Highways Department

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

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

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

> > March 2007

Approved By	Chuph
	(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.

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ABBREVIATION AND ACRONYM

AL Levels	Action and Limit Levels
CEDD	Civil Engineering and Development Department
E / ER	Engineer/Engineer's Representative
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring and Audit
EMIS	Environmental Mitigation Implementation Schedule
EP	Environmental Permit
EPD	Environmental Protection Department
ET	Environmental Team
HVS	High Volume Sampler
HyD	Highways Department
IEC	Independent Environmental Checker
NOE	Notification of Exceedancne
QA/QC	Quality Assurance / Quality Control
RE	Resident Engineer
RH	Relative Humidity
SLM	Sound Level Meter
TSP	Total Suspended Particulates

EXECUTIVE SUMMARY

Introduction

This is the 40th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel". This report documents the findings of EM&A Works conducted in March 2007 for Contract No. HY/2003/01, Lai Chi Kok Viaduct (the Project).

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

- Rock dowel installation at slope CCR-S4;
- Bulk excavation works at slope CCR-S4 and LCK-R3;
- Retaining wall construction at CCR-R1 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3;
- Slope upgrading works for Features No.11NW-A/FR54 & FR55;
- Drainage works at slip roads D and Lai Po Road;
- Offsite fabrication of parapet and noise barrier;
- Cast in-situ of slip roads C and D;
- Parapet installation for Main Viaduct and slip roads A to B;
- Erection of noise barrier at slip roads A, B C, D and Main Viaduct;
- Construction of Wai Man Tsuen pump house & Irrigation Pump House near pier C14 and kiosk at CCR-S1;
- Hydroseeding for slope CCR-S1 & S3; and
- Road works at Slip Road C & D, Lai Po Road and Butterfly Valley Road.

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

• Cable-laying at Sections A, B, C, F, G and Kiosk K2.

Environmental Monitoring and Audit Works

Environmental monitoring and audit works for the Project was performed regularly as stipulated in the updated EM&A Manual and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

• Summary of the events and action taken in the reporting month is tabulated in Table I.

Table I Summary Table for Events Recorded in the Reporting Month

Parameter	No. of Events		No. of Events	Action Taken
1 al ameter	Action Level	Limit Level	Due to the Project	Action Taken
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A

Environmental Licenses and Permits

Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, the Water Discharge Licenses (WDLs) and the Construction Noise Permits (CNPs). Total of 4 new CNPs were issued to the Project by EPD in the reporting month.

Key Information in the Reporting Month

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

Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark	
Event	Number	Nature	ACTOR LAKER	Status	ixcinal K	
Complaint received	0		N/A	N/A		
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A		
Status of submissions under EP	0		N/A	N/A		
Notifications of any summons & prosecutions received	0		N/A	N/A		

Future Key Issues:

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

- Rock dowel installation at slope CCR-S4;
- Bulk excavation works at slope CCR-S4, LCK-R3 and CCR-R5;
- Retaining wall construction at CCR-R1 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works at slip road D and Lai Po Road;
- Offsite fabrication of parapet and noise barrier;
- Cast in-situ of slip roads C and D;
- Parapet installation for Main Viaduct and slip roads A to B;
- Erection of noise barrier at slip roads A, B C, D and Main Viaduct;
- Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house;
- Hydroseeding and tree planting for slope CCR-S1, S3 & S6; and
- Road works at slip roads C & D, Lai Po Road and Butterfly Valley Road.

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

- Cable-laying at Sections A, B, C, D, E, F and G and Kiosk K2;
- Control Cabinet Installation at Sections A, B, C, D, E, F and G and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and G; and
- Equipment Cabinet Installation at Kiosk K2.

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

1. INTRODUCTION

Background

- 1.1 Route 9 (Kowloon Section) (R9K) (hereinafter call the R9K-Project) forms part of the Route 9 between Cheung Sha Wan and Sha Tin (R9-CSWST) project, which will be a new expressway connecting West Kowloon and Sha Tin. It will be the fourth external link between Sha Tin and Kowloon and will form an important link between the northeast New Territories and the west Kowloon, Lantau Island and the western New Territories. R9K is being managed and implemented by the Highways Department (HyD).
- 1.2 The engineering design of R9K is covered under Agreement No. CE 50/98 "Route 9 between Cheung Sha Wan and Sha Tin Design Construction Assignment". The main consultant engaged under Agreement No. CE 50/98 is Maunsell Hyder Joint Venture (MHJV), who will act as the Engineer for the construction contracts. The works of R9K mainly comprise a 1.4km dual 3-lane Lai Chi Kok Viaduct from Lai Wan Interchange to Butterfly Valley; 0.5 km of dual 3-lane at-grade carriageway linking to the 2.1 km dual 3-lane twin-bore Eagle's Nest Tunnel with associated portal buildings; a toll plaza with an administration building located with the Sha Tin valley woodland; a ventilation building and an adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).
- 1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An environmental impact assessment (EIA) report has been prepared in 1998 for the R9-CSWST project (1998 R9 EIA) to consider the key issues of noise, air quality, water quality, ecological, construction waste, landscape and visual, land use and cultural impacts, and identify possible mitigation measures.
- 1.4 An Updated Final EIA report was subsequently completed in August 1999 for the R9-CSWST project (1999 R9 EIA), to cater for some changes in R9K portion as mentioned in paragraph 1 in the report. The 1999 R9 EIA was endorsed by Environmental Protection Department (EPD) in November 1999. The 1998 R9 EIA and the 1999 R9 EIA (R9 EIA Reports) were included in the EIA register under the EIAO as report no. EIA-135/BC and AEIAR-022/1999 respectively. Environmental Monitoring and Audit (EM&A) Manuals for each of the R9 EIA Reports (EM&A Manuals) were also included as part of the EIA reports in the register.
- 1.5 Subsequent to the endorsement of the R9 EIA Reports by EPD in November 1999, the project programme was deferred to start in 2002/2003 for completion by 2006/07. The implementation of the project was then separated into the R9S and R9K portion. An Environmental Permit (EP) No. EP-103/2001 was issued on 17 September 2001 for R9K to the HyD as Permit Holder and a varied EP No. EP-103/2001/A was subsequently issued on 20 May 2003 for R9K (R9K EP) to HyD as Permit Holder. A varied EP-103/2001/C was recently issued on 22 July 2005.

- 1.6 The major construction activities of two civil contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 Eagle's Nest Tunnel and Associated Works", were commenced in 15th December 2003 for completion in April 2007.
- 1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 between Cheung Sha Wan and Sha Tin Environmental Team (ET) for Lai Chi Kok Viaduct and Eagle's Nest Tunnel (Contract No. HY/2003/10)". Dr. Priscilla CHOY of Cinotech Consultants Ltd. was appointed as the ET Leader under Condition 2.2 of the EP. Mr. David YEUNG of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the 40th monthly EM&A report summarizing the EM&A works for the Project in March 2007.

Project Organizations

- 1.8 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Major Works Project Management Office (MWPMO) of Highways Department (HyD)
 - Engineer (E) / Engineer's Representative (ER) Maunsell-Hyder Joint Venture
 - Environmental Team (ET) Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) CH2M HILL Hong Kong Limited
 - Contractor Acciona Infraestructuras S.A.
 - Engineer's Representative for TCSS works Ove Arup & Partners Hong Hong Limited
 - Contractor for TCSS works Delcan-Imtech-Gtech Joint Venture
- 1.9 The responsibilities of respective parties are detailed in Section 1.8.3 of the EM&A Manual (1999) of the Project.
- 1.10 The key contacts of the Project are shown in **Table 1.1**.

Construction Programme

- 1.11 The site activities for civil works undertaken in the reporting month included:
 - Rock dowel installation at slope CCR-S4;
 - Bulk excavation works at slope CCR-S4 and LCK-R3;
 - Retaining wall construction at CCR-R1 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3;
 - Slope upgrading works for Features No.11NW-A/FR54 & FR55;
 - Drainage works at slip roads D and Lai Po Road;
 - Offsite fabrication of parapet and noise barrier;
 - Cast in-situ of slip roads C and D;
 - Parapet installation for Main Viaduct and slip roads A to B;
 - Erection of noise barrier at slip roads A, B C, D and Main Viaduct;
 - Construction of Wai Man Tsuen pump house & Irrigation Pump House near pier C14 and kiosk at CCR-S1;
 - Hydroseeding for slope CCR-S1 & S3; and
 - Road works at Slip Road C & D, Lai Po Road and Butterfly Valley Road.

- 1.12 The site activities for TCSS works undertaken in the reporting month included:
 - Cable-laying at Sections A, B, C, F, G and Kiosk K2.

Party	Role	Name	Position	Phone No.	Fax No.	
HyD	Permit Holder	Mr. Kroc Leung	SE2/R8K	2762 3662		
		Mr. Esther Yung	E1/R8K	2762 3677	2714 5198	
		Mr. LC Chung	E2/R8K	2762 3613		
	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649	
MHJV		Mr. Peter Poon	CRE	2959 0010		
IVITIJ V	Engineer's Representative	Mr. Henry Liu	SRE	2991 1068	2959 0290	
	representative	Mr. Joseph Chi	RE	2991 1034		
		Dr. Priscilla Choy	ET Leader	2151 2089		
	Environmental Team	Mr. Jesse Yuen	Project Manager	2151 2091		
Cinotech		Mr. Edmond Wu	Audit Team Leader	2151 2092	3107 1388	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087		
	Independent Environmental Checker	Mr. David Yeung	Independent Environmental Checker	2872 2934	2507 2293	
CH2M		Mr. Billy Yu	Assistant Independent Environmental Checker	2872 2949	2507 2293	
Acciona	Contractor	Mr. William D. Payne	Project Director	2956 3300	2956 3331	
Acciolia	Contractor	Mr. Lawrence Kwok	QA/E Manager	2930 3300	2930 3331	
ARUP	Engineer's Representative (TCSS)	Mr. Donald Leung	RE	2436 7489	2426 1002	
		Mr. Joseph Chow	ARE	2436 7435	2436 1803	
DIGJV	DIGJV Contractor (TCSS) Ms. Joyce Chan Quality Manager		2123 0845	2123 0889		
24-hour Er	24-hour Emergency Hotline				-	

Table 1.1 Key Project Contacts

Summary of EM&A Requirements

- 1.13 The EM&A programme requires construction phase monitoring for air quality and construction noise, and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.

- 1.14 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 4 of this report.
- 1.15 This report presents the environmental monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely dust and noise levels and audit works for the Project in the reporting month.

2. AIR QUALITY

Monitoring Requirements

2.1 Monitoring of 1-hour and 24-hour TSP was conducted to monitor the air quality. **Appendix** A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 One designated monitoring station, AM2 was selected for impact dust monitoring for the Project. **Table 2.1** describes the air quality monitoring location, which is also depicted in **Figures 1**.

Table 2.1 Locations for Air Quality Monitoring

Monitoring Station	Description	Location
AM2	Lai Chi Kok Park Sports Centre	Rooftop

Monitoring Equipment

2.3 **Table 2.2** summarizes the equipment used for the air quality monitoring. Copies of calibration certificates are attached in **Appendix B**.

Table 2.2Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Calibrator	GMW25; S/N: 1536	1
HVS Sampler	Graseby GMW Model GS2310 High Volume TSP Sampler and associated equipment and shelter	1

Monitoring Parameters, Frequency and Duration

2.4 **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period is shown in **Appendix C**.

Table 2.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

Instrumentation

2.5 Graseby GMW Model GS2310 TSP High Volume Sampler (HVS) was employed for 1-hour & 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Sections 2.2 to 2.4 of the EM&A Manual (1999).

Operating/Analytical Procedures

- 2.6 Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.7 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between $1.1 \text{ m}^3/\text{min.}$ and $1.4 \text{ m}^3/\text{min.}$) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.8 For TSP sampling, fiberglass filters (G810) were used.
- 2.9 The power supply was checked to ensure the sampler worked properly.
- 2.10 On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.11 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.12 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- 2.13 The shelter lid was closed and secured with the aluminum strip.
- 2.14 The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.15 After sampling, the filter was removed and sent to the laboratory for weighing. The elapsed time was also recorded.
- 2.16 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than \pm 3°C; the relative humidity (RH) should be < 50% and not vary by more than \pm 5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.17 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using GMW-25 Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

- 2.18 All TSP monitoring was conducted as scheduled in this reporting month. No Action/Limit Level exceedance for both 1-hr and 24-hr TSP was recorded in the reporting month.
- 2.19 Wind data monitoring equipment has been installed in Shatin Heights for logging wind speed and wind direction. These wind data for the reporting month is summarized in **Appendix D**.
- 2.20 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E** and **F**, respectively.

3. NOISE

Monitoring Requirements

- 3.1 Monitoring and audit of construction noise levels is required to be conducted, in accordance with the EM&A Manual, to ensure that any unacceptable noise impacts could be readily detected and timely and appropriate action be undertaken to rectify the situation.
- 3.2 The construction noise levels shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30min) shall be used as the monitoring parameter for the time period between 0700-1900 hours on normal weekdays. For all other time periods, Leq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.
- 3.3 Five designated noise monitoring stations, namely NM2, NM4, NM8a, NM8b and NM9 were selected for impact monitoring. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.4 Noise monitoring was conducted at five designated monitoring stations as summarized in **Table 3.1**. Figures 1 show the locations of these stations.

Stations ⁽¹⁾	Description	Location
NM2	Lai Chi Kok Correctional Institution	Rooftop
NM4	Mei Foo Sun Chuen, Phase 5	Rooftop of Block 9
NM8a	Nob Hill	M/F of Car Park
NM8b	Nob Hill	3/F of Car Park
NM9	Hoi Lai Estate	G/F of Hoi Fai House

Table 3.1Noise Monitoring Stations

(1) The Lai Chi Kok Hospital (NM3) was also found vacated and noise monitoring has been suspended since January 2005, as approved by EPD on 15th March 2005.

3.5 Stations NM8a and NM8b were installed at Nob Hill in May 2004. Station NM8b is located at 3/F of the car park of Nob Hill, which is strongly influenced by traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check of construction noise. The measured noise level at Station NM8a, which is located at M/F of car park and closer to the construction site, acts as an indicator of the construction noise. Since the domestic premises are located above 5/F, noise assessment would be performed to assess the level of nuisance resulting from the construction noise at the domestic premises whenever the measured noise level at NM8a exceeds the noise limit level.

- 3.6 The noise monitoring at Lai Chi Kok Correctional Institution (NM2), which was formerly known as Lai Chi Kok Reception Centre, has been resumed since 8th September 2006 after the completion of the renovation works.
- 3.7 A new housing estate, Hoi Lai Estate, became one of the noise sensitive receivers close to the Project site. As recommended by the Regional (West) Office of EPD, noise monitoring at this location (Station NM9) was newly included in the EM&A programme. Approval for the change of EM&A programme was granted by EPD on 30th December 2004.

Monitoring Equipment

3.8 **Table 3.2** summarizes the noise monitoring equipment model being used. Copies of calibration certificates are attached in **Appendix B**.

Table 3.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	B&K Model 2238	5
Calibrator	B&K 4231	2
Wind Speed Anemometer	RS232 Integral Vane Digital Anemometer	1

Monitoring Parameters, Frequency and Duration

3.9 **Table 3.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix C**.

Table 3.3Noise Monitoring Parameters, Frequency and Duration

Stations	Parameter	Period	Frequency	Measurement
NM2	L ₁₀ (30 min.)dB(A) L ₉₀ (30 min.)dB(A) L _{eq} (30 min.)dB(A)			Façade
NM4		0700-1900 hrs. on weekdays	Once per week	Façade
NM8a				Façade
NM8b		on weekdays	week	Façade
NM9				Façade

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was generally set on a tripod at a height of 1.2 m above the ground, depending to the actual monitoring condition.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting : A
 - time weighting
- : Fast
- time measurement : 30 minutes / 5 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator

for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 3.10 The microphone head of the sound level meter and calibrator was cleaned with soft cloth regularly.
- 3.11 The meters were sent to the supplier to check and calibrate on a yearly interval.

Results and Observations

- 3.12 Noise monitoring was performed at the five designated locations (NM2, NM4, NM8a, NM8b and NM9) as scheduled in the reporting month.
- 3.13 All the Construction Noise Levels (CNLs) reported in this report, except those collected at Stations NM8a, NM8b and NM9, were adjusted with the corresponding baseline level (i.e. Measured Leq Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance.
- 3.14 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.15 No Action/Limit Level exceedance was recorded in the reporting month.
- 3.16 At Stations NM8a and NM8b, the major noise source identified during the monitoring exercises was mainly the road traffic noise.
- 3.17 At Stations NM2, NM4 and NM9, construction noise from the Project and occasionally the traffic noise were identified as the major noise source during monitoring.

4. ENVIRONMENTAL AUDIT

Site Audits

- 4.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 4.2 Site audits for Civil contract were conducted on 1st, 7th, 14th, 19th and 29th March 2007 by ET. . No environmental deficiency was recorded for TCSS contract during site inspections. The joint site audit for civil works and TCSS works was conducted on 1st and 29th March 2007 with representatives from HyD, IEC, ER, the Contractor and ET.

Review of Environmental Monitoring Procedures

4.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

4.4 All valid permits/licenses obtained for the Project are summarized in **Table 4.1**. Total of 4 new CNPs were issued to the Project in the reporting month.

Implementation Status of Environmental Mitigation Measures

4.5 According to the Environmental Permit and the EM&A Manuals, the mitigation measures detailed in the documents are required to be implemented. An updated summary of the EMIS is provided in **Appendix K**.

Table 4.1	Summary of Environmental Licensing and Permit Status
-----------	--

Permit No.	Valid	Period	- Details	Status
Permit No.	From	То	Details	Status
Environmental Per	rmit (EP)			
EP-103/2001/C	22/7/05	N/A	 <u>Construction and operation of</u> (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; © The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel. 	Valid
Registration of Ch	emical Wast	e Producer		
WPN 5213-261- N2413-04	17/11/03	N/A	N/A	Valid
Water Discharge I	lisence	_		
EP482/260/251/1	05/12/03	31/12/08	Discharge of industrial trade effluent arising from the construction site at Route 9 – Lai Po Road Section of Lai Chi Kok Viaduct (Contract HY/2003/01).	Valid
EP482/260/251/2	15/12/03	31/12/08	Discharge of industrial trade effluent arising from the construction site at Route 9 – Lai Chi Kok Viaduct excluding Lai Po Road Section.	Valid
Construction Noise	e Permit (CN	NP)		
GW-RW0498-06	16/9/06	15/3/07	<i>Location:</i> Butterfly Valley <i>Time Period:</i> 0700-2300 (general holidays including Sundays) and 1900-2300 (any day not being a general holiday).	Expired
GW-RW0508-06	13/9/06	12/3/07	<i>Location:</i> Butterfly Valley Interchange <i>Time Period</i> Any day not being a general holiday between 2100- 2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Expired
GW-RW0513-06	17/9/06	11/3/07	<i>Location:</i> Junction of Castle Peak Road and Ching Cheung Road <i>Time Period:</i> 0900-1900 (general holiday including Sundays)	Expired
GW-RW0558-06	1/10/06	31/3/07	<i>Location:</i> Butterfly Valley Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday)	Cancelled on 22 March 07
GW-RW0565-06	4/10/06	03/4/07	<i>Location:</i> Castle Peak Road near Ching Cheung Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday)	Valid
GW-RW0580-06	9/10/06	09/3/07	<i>Location:</i> Castle Peak Road and Butterfly Valley Road <i>Time Period:</i> Any day not being a general holiday between 2100- 2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Expired
GW-RW0581-06	6/10/06	06/4/07	<i>Location:</i> Junction of Ching Cheung Road and Castle Peak Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday)	Cancelled on 30 March 07

Permit No.	Valid	Period	- Details	Status	
rermit No.	From To		Details	Status	
GW-RW0582-06	9/10/06	08/3/07	<i>Location:</i> Butterfly Valley Interchange <i>Time Period:</i> Any day not being a general holiday between 2100- 2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Expired	
GW-RW0624-06	27/10/06	26/4/07	<i>Location:</i> Kwai Chung Road near Lai Chi Kok Interchange <i>Time Period:</i> Any day not being a general holiday between 2100- 2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Valid	
GW-RW0625-06	31/10/06	28/4/07	<i>Location:</i> Butterfly Valley Road near Lai Chi Kok Reception Centre <i>Time Period:</i> Any day not being a general holiday between 2100- 2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Valid	
GW-RW0642-06	13/11/06	11/4/07	<i>Location:</i> Butterfly Valley Road near Lai Chi Kok Interchange <i>Time Period:</i> Any day not being a general holiday between 2100- 2400 hours (immediately following a general holiday) and between 0000-0700 hours & 2100-2400 hours (not immediately following a general holiday).	Valid	
GW-RW0643-06	8/11/06	7/5/07	<i>Location:</i> Ching Cheung Road near Butterfly Valley <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid	
GW-RN0662-06	24/11/06	19/5/07	<i>Location:</i> Ching Cheung Road near Butterfly Valley <i>Time Period:</i> any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid	
GW-RW0745-06	3/1/07	2/6/07	<i>Location:</i> Lai Po Road near Sham Mong Road <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Cancelled on 21 March 07	
GW-RW0755-06	14/1/07	10/6/07	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid	
GW-RW0027-07	31/1/07	30/6/07	<i>Location:</i> Lai Wan Road <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid	
GW-RW0057-07	21/2/07	21/7/07	<i>Location:</i> Kwai Chung Road near Lai Chi Kok Interchange <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid	
GW-RW0058-07	25/2/07	19/8/07	<i>Location:</i> Ching Cheung Road section between Nob Hill to Castle Peak Road <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid	
GW-RW0072-07	27/2/07	27/7/07	<i>Location:</i> Ching Cheung Road near Mei Foo Sun Chuen <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid	
GW-RW0093-07	21/3/07	19/9/07	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 1900-0700 (any day not being a general holiday).	Valid	
GW-RW0097-07	22/3/07	21/9/07	<i>Location:</i> Butterfly Valley Road, Lai Chi Kok <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid	
GW-RW0121-07	27/3/07	27/9/07	<i>Location:</i> Butterfly Valley, Lai Chi Kok <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid	

Permit No.	Valid Period		= Details	
I el lille 140.	From	То	Detans	Status
GW-RW0129-07	o. From To		<i>Location:</i> Construction site at junction of Ching Cheung Road and Castle Peak Road <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid

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

Table 4.2	Observations and Recommendations of Site Audits for Civil Works

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	1-Mar-07-	<i>Reminder</i> - The contractor was reminded to rectify the problem of wastewater treatment for the water of wheel washing at R2.	Rectification / improvement was observed during the site inspection on 7 March 07.
Air Quality	1-Mar-07	<i>Reminder</i> - The contractor was reminded to provide cover or spray with water for the stockpiles of dusty of material when no working was progressed at King Lam Street.	Rectification / improvement was observed during the site inspection on 7 March 07.
Waste / Chemical Management	1-Mar-07	<i>Reminder</i> - A drum of diesel oil placed in a un- suitable area was observed at Lai Po Road site area. It should be stored in a drip tray to avoid spillage	Rectification / improvement was observed during the site inspection on 7 March 07.

4.7 The observations and recommendations arising from pervious month and followed up in the reporting month are summarized in **Table 4.3**.

Table 4.3Observations and Recommendations of Site Audits Followed up for Pervious
Month for Civil Works

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

Summary of Exceedances

1-hr and 24-hr TSP Monitoring

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

Construction Noise Monitoring

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

Implementation Status of Event Action Plans

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

Summary of Complaint and Prosecution

- 4.11 No environmental complaint was received in the reporting month.
- 4.12 No prosecution was received in the reporting month.
- 4.13 There were 37 environmental complaints referred to the ET and 1 prosecution received since the commencement of the Project. The Complaint Log is attached in **Appendix M**.

5. FUTURE KEY ISSUES

Key Issues for the Coming Month

- 5.1 Key issues to be considered in the coming month include:
 - Construction noise from excavation works, construction of pump station, rock dowel installation and retaining wall at CCR-R1 to CCR-R3 & CC-R6 and LCK-R2 to LCK-R3;
 - Surface runoff generated at the areas CCR-S1, CCR-S4 and LCK-R3; and
 - Dust generation from stockpiles of dusty materials, exposed retaining wall and bulk excavation works and haul road.
 - Stagnant water accumulated on site after heavy rainfall.

Monitoring Schedule for the Next Month

5.2 The tentative monitoring schedule for the next month is shown in **Appendix C**.

Construction Program for the Next Month

- 5.3 The major construction activities for civil works in the coming month include:
 - Rock dowel installation at slope CCR-S4;
 - Bulk excavation works at slope CCR-S4, LCK-R3 and CCR-R5;
 - Retaining wall construction at CCR-R1 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3;
 - Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
 - Drainage works at slip road D and Lai Po Road;
 - Offsite fabrication of parapet and noise barrier;
 - Cast in-situ of slip roads C and D;
 - Parapet installation for Main Viaduct and slip roads A to B;
 - Erection of noise barrier at slip roads A, B C, D and Main Viaduct;
 - Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house;
 - Hydroseeding and tree planting for slope CCR-S1, S3 & S6; and
 - Road works at slip roads C & D, Lai Po Road and Butterfly Valley Road.
- 5.4 The tentative construction program for civil works is provided in **Appendix L**.
- 5.5 The major activities for TCSS works in the coming month include:
 - Cable-laying at Sections A, B, C, D, E, F and G and Kiosk K2;
 - Control Cabinet Installation at Sections A, B, C, D, E, F and G and Kiosk K2;
 - Field Equipment Installation at Sections A, B, C, D, E, F and G; and
 - Equipment Cabinet Installation at Kiosk K2.

6. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 6.1 Environmental monitoring works were conducted in the reporting month and all monitoring results were checked and reviewed.
- 6.2 No Action/Limit Level exceedance for both 1-hour TSP and 24-hours TSP was recorded in the reporting month.
- 6.3 No Action/Limit Level exceedance for noise was recorded in the reporting month.
- 6.4 No environmental complaint was received in the reporting month.
- 6.5 No prosecution was received in the reporting month.

Recommendations

6.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Impact

- To ensure properly maintenance for de-silting facilities
- To review and implement temporary drainage system for the upcoming wet season.
- To review the capacity of de-silting facilities for discharge.
- To avoid stagnant water accumulation on site.

Noise Impact

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

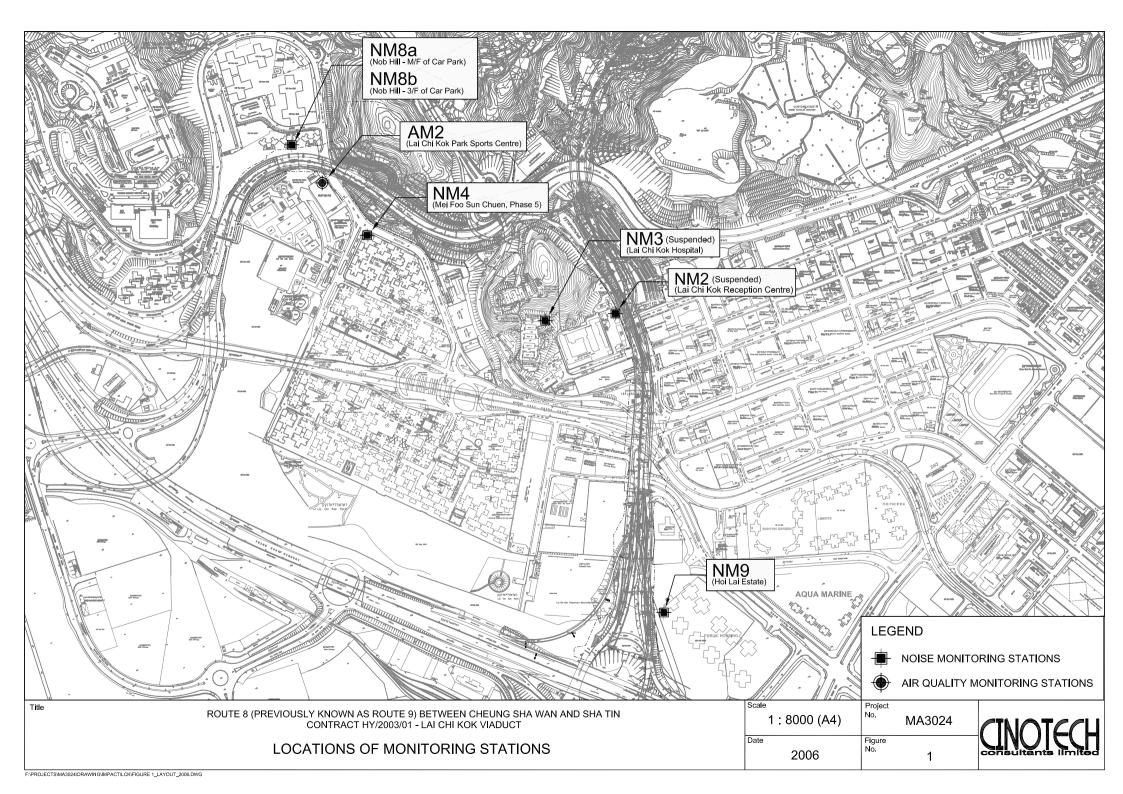
Dust Impact

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

Waste / Chemical Management

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

FIGURES



APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels (LCKV)

1-Hour TSP

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

24-Hour TSP

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

Construction Noise

Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays		75 dB(A)
0700-2300 hrs on holidays & 1900-2300 hrs on all other days	When one documented complaint is received	70* dB(A)
2300-0700 hrs of next day	1	55* dB(A)

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

APPENDIX B COPIES OF CALIBRATION CERTIFCATES

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

CINOTECH

						File No.	MA3024/20/002	21
Station	Lai Chi Kok Sport C	entre (AM2)			WK			
Date:	17-Jan-07				16-Mar	16-Mar-07		
Equipment No.:	pment No.: A-01-20		Serial No.		0818			
			Ambient	Condition				
Temperatu	re Ta (K)	289.3	Pressure, Pa			767.4		
Temperatu		207.0	11055010,10	(111115)	L	10111		
		O	rifice Transfer Sta	andard Inform	ation			
Equipme	Equipment No.: A-04-04		Slope, mc	0.0575	Intercept	t, bc	0.0395	
Last Calibration Date: 13-Mar-06				$bc = [\Delta H x (Pa/76)]$				
Next Calibra	ation Date:	12-Mar-07		Qstd = $\{[\Delta H]$	x (Pa/760) x (298	$(Ta)]^{1/2} - bc\}$	/ mc	
	1		Calibration of	TSP Sampler				
Calibration	177 / 100	Or	fice	0.1/070.5		HVS	(acc m >-1/2	
Point	∆H (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil		760) x (298/Ta)] ^{1/2} axis	Y-
1	11.9		3.52	60.50	9.5		3.14	
2	10.7	1	3.34	57.33	8.3		2.94	
3	7.2		2.74	46.91	5.6		2.41	
4	5.3		2.35	40.15	3.2		1.82	
5	3.2		1.82	31.04	2.1		1.48	
Slope , mw = Correlation c *If Correlation (and the second se	940	-	-0.381			
			Set Point C	Calculation				
From the TSP Fi	ield Calibration (Curve, take Qstd =	= 43 CFM					
From the Regres	ssion Equation, th	ne "Y" value acco	ording to					
			$Qstd + bw = [\Delta W]$	(D-/7(0)- (2	1/2			
		mw x o	$Qstd + bw = [\Delta w]$	x (Pa/760) x (2	(98/1a)			
Therefore, S	et Point; W = (n	w x Qstd + bw)	² x (760 / Pa) x ('	Ta / 298) =	4.31			
Remarks:								
Conducted by:	W-Q. Jane	Signature:	Kinni	5		Date:	17/1/0	7
Checked by:	The	Signature:		_		Date:	1) Januar	<u> </u>
Checked by:		Signature:				Date:	Demon	+
			V				,	/
DID 1 10 10		070117	-					

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



						File No.	MA3024/20/0022
Station	Lai Chi Kok Sport C	entre (AM2)		Operator:	WK		
Date:	16-Mar-07		Next Due Date:		15-May-07		
Equipment No.:	A-01-20	-01-20 Serial No		Serial No.	. 0818		
			Ambient	Condition			
Temperatu	ure, Ta (K)	295.4		a (mmHg)		762.2	
	· · · ·			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		/02.2	
		Or	ifice Transfer S	tandard Inform	nation		
Equipm	ent No.:	A-04-04	Slope, mc	0.0575	Intercept	t, bc	0.0395
Last Calibr	ation Date:	12-Mar-07			$bc = [\Delta H \ x \ (Pa/76)]$		
Next Calibr	ration Date:	11-Mar-08		Qstd = ${[\Delta H]}$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} /	mc
		•					
	T			of TSP Sampler			
Calibration		Orf	īce			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	[ΔW x (Pa/7	60) x (298/Ta)] ^{1/2} Y- axis
1	11.9	3	.47	59.66	9.4		3.08
2	10.5	3	.26	56.00	8.4		2.92
3	7.6	2	.77	47.54	5.9		2.44
4	5.0	2	.25	38.43	3.3		1.83
5	3.0	1	1.74 29.61 2		2.2		1.49
By Linear Reg Slope , mw =	ression of Y on X 0.0551			Intercent by	-0.194	4	
Correlation of		0.99	965	intercept, on			
	Coefficient < 0.990						
			Set Point	Calculation			
From the TSP F	ield Calibration C	urve, take Qstd =	43 CFM				
From the Regres	ssion Equation, the	"Y" value accor	ding to				
		mw x Q	$\Delta t = [\Delta W]$	' x (Pa/760) x (2	98/Ta)] ^{~~}		
Therefore, S	et Point; W = (my	$w \ge (x + bw)^2$	x (760 / Pa) x (Ta / 298) =	4.67		
				,			
	111000000						
Remarks:						1177 m	
							20 20
2 1 2	151-1 -			1		1	11717
Conducted by:	WK Tang	Signature:	10-30	ಲ		Date:	6/3/0/ 6 March wood
Checked by:	(Signature:				Date:	6 March 200+
			\vee				1

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WELLAB LTD.

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

TEST REPORT

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

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

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

	Description	: RS232 Integral Vane Digital Anemometer
	Manufacturer	: AZ Instrument
	Model No.	: 451104
	Serial No.	: 9020746
	Equipment No.	: A-03-01
est cor	iditions:	
	Room Temperature	: 21 degree Celsius

Tes

Room Temperature Relative Humidity Pressure

: 66% : 1018.4 kPa

Methodology:

The anemometer has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

	Reference Set Point	Instrument Readings
Measuring Air Velocity, m/s	2.00	2.00
Temperature, °C	21.0	21.0

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

Patriel

PATRICK TSE Laboratory Manager

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator		Rootsmeter Orifice I.I		833620 0993	Ta (K) - Pa (mm) -	294 746.76
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	======================================	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00 1.00	1.3890 0.9850 0.8810 0.8410 0.6950	3.2 6.3 7.8 8.6 12.5	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9917 0.9876 0.9854 0.9844 0.9792	0.7139 1.0026 1.1185 1.1706 1.4090	1.4113 1.9959 2.2315 2.3405 2.8227		0.9957 0.9916 0.9894 0.9884 0.9832	0.7168 1.0067 1.1231 1.1753 1.4147	0.8874 1.2549 1.4030 1.4715 1.7747
Qstd sloj intercep coeffici	t (b) =	2.03154 -0.03970 0.99999		Qa slop intercep coefficie	t (b) =	1.27212 -0.02496 0.99999
y axis =	SQRT [H20 (I	Pa/760) (298/1	Ta)]	y axis =	SQRT [H20 (7	[a/Pa)]

CALCULATIONS

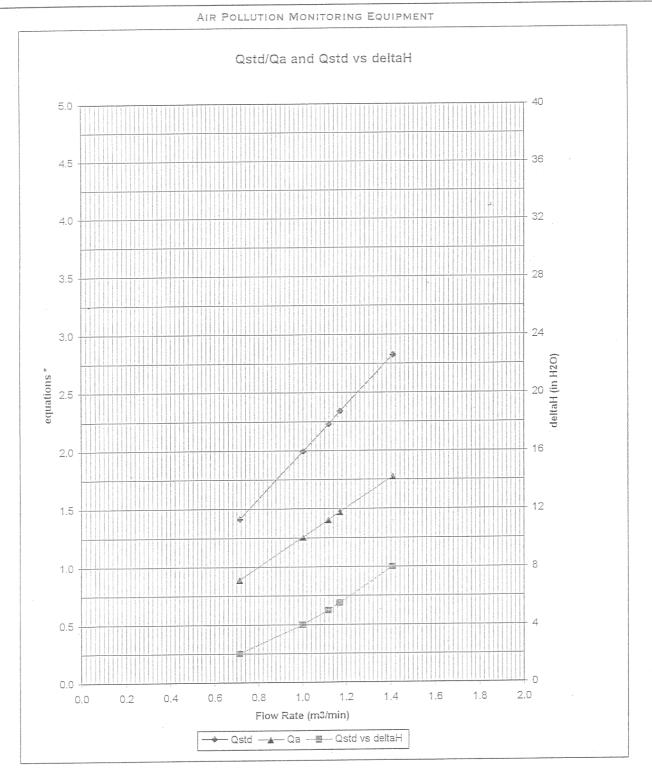
Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

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

For subsequent flow rate calculations:

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

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* y-axis equations: Qstd series: $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ $\sqrt{\left(\Delta H \left(Ta / Pa\right)\right)}$

#0993

Qa series:

IISCH

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - M. Operator		7 Rootsmeter Orifice I.I		833640 0999	Ta (K) - Pa (mm) -	294 - 746.76
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3890 0.9850 0.8810 0.8810 0.8410 0.6950	METER DIFF Hg (mm) 3.2 6.3 7.8 8.6 12.5	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9917 0.9876 0.9854 0.9844 0.9792	0.7139 1.0026 1.1185 1.1706 1.4090	1.4113 1.9959 2.2315 2.3405 2.8227		0.9957 0.9916 0.9894 0.9884 0.9832	0.7168 1.0067 1.1231 1.1753 1.4147	0.8874 1.2549 1.4030 1.4715 1.7747
Qstd slop intercept coefficie	= (b) =	2.03154 -0.03970 0.99999		Qa slope intercept coefficie	: (b) =	1.27212 -0.02496 0.99999
y axis = SQRT[H2O(Pa/760)(298/Ta)]				y axis =	SQRT [H20 (]	[a/Pa)]

CALCULATIONS

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

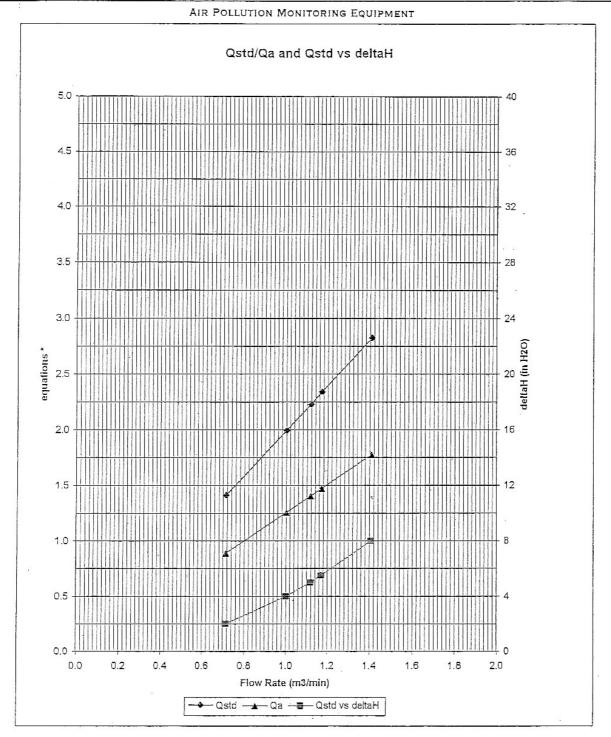
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

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



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



* y-axis equations: Qstd series:

$$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$$
$$\sqrt{\left(\Delta H \left(Ta / Pa\right)\right)}$$

Qa series:

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

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/61215/1
	1602-1610 Delta House,	Date of Issue:	2006-12-15
	3 On Yiu Street,	Date Received:	2006-12-14
	Shatin, N.T.	Date Tested:	2006-12-15
		Date Completed:	2006-12-15
		Next Due Date:	2007-12-14

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Mr. Henry Leung

1 of 1

Certificate of Calibration

Page:

Item for calibration:

ATTN:

	Description Manufacturer Model No. Serial No. Microphone No.	: Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2337665 : 2289749
	Equipment No.	: N-01-01
Test condition	s:	
	Room Temperatre Relative Humidity	: 20 degree Celsius : 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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

PATRICK TSE Operation Manager

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

TEST REPORT

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

ATTN:

Mr. Henry Leung

Certificate of Calibration

Page:

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Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337666
Microphone No.	: 2289750
Equipment No.	: N-01-02
Test conditions:	
Room Temperatr	e : 20 degree Celsius

Room Temperatre Relative Humidity

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

: 59%

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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

Patriels

PATRICK TSE Operation Manager

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

TEST REPORT

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

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

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

Next Due Date:

Page:

2007-09-03

1 of 1

Test conditions:

Room Temperatre Relative Humidity : 23 degree Celsius : 64%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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

Patrick

PATRICK TSE Laborary Manager

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

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/60904-2
	1602-1610 Delta House,	Date of Issue:	2006-09-04
	3 On Yiu Street,	Date Received:	2006-09-02
	Shatin, N.T.	Date Tested:	2006-09-02
		Date Completed:	2006-09-04
		Next Due Date:	2007-09-03

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

Test conditions:

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

Page:

1 of 1

: 23 degree Celsius : 63% : 1006.5hPa

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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

Patrick

PATRICK TSE Operation Manager

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

TEST REPORT

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

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

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

Page:

1 of 1

Test conditions:

Room Temperatre Relative Humidity : 21 degree Celsius : 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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Patrick

PATRICK TSE Operation Manager

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

TEST REPORT

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

Item for calibration:

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

Test conditions:

Room Temperatre	: 20 degree Celsius
Relative Humidity	: 59%
Pressure	: 1015.2 hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance	
At 94 dB SPL	94.0	$94.0\pm~0.1~\mathrm{dB}$	

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Patrick

PATRICK TSE Operation Manager

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

TEST REPORT

APPLICANT	Cinotech Consultants I	imited	Test Report No.:	C/06/60304
	1602-1610 Delta House	,	Date of Issue:	2006-03-04
	3 On Yiu Street,		Date Received:	2006-03-03
	Shatin, N.T.		Date Tested:	2006-03-03
			Date Completed:	2006-03-04
			Next Due Date:	2007-03-04
ATTN:	Mr. Henry Leung		Page:	1 of 1
Item for calibi	ration:			
	Description	: Acoustica	al Calibrator	
	Manufacturer	: Brüel & I	Kjær	
	Model No.	: 4231		
, ×	Serial No.	: 2343007		
	Project No.	: C13		
	Equipment No.	: N-02-02		
Test condition	s:			
	Decay Terret	00 1	C 1 :	

Room Temperatre: 20 degree CelsiusRelative Humidity: 71%Pressure: 1020.1hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance	
At 94 dB SPL	94.0	$94.0\pm~0.2~\mathrm{dB}$	

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Patrick

PATRICK TSE Operation Manager

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

TEST REPORT

APPLICANT:	Cinotech Consultants Limited 1602-1610 Delta House,	Test Report No.: Date of Issue:	C/06/70305 2007-03-05
	3 On Yiu Street,	Date Received:	2007-03-03
	Shatin, N.T.	Date Tested:	2007-03-03
		Date Completed:	2007-03-05
		Next Due Date:	2008-03-04
ATTN:	Mr. Henry Leung	Page:	1 of 1

Item for calibration:

	Description Manufacturer Model No. Serial No. Project No. Equipment No.	: Acoustical Calibrator : Brüel & Kjær : 4231 : 2343007 : C13 : N-02-02
Test condition		: 20 degree Celsius : 65% : 1020.1hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.2 dB

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

Patrick.

PATRICK TSE Operation Manager

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

TEST REPORT

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

Page:

1 of 1

ATTN:

Mr. Henry Leung

Item for calibration:

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

Test conditions:

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

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

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

Patriele

PATRICK TSE Operation Manager

APPENDIX C ENVIRONMENTAL MONITORING AND AUDIT SCHEDULE

Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for March 2007

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

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- AM2 Lai Chi Kok Sports Centre
- NM2 Lai Chi Kok Correctional Institution
- NM4 Mei Foo Sun Chuen, Phase 5
- NM8a M/F of Nob Hill
- NM8b 3/F of Nob Hill
- NM9 G/F, Hoi Fai House, Hoi Lai Estate

Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for April 2007

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

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- AM2 Lai Chi Kok Sports Centre
- NM2 Lai Chi Kok Correctional Institution
- NM4 Mei Foo Sun Chuen, Phase 5
- NM8a M/F of Nob Hill
- NM8b 3/F of Nob Hill
- NM9 G/F, Hoi Fai House, Hoi Lai Estate

APPENDIX D WIND DATA

Date	Time	Wind Speed m/s	Direction
1-Mar-2007	00:00	0.9	W
1-Mar-2007	01:00	0.4	SSW
1-Mar-2007	02:00	0.9	ENE
1-Mar-2007	03:00	0.0	NE
1-Mar-2007	04:00	0.0	
1-Mar-2007	05:00	0.0	
1-Mar-2007	06:00	0.0	
1-Mar-2007	07:00	0.0	
1-Mar-2007	08:00	0.0	
1-Mar-2007	09:00	0.0	
1-Mar-2007	10:00	0.0	
1-Mar-2007	11:00	0.0	
1-Mar-2007	12:00	0.0	
1-Mar-2007	13:00	0.0	
1-Mar-2007	14:00	0.0	
1-Mar-2007	15:00	0.0	
1-Mar-2007	16:00	0.0	
1-Mar-2007	17:00	0.0	
1-Mar-2007	18:00	0.0	
1-Mar-2007	19:00	0.0	
1-Mar-2007	20:00	0.0	
1-Mar-2007	20.00	0.0	ENE
1-Mar-2007	21:00	0.0	
1-Mar-2007	23:00	0.0	
2-Mar-2007	00:00	0.0	
2-Mar-2007	01:00	0.0	ENE
2-Mar-2007	02:00	0.0	
2-Mar-2007	03:00	0.0	
2-Mar-2007	04:00	0.0	
2-Mar-2007	05:00	0.0	
2-Mar-2007	06:00	0.0	S
2-Mar-2007	07:00	0.4	WSW
2-Mar-2007	08:00	0.9	WSW
2-Mar-2007	09:00	1.3	WNW
2-Mar-2007	10:00	2.7	WNW
2-Mar-2007	11:00	2.2	W
2-Mar-2007	12:00	1.8	W
2-Mar-2007	13:00	2.2	WNW
2-Mar-2007	14:00	1.8	WNW
2-Mar-2007	15:00	2.2	WNW
2-Mar-2007	16:00	1.8	WNW
2-Mar-2007	17:00	1.3	WNW
2-Mar-2007	18:00	2.2	WNW
2-Mar-2007	19:00	1.3	WNW
2-Mar-2007	20:00	1.8	WNW
2-Mar-2007	21:00	1.8	WNW
2-Mar-2007	22:00	0.9	WNW
2-Mar-2007	23:00	1.3	W
3-Mar-2007	00:00	1.3	W
3-Mar-2007	01:00	1.3	WNW
3-Mar-2007	02:00	0.4	WNW
3-Mar-2007	03:00	0.0	
3-Mar-2007	04:00	0.0	
3-Mar-2007	05:00	0.0	

Date	Time	Wind Speed m/s	Direction
3-Mar-2007	06:00	0.0	
3-Mar-2007	07:00	0.0	
3-Mar-2007	08:00	0.0	
3-Mar-2007	09:00	0.0	
3-Mar-2007	10:00	0.0	
3-Mar-2007	11:00	0.0	
3-Mar-2007	12:00	0.0	
3-Mar-2007	13:00	0.0	
3-Mar-2007	14:00	0.0	
3-Mar-2007	15:00	0.0	
3-Mar-2007	16:00	0.0	
3-Mar-2007	17:00	0.0	E
3-Mar-2007	18:00	0.0	
3-Mar-2007	19:00	0.0	
3-Mar-2007	20:00	0.0	
3-Mar-2007	21:00	0.0	
3-Mar-2007	22:00	0.0	
3-Mar-2007	23:00	0.0	
	00:00	0.0	
4-Mar-2007 4-Mar-2007	01:00		
		0.0	
4-Mar-2007	02:00	0.0	
4-Mar-2007	03:00	0.0	
4-Mar-2007	04:00	0.0	
4-Mar-2007	05:00	0.0	
4-Mar-2007	06:00	0.0	
4-Mar-2007	07:00	0.0	
4-Mar-2007	08:00	0.0	
4-Mar-2007	09:00	0.0	SE
4-Mar-2007	10:00	0.0	WNW
4-Mar-2007	11:00	0.9	WSW
4-Mar-2007	12:00	2.2	SW
4-Mar-2007	13:00	2.7	WNW
4-Mar-2007	14:00	2.7	WNW
4-Mar-2007	15:00	2.7	WNW
4-Mar-2007	16:00	2.2	WNW
4-Mar-2007	17:00	3.1	WNW
4-Mar-2007	18:00	3.6	W
4-Mar-2007	19:00	3.1	WNW
4-Mar-2007	20:00	2.7	WNW
4-Mar-2007	21:00	2.2	WNW
4-Mar-2007	22:00	2.2	WSW
4-Mar-2007	23:00	1.8	WSW
5-Mar-2007	00:00	1.8	WNW
5-Mar-2007	01:00	1.8	WNW
5-Mar-2007	02:00	1.8	W
5-Mar-2007	03:00	0.0	WSW
5-Mar-2007	04:00	0.0	
5-Mar-2007	05:00	0.0	
5-Mar-2007	06:00	0.0	
5-Mar-2007	07:00	0.0	WSW
5-Mar-2007	08:00	0.0	
5-Mar-2007	09:00	0.0	
5-Mar-2007	10:00	0.0	
5-Mar-2007	11:00	0.0	

Date	Time	Wind Speed m/s	Direction
5-Mar-2007	12:00	0.0	
5-Mar-2007	13:00	0.0	
5-Mar-2007	14:00	0.0	
5-Mar-2007	15:00	0.0	
5-Mar-2007	16:00	0.0	
5-Mar-2007	17:00	0.0	
5-Mar-2007	18:00	0.0	
5-Mar-2007	19:00	0.0	
5-Mar-2007	20:00	0.0	
5-Mar-2007	21:00	0.0	
5-Mar-2007	22:00	0.0	WNW
5-Mar-2007	23:00	0.0	
6-Mar-2007	00:00	0.0	
6-Mar-2007	01:00	0.0	
6-Mar-2007	02:00	0.0	
6-Mar-2007	03:00	0.0	
6-Mar-2007	04:00	0.0	
6-Mar-2007	05:00	0.0	
6-Mar-2007	06:00	0.0	
6-Mar-2007	07:00	0.0	S
6-Mar-2007	08:00	0.0	
6-Mar-2007	09:00	0.0	NW
6-Mar-2007	10:00	1.8	W
	11:00	1.3	W
6-Mar-2007		1.8	WSW
6-Mar-2007	12:00		
6-Mar-2007	13:00	2.7	WNW
6-Mar-2007	14:00	2.7	WNW
6-Mar-2007	15:00	2.7	W
6-Mar-2007	16:00	1.8	W
6-Mar-2007	17:00	1.3	WNW
6-Mar-2007	18:00	0.9	NNW
6-Mar-2007	19:00	0.9	NW
6-Mar-2007	20:00	0.9	W
6-Mar-2007	21:00	1.3	WNW
6-Mar-2007	22:00	1.8	WNW
6-Mar-2007	23:00	2.2	WNW
7-Mar-2007	00:00	0.4	WNW
7-Mar-2007	01:00	0.4	W
7-Mar-2007	02:00	0.0	W
7-Mar-2007	03:00	0.0	
7-Mar-2007	04:00	0.0	
7-Mar-2007	05:00	0.0	
7-Mar-2007	06:00	0.0	
7-Mar-2007	07:00	0.0	
7-Mar-2007	08:00	0.0	
7-Mar-2007	09:00	0.0	
7-Mar-2007	10:00	0.0	
7-Mar-2007	11:00	0.0	
7-Mar-2007	12:00	0.0	
7-Mar-2007	13:00	0.0	
7-Mar-2007	14:00	0.0	
7-Mar-2007	15:00	0.0	
7-Mar-2007	16:00	0.0	
7-Mar-2007	17:00	0.0	

Date	Time	Wind Speed m/s	Direction
7-Mar-2007	18:00	0.0	
7-Mar-2007	19:00	0.0	
7-Mar-2007	20:00	0.0	
7-Mar-2007	21:00	0.0	
7-Mar-2007	22:00	0.0	
7-Mar-2007	23:00	0.0	
8-Mar-2007	00:00	0.0	
8-Mar-2007	01:00	0.0	
8-Mar-2007	02:00	0.0	
8-Mar-2007	03:00	0.0	
8-Mar-2007	04:00	0.0	
8-Mar-2007	05:00	0.0	
8-Mar-2007	06:00	0.0	
8-Mar-2007	07:00	0.0	
8-Mar-2007	07:00	0.0	WNW
8-Mar-2007	09:00	0.0	WNW
8-Mar-2007	10:00	0.4	WNW WNW
8-Mar-2007	11:00	1.3	
8-Mar-2007	12:00	1.3	WSW
8-Mar-2007	13:00	1.8	W
8-Mar-2007	14:00	2.7	W
8-Mar-2007	15:00	2.7	WNW
8-Mar-2007	16:00	3.6	WNW
8-Mar-2007	17:00	1.8	WSW
8-Mar-2007	18:00	2.7	WNW
8-Mar-2007	19:00	2.7	WNW
8-Mar-2007	20:00	1.8	N
8-Mar-2007	21:00	1.3	NNE
8-Mar-2007	22:00	1.3	Ν
8-Mar-2007	23:00	3.1	NNE
9-Mar-2007	00:00	1.8	Ν
9-Mar-2007	01:00	1.8	W
9-Mar-2007	02:00	2.2	W
9-Mar-2007	03:00	0.9	WNW
9-Mar-2007	04:00	2.7	WNW
9-Mar-2007	05:00	2.2	WNW
9-Mar-2007	06:00	2.2	WSW
9-Mar-2007	07:00	1.3	SW
9-Mar-2007	08:00	0.4	WSW
9-Mar-2007	09:00	0.4	WNW
9-Mar-2007	10:00	0.9	SW
9-Mar-2007	11:00	0.4	SW
9-Mar-2007	12:00	0.9	S
9-Mar-2007	13:00	0.9	S
9-Mar-2007	14:00	0.0	ssw
9-Mar-2007	15:00	0.0	W
9-Mar-2007	16:00	0.0	
9-Mar-2007	17:00	0.0	
9-Mar-2007	18:00	0.0	
			 NNW
9-Mar-2007	19:00	0.0	
9-Mar-2007	20:00	0.0	SSW
9-Mar-2007	21:00	0.0	
9-Mar-2007	22:00	0.0	
9-Mar-2007	23:00	0.0	

Date	Time	Wind Speed m/s	Direction
10-Mar-2007	00:00	0.0	SSW
10-Mar-2007	01:00	0.0	
10-Mar-2007	02:00	0.0	
10-Mar-2007	03:00	0.0	
10-Mar-2007	04:00	0.0	
10-Mar-2007	05:00	0.0	
10-Mar-2007	06:00	0.0	
10-Mar-2007	07:00	0.0	SSW
10-Mar-2007	08:00	0.0	SW
10-Mar-2007	09:00	0.0	SW
10-Mar-2007	10:00	0.9	WSW
10-Mar-2007	11:00	0.9	WSW
10-Mar-2007	12:00	2.2	W
10-Mar-2007	13:00	4.0	WNW
10-Mar-2007	14:00	3.6	WNW
10-Mar-2007	15:00	4.0	WNW
10-Mar-2007	16:00	3.6	WNW
10-Mar-2007	17:00	4.5	WNW
10-Mar-2007	18:00	4.9	WNW
10-Mar-2007	19:00	3.6	W
10-Mar-2007	20:00	2.7	W
10-Mar-2007	21:00	3.1	WNW
10-Mar-2007	22:00	4.0	WNW
10-Mar-2007	23:00	2.7	WNW
11-Mar-2007	00:00	1.8	WSW
11-Mar-2007	01:00	3.1	W
11-Mar-2007	02:00	2.7	WNW
11-Mar-2007	03:00	2.7	WNW
11-Mar-2007	04:00	0.9	WSW
11-Mar-2007	05:00	2.2	WSW
11-Mar-2007	06:00	3.1	W
11-Mar-2007	07:00	2.2	W
11-Mar-2007	08:00	0.4	SSW
11-Mar-2007	09:00	0.0	WSW
11-Mar-2007	10:00	0.9	SSW
11-Mar-2007	11:00	0.0	SSW
11-Mar-2007	12:00	0.0	
11-Mar-2007	13:00	0.0	
11-Mar-2007	14:00	0.0	
11-Mar-2007	15:00	0.0	
11-Mar-2007	16:00	0.0	
11-Mar-2007	17:00	0.0	
11-Mar-2007	18:00	0.0	
11-Mar-2007	19:00	0.0	
11-Mar-2007	20:00	0.0	SSW
11-Mar-2007	21:00	0.0	
11-Mar-2007	22:00	0.0	
11-Mar-2007	23:00	0.0	
12-Mar-2007	00:00	0.0	
12-Mar-2007	01:00	0.0	
12-Mar-2007	02:00	0.0	
12-Mar-2007	03:00	0.0	
12-Mar-2007	04:00	0.0	
12-Mar-2007	05:00	0.0	

Date	Time	Wind Speed m/s	Direction
12-Mar-2007	06:00	0.0	
12-Mar-2007	07:00	0.0	
12-Mar-2007	08:00	0.0	SSW
12-Mar-2007	09:00	0.0	WSW
12-Mar-2007	10:00	0.0	WSW
12-Mar-2007	11:00	1.8	WSW
12-Mar-2007	12:00	1.3	W
12-Mar-2007	13:00	2.2	WNW
12-Mar-2007	14:00	1.8	W
12-Mar-2007	15:00	1.3	WNW
12-Mar-2007	16:00	1.8	WNW
12-Mar-2007	17:00	1.8	WNW
12-Mar-2007	18:00	0.9	WNW
12-Mar-2007	19:00	1.3	NW
12-Mar-2007	20:00	1.3	WNW
12-Mar-2007	21:00	2.2	NW
12-Mar-2007	22:00	2.2	N
12-Mar-2007	23:00	2.2	W
13-Mar-2007	00:00	1.3	WNW
13-Mar-2007	01:00	0.9	N
13-Mar-2007	02:00	0.9	NNE
13-Mar-2007	03:00	1.3	W
13-Mar-2007	03:00	0.0	W
13-Mar-2007	05:00	0.0	
13-Mar-2007	06:00	0.0	
13-Mar-2007	07:00	0.0	E
13-Mar-2007	08:00	0.0	ESE
13-Mar-2007	09:00	0.0	
13-Mar-2007	10:00	0.0	
13-Mar-2007	11:00	0.0	
13-Mar-2007	12:00	0.0	
13-Mar-2007	13:00	0.0	
13-Mar-2007	14:00	0.0	
13-Mar-2007	15:00	0.0	
13-Mar-2007	16:00	0.0	
13-Mar-2007	17:00	0.0	
13-Mar-2007	18:00	0.0	
13-Mar-2007	19:00	0.0	
13-Mar-2007	20:00	0.0	
13-Mar-2007	21:00	0.0	
13-Mar-2007	22:00	0.0	
13-Mar-2007	23:00	0.4	SSW
14-Mar-2007	00:00	0.0	
14-Mar-2007	01:00	0.0	
14-Mar-2007	02:00	0.0	
14-Mar-2007	03:00	0.0	
14-Mar-2007	04:00	0.0	
14-Mar-2007	05:00	0.0	
14-Mar-2007	06:00	0.0	SSW
14-Mar-2007	07:00	0.0	
14-Mar-2007	08:00	0.0	
14-Mar-2007	09:00	0.0	NW
14-Mar-2007	10:00	0.0	NW
14-Mar-2007	11:00	0.0	NW

Date	Time	Wind Speed m/s	Direction
14-Mar-2007	12:00	0.0	WNW
14-Mar-2007	13:00	0.0	
14-Mar-2007	14:00	0.0	Ν
14-Mar-2007	15:00	0.9	NNE
14-Mar-2007	16:00	1.3	ENE
14-Mar-2007	17:00	1.8	ENE
14-Mar-2007	18:00	2.7	NE
14-Mar-2007	19:00	2.7	NE
14-Mar-2007	20:00	2.2	NE
14-Mar-2007	21:00	2.7	NNE
14-Mar-2007	22:00	3.6	NNE
14-Mar-2007	23:00	3.1	NNE
15-Mar-2007	00:00	2.7	NE
15-Mar-2007	01:00	2.7	NE
15-Mar-2007	02:00	1.8	ENE
15-Mar-2007	03:00	1.3	ENE
15-Mar-2007	04:00	0.9	NE
15-Mar-2007	05:00	0.4	ENE
15-Mar-2007	06:00	0.4	NE
15-Mar-2007	07:00	0.0	NE
15-Mar-2007	08:00	0.0	
15-Mar-2007	09:00	0.0	ENE
15-Mar-2007	10:00	0.4	E
15-Mar-2007	11:00	0.4	E
15-Mar-2007	12:00	0.4	ENE
15-Mar-2007	13:00	0.0	
15-Mar-2007	14:00	0.0	E
15-Mar-2007	15:00	0.4	E
15-Mar-2007	16:00	0.4	E
15-Mar-2007	17:00	0.0	ENE
15-Mar-2007	18:00	1.3	E
15-Mar-2007	19:00	0.4	E
15-Mar-2007	20:00	0.4	E
15-Mar-2007	21:00	0.0	E
15-Mar-2007	22:00	0.0	
15-Mar-2007	23:00	0.0	
16-Mar-2007	00:00	0.4	ESE
16-Mar-2007	01:00	0.0	ESE
16-Mar-2007	02:00	0.0	
16-Mar-2007	03:00	0.0	
16-Mar-2007	03:00	0.0	
16-Mar-2007	05:00	0.0	
16-Mar-2007	06:00	0.0	SW
16-Mar-2007	07:00	0.9	
16-Mar-2007	07:00	0.9	WNW
16-Mar-2007	09:00	0.0	W
16-Mar-2007	10:00	0.4	NW
16-Mar-2007	11:00	0.4	WNW
16-Mar-2007	12:00	0.9	W
16-Mar-2007	12:00	1.3	WNW
16-Mar-2007	14:00	0.9	WNW
16-Mar-2007	15:00	0.9	WNW
16-Mar-2007	16:00	0.0	
16-Mar-2007	17:00	0.0	

Date	Time	Wind Speed m/s	Direction
16-Mar-2007	18:00	0.4	W
16-Mar-2007	19:00	2.7	W
16-Mar-2007	20:00	2.7	WNW
16-Mar-2007	21:00	1.8	WNW
16-Mar-2007	22:00	1.3	W
16-Mar-2007	23:00	0.4	WNW
17-Mar-2007	00:00	1.3	W
17-Mar-2007	01:00	0.4	WNW
17-Mar-2007	02:00	0.4	SW
17-Mar-2007	03:00	0.0	SSE
17-Mar-2007	04:00	0.0	
17-Mar-2007	05:00	1.3	WNW
17-Mar-2007	06:00	0.9	WNW
17-Mar-2007	07:00	0.9	SSW
17-Mar-2007	08:00	0.4	SSW
17-Mar-2007	09:00	0.0	WSW
17-Mar-2007	10:00	0.0	WSW
17-Mar-2007	11:00	0.0	WSW
17-Mar-2007	12:00	0.4	SW
17-Mar-2007	13:00	0.4	SW
17-Mar-2007	14:00	0.4	SW
17-Mar-2007	15:00	0.0	SW
17-Mar-2007	16:00	1.3	WSW
17-Mar-2007	17:00	1.3	WSW
17-Mar-2007	18:00	2.2	SW
17-Mar-2007	19:00	2.2	WSW
17-Mar-2007	20:00	1.8	WSW
17-Mar-2007	21:00	0.9	WSW
17-Mar-2007	22:00	1.8	WSW
17-Mar-2007	23:00	0.9	SW
18-Mar-2007	00:00	0.4	SSW
18-Mar-2007	01:00	0.4	W
18-Mar-2007	02:00	1.3	WNW
18-Mar-2007	03:00	0.9	SW
18-Mar-2007	03:00	1.3	SW
18-Mar-2007	05:00	2.7	WNW
18-Mar-2007	06:00	3.1	W
18-Mar-2007	07:00	2.2	WNW
18-Mar-2007	07:00	2.2	WSW
18-Mar-2007	08.00	2.7	WSW
18-Mar-2007	10:00	3.1	SW
	11:00	2.2	WSW
18-Mar-2007			
18-Mar-2007	12:00	3.6	WSW
18-Mar-2007	13:00	3.6	WSW
18-Mar-2007	14:00	3.1	
18-Mar-2007	15:00	3.1	WSW W
18-Mar-2007	16:00	2.7	
18-Mar-2007	17:00	2.7	WNW
18-Mar-2007	18:00	3.1	WNW
18-Mar-2007	19:00	2.7	W
18-Mar-2007	20:00	1.8	WSW
18-Mar-2007	21:00	1.8	WNW
18-Mar-2007	22:00	2.7	WSW
18-Mar-2007	23:00	1.8	WSW

Date	Time	Wind Speed m/s	Direction
19-Mar-2007	00:00	0.9	W
19-Mar-2007	01:00	0.4	NW
19-Mar-2007	02:00	0.4	WSW
19-Mar-2007	03:00	0.9	WNW
19-Mar-2007	04:00	0.0	WSW
19-Mar-2007	05:00	0.0	
19-Mar-2007	06:00	0.0	NNE
19-Mar-2007	07:00	0.9	W
19-Mar-2007	08:00	1.3	W
19-Mar-2007	09:00	1.3	WNW
19-Mar-2007	10:00	1.3	WNW
19-Mar-2007	11:00	0.4	WSW
19-Mar-2007	12:00	0.9	WNW
19-Mar-2007	13:00	0.9	W
19-Mar-2007	14:00	1.3	W
19-Mar-2007	15:00	0.4	W
19-Mar-2007	16:00	0.4	WNW
19-Mar-2007	17:00	0.9	WNW
19-Mar-2007	18:00	1.8	WNW
19-Mar-2007	19:00	1.3	W
19-Mar-2007	20:00	2.7	WNW
19-Mar-2007	21:00	1.8	WNW
19-Mar-2007	22:00	2.7	WNW
19-Mar-2007	23:00	0.9	W
20-Mar-2007	00:00	0.9	SW
20-Mar-2007	01:00	1.3	WNW
20-Mar-2007	02:00	1.8	W
20-Mar-2007	03:00	1.3	W
20-Mar-2007	04:00	0.9	WSW
20-Mar-2007	05:00	1.8	WSW
20-Mar-2007	06:00	1.3	W
20-Mar-2007	07:00	1.8	WSW
20-Mar-2007	08:00	1.8	W
20-Mar-2007	09:00	1.8	W
20-Mar-2007	10:00	1.8	WNW
20-Mar-2007	11:00	1.8	WNW
20-Mar-2007	12:00	2.2	WNW
20-Mar-2007	13:00	1.8	WNW
20-Mar-2007	14:00	2.7	W
20-Mar-2007	15:00	2.2	WSW
20-Mar-2007	16:00	1.3	WNW
20-Mar-2007	17:00	1.3	WNW
20-Mar-2007	18:00	0.9	NW
20-Mar-2007	19:00	1.3	N
20-Mar-2007	20:00	1.8	NE
20-Mar-2007	21:00	1.8	NNE
20-Mar-2007	22:00	1.8	NNE
20-Mar-2007	23:00	1.8	NNE
21-Mar-2007	00:00	1.8	NNE
21-Mar-2007	01:00	1.8	NNE
21-Mar-2007	02:00	0.0	NNE
21-Mar-2007	03:00	0.0	NNE
21-Mar-2007	04:00	0.0	NNE
21-Mar-2007	05:00	0.0	S

Date	Time	Wind Speed m/s	Direction
21-Mar-2007	06:00	0.0	S
21-Mar-2007	07:00	0.4	SSW
21-Mar-2007	08:00	0.4	W
21-Mar-2007	09:00	0.9	WSW
21-Mar-2007	10:00	0.0	SSW
21-Mar-2007	11:00	0.9	W
21-Mar-2007	12:00	0.0	WNW
21-Mar-2007	13:00	0.0	SSW
21-Mar-2007	14:00	0.4	S
21-Mar-2007	15:00	0.0	S
21-Mar-2007	16:00	0.0	S
21-Mar-2007	17:00	0.0	
21-Mar-2007	18:00	0.0	
21-Mar-2007	19:00	0.0	NW
21-Mar-2007	20:00	0.0	SSW
21-Mar-2007	21:00	0.0	S
21-Mar-2007	22:00	0.0	WSW
21-Mar-2007	23:00	0.0	WNW
22-Mar-2007	00:00	0.0	N
22-Mar-2007	01:00	0.0	SSW
22-Mar-2007	02:00	0.0	<u> </u>
22-Mar-2007	03:00	0.4	SSW
22-Mar-2007	04:00	1.3	S
22-Mar-2007	05:00	0.0	S
22-Mar-2007	06:00	0.0	
22-Mar-2007	07:00	0.0	
22-Mar-2007	08:00	0.0	WSW
22-Mar-2007	09:00	0.4	WSW
22-Mar-2007	10:00	0.0	SSW
22-Mar-2007	11:00	0.0	SW
22-Mar-2007	12:00	0.4	WNW
22-Mar-2007	13:00	0.4	WNW
22-Mar-2007	14:00	0.0	WSW
22-Mar-2007	15:00	0.9	WNW
22-Mar-2007	16:00	0.4	WNW
22-Mar-2007	17:00	1.3	NW
22-Mar-2007	18:00	1.3	WNW
22-Mar-2007	19:00	0.9	NNE
22-Mar-2007	20:00	1.8	N
22-Mar-2007	21:00	1.8	NNE
22-Mar-2007 22-Mar-2007	21:00	1.3	NNE
22-Mar-2007 22-Mar-2007	23:00	0.4	NNE
23-Mar-2007	00:00	0.4	N N
23-Mar-2007 23-Mar-2007	01:00	0.9	NW
23-Mar-2007 23-Mar-2007	01:00	0.9	NW
	02:00	0.9	
23-Mar-2007 23-Mar-2007	03.00	0.4	 SSW
23-Mar-2007 23-Mar-2007	04:00	0.4	SSW
23-Mar-2007 23-Mar-2007	05:00	0.4	
23-Mar-2007 23-Mar-2007	07:00	0.0	SSW
23-Mar-2007	08:00	0.0	SSW
23-Mar-2007	09:00	0.0	SSW
23-Mar-2007	10:00	0.0	SSW
23-Mar-2007	11:00	0.0	

Date	Time	Wind Speed m/s	Direction
23-Mar-2007	12:00	0.0	
23-Mar-2007	13:00	0.0	
23-Mar-2007	14:00	0.0	
23-Mar-2007	15:00	0.0	
23-Mar-2007	16:00	0.0	
23-Mar-2007	17:00	0.0	
23-Mar-2007	18:00	0.0	
23-Mar-2007	19:00	0.0	
23-Mar-2007	20:00	0.0	SSW
23-Mar-2007	21:00	0.0	
23-Mar-2007	22:00	0.0	
23-Mar-2007	23:00	0.0	
24-Mar-2007	00:00	0.0	
24-Mar-2007	01:00	0.0	
24-Mar-2007 24-Mar-2007	02:00	0.0	SSW
24-Mar-2007	03:00	0.0	
24-Mar-2007 24-Mar-2007	03:00	0.4	WSW
24-Mar-2007 24-Mar-2007	04.00	0.4	44244
24-Mar-2007 24-Mar-2007	06:00	0.0	
24-Mar-2007 24-Mar-2007	07:00	0.0	
24-Mar-2007 24-Mar-2007	07:00	0.0	
			 W
24-Mar-2007	09:00	0.0	WNW
24-Mar-2007	10:00	0.0	
24-Mar-2007	11:00	0.0	WNW
24-Mar-2007	12:00	1.3	NE
24-Mar-2007	13:00	1.8	NE
24-Mar-2007	14:00	2.2	NNE
24-Mar-2007	15:00	0.4	ESE
24-Mar-2007	16:00	1.8	NNE
24-Mar-2007	17:00	2.2	NE
24-Mar-2007	18:00	1.3	NNE
24-Mar-2007	19:00	0.9	NE
24-Mar-2007	20:00	1.3	NE
24-Mar-2007	21:00	1.3	NNE
24-Mar-2007	22:00	0.4	NNE
24-Mar-2007	23:00	0.4	ENE
25-Mar-2007	00:00	0.0	ESE
25-Mar-2007	01:00	0.0	NNE
25-Mar-2007	02:00	0.0	ENE
25-Mar-2007	03:00	0.4	NE
25-Mar-2007	04:00	0.0	NNE
25-Mar-2007	05:00	0.0	E
25-Mar-2007	06:00	0.0	
25-Mar-2007	07:00	0.0	
25-Mar-2007	08:00	0.0	ESE
25-Mar-2007	09:00	0.0	
25-Mar-2007	10:00	0.0	
25-Mar-2007	11:00	0.0	
25-Mar-2007	12:00	0.0	
25-Mar-2007	13:00	0.0	WSW
25-Mar-2007	14:00	0.0	WSW
25-Mar-2007	15:00	0.0	
25-Mar-2007	16:00	0.0	SSW
25-Mar-2007	17:00	0.0	SSW

Date	Time	Wind Speed m/s	Direction
25-Mar-2007	18:00	0.0	SSW
25-Mar-2007	19:00	1.8	W
25-Mar-2007	20:00	5.4	W
25-Mar-2007	21:00	3.6	WSW
25-Mar-2007	22:00	3.6	W
25-Mar-2007	23:00	3.1	SW
26-Mar-2007	00:00	3.6	SW
26-Mar-2007	01:00	3.1	WSW
26-Mar-2007	02:00	3.6	SW
26-Mar-2007	03:00	3.1	SW
26-Mar-2007	03:00	3.6	SW
26-Mar-2007	05:00	4.0	WSW
26-Mar-2007	06:00	3.6	WSW
		3.6	WSW
26-Mar-2007	07:00	4.0	WSW
26-Mar-2007	08:00		
26-Mar-2007	09:00	4.0	W
26-Mar-2007	10:00	4.5	W
26-Mar-2007	11:00	4.5	W
26-Mar-2007	12:00	4.0	WNW
26-Mar-2007	13:00	2.7	W
26-Mar-2007	14:00	2.2	W
26-Mar-2007	15:00	1.8	SW
26-Mar-2007	16:00	2.2	W
26-Mar-2007	17:00	3.1	WSW
26-Mar-2007	18:00	3.1	W
26-Mar-2007	19:00	2.2	WSW
26-Mar-2007	20:00	2.2	W
26-Mar-2007	21:00	1.8	WNW
26-Mar-2007	22:00	2.2	WSW
26-Mar-2007	23:00	3.1	W
27-Mar-2007	00:00	2.7	W
27-Mar-2007	01:00	2.7	WNW
27-Mar-2007	02:00	2.2	WNW
27-Mar-2007	03:00	2.2	W
27-Mar-2007	04:00	1.3	W
27-Mar-2007	05:00	1.8	W
27-Mar-2007	06:00	1.8	WNW
27-Mar-2007	07:00	2.2	W
27-Mar-2007	08:00	2.7	W
27-Mar-2007	09:00	2.2	W
27-Mar-2007	10:00	0.9	W
27-Mar-2007	11:00	1.3	WSW
27-Mar-2007	12:00	1.3	SW
27-Mar-2007	13:00	1.8	SSW
27-Mar-2007	14:00	2.7	SW
27-Mar-2007	15:00	2.7	SW
27-Mar-2007	16:00	1.8	WSW
27-Mar-2007	17:00	1.3	W
27-Mar-2007 27-Mar-2007	18:00	2.2	W
27-Mar-2007	19:00	3.1	WSW
27-Mar-2007	20:00	2.2	SSW
27-Mar-2007	21:00	2.7	SW
27-Mar-2007	22:00	2.2	SW
27-Mar-2007	23:00	2.7	SW

Date	Time	Wind Speed m/s	Direction
28-Mar-2007	00:00	2.7	SW
28-Mar-2007	01:00	1.3	SSW
28-Mar-2007	02:00	0.4	SW
28-Mar-2007	03:00	1.3	SSW
28-Mar-2007	04:00	1.8	SW
28-Mar-2007	05:00	1.8	SW
28-Mar-2007	06:00	0.9	SW
28-Mar-2007	07:00	0.9	SSW
28-Mar-2007	08:00	0.9	SW
28-Mar-2007	09:00	0.9	SSW
28-Mar-2007	10:00	0.4	SSW
28-Mar-2007	11:00	0.4	SSW
28-Mar-2007	12:00	0.4	S
28-Mar-2007	13:00	0.4	SW
28-Mar-2007	14:00	1.3	WNW
28-Mar-2007	15:00	2.2	WNW
28-Mar-2007	16:00	1.8	W
28-Mar-2007	17:00	0.4	WNW
28-Mar-2007	18:00	0.0	
28-Mar-2007	19:00	0.4	WNW
28-Mar-2007	20:00	0.0	WNW
28-Mar-2007	21:00	0.9	WNW
28-Mar-2007	22:00	1.8	WNW
28-Mar-2007	23:00	0.9	W
29-Mar-2007	00:00	1.3	NNE
29-Mar-2007	01:00	0.0	
29-Mar-2007	02:00	0.4	SSW
29-Mar-2007	03:00	0.4	SSW
29-Mar-2007	04:00	0.0	
29-Mar-2007	05:00	0.0	
29-Mar-2007	06:00	0.0	
29-Mar-2007	07:00	0.0	SW
29-Mar-2007	08:00	0.0	
29-Mar-2007	09:00	0.0	
29-Mar-2007	10:00	0.0	
29-Mar-2007	11:00	0.0	
29-Mar-2007	12:00	0.0	
29-Mar-2007	13:00	0.0	SSE
29-Mar-2007	14:00	0.4	ESE
29-Mar-2007	15:00	0.4	NNE
29-Mar-2007	16:00	0.0	
29-Mar-2007	17:00	0.4	NE
29-Mar-2007	18:00	1.3	NNE
29-Mar-2007	19:00	0.9	N
29-Mar-2007	20:00	0.4	N
29-Mar-2007	21:00	0.0	E
29-Mar-2007	22:00	0.0	
29-Mar-2007	23:00	0.0	
30-Mar-2007	00:00	0.0	
30-Mar-2007	01:00	0.0	
30-Mar-2007	02:00	0.0	
	02:00	0.0	
30-Mar-2007			
30-Mar-2007	04:00	0.0	
30-Mar-2007	05:00	0.0	

Date	Time	Wind Speed m/s	Direction
30-Mar-2007	06:00	0.0	
30-Mar-2007	07:00	0.0	
30-Mar-2007	08:00	0.0	
30-Mar-2007	09:00	0.0	
30-Mar-2007	10:00	0.4	Ν
30-Mar-2007	11:00	1.3	NNE
30-Mar-2007	12:00	2.2	Ν
30-Mar-2007	13:00	0.9	NE
30-Mar-2007	14:00	1.3	Ν
30-Mar-2007	15:00	1.8	Ν
30-Mar-2007	16:00	1.3	NE
30-Mar-2007	17:00	0.9	Ν
30-Mar-2007	18:00	1.3	NNE
30-Mar-2007	19:00	1.3	Ν
30-Mar-2007	20:00	0.9	Ν
30-Mar-2007	21:00	0.9	NE
30-Mar-2007	22:00	1.8	NNE
30-Mar-2007	23:00	1.8	NE
31-Mar-2007	00:00	1.8	NE
31-Mar-2007	01:00	0.9	NE
31-Mar-2007	02:00	0.9	NE
31-Mar-2007	03:00	0.4	ENE
31-Mar-2007	04:00	0.0	NE
31-Mar-2007	05:00	0.0	E
31-Mar-2007	06:00	0.0	E
31-Mar-2007	07:00	0.0	
31-Mar-2007	08:00	0.0	
31-Mar-2007	09:00	0.0	E
31-Mar-2007	10:00	0.4	E
31-Mar-2007	11:00	0.0	Е
31-Mar-2007	12:00	1.3	E
31-Mar-2007	13:00	1.3	Е
31-Mar-2007	14:00	0.9	ENE
31-Mar-2007	15:00	0.4	ENE
31-Mar-2007	16:00	0.9	E
31-Mar-2007	17:00	1.3	E
31-Mar-2007	18:00	0.9	E
31-Mar-2007	19:00	0.9	ENE
31-Mar-2007	20:00	0.4	ENE
31-Mar-2007	21:00	0.4	E
31-Mar-2007	22:00	0.0	ENE
31-Mar-2007	23:00	0.4	E

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

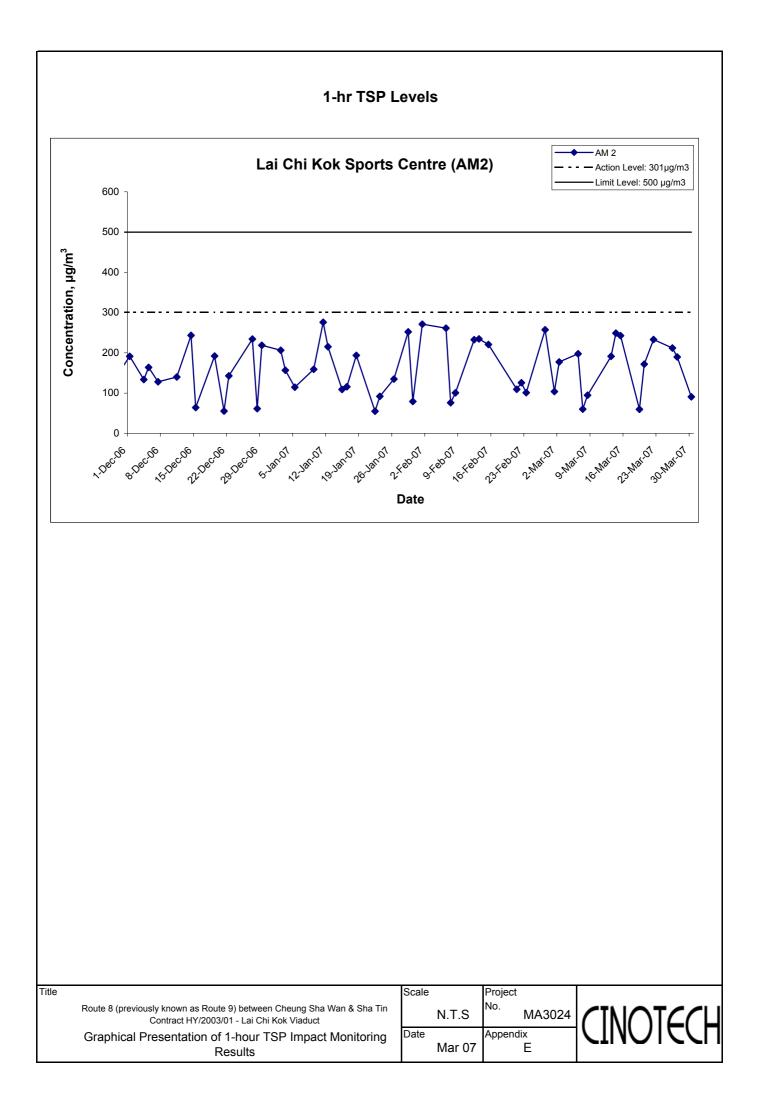
Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter W	eight (g)	Flow Rate	e (m ³ /min.)	Elaps	se Time	Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
1-Mar-07	Cloudy	2.8848	2.8923	1.21	1.21	5583.1	5584.1	293.5	763.1	0.0075	1.21	72.3	1.0	103.8
2-Mar-07	Sunshine	2.8575	2.8703	1.20	1.20	5584.1	5585.1	294.6	763.4	0.0128	1.20	72.2	1.0	177.2
6-Mar-07	Cloudy	2.9384	2.9528	1.22	1.22	5585.1	5586.1	289.1	766.3	0.0144	1.22	72.9	1.0	197.5
7-Mar-07	Cloudy	2.8911	2.8955	1.22	1.22	5610.1	5611.1	286.1	766.3	0.0044	1.22	73.3	1.0	60.1
8-Mar-07	Cloudy	2.8706	2.8775	1.22	1.22	5611.1	5612.1	287.3	765.1	0.0069	1.22	73.1	1.0	94.4
13-Mar-07	Sunshine	2.9067	2.9206	1.21	1.21	5636.1	5637.1	291.5	766.2	0.0139	1.21	72.7	1.0	191.3
14-Mar-07	Sunshine	2.7502	2.7682	1.21	1.21	5637.1	5638.1	293.7	764.2	0.0180	1.21	72.4	1.0	248.8
15-Mar-07	Sunshine	2.7788	2.7963	1.20	1.20	5638.1	5639.1	294.6	762.1	0.0175	1.20	72.2	1.0	242.5
19-Mar-07	Cloudy	2.7802	2.7846	1.23	1.23	5663.1	5664.1	293.1	764.5	0.0044	1.23	73.6	1.0	59.8
20-Mar-07	Sunshine	2.7863	2.7991	1.24	1.24	5664.1	5665.1	287.6	770.3	0.0128	1.24	74.5	1.0	171.9
22-Mar-07	Sunshine	2.9033	2.9205	1.23	1.23	5665.1	5666.1	292.0	768.3	0.0172	1.23	73.9	1.0	232.9
26-Mar-07	Cloudy	2.7738	2.7894	1.23	1.23	5690.1	5691.1	294.5	768.1	0.0156	1.23	73.6	1.0	212.1
27-Mar-07	Cloudy	2.8219	2.8357	1.21	1.21	5691.1	5692.1	298.6	762.0	0.0138	1.21	72.8	1.0	189.5
30-Mar-07	Sunshine	2.8859	2.8925	1.21	1.21	5716.1	5717.1	298.9	762.7	0.0066	1.21	72.8	1.0	90.6
	-	-		-				-				-	Min	59.8

 Min
 59.8

 Max
 248.8

 Average
 162.3



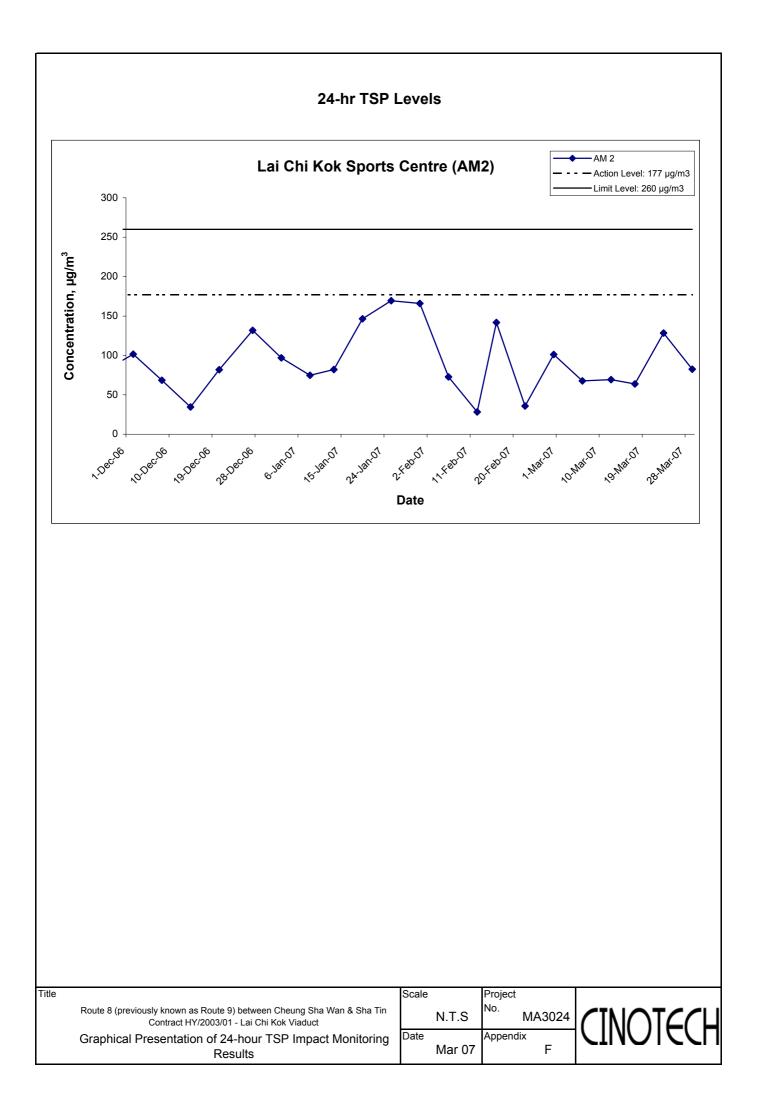
APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter W	er Weight (g) Flow Rate (m ³ /min		(m ³ /min.)	.) Elapse Time		Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m ³)	Time(hrs.)	(µg/m ³)
6-Mar-07	Cloudy	2.9035	3.0220	1.22	1.22	5586.1	5610.1	288.5	765.7	0.1185	1.22	1751.0	24.0	67.7
12-Mar-07	Cloudy	2.8620	2.9829	1.21	1.21	5612.1	5636.1	290.4	766.8	0.1209	1.21	1747.2	24.0	69.2
17-Mar-07	Cloudy	2.7799	2.8925	1.23	1.23	5639.1	5663.1	292.2	764.6	0.1126	1.23	1767.9	24.0	63.7
23-Mar-07	Sunshine	2.9026	3.1280	1.22	1.22	5666.1	5690.1	295.2	761.5	0.2254	1.22	1756.4	24.0	128.3
29-Mar-07	Sunshine	2.8924	3.0368	1.22	1.22	5692.1	5716.1	297.2	762.4	0.1444	1.22	1752.0	24.0	82.4
													Min	63.7
													Max	128.3

Average 82.3



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location N	M2 - Lai	i Chi Kok F	Receptio	on Centi	re				
						Unit: dB (A) (30			
Date	Time	Weather	Measu	red Nois	e Level	Baseline Level	Construction Noise Level	Remarks	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
6-Mar-07	09:40	Cloudy	65.3	67.2	61.2		65.3, Measured \leq Baseline		
13-Mar-07	13:07	Fine	65.4	69.2	54.2	68.4	65.4, Measured \leq Baseline	Resumed since September 2006	
19-Mar-07	14:20	Cloudy	65.3	68.7	62.7	00.4	65.3, Measured \leq Baseline	Resulted since September 2000	
26-Mar-07	13:55	Cloudy	66.2	68.7	63.7		66.2, Measured \leq Baseline		

Location N	M4 - Me	i Foo Sun	Chuen,	Phase	5					
						Unit: dB (A) (30				
Date	Time	Weather	Measu	Measured Noise Level		Baseline Level	Construction Noise Level	Remarks		
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
6-Mar-07	10:40	Cloudy	74.8	78.0	70.0		67.9	- Road traffic noise from Ching		
13-Mar-07	10:08	Fine	74.8	77.0	72.5	73.8	67.9	Cheung Road was identified as the		
19-Mar-07	11:23	Cloudy	73.9	75.5	70.0	73.0	57.5	major noise source.		
26-Mar-07	09:50	Cloudy	73.6	75.5	72.0		73.6, Measured \leq Baseline	major noise source.		

Location N	M8a - M	/F of Nob I	Hill			
Date	Time	Weather	Unit: c	IB (A) (3	0-min)	Remarks
			L _{eq}	L ₁₀	L ₉₀	
6-Mar-07	13:00	Cloudy	74.2	77.0	71.0	
13-Mar-07	10:46	Fine	69.7	71.5	66.5	Road traffic noise from Ching Cheung Road
19-Mar-07	10:05	Cloudy	72.3	75.0	69.5	was identified as the major noise source.
26-Mar-07	10:32	Cloudy	70.6	72.5	66.5	

Location N	M8b - 3/	F of Nob H	lill			
Date	Time	Weather	Unit: dB (A) (30-min)		0-min)	Remarks
			L _{eq}	L ₁₀	L ₉₀	
6-Mar-07	13:45	Cloudy	75.4	77.5	71.5	This Station (NM8b) which is strongly
13-Mar-07	11:19	Fine	76.6	78.5	7.2.0	influenced by road traffic noise from Ching Cheung Road. The measurement at this station
19-Mar-07	10:40	Cloudy	76.1	79.5		is for reference purpose, but not for compliance
26-Mar-07	11:05	Cloudy	77.4	79.5		check for construction noise.

Location N	Location NM9 - Hoi Lai Estate											
Date	Time	Weather	Unit: c	IB (A) (3	0-min)	Remarks						
			L _{eq}	L ₁₀	L ₉₀							
6-Mar-07	15:00	Cloudy	72.3	74.5	69.0							
13-Mar-07	13:55	Fine	72.0	74.5	69.5							
19-Mar-07	13:25	Cloudy	69.7	73.5	65.5	-						
26-Mar-07	13:10	Cloudy	71.3	74.5	61.0							

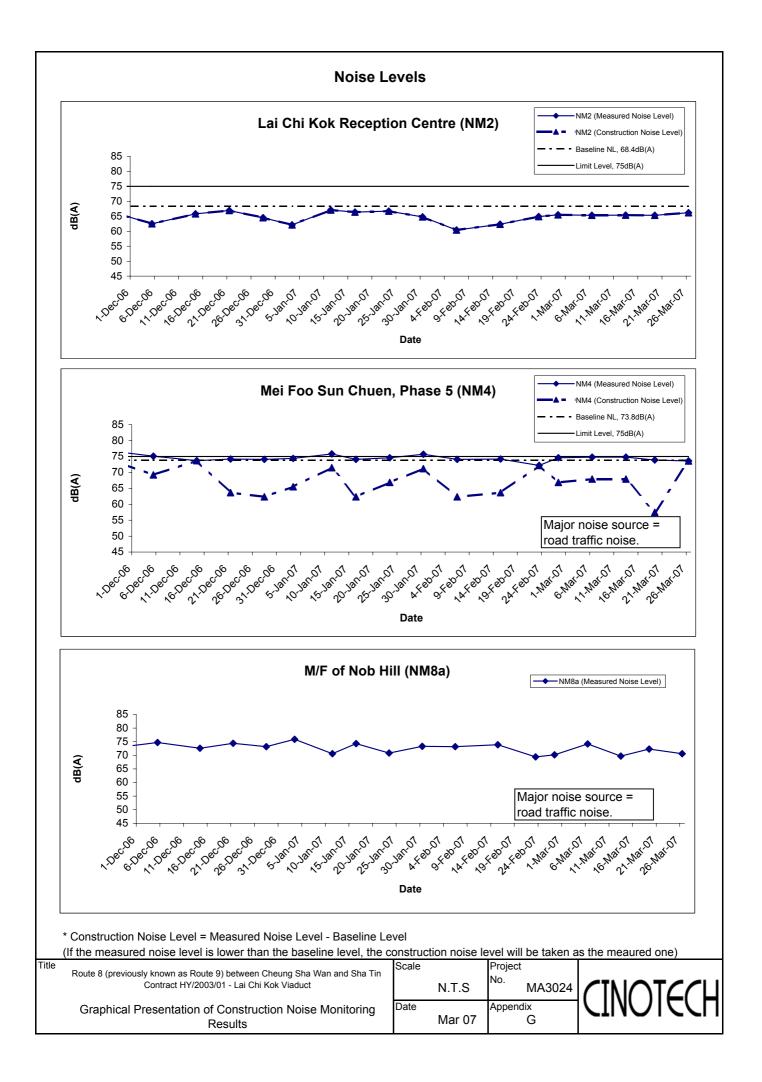
Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)

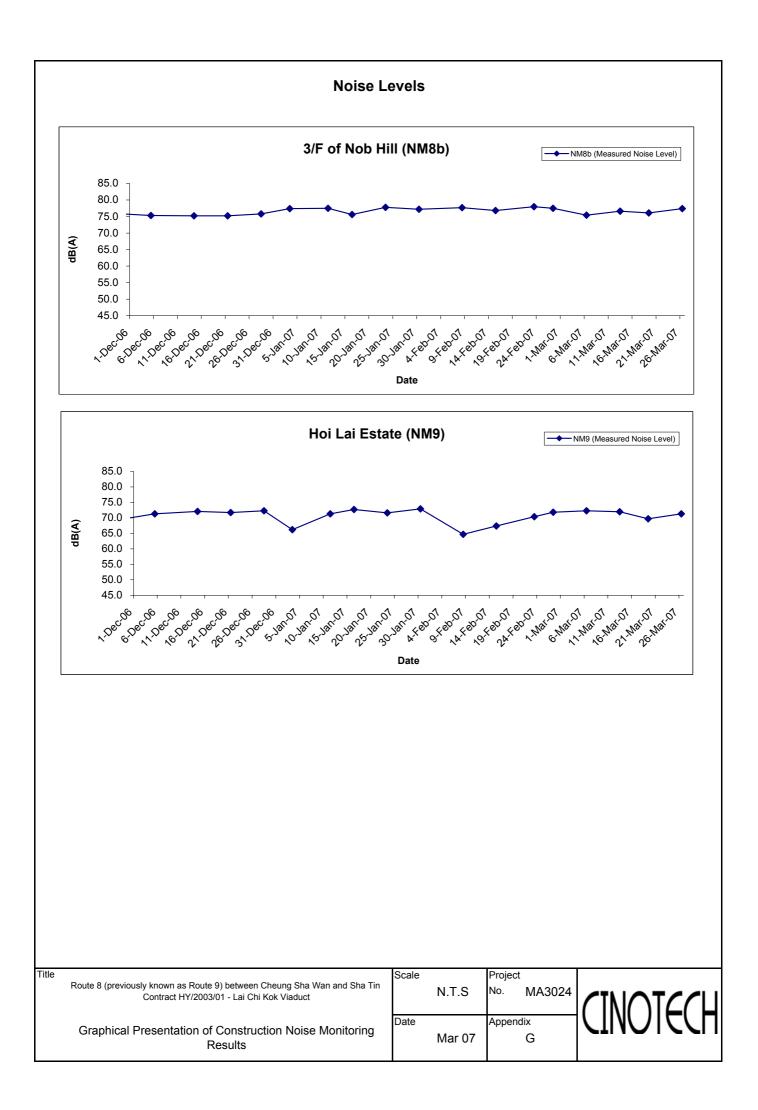
Appendix G - Noise Monitoring Results

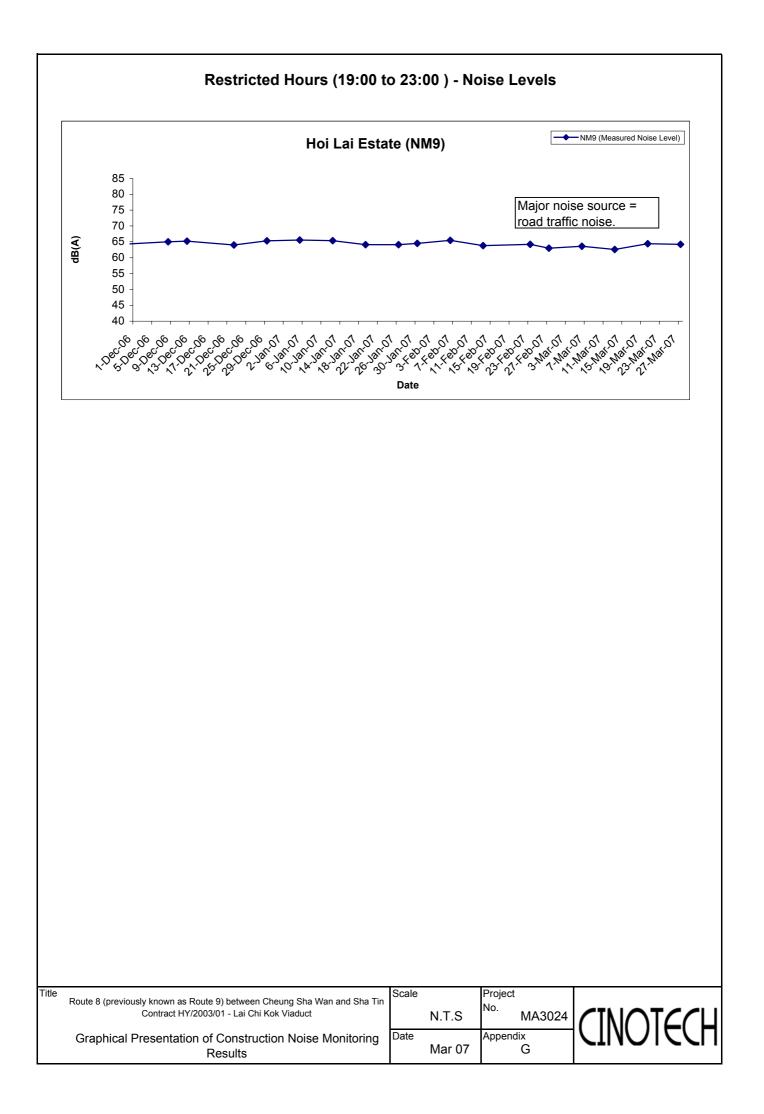
Restricted Hours - 19:00 to 23:00 on normal weekdays

Location NM9 - Hoi Lai Estate						
Date	Time	Weather	dB (A) (5-min)			
			L _{eq}	L ₁₀	L ₉₀	Average L_{eq}
6-Mar-07	19:25	Cloudy	63.5	68.0	59.0	
	19:30		63.6	68.0	59.0	63.6
	19:35		63.6	68.0	59.0	
13-Mar-07	19:00	Cloudy	62.7	68.0	58.0	
	19:05		62.8	68.0	58.0	62.6
	19:10		62.4	67.5	58.0	
20-Mar-07	19:00	Cloudy	64.0	68.0	61.0	
	19:05		64.5	69.0	61.0	64.4
	19:10		64.8	69.5	61.5	
27-Mar-07	19:05	Cloudy	63.9	68.0	60.0	
	19:10		64.7	69.0	60.5	64.2
	19:15		64.4	69.0	60.5	

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







APPENDIX H SUMMARY OF EXCEEDANCE

Summary of Exceedances Recorded in the Reporting Month

- a) Exceedance Report for 1-hr TSP (NIL)
- b) Exceedance Report for 24-hr TSP (NIL)
- c) Exceedance Report for Construction Noise (NIL)
 - No Action/Limit Level exceedance was recorded in the reporting month.

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	70301-LCKV	
Date	1 March 2007 (Thursday)	
Time	09:30 11:30	

Ref. No.	Non-Compliance	Related Item No.
2	None identified	<u></u>

Ref. No.	Remarks/Observations	Related Item No.
70301L-03R	A. Water QualityThe contractor was reminded to rectify the problem of wastewater treatment for the water of wheel washing at R2	B9
70301L-02R	 B. Air Quality The contractor was reminded to provide cover or spray with water for the stockpiles of dusty of material when no working was progressed at King Lam Street. 	C8
	<i>C. Noise</i>No environmental deficiency was identified during the site inspection.	
70301L-01R	 D. Waste / Chemical Management A drum of diesel oil placed in a un-suitable area was observed at Lai Po Road site area. It should be stored in a drip tray to avoid spillage. 	E10
	<i>E. Permit / Licenses</i>No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.: 70214-LCKV), no environmental	
	deficiency was observed during site inspection.	
	• Spot checking for dump truck (loaded) was carried out during site inspection.	
	No dump truck leaving the construction site was observed.	

	Name	Signature	Date
Recorded by	Tommy Ho	1000	2 March 2007
Checked by	Edmond Wu	7, 1, 1	2 March 2007

Checklist Reference Number	70301-LCKV-TCSS
Date	1 March 2007 (March)
Time	09:30 – 11:30

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

Ref. No.	Remarks/Observations	Related Item No
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit session (Ref. No.: 70131-LCKV-TCSS), no	,
	environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Tommy Ho	In	2 March 2007
Checked by	Edmond Wu	Ell	2 March 2007

Checklist Reference Number 70307-LCKV		
Date	7 March 2007 (Wednesday)	
Time	09:30 - 10:45	

Ref. No.	Non-Compliance	Related Item N	0.
-	None identified		

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
-	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.: 70301-LCKV), all environmental	
	deficiencies were rectified by the Contractor	
	• Spot checking for dump truck (loaded) was carried out during site inspection.	
	No dump truck leaving the construction site was observed.	

	Name	Signature	Date
Recorded by	Stanley Liu	Stanley	7 March 2007
Checked by	Edmond Wu	TJS	7 March 2007

Checklist Reference Number	70314-LCKV	
Date	14 March 2007 (Wednesday)	
Time	13:30 - 16:00	

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

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. NoiseNo environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.: 70307-LCKV), no environmental	
	deficiency was observed during site inspection.	
	• Spot checking for dump truck (loaded) was carried out during site inspection.	
	No dump truck leaving the construction site was observed.	

	Name	Signature	Date
Recorded by	Tommy Ho	5	16 March 2007
Checked by	Edmond Wu	The second secon	16 March 2007

Checklist Reference Number	70319-LCKV	
Date	19 March 2007 (Monday)	
Time	14:00 - 15:35	

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

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	8
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	 No environmental deficiency was identified during the site inspection. 	
	• No chulomichai denerency was identified daring ale site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.: 70314-LCKV), no environmental	
	deficiency was observed during site inspection.	
	• Spot checking for dump truck (loaded) was carried out during site inspection.	
	No dump truck leaving the construction site was observed.	

	Name	Signature	Date
Recorded by	Stanley Liu	Stan	19 March 2007
Checked by	Edmond Wu	411	19 March 2007

Checklist Reference Number	70329-LCKV	
Date	29 March 2007 (Thursday)	· · · · · · · · · · · · · · · · · · ·
Time	09:30-11:30	

Ref. No.	Non-Compliance	Related Item No.
<u>_</u>	None identified	Activited Item 110.

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	12
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.: 70319-LCKV), no environmental	
	deficiency was observed during site inspection.	
	• Spot checking for dump truck (loaded) was carried out during site inspection.	
	No dump truck leaving the construction site was observed.	

	Name	Signature	Date
Recorded by	Edmond Wu	EAS	30 March 2007
Checked by	Dr. Priscilla Choy	h.T.	30 March 2007

Checklist Reference Number	70329-LCKV-TCSS	8 W W W W W W W W W W W W W W W W W W W
Date	29 March 2007 (Thursday)	
Time	11:00 - 11:30	

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

Ref. No.	Remarks/Observations	Related Item No
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit session (Ref. No.: 70301-LCKV-TCSS), no environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Edmond Wu	USA	30 March 2007
Checked by	Dr. Priscilla Choy	INT	30 March 2007

APPENDIX J EVENT ACTION PLANS

Appendix J - Event Action Plans

Event/Action Plan for Air Quality

EVENT	ACTION				
EVENT	ET	IEC	ER	Contractor	
ACTION LEVEL					
1. Exceedance for one	1. Identify source	1. Check monitoring data submitted by ET	1. Notify Contractor	1. Rectify any unacceptable practice	
sample	2. Inform ER & IEC	2. Check Contractor's working methods	2. Check monitoring data and Contractor's	2. Amend working methods if	
	3. Repeat measurement to confirm finding		working methods	appropriate	
	4. Increase monitoring frequency to daily				
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Submit proposals for remedial	
more consecutive samples	2. Inform ER & IEC	ET	in writing	actions to ER within 3 working days	
	3. Repeat measurement to confirm findings	2. Check Contractor's working methods	2. Notify Contractor	of notification	
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	2. Implement the agreed proposals	
	5. Discuss with ER & for remedial actions	possible remedial measure	4. Discuss with ET, IEC and Contractor on	3. Amend proposal if appropriate	
	required	4. Advise the ER & ET on the effectiveness	proposed remedial actions		
	6. If exceedance continues, arrange	of the proposed remedial measures	5. Ensure remedial actions properly		
	meeting with ER & IEC	5. Supervise the implementation of the	implemented		
	7. If exceedance stops, cease additional	remedial measures			
	monitoring				
LIMIT LEVEL					
1. Exceedance for one	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid	
sample	2. Inform ER & IEC and EPD	ET	in writing	further exceedance	
	3. Repeat measurement to confirm finding	2. Check Contractor's working methods	2. Notify Contractor	2. Submit proposals for remedial	
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	actions to ER within 3 working days	
	5. Assess effectiveness of Contractor's	possible remedial measure	4. Discuss with ET, IEC and Contractor on	of notification	

EVENT	ACTION				
EVENI	ET	IEC	ER	Contractor	
	remedial actions and keep EPD and ER &	4. Advise the ER & ET on the effectiveness	proposed remedial actions	3. Implement the agreed proposals	
	IEC informed of the results	of the proposed remedial measures	5. Ensure remedial actions properly	4. Amend proposal if appropriate	
		5. Supervise the implementation of the	implemented		
		remedial measures			
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid	
more consecutive samples	2. Inform ER, IEC, Contractor and EPD	ET	in writing	further exceedance	
	the cause & actions taken for the	2. Discuss amongst ER, ET and Contractor	2. Notify Contractor	2. Submit proposals for remedial	
	exceedances	on possible remedial measures	3. Carry out analysis of Contractor's	actions to IEC, ER within 3 working	
	3. Repeat measurement to confirm findings	3. Review Contractor's remedial measures	working procedures to determine possible	days of notification	
	4. Increase monitoring frequency to daily	whenever necessary to ensure their	mitigation to be implemented	3. Implement the agreed proposals	
	5. Investigate the causes of exceedance	effectiveness and advise the ER	4. Discuss amongst ET, IEC and the	4. Resubmit proposals if problem	
	6. Carry out analysis of contractor's	accordingly	Contractor on proposed remedial actions	still not under control	
	working procedures to determine possible	4. Supervise the implementation of the	5. In consultation with IEC, agree with the	5. Stop the relevant portion of works	
	mitigation to be implemented.	remedial measures	contractor remedial measures to be	as determined by the ER until the	
	7. Arrange meeting with EPD, IEC and ER		implemented	exceedance is abated	
	to discuss the remedial actions to be taken		6. Ensure remedial measure are properly		
	8. Assess effectiveness of Contractor's		implemented		
	remedial actions and keep EPD and ER &		7. If exceedance continues, consider what		
	IEC informed of the results		portion of the work is responsible and		
	9. If exceedance stops, cease additional		instruct the Contractor to stop that portion		
	monitoring		of work until the exceedance is abated		

Event/Action Plan for Construction Noise

Exceedance	ACTION				
Exceedance	ET	.IEC	ER	Contractor	
Action Level	1. Discuss with the IEC and ER and seek to	1. Review the analyzed results submitted	1. Confirm receipt of notification of	1. Submit proposals for remedial	
	identify potential noise source	by the ET	complaint and notify Contractor	actions to ER within three working	
			immediately	days of notification	
	2. Undertake noise measurement to	2. Review the proposed remedial measures	2. Check monitoring data trends and	2. Amend proposals if required by	
	confirm the validity of complaint	by the Contractor and advise the ER & ET	Contractor's working methods	the Engineer	
		accordingly			
	3. Inform ER&IEC in writing	3. Supervise the implementation of	3. Remind the Contractor of his contractual	3. Implement the remedial actions	
	Discuss remedial actions required with	remedial measures	obligations and discuss with ET, IEC and	immediately upon instruction	
	ER&IEC if an exceedance is recorded		Contractor on proposed remedial actions		
	4. Increase monitoring frequency to		4. Assess the efficacy of remedial actions	4. Liaise with the ER to optimize the	
	demonstrate efficacy of remedial measures		and keep the Contractor informed	effectiveness of the agreed	
				mitigation	
	5. If exceedance continues, meet with		5. Inform complainant of actions taken	5. Amend proposal if appropriate	
	ER&IEC to review implementation of				
	appropriate mitigation measures.				
	6. If exceedance stops, cease additional				
	monitoring				

Encoderac	ACTION				
Exceedance	ET	IEC	ER	Contractor	
Limit Level	1. Repeat measurement to confirm findings	1. Check monitoring data submitted by ET	1. Confirm receipt of notification of	1. Take immediate action to avoid	
			exceedance and notify Contractor	further exceedance	
	2. Investigate the cause of the exceedance	2. Review Contractor's remedial actions to	2. Check monitoring data trends and	2. Submit proposals for remedial	
	and identify the main source(s) of impact	assure their effectiveness and advise the	Contractor's working methods	actions to ER immediately not more	
		ER &ET accordingly		than 3 working days of notification	
	3. Inform ER&IEC and EPD in writing	3. Supervise the implementation of the	3. Discuss with ET, IEC and Contractor on	3. Amend proposals if required by	
		remedial measures	proposed remedial actions to be	the ER	
			implemented		
	4. Discuss remedial actions required with		4. Assess the efficacy of remedial actions	4. Implement remedial actions	
	ER&IEC		and keep the Contractor informed	immediately upon instruction	
	5. Increase monitoring frequency to		5. If exceedance continuous, consider what	5. Liaise with the ER to optimize the	
	demonstrate efficacy of remedial measures		portion of the work is responsible and	effectiveness of the agreed	
			instruct the Contractor to stop that portion	mitigation	
			of work until the exceedance is aborted		
	6. Assess efficacy of remedial actions and			6. Resubmit proposals if problem	
	keep ER & IEC informed of the results			still not under control	
	7. If exceedance continues, meet with			7. Stop the relevant portion of works	
	ER&IEC to identify appropriate mitigation			as determined by the ER until the	
	measures			exceedance is aborted	
	8. If exceedance stops, cease additional				
	monitoring				

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix K - Summary of Environmental Mitigation Implementation Schedule
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Types of Impacts	Mitigation Measures	Status
	• Any stockpile of dusty materials or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet.	^
	• A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones.	^
	 Vehicle washing facilities should be provided at every exit point. The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores. 	^
	• Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	^
Construction	• Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet.	^
Dust	• The portion of any road leading only to a construction site that is within 30m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials.	^
	• Any stockpile of dusty materials should be either covered entirely be impervious sheeting, placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet.	^
	• All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	^
	• Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site.	^
	• The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet.	^
	• Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works.	^
	• Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	^
	• Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS.	^
Construction	• Mobile plant should be sited as far away from NSRs as possible.	^
Noise	• Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.	^
	• Use quite plant and Working Method	^
	Reduce the number of plant operating in critical areas close NSRs.	^
	Construct temporary and movable noise barriers	^

Types of Impacts	Mitigation Measures	Status
Water Quality	Construction Runoff and Drainage	
	 Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow. Boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilities runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. 	^
	• All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The temporarily diverted drainage should be reinstated to its original condition when the construction works has finished or the temporary diversion is no longer required	^
	• Sand silt in the wash water from the wheel washing facilities, which ensure no earth, mud and debris is deposited on roads, should be settled out the removed before discharging into storm drains. A section of the road between the wheel washing bay and the public road should be paved with backfill to prevent wash water or other site runoff form entering public road drains.	^
	• Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oils and grease into the storm water drainage system after accidental spillage. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	N/A
	• Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks.	^
	• Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	^
	• Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains.	^
	• All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains via a petrol interceptor.	^
	Tunnelling Work	T
	• Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any washout of construction or excavated materials form the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps.	N/A
	Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to enhance deposition rates and to remove silt.	N/A
	• Spend grouts used in diaphragm wall construction should be collected in a separate slurry collection system, reconditioned and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM standards before discharge to the storm drains or disposal to landfill.	N/A

Types of Impacts	Mitigation Measures	Status
	General Construction Activities	
	• Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts.	^
	• All fuel tanks and storage areas will be provided with locks and be located on sealed areas (within bunds of a capacity equal to 110% of the storage capacity of the largest tank or 20% by volume of the fuel stored in that areas, whichever in the greatest).	^
	Sewage Effluent	
	 Construction work force sewage discharges form fixed toilet facilities on-site should be connected to the nearby existing trunk sewer wherever feasible. However, for areas where existing trunk sewer is not available, it is recommended that appropriate and adequate on site portable chemical toilets should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities. 	^
	• It is considered that sewage discharges could also be treated by on-site septic tanks and soakaway. Minimum clearance away form streams and catchments and other requirements for the proposed septic tank and soakaway should be referred to EPD's Practice Note for Professional Persons, Drainage Plans.	N/A
Waste	General	
	• Training and instruction shall be given at a site to construction staff to increase awareness and draw attention to waste management issues and the need to minimise waste generation. The training requirement shall be included in the site waste management plan.	^
	Storage, Collection and Transportation of Waste	
	• Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage.	^
	• Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits.	^
	• Waste shall be removed on a daily basis.	^
	• Waste storage area shall be maintained and cleaned on a daily basis.	^
	 Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers. 	^
	• Obtain necessary waste disposal permits from the appropriate authorities if they are required.	^
	• Wastes shall be disposed of at licensed waste disposal facilities.	^
	• Develop procedure such as ticketing system to facilitate tracking of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.	^
	Maintain records of the quantities of wastes generated, recycled and disposed.	^
	Surplus Excavated Materials	
	• Due to the high risk of loose material being washed into the existing nullah, stockpile materials should be properly compacted and covered from water erosion and located at least 10m away from the nullah wall.	^
	Construction and Demolition (C&D) Waste	

Types of Impacts	Mitigation Measures	Status
F	Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts.	^
	• The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage.	N/A
	• Construction and demolition (C&D) material shall be segregated to inert and non-inert parts. The inert portion shall re-used at areas of reclamation or land formation, or to public filling area shall such allocation is deemed necessary. The non-inert portion shall be disposed of to landfill.	^
	Chemical Waste	
	• Chemical waste that is produce during construction shall be handled in accordance with the Cod of Practice on the Packaging, Handling and Storage of Chemical Wastes.	^
	 Containers used for the storage of chemical wastes should: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. 	^
	 The storage area for chemical wastes should: a. Be clearly labelled and used solely for the storage of chemical waste; b. Be enclosed on at least 3 sides; c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest; d. Have adequate ventilation; e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); f. Be arranged so that incompatible materials are adequately separated. 	٨
	• Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a reuser of the waste (under approval from EPD).	^
	General Refuse	
	• General refuse generated on-site shall be stored in enclosed bins or compaction unit separate from C&D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily for every second day basis to minimise odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.	^
	• Reusable rather than disposable dishware shall be used if feasible.	^

Types of Impacts	Mitigation Measures	Status										
•	 A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza. Conduct a tree survey before commencement of the construction work. 	N/A										
Ecology	• All measures recommended in the approved landscape proposals under Condition 2.4 in EP above shall be fully implemented in accordance with the details and time schedule set out in the submission.											
Ecology	 Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately. Wild and uncontrolled fire shall be strictly prohibited 											
	• Fences shall be erected along the boundary of the construction sites at the Toll Plaza before commencement of works, to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent wooded areas.	N/A										
	• Landscape mitigation measure 1 (LMM1) – Construction programming and management. The periphery of the works areas at street level shall be managed so that they do not appear cluttered, untidy and unattractive and inconvenient to pedestrians. For example, all hoarding shall be colorfully designed with interesting motifs demonstrating the work of Highways Department. Hoardings with bland colours shall be avoided.	^										
Landscape and Visual Impact	• Landscape mitigation measure 2 (LMM2) – Advanced planting and erosion control works. Where possible, the transplantation of existing valuable trees, the stockpiling of topsoil, new planting and erosion control works shall be carried out as early as possible in the construction period instead of at the end. This will assist in maximizing the time for carrying out transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting of transplanted trees and the establishment of new screen trees. The stockpiling of topsoil will provide an abundant use of on-site material for growing media. During detailed design, the issue of stockpiling of topsoil in a manner that would avoid washing into the drainage scheme should be examined comprehensively.	^										
	Measurement of vibration would also be carried out on a need basis during the piling work	^										

Remarks:

N/A

Compliance of mitigation measure; Not Applicable;

Non-compliance but rectified by the contractor •

APPENDIX L CONSTRUCTION PROGRAMME

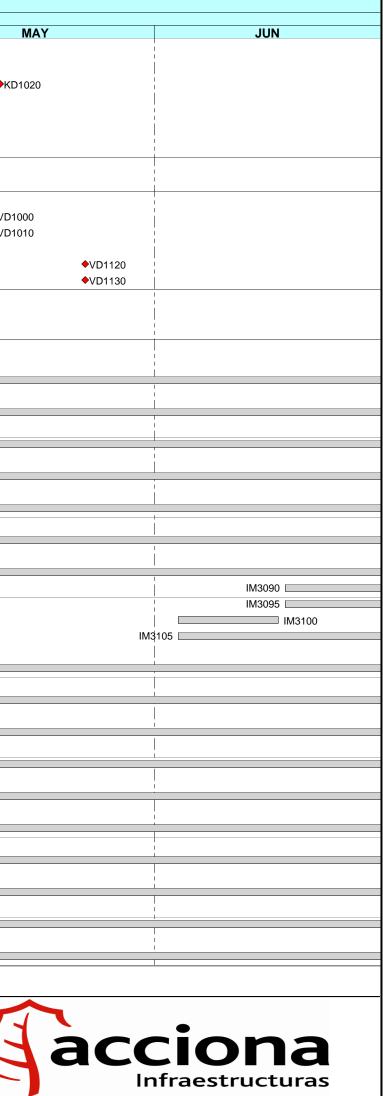
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Comp	Rem. Durn.	MAR			20	07
Prolimin	aries & General Requirments										1
	-										
Key Date	KD-2: Achievement of Stage 2	0		11MAY07	0	0					. ♦κι
KD1020	KD-7: Completion of Section 5 of the Works	0		12APR07*	0	0				◆KD1070	• N
KD1070	KD-8: Completion of Section 6 of the Works	0		12APR07*	0	0				◆KD1080	1
KD1000	KD-0: Completion of Section 9 of the Works	0		24APR07*	0	0				•KD1110	
KD1110	KD-12: Completion of Section 10 of the Works	0		24APR07 24APR07*	0	0				◆KD11120	'
·	Access Dates	0		24/11/10/							
PD1140	Access to Portion F1 (NOT USED)	0	20MAR07*		0	0		PD1140			
1		U	ZUMARUT		0			101140			
VD1000	Vacate Dates	0		10MAY07*	0	0					• • • VD
	Vacate Portion A	0		10MAY07*	0	0					↓ ◆VD ▼VD
VD1010	Vacate Portion B	0		19MAR07*	-	-		VD1110			
VD1110		-			0	0		VDTTIU			
VD1120	Vacate Portion F2	0		22MAY07*	0	0					1
VD1130	Vacate Portion F3	0		22MAY07*	0	0					
	f Temporary Works	0.1	00140 007	4740007	0	0.1				TW1370	1
TW1370	Design of Temp Works for Feature 11NW-A/C66	24	20MAR07	17APR07	0	24		TW1380		1001370	
TW1380	Design of Temp Works for Feature 11NW-A/FR54&55	24	22FEB07A	22MAR07	95	3		1001380			
	ng & Instrumentation - New Works					1.10					1
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	20MAR07	03APR07	0	12	110045		IM3010		
IM3015	Monitoring @ Cut Slope CCR-S1	225*	20MAR07	14DEC07	0	225*	IM3015				I
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	18APR07	02MAY07	0	12					IM3020
IM3025	Monitoring @ Cut Slope CCR-S2	201*	18APR07	14DEC07	0	201*				IM3025	1
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	20MAR07	03APR07	0	12	11 10 00 -		IM3030		
IM3035	Monitoring @ Cut Slope CCR-S3	225*	20MAR07	14DEC07	0	225*	IM3035				
IM3040	Install Instrumentation @ Cut Slope CCR-S4	12	20MAR07	03APR07	0	12			IM3040		
IM3045	Monitoring @ Cut Slope CCR-S4	225*	20MAR07	14DEC07	0	225*	IM3045				I
IM3050	Install Instrumentation @ Cut Slope CCR-S5	12	20MAR07	03APR07	0	12			IM3050		
IM3055	Monitoring @ Cut Slope CCR-S5	225*	20MAR07	14DEC07	0	225*	IM3055		L		
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	20MAR07	03APR07	0	12			IM3060		
IM3065	Monitoring @ Cut Slope CCR-S6	225*	20MAR07	14DEC07	0	225*	IM3065				1
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	20MAR07	03APR07	0	12			IM3080		
IM3085	Monitoring @ Slope 11NW-A/C26	225*	20MAR07	14DEC07	0	225*	IM3085				1
IM3090	Install Instrumentation @ Slope 11NW-A/FR54 & 55	12	18JUN07	03JUL07	0	12					1
IM3095	Monitoring @ Slope 11NW-A/FR54 & 55	150*	18JUN07	14DEC07	0	150*					1
IM3100	Install Instrumentation @ Slope11NW-A/C687 & 679	12	04JUN07	16JUN07	0	12					
IM3105	Monitoring @ Slope 11NW-A/C687 & 679	162*	04JUN07	14DEC07	0	162*					
IM3120	Install Instrumentation @ Slip Road B Embankment	12	20MAR07	03APR07	0	12	110105		IM3120		
IM3125	Monitoring @ Slip Road B Embankment	225*	20MAR07	14DEC07	0	225*	IM3125		L		
IM3130	Install Instrumentation @ Piers P1 to P6	12	20MAR07	03APR07	0	12	110105		IM3130		
IM3135	Monitoring @ Piers P1 to P6	225*	20MAR07	14DEC07	0	225*	IM3135		L		
IM3140	Install Instrumentation @ Piers P7 to P10	12	20MAR07	03APR07	0	12	110115		IM3140		
IM3145	Monitoring @ Piers P7 to P10	225*	20MAR07	14DEC07	0	225*	IM3145				
IM3150	Install Instrumentation @ Piers P11 to P15	12	20MAR07	03APR07	0	12			IM3150		
IM3155	Monitoring @ Piers P11 to P15	225*	20MAR07	14DEC07	0	225*	IM3155				
IM3160	Install Instrumentation @ Piers P16 to P18	12	20MAR07	03APR07	0	12			IM3160		
IM3165	Monitoring @ Piers P16 to P18	225*	20MAR07	14DEC07	0	225*	IM3165				
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12	20MAR07	03APR07	0	12			IM3170		
IM3175	Monitoring @ Piers P19 to Abut. M	225*	20MAR07	14DEC07	0	225*	IM3175				
IM3180	Install Instrumentation @ Piers on Slip Road A	12	20MAR07	03APR07	0	12			IM3180		l 1
IM3185	Monitoring @ Piers on Slip Road A	225*	20MAR07	14DEC07	0	225*	IM3185				
IM3190	Install Instrumentation @ Piers on Slip Road B	12	20MAR07	03APR07	0	12			IM3190		l I
IM3195	Monitoring @ Piers on Slip Road B	225*	20MAR07	14DEC07	0	225*	IM3195				
IM3200	Install Instrumentation @ Piers on Slip Road C	12	20MAR07	03APR07	0	12			IM3200		l l
IM3205	Monitoring @ Piers on Slip Road C	225*	20MAR07	14DEC07	0	225*	IM3205				1
IM3210	Install Instrumentation @ Piers on Slip Road D	12	20MAR07	03APR07	0	12			IM3210		
IM3215	Monitoring @ Piers on Slip Road D	225*	20MAR07	14DEC07	0	225*	IM3215				

Start Date Finish Date Data Date

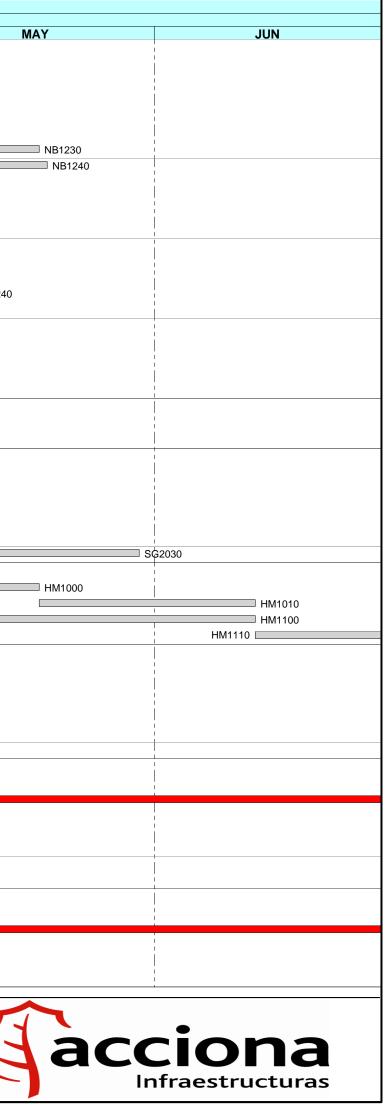
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Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 20 March 2007 Sheet 1 of 11

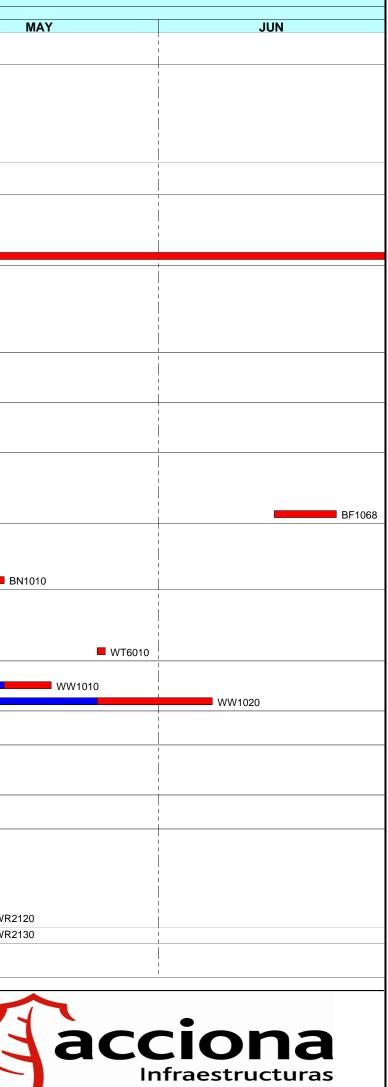
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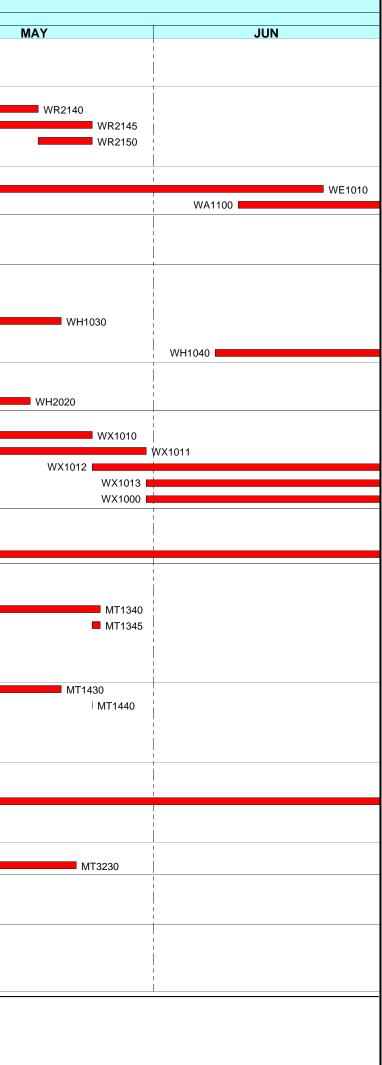
						1		
Activity	Activity	Orig.	Early	Early	%	Rem.	n2007	
ID	Description	Durn.	Start	Finish	Comp	Durn.	n. MAR APR	
Procure	ment							
	irriers & Enclosures							
NB1040	Noise Encl' - Slip Rd A - Off-site Fabrication	64	20MAR06A	20MAR07	97	1	NB1040	
NB1050	Noise Encl' - Slip Rd A - Delivery to Site	18	26JUL06A	21MAR07	95	2	NB1050	
NB1130	Noise Encl' - Slip Rd B - Off-site Fabrication	70	20MAR06A	21MAR07	90	2	NB1130	
NB1140	Noise Encl' - Slip Rd B - Delivery to Site	24	06SEP06A	22MAR07	90	3	NB1140	
NB1230	Noise Encl' - P8 to P11 - Off-site Fabrication	78	18NOV06A	16MAY07	20	48		
NB1240	Noise Encl' - P8 to P11 - Delivery to Site	41	12DEC06A	17MAY07	7	49		
NB1330	Noise Encl' - ENT Approach - Off-site Fabricat'n	57	09SEP06A	20MAR07	98	1	NB1330	
NB1340	Noise Encl' - ENT Approach - Delivery to Site	41	08JAN07A	21MAR07	98	2	NB1340	
NB2030 NB2040	Noise Barriers - PA to P4 - Off-site Fabrication Noise Barriers - PA to P4 - Delivery to Site	120	29NOV06A 17MAR07A	28MAR07 29MAR07	70 30	8	NB2030	
NB2040	Noise Barriers - P5 to P8 - Off-site Fabrication	62 110	07JAN07A	29MAR07 09APR07	25	17	NB2040	
NB2130	Noise Barriers - P5 to P8 - Delivery to Site	20	20MAR07	12APR07	0	20	NB2140	
NB2230	Noise Barriers - P11 to P13 - Off-site Fabric'n	35	06DEC06A	27APR07	30	33	NB2230	
NB2240	Noise Barriers - P11 to P13 - Delivery to Site	7	28APR07	07MAY07	0	7		NB2240
NB2330	Noise Barriers - ENT Approach -Off-site Fabric'n	48	06OCT06A	23MAR07	85	4	NB2330	
NB2340	Noise Barriers - ENT Approach - Delivery to Site	25	06DEC06A	24MAR07	85	5	NB2340	
NB2430	Noise Barriers - Slip Rd.C - Off-site Fabricat'n	38	02JAN07A	28MAR07	60	8	NB2430	
NB2440	Noise Barriers - Slip Rd. C - Delivery to Site	17	26MAR07	29MAR07	0	4	NB2440	
NB2530	Noise Barriers - Slip Rd. D -Off-site Fabricat'n	38	02JAN07A	26MAR07	60	6	NB2530	
NB2540	Noise Barriers - Slip Rd. D - Delivery to Site	13	23MAR07	27MAR07	0	4	NB2540	
Moveme		1 1			1	1		
MJ1040	Off-Site Manuf' of M.Js Main Line & LWRd O/P	35	21AUG06A	26APR07	85	32		
MJ1050	Off-Site Manufacturing of M.Js Slip Roads	35	21NOV06A	31MAR07	70	11	MJ1050	
Signage	Dire Oration Off Dite Enhancetion of Orathing		00007004	1040007	45	00		
SG1030 SG1040	Sign Gantries - Off-Site Fabrication of Gantries Sign Gantries - Delivery of Gantries to Site	60	02OCT06A 07NOV06A	12APR07 02MAY07	45 10	20 36		0
SG1040 SG2000	Signage - Award of Sub-contract (NOT USED)	40 0	20MAR07	UZIVIA TU7	0	0	SG2000 SG2000	0
SG2000	Signage - Shop Drawings (NOT USED)	50	20MAR07	24MAR07	0	5	SG2010	
SG2020	Signage - Rev & Appro of Shop Dwgs. (NOT USED)	24	26MAR07	23APR07	0	24		
SG2030	Signage - Off-Site Fabr'n of Signs (NOT USED)	50	24APR07	29MAY07	0	30		
High Mas	st Lighting (NOT USED)							
	High Mast Lighting -Foundation Design (NOT USED)	48	20MAR07	16MAY07	0	48		
HM1010	High Mast Lighting - Appr of Found'n (NOT USED)	24	17MAY07	13JUN07	0	24		
HM1100	High Mast Lighting Design & Shop Dwgs (NOT USED)	48	18APR07	13JUN07	0	48		
HM1110	High Mast Lighting - Appro of Design (NOT USED)	56	14JUN07	08AUG07	0	56		
Kiosk at	Slip Road C				_	-		
EM1010	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	23MAR07	90	4	EM1010	
EM1030	Procurement & Delivery of Fire AFA System	48	31JUL06A	23MAR07	90	4	EM1030	
EM1040	Submission & Approval for Air Conditioner Unit	24	20MAR07	03APR07	0	12		
EM1050	Procurement & Delivery of Air Conditioner Unit	12	27MAR07	03APR07	0	6	EM1050	
EM1060 EM1070	Submission & Approval for Sanitary Wear	24	20MAR07 04APR07	03APR07	0	12 6	EM1080	
	Procurement & Delivery of Sanitary Wear	12	04APK07	10APR07	0	0		
EM2000	oad Fire Hydrant Pump House Submission & Approval for Pumps & Valves	24	13JUN06A	31MAR07	25	11	EM2000	
EM2000	Procurement & Delivery of Pumps Valves	75	03APR07	30JUN07	0	75		
EM2030	Procurement & Delivery of Pump Control Panel	48	150CT06A	16APR07	80	23	EM2030	
EM2050	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	23MAR07	90	4	EM2050	
EM2070	Procurement & Delivery of Fire AFA System	48	31JUL06A	23MAR07	90	4	EM2070	
EM2110	Submission & Approval for Air Conditioner Unit	24	20MAR07	03APR07	0	12	EM2110	
EM2120	Procurement & Delivery of Air Conditioner Unit	12	04APR07	10APR07	0	6	EM2120	
Wai Man	Tsuen Fire Hydrant Pump House							
EM3000	Sumission & Approval for Pumps & Valves	24	13JUN06A	31MAR07	35	11	EM3000	
EM3010	Procurement & Delivery of Pumps Valves	75	03APR07	30JUN07	0	75		
EM3030	Procurement & Delivery of Pump Control Panel	48	150CT06A	16APR07	80	23	EM3030	
EM3050	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	23MAR07	90	4	EM3050	
EM3070	Procurement & Delivery of Fire AFA System	48	31JUL06A	23MAR07	90	4	EM3070	
Start Date			23SEP03	P3 File : Ll	J42		Sheet 2 of 11	
Finish Date Data Date			25NOV08 20MAR07				Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct	}
							3 Month Rolling Programme from 20 March 2007	
1	© Primavera Systems, Inc.			1				



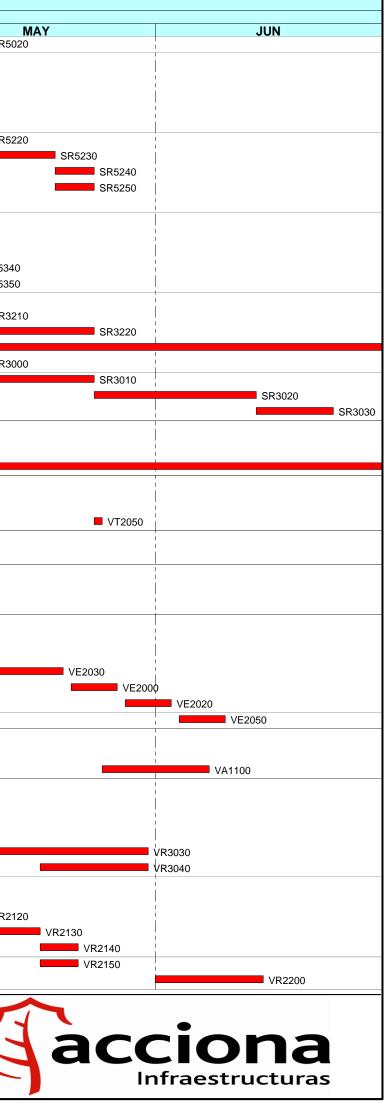
Activity	Activity	Orig.	Early	Early Finish	%	Rem.		2007
ID EM3110	Description Sumission & Approval for Air Conditioner Unit	Durn. 24	Start 20MAR07	Finish 26MAR07	Comp 0	burn.	MAR	EM3110
	Procurement & Delivery of Air Conditioner Unit	12	27MAR07	10APR07	0	12		EM3120
	Overpass Irrigation Pump House		-					
	Procurement & Delivery of Pumps Valves	48	31JUL06A	03APR07	80	12		EM4010
EM4030	Procurement & Delivery of Pump Control Panel	48	150CT06A	16APR07	80	23		EM4030
EM4050	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	23MAR07	90	4		EM4050
EM4070	Procurement & Delivery of Fire AFA System	48	31JUL06A	23MAR07	90	4		EM4070
	Procurement & Delivery of FGRP Water Tank	48	15DEC06A	31MAR07	80	11		EM4090
	Sumission & Approval for Air Conditioner Unit	24	20MAR07	03APR07	0	12		EM4110
	Procurement & Delivery of Air Conditioner Unit	12	04APR07	10APR07	0	6		EM4120
/iaduct ·	- Main Line - Piers PA to P6							
Remainin	g Superstructure Finishing Works							
MF1090	P6 - Landscaping - Planting On Viaduct	25	22MAR07	20APR07	0	25		MF1090
MF1100	P6 - Landscape Establishment Works on Viaduct	301	21APR07	19APR08	0	301		MF1100
/iaduct ·	- Slip Road A							
	ucture Finishing Works Required for TCSS							
	Slip Rd.A to P7-Parapet Insitu Concrete W. Face	60	20FEB06A	21MAR07	98	2		AF1020A
	Slip Rd. A - Sign Gantry DS6 at Abutment	12	22MAR07	05APR07	0	12		AF1025
	Slip Rd. B - Sign Gantry DS13 at Roundabout	12	20MAR07	03APR07	0	12		AF1035
	g Superstructure Finishing Works							
	Slip Rd. A - Top Rail to Parapets (NOT USED)	12	20MAR07	03APR07	0	12		AF1050
	Slip Rd. A - Install Movement Joint at Abut. A	6	03APR07	09APR07	0	6		AF1055
Noise Bar	rriers & Encl' (Sec.15 Excision)							
	Slip Rd. A - Full Enclosure Ch.1070 - Pier A2	48	26JUL06A	22MAR07	97	3		AN1000
N1010	Slip Rd. A - Full Enclosure Pier A2 - 1280	48	30SEP06A	24MAR07	90	5		AN1010
iaduct ·	- Slip Road B							
	g Superstructure Finishing Works							
	Slip Rd. B - Top Rail to Parapets (NOT USED)	12	20MAR07	03APR07	0	12		BF1060
	Slip Rd. B - Waterproofing of Deck	6	16JUN07	23JUN07	0	6		
	g Noise Barriers & Enclosures	Ū	10001101	20001101	Ū	0		
	Slip Road B - Full Enclosure Ch.1038 - Pier B2	48	250CT06A	30APR07	60	35		BN1000
	Slip Road B - Full Enclosure Pier B2 - Ch. 1258	48	07NOV06A	09APR07	70	17		BN1005
	Slip Road B - Semi Enclosures Ch.1258 - 1318	48	07NOV06A		40	44		
	e Works - Lai Po Road	1			1	1		
-	r <mark>y Traffic Management Schemes</mark> Transfer Viaduct Access to Slip Rd B	1	25APR07	25APR07	0	1		WT5100
	Open New Lai Po Rd. South Bound	1	23AF K07 24MAY07	23AP K07 24MAY07	0	1		– W13100
	Wall LCK-R1		24074107	24017107				
	Ret. Wall LCK-R1 - Bases	18	12AUG06A	17MAY07	45	5		
	Ret. Wall LCK-R1 - Bases	24	24AUG06A	07JUN07	45	13		
		24	24400004	07301107	43	15		
	Wall LCK-R2 Ret. Wall LCK-R2 - Insitu Concrete Parapets	24	05FEB07A	03APR07	80	12		WW2030
	· ·	∠4	USPEDU/A	UJAFRU/	00	12		vvv2030
	Wall LCK-R3	40	27850004	201400-7	- 20	10		W/W/2000
	Ret. Wall LCK-R3 - Bases	18	27SEP06A	30MAR07	20	10		WW3000
	Ret. Wall LCK-R3 - Walls	24	14OCT06A	14APR07	20	18		VVVV5010
	bad (D3) Roadworks - Stage 1	40	20144 0.07	0240007	-	40		WD1050
	Lai Po Rd N/B Ch.1+250-1+360 -Utilities NOT USED	12	20MAR07	03APR07	0	12		WR1250
	bad (D3) Roadworks - Stage 3	-	00144.0.07	10144.0.4	-	-		WE4040
	Lai Po Rd S/B - Temp. Ramp at Slip Rd B NOT USED	0	20MAR07	19MAR07	0	0		WE1040
	Lai Po Road S/B Ch.1+000 - 1+140 - Drainage Lai Po Rd S/B Ch.1+000 - 1+140 - Formation	24	05MAR07A	10APR07	40	18		WA2200
/R2100 /R2110	Lai Po Rd S/B Ch.1+000 - 1+140 - Formation Lai Po Rd S/B Ch.1+000 - 1+140 - Sub-base	18 24	27MAR07 04APR07	17APR07 02MAY07	0	18 24		WR2100 WR21
	Lai Po Rd S/B Ch.1+000 - 1+140 - Sub-base	24	11APR07	02MAY07 09MAY07	0	24		WR21
	Lai Po Rd S/B Ch.1+000 - 1+140 - Rerbs Lai Po Rd S/B Ch.1+000 - 1+140 - Pavement	24	11APR07	09MAY07 09MAY07	0	24		
		24		USIVIA TU/	U	24		
	bad (D3) Roadworks - Stage 4 Lai Po Rd S/B Ch.1+300 - 1+360 - Drainage	10	03FEB07A	26MAR07	70	6		WA3200
A3200	Lai FU RU 3/D CII. 1+300 - 1+360 - Drainage	12	USFEBU/A	∠oiviARU7	10	0		
t Date			23SEP03	P3 File : LU	42			Sheet 3 of 11
n Dale			25NOV08 20MAR07					
ish Date			∠uwiak07	1				
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ish Date								ent Contract No. HY/2003/01 ai Chi Kok Viaduct
ish Date							Route 8 - L 3 Month R	



Activity	A - 41-34-		F	Eart		Der				
Activity	Activity	Orig.	Early	Early	%	Rem.		200)7	
ID WD0000		Durn.	Start	Finish	-	Durn.	MAR	APR WP2200		
WR2300	Lai Po Rd S/B Ch.1+300 - 1+360 - Formation	6	27MAR07	03APR07	0	6		WR2300		
WR2310 WR2320	Lai Po Rd S/B Ch.1+300 - 1+360 - Sub-base Lai Po Rd S/B Ch.1+300 - 1+360 - Kerbs	6	04APR07 11APR07	10APR07 17APR07	0	6 6		WR2310		
WR2320 WR2330	Lai Po Rd S/B Ch.1+300 - 1+360 - Reibs	6	11APR07	17APR07	0	6		WR2320		
WR2330 WR2140	Lai Po Rd S/B Ch.1+300 - 1+360 - Pavenient Lai Po Rd S/B Ch.1+000 - 1+360 - Crash Barriers	18	25APR07	16MAY07	0	18	-			
	Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting	12	10MAY07	23MAY07	0	12	-			
	Lai Po Rd S/B Ch.1+000 - 1+360 -Marking & Signs	6	17MAY07	23MAY07	0	6	-			
	Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A	6	26APR07	03MAY07	0	6	-		WE1005	
	Lai Po Rd N/B -Remove Temp Road Over Slip Rd A	12	09MAR07A	30MAR07	10	10		WE1007		
WE1010	Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment	36	11MAY07	22JUN07	0	36	-			
WA1100	Lai Po Rd N/B Ch.0+946 - 1+250 - Drainage	30	12JUN07	07JUL07	0	21				
High Mas	t Lighting (NOT USED)				1					
	H/M Lighting (3 No. Mast) - Found's (NOT USED)	24	20MAR07	17APR07	0	24		WR3000		
WR3010	H/MLighting (3 No. Mast) -Erect Masts (NOT USED)	12	18APR07	02MAY07	0	12			WR3010	
	ad Fire Hydrant Pump House				1	1				
	Lai Po Rd. F/H Pump House - Structure	24	24FEB07A	06APR07	30	15		WH1010		
	Lai Po Rd. F/H Pump House - Waterproofing	12	07APR07	20APR07	0	12	-	WH1020		
	Lai Po Rd. F/H Pump House - Building Finishes	24	21APR07	19MAY07	0	24				
WH1035	Lai Po Rd. F/H P/H - Provision for E & M Contr'r	0		05MAY07	0	0			♦WH1035	
WH1040	Lai Po Rd. F/H Pump House - Mechanical Works	24	09JUN07	09JUL07	0	24				
WH2000	Fire Main at Lai Po Road - at Grade Pipework	18	24JUN06A	31MAR07	40	11		WH2000		
WH2010	Fire Main at Lai Po Road - Pipework up Pier P5/R	12	03APR07	16APR07	0	12		WH2010		
WH2020	Fire Main at Lai Po Road - Valves & Connections	24	17APR07	15MAY07	0	24				
Landscap	be Works					1				
WX1010	Landscaping - Dwarf Walls FW8, FW10 & FW13	54	20MAR07	23MAY07	0	54				
WX1011	Landscaping - Dwarf Walls FW4 & FW6	41	12APR07	30MAY07	0	41				
WX1012	Landscaping - Dwarf Walls FW12 & FW14	34	24MAY07	04JUL07	0	34				
WX1013	Landscaping - Dwarf Walls FW8, FW10 & FW13	34	31MAY07	11JUL07	0	34				
WX1000	Landscaping - Earthworks & Formation	140	31MAY07	15NOV07	0	140				
Viaduct	- Main Line - Piers P7 to P10									
	g Superstructure Finishing Works									
	P7 to P10 - Landscape Establish Works on Viaduct	301	28APR07	26APR08	0	301		MF2091		
-	Works - Lai Chi Kok Interchange	I	1	1	1	1				
-	ry Traffic Management Schemes	0.4*	20 14 1074	041443/07	0	EE*	-			
	2nd. TTMS Butterfly Valley Rd - Implementation B.V. Rd - Divert Traffic to Slow & Middle Lanes	94*	30JAN07A 24MAY07	24MAY07 24MAY07	0	55*	-			
	3rd TTMS Butterfly Valley Rd -Prepare for Review	1	20MAR07	03APR07	0	12	-	MT1400		
MT1400	3rd. TTMS Butterfly Valley Rd - CRE Endorsement	6	04APR07	10APR07	0	6	-	MT1410		
MT1410	3rd. TTMS Butterfly Valley Rd - Roadworks Advice	6	11APR07	17APR07	0	6	-	MT1420		
MT1420	3rd. TTMS Butterfly Valley Rd - Prepare	9	10MAY07	19MAY07	0	9				
MT1440	3rd. TTMS Butterfly Valley Rd - Implementation	0*	24MAY07	23MAY07	0	0*				
MT2140	TTMS for Pier P8/L - Implementation	941*	23FEB04A	09APR07	29	17*		MT2140		
MT3100	2nd. TTMS Kom Tsun Street - Prepare for Review	12	20MAR07	03APR07	0	12		MT3100		
MT3110	2nd. TTMS Kom Tsun Street - CRE Endorsement	6	04APR07	10APR07	0	6	-	MT3110		
	2nd. TTMS Kom Tsun Street - Roadworks Advice	6	11APR07	17APR07	0	6		MT3120		
MT3130	2nd. TTMS Kom Tsun Street - Site Preparation	6	18APR07	24APR07	0	6	-	MT3130		
MT3140	2nd. TTMS Kom Tsun Street - Implementation	81*	25APR07	31JUL07	0	81*		MT3140		
MT3200	3rd. TTMS Kom Tsun Street - Prepare for Review	12	20MAR07	03APR07	0	12	-	MT3200		
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	04APR07	10APR07	0	6	-	MT3210		
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	11APR07	17APR07	0	6		MT3220		
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	18APR07	21MAY07	0	28				
Drainage	Works									
	Butterfly Valley Rd Stage2 - Stormwater Drainage	36	21SEP06A	21MAR07	95	2		SA5100		
SA5300	Butterfly Valley Rd Stage4 - Stormwater Drainage	12	21SEP06A	23MAR07	75	4	-	SA5300		
Utilities 8	Roadworks									
	Castle Peak Road - Roadworks Reinstatement	17	20MAR07	09APR07	0	17		SR2000		
SR5000	Butterfly V. Rd (LCKI) Stage1-Excav. & Formation	36	19SEP06A	10APR07	50	18	-	SR5000		
SR5010	Butterfly V. Rd (LCKI) Stage 1 - Sub-base	24	12DEC06A	24APR07	5	22		SR5010		
Start Date	art Date 23SEP03 P3 File : LU42 Sheet 4 of 11									
Finish Date			25NOV08							
Data Date			20MAR07				Highwavs Departme	ent Contract No. HY/2003/01		
								ai Chi Kok Viaduct		
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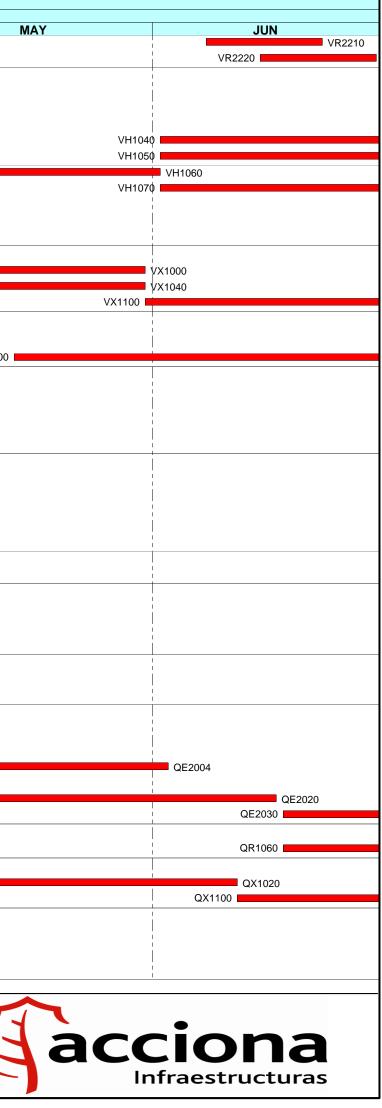
Activity	Activity	Orig.	Early	Early	%	Rem.		20	07
ID	Description	Durn.	Start	Finish	Comp		MAR	APR	
SR5020	Butterfly V. Rd (LCKI) Stage 1 - Kerbs	24	19DEC06A	09MAY07	5	22		507020	
SR5030	Butterfly V. Rd (LCKI) Stage 1 - Pavement	9	29JAN07A	28MAR07	5	8		SR5030	
SR5040	Butterfly V. Rd (LCKI) Stage 1 - Street Lighting	4	29MAR07	03APR07	0	4		SR5040	1
SR5060	Butterfly V. Rd (LCKI) Stage 1 - Road Marking	4	29MAR07	03APR07	0	4		SR5060	
SR5200	Butterfly V. Rd (LCKI) Stage2-Excav. & Formation	18	04APR07	24APR07	0	18		SR5200	
SR5210	Butterfly V. Rd (LCKI) Stage 2 - Sub-base	18	11APR07	02MAY07	0	18			
SR5220	Butterfly V. Rd (LCKI) Stage 2 - Kerbs	18	18APR07	09MAY07	0	18			1
SR5230	Butterfly V. Rd (LCKI) Stage 2 - Pavement	8	10MAY07	18MAY07	0	8			
SR5240	Butterfly V. Rd (LCKI) Stage 2 - Street Lighting	4	19MAY07	23MAY07	0	4			l I
SR5250	Butterfly V. Rd (LCKI) Stage 2 - Road Marking	4	19MAY07	23MAY07	0	4			
SR5300	Butterfly V. Rd (LCKI) Stage4-Excav. & Formation	18	20MAR07	10APR07	0	18		SR5300	
SR5310	Butterfly V. Rd (LCKI) Stage 4 - Sub-base	18	28MAR07	18APR07	0	18		SR5310	
SR5320	Butterfly V. Rd (LCKI) Stage 4 - Kerbs	18	05APR07	25APR07	0	18		SR532	þ
SR5330	Butterfly V. Rd (LCKI) Stage 4 - Pavement	6	26APR07	03MAY07	0	6			
SR5340	Butterfly V. Rd (LCKI) Stage 4 - Street Lighting	4	04MAY07	08MAY07	0	4			l I
SR5350	Butterfly V. Rd (LCKI) Stage 4 - Road Marking	4	04MAY07	08MAY07	0	4			
SR3200	Kom Tsun Street Bus Stn Excavate & Formation	18	11APR07	02MAY07	0	18			
R3200	Kom Tsun Street bus Stn Excavate & Formation		18APR07	02MAT07 09MAY07	-				
		18			0	18			1
SR3220	Kom Tsun Street Bus Stn Kerbs	24	25APR07	23MAY07	0	24		0.00	b
R3230	Kom Tsun Street Bus Stn Concrete Pavement	75	03MAY07	31JUL07	0	75		SR32	კ∩
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	25APR07	09MAY07	0	12			
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	10MAY07	23MAY07	0	12			l l
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	24MAY07	13JUN07	0	18			1
R3030	Kom Tsun Street L/H C/Way - Pavement	8	14JUN07	23JUN07	0	8			l I
laduct	- Main Line - Piers P11 to P15	·							1
									l I
	g Superstructure Finishing Works		0.711111	0.000	-				
/IF3100	P11 to P16 - Landscape Establish W'ks on Viaduct	301	07MAY07	05MAY08	0	301			MF
t Grade	e Works - Wai Man Tsuen								1
Tempora	ry Traffic Management Schemes								
	B.V. Rd - Divert Traffic to Slow & Middle Lanes	1	24MAY07	24MAY07	0	1			i I
			24007107	241077107					
Ŭ	d Channel at Wai Man Tsuen							Vana	
	Channel - Modifications to Channel Floor -VO 299	12	30NOV05A	23MAR07	95	4		VC3000	<u> </u>
Earthwor	ks & Slope Works								i I
/E1060	Slope CCR-S5 - Slope Drainage & Finishes	24	20MAR07	17APR07	0	24		VE1060	
VE1070	Slope CCR-S5 - Landscaping & Hydroseeding	12	11APR07	24APR07	0	12		VE1070	l l
Earthwor	ks & Slope Works - 11NW-A/C678 & CR679								
/E2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	18APR07	20APR07	0	3		VE2025	l l
/E2023	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	21APR07	27APR07	0	6		VE2020	027
				-	-			Ve	1021
/E2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	28APR07	19MAY07	0	18			
/E2000	Slope 11NW-A/C678 & CR679 - Remove Temp Platform	6	21MAY07	26MAY07	0	6			1
VE2020	Slope 11NW-A/C678 & CR679 - Trim Original Slope	6	28MAY07	02JUN07	0	6			
VE2050	Slope 11NW-A/C678 & CR679 -Landscape & Hydroseed	6	04JUN07	09JUN07	0	6			
Drainage	Works								
/A1000	Butterfly Valley Rd Stage3 - Stormwater Draiange	24	20MAR07	17APR07	0	24		VA1000	l I
/A1100	Butterfly Valley Rd Stage4 - Stormwater Draiange	12	25MAY07	07JUN07	0	12			1
	Roadworks			0.001107					
		24	00144.5.05	4740047		0.1			1
/R3000	Drainage Maintenance Access Rd Formation	24	20MAR07	17APR07	0	24		VR3000	
/R3010	Drainage Maintenance Access Rd Sub-base	24	27MAR07	24APR07	0	24		VR3010	
/R3020	Drainage Maintenance Access Rd Kerbs	24	04APR07	02MAY07	0	24			
/R3030	Drainage Maintenance Access Rd Pavement	48	04APR07	30MAY07	0	48			
/R3040	Drainage Maintenance Access Rd Street Lights	12	17MAY07	30MAY07	0	12			ļ
′R2100	Butterfly V. Rd (WMT) Stage3- Excav. & Formation	12	11APR07	24APR07	0	12		VR2100	1
/R2110	Butterfly V. Rd (WMT) Stage 3 - Sub-base	12	18APR07	02MAY07	0	12			
/R2120	Butterfly V. Rd (WMT) Stage 3 - Kerbs	12	25APR07	09MAY07	0	12			1
/R2130	Butterfly V. Rd (WMT) Stage 3 - Pavement	6	10MAY07	16MAY07	0	6			1
/R2140	Butterfly V. Rd (WMT) Stage 3 - Street Lighting	4	17MAY07	21MAY07	0	4			
/R2150	Butterfly V. Rd (WMT) Stage 3 - Road Marking	4	17MAY07	21MAY07	0	4			
/R2200	Butterfly V. Rd (WMT) Stage4- Excav. & Formation	12	01JUN07	14JUN07	0	12			
art Date			23SEP03	P3 File : LU	 I42			Sheet 5 of 1	1
sh Date			25NOV08						•
ta Date			20MAR07				Highwaya Danating	ont Contract No. HV/2002/04	
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								20 March 2007	



Activity	Activity	Orig.	Early	Early	%	Rem.		000	7
ID .	Description	Durn.	Start	Finish	Comp	Durn.	MAR	200)/
VR2210	Butterfly V. Rd (WMT) Stage 4 - Sub-base	12	08JUN07	22JUN07	0	12			
VR2220	Butterfly V. Rd (WMT) Stage 4 - Kerbs	12	15JUN07	29JUN07	0	12			
Wai Man	Tsuen Fire Hydrant Pump House	1	,		1	1			
VH1020	Wai Man Tsuen F/H Pump House - Waterproofing	12	11DEC06A	26MAR07	50	6		VH1020	
VH1030	Wai Man Tsuen F/H Pump House - Building Works	24	09JAN07A	26MAR07	80	6		VH1030	
VH1035	Wai Man Tsuen F/H P/H - Provide for E & M Contr'	0		19MAR07	0	0		VH1035	
VH1040	Wai Man Tsuen F/H Pump House - Mechanical Works	24	02JUN07	30JUN07	0	24			
VH1050	Wai Man Tsuen F/H Pump House - Electrical Work	24	02JUN07	30JUN07	0	24			
VH1060	Wai Man Tsuen F/H Pump House - FS Installation	24	05MAY07	01JUN07	0	24			
VH1070	Wai Man Tsuen F/H Pump House - Plumb & Drains	24	02JUN07	30JUN07	0	24			
VH2000	Fire Main - Pipework Along Maintenance Road	18	20MAR07	10APR07	0	18		VH2000	
VH2005	Fire Main - Pipework to Piers P10/R & P14	18	20MAR07	10APR07	0	18		VH2005	
	Fire Main - Valves & Connections	18	11APR07	02MAY07	0	18		112000	VH2010
		10		021017107	0				
Landscap		21	001443/07	001411/07		0.1			
VX1000	Landscaping - Earthworks & Formation	24	03MAY07	30MAY07	0	24			
VX1040	Landscaping - Soiling & Planting	24	03MAY07	30MAY07	0	24			
VX1100	Landscape Establishment Works	300	31MAY07	28MAY08	0	300			
Viaduct	- Main Line - Piers P16 to P18								
Remainin	g Superstructure Finishing Works								
	P16 to P17 - Landscape Establish W'ks on Viaduct	301	14MAY07	12MAY08	0	301			MF4100
Viaduct	- Main Line - Piers 19 to Abutment M	/	,	J	1	1			
	ucture Finishing Works Required for TCSS			00141505					
	P19 to Abut M - Insitu Slab Under Median Barrier	20	07NOV06A	26MAR07	70	6		MF5005	
	P19 to Abut M - Median Barrier (incl earthing)	18	16JAN07A	03APR07	60	12		MF5007	
	P19 to Abut M - Sign Gantry FADS1at Abutment M	50	29NOV06A	22MAR07	95	3		MF5010	
	g Superstructure Finishing Works		1	1		1			
MF5040	P19 to Abut M - Deck Drainage	18	01MAR07A	10APR07	95	3		MF5040	
MF5050	P19 to Abut M - Top Rail to Parapets	12	20MAR07	03APR07	0	12		MF5050	
MF5055	P19 to Abut M - Install Movement Joint at Abut M	4	20MAR07	23MAR07	0	4		MF5055	
MF5058	P19 to Abut M - Waterproofing of Deck	4	23MAR07	27MAR07	0	4		MF5058	
MF5060	P19 to Abut M - Flexible Pavement	4	04APR07	07APR07	0	4		MF5060	
MF5070	P19 to Abut M - Viaduct Road Lighting	18	20MAR07	10APR07	0	18		MF5070	
MF5080	P19 to Abut M - Road Marking & Traffic Signage	4	09APR07	12APR07	0	4		MF5080	
Viaduct	- Main Line - Tunnel Approaches								
	rriers & Encl' (Sec.10 Excision)								
	Semi Enclosure S/B Ch.2005 - 2200 - Frame	60	30NOV06A	26MAR07	85	6		MN6100	
	Semi Enclosure S/B Ch.2005 - 2200 - Plane Semi Enclosure S/B Ch.2005 - 2200 - Planes		01MAR07A	24APR07		30		MN6110	
		35	UTWARUTA	Z4APKU7	10	30		MINOT TO	
E	g Noise Barriers & Enclosures								
MN8080	At Grade - 7m Reflective Barrier S/B Ch1789-1989	75	11DEC06A	24APR07	30	30		MN8080	
MN8100	At Grade - 5.5m Reflective Barrier Ch1799-1997	75	03MAR07A	24APR07	30	30		MN8100	
At Grade	e Works - Butterfly Valley								
Earthwor	ks & Slope Works - 11NW-A/FR54 & F55								
QE2002	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases	36	23MAR07	05MAY07	0	36			QE2002
QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48	07APR07	02JUN07	0	48			
	Slope 11NW-A/FR54 & FR55 - Install Temp Works	36	23MAR07	05MAY07	0	36			QE2010
	Slope 11NW-A/FR54 & FR55 - Excavate & Rockfill	36	07MAY07	16JUN07	0	36			422010
	Slope 11NW-A/FR54 & FR55 - Remove Temp. Works	18	18JUN07	10JUL07	0	18			
		10	10001107	1030207	0	10			
		00	40.007	04 11 11 07	0	00			
QR1060	WSD Access Road - Permanent C/Way P18 to P19	36	18JUN07	31JUL07	0	36			
Landscap									
	Landscaping - Soiling & Planting on Slope CCR-S6	75	14MAR07A	11JUN07	2	70			
QX1100	Landscape Establishment Works	301	12JUN07	10JUN08	0	301			
Viaduct	- Slip Road C								
Remainin	g Superstructure Finishing Works								
	Slip Rd. C - Deck Drainage	50	230CT06A	24MAR07	90	5		CF1040	
	Slip Rd. C - Top Rail to Parapets	18	20001007(20MAR07	10APR07	0	18		CF1050	
		10			v	1 10	1		
tart Date			23SEP03	P3 File : LU	J42			Sheet 6 of 11	
inish Date			25NOV08						
Data Date			20MAR07				Highways Departme	ent Contract No. HY/2003/01	

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Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 20 March 2007



Activity	-	Orig.	Early	Early	%	Rem.		2007
ID	Description	Durn.	Start	Finish	-	Durn.	MAR	APR
CF1058	Slip Rd. C - Waterproofing of Deck (not used)	6	20MAR07	26MAR07	0	6		CF1058
CF1070	Slip Rd. C - Viaduct Road Lighting	24	20MAR07	17APR07	0	24		CF1070
CF1080	Slip Rd. C - Road Marking & Traffic Signage	18	20MAR07	10APR07	0	18		CF1080
	ng Noise Barriers & Enclosures		1	1				
CN1000	Slip Rd. C - 3m Absorptive Barriers Ch.665 - 730	52	29MAR07	30MAY07	0	52		
CN1010	Slip Rd. C - 3m Absorptive Barriers Ch.730 - 790	50	31MAY07	30JUL07	0	50		
Viaduct	- Slip Road D							
Superstr	ucture Finishing Works Required for TCSS			1				
DF1009	Slip Rd. D - Sign Gantry ADS4 at D6	12	20MAR07	03APR07	0	12		DF1009
Remaini	ng Superstructure Finishing Works							
DF1040	Slip Rd. D - Deck Drainage	24	01SEP06A	21MAR07	90	2		DF1040
DF1050	Slip Rd. D - Top Rail to Parapets	18	11APR07	02MAY07	0	18		DF1050
DF1053	Slip Rd. D - Movement Joint at Abut D.	6	03APR07	09APR07	0	6		DF1053
DF1055	Slip Rd. D - Movement Joint at D6	6	06APR07	12APR07	0	6		DF1055
DF1057	Slip Rd. D - Movement Joint at D9	6	10APR07	16APR07	0	6		DF1057
Remaini	ng Noise Barriers & Enclosures				1			
DN1000	Slip Rd. D - 3.5m Reflective Barrier Ch.805-881	36	27MAR07	09MAY07	0	36		
DN1010	Slip Rd. D - 3m Reflective Barriers Ch.680 - 805	36	28MAR07	10MAY07	0	36		
	Road Overpass				Ū	50		
	-							
-	ITY Traffic Management Schemes	40	00050000	00144 505	F 0	4		1 72000
LT3000	TTMS CC Rd (on W/B Deck) - Prepare for Review	12	08DEC06A	23MAR07	50	4		LT3000
LT3010	TTMS CC Rd (on W/B Deck) - CRE Endorsement	6	24MAR07	29MAR07	0	6		LT3010
LT3020	TTMS CC Rd (on W/B Deck) - Roadworks Advice	6	30MAR07	04APR07	0	6		LT3020
LT3030	TTMS CC Rd (on W/B Deck) - Site Preparation	6	05APR07	11APR07	0	6		LT3030
LT3050	TTMS CC Rd (on W/B Deck) - Implementation	93*	02FEB07A	26MAY07	0	57*		
LT3145	Divert 1No. Lane to New West Bound Bridge	1	28MAR07	28MAR07	0	1		LT3145
LT3150	TTMS CC Rd (on E/B Deck) - Implementation	56*	11MAR07A	17MAY07	0	49*		
LT3200	TTMS CC Rd (on Both Decks) - Prepare for Review	12	20MAR07	03APR07	0	12		LT3200
LT3210	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	04APR07	09APR07	0	6		LT3210
LT3220	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	10APR07	15APR07	0	6		LT3220
LT3230	TTMS CC Rd (on Both Decks) - Site Preparation	6	19MAY07	25MAY07	0	6		
LT3240	Divert 2 Lanes to Each New East Bound Bridge	1	17MAY07	17MAY07	0	1		
LT3245	Divert 2 Lanes to Each New West Bound Bridge	1	26MAY07	26MAY07	0	1		
LT3250	TTMS CC Rd (on Both Decks) - Implementation	28*	17MAY07	18JUN07	0	28*		
LT3300	TTMS CC Rd (on Both Decks) - Prepare for Review	12	20MAR07	03APR07	0	12		LT3300
LT3310	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	04APR07	09APR07	0	6		LT3310
LT3320	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	10APR07	15APR07	0	6		LT3320
LT3330	TTMS CC Rd (on Both Decks) - Site Preparation	4	13JUN07	16JUN07	0	4		
LT3340	Divert 1No. Lane to Each New Bridge	1	18JUN07	18JUN07	0	1		
LT3350	TTMS CC Rd (on Both Decks) - Implementation	150*	18JUN07	14DEC07	0	150*		
West Bo	und - Insitu Deck							
LD1065	Lai Wan Overpass W/B - Movement Joints at DA1&2	6	26FEB07A	22MAR07	50	3		LD1065
LD1067	Lai Wan Overpass W/B - Flexible Pavement	4	23MAR07	27MAR07	0	4		LD1067
LD1080	Lai Wan Overpass WB - Demolish Existing Flanges	24	29MAR07	26APR07	0	24		LD1080
LD1090	Lai Wan Overpass W/B - Construct New Flanges	36	13APR07	25MAY07	0	36		
East Bou	und - Insitu Deck							
LD2080	Lai Wan O/Pass E/B - Demolish Existing Flanges	24	20MAR07	17APR07	0	24		LD2080
LD2090	Lai Wan O/Pass E/B - Construct New Flanges	36	04APR07	16MAY07	0	36		
West Bo	und - Superstructure Finishing Works							
LF1110	Lai Wan O/Pass W/B - Resurface Existing Deck	18	28MAY07	16JUN07	0	18		
LF1120	Lai Wan O/Pass W/B - Reconstruct Deck Drainage	18	28MAY07	16JUN07	0	18		
LF1130	Lai Wan O/Pass W/B - 6 Months Wait for Stitches	179	23APR07	23NOV07	0	179		LF1130
	Ind - Superstructure Finishing Works	-	-		1			
LF1010	Lai Wan O/Pass E/B - Resurface Existing Deck	18	26MAY07	15JUN07	0	18		
LF1010	Lai Wan O/Pass E/B - Reconstruct Deck Drainage	18	18MAY07	07JUN07	0	18		
LF1020	Lai Wan O/Pass E/B - Reconstruct Deck Drainage	176	13APR07	10NOV07	0	176		LF1040
LF 1040	Lai wan U/Fass E/D - 0 WOHUNS Wait IOF SUICHES	1/0	ISAFKU/		U	011		

Start Date							
Finish Date							
Data Date							

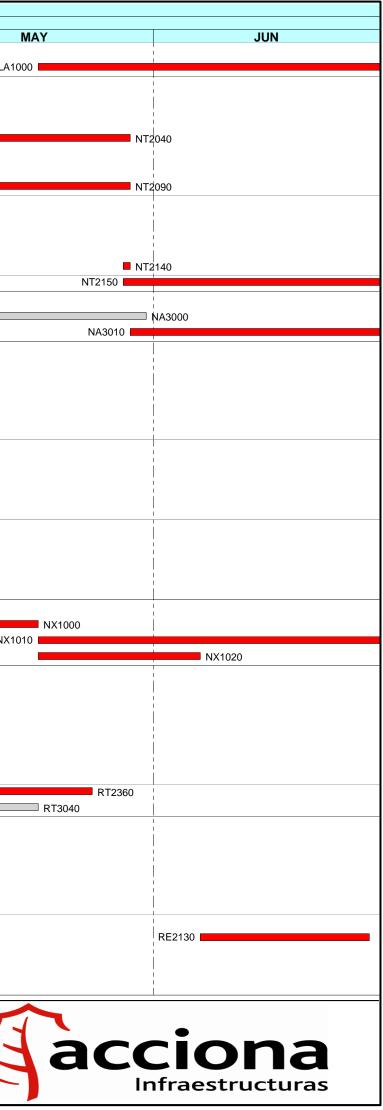
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Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 20 March 2007 Sheet 7 of 11

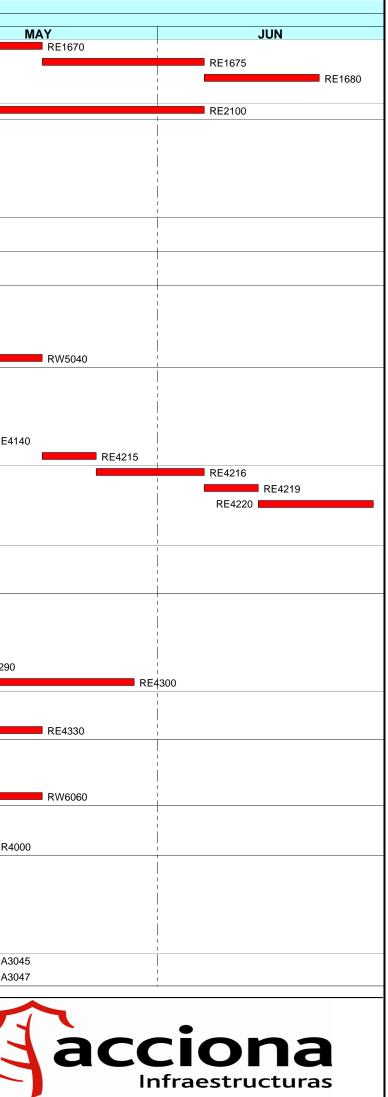
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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Comp	Rem.		2007
Drainage	•	Dam	Otart	1 mion	Comp	Dann	MAR	APR
LA1000	Area Under Overpass - Stormwater Drainage	48	17MAY07	13JUL07	0	48		LA
At Grad	e Works - Ching Cheung Road at LCK Par	k				1		
	ry Traffic Management Schemes							
NT1050	TTMS CC Rd (W/B C/Way) - Implementation	969*	05FEB04A	24APR07	33	30*		NT1050
NT2040	1st. TTMS CC Rd (E/B C/Way) - Implementation	755*	22NOV04A	28MAY07	0	58*		
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	20MAR07	25MAR07	0	6		NT2070
NT2080	2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	26MAR07	31MAR07	0	6		NT2080
NT2090	2nd. TTMS CC Rd (E/B C/Way) - Implementation	47*	03APR07	28MAY07	0	47*		NT2100
NT2100 NT2110	3rd. TTMS CC Rd (E/B C/Way) - Prepare for Review 3rd. TTMS CC Rd (E/B C/Way) - CRE Endorsement	12 6	20MAR07 04APR07	03APR07 09APR07	0	12 6		NT2100
NT2110	3rd. TTMS CC Rd (E/B C/Way) - CRE Endorsement 3rd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	10APR07	15APR07	0	6		NT2120
NT2120	3rd. TTMS CC Rd (E/B C/Way) - Noadworks Addree	6	16APR07	21APR07	0	6		NT2130
NT2140	Divert 2 Lanes to New East Bound Carriageway	1	28MAY07	28MAY07	0	1		
NT2150	3rd. TTMS CC Rd (E/B C/Way) - Implementation	82*	28MAY07	01SEP07	0	82*		
Drainage	Works		1		1			
NA3000	C.C. Rd. E/B in New C/way - not used	60	20MAR07	30MAY07	0	60		
NA3010	C.C. Rd. E/B Existing C/way -Stormwater Drainage	75	29MAY07	25AUG07	0	75		
Utilities &	& Roadworks							
NR1000	C.C. Rd. W/B in Portion E3 - Formation	12	22MAR07	05APR07	0	12		NR1000
NR1010	C.C. Rd. W/B in Portion E3 - Sub-base	12	29MAR07	12APR07	0	12		NR1010
NR1030	C.C. Rd. W/B in Portion E3 -E&M + TCSS Provision	12	29MAR07	12APR07	0	12		NR1030
NR1040	C.C. Rd. W/B in Portion E3 - Pavement	9	10APR07	19APR07	0	9		NR1040
NR1050	C.C. Rd. W/B in Portion E3 - Rd Marking & Signs	6	16APR07	21APR07 17APR07	0	6		NR1050
NR1090 NR1100	C.C. Rd. W/B - Foundations & Sign Gantry ADS3 C.C. Rd. W/B Portion J2 - Formation	24 12	20MAR07 20MAR07	03APR07	0	24 12		NR1100
NR1110	C.C. Rd. W/B in Portion J2 - Sub-base	12	27MAR07	10APR07	0	12		NR1110
NR1130	C.C. Rd. W/B in Portion J2 - E&M + TCSS Provision	12	27MAR07	10APR07	0	12		NR1130
NR1140	C.C. Rd. W/B in Portion J2 - Pavement	9	07APR07	17APR07	0	9		NR1140
NR1150	C.C. Rd. W/B in Portion J2 - Rd Marking & Signs	6	18APR07	24APR07	0	6		NR1150
NR1160	C.C. Rd. W/B in Portion J2 - Street Lighting	12	04APR07	17APR07	0	12		NR1160
NR2000	C.C. Rd. E/B - Foundations for Sign Gantry FADS3	18	20MAR07	10APR07	0	18		NR2000
NR3035	C.C. Rd. E/B - Sign Gantry FADS3	12	11APR07	24APR07	0	12		NR3035
NR3060	C.C. Rd. E/B - Road Markings & Traffic Signs	6	03APR07	09APR07	0	6		NR3060
	pe Works	40	0540007	(0) (0) (07		40		
NX1000	Landscaping - Formation	18	25APR07	16MAY07	0	18		NX1
NX1010 NX1020	Landscaping - Paving Landscaping - Irrigation System	50 18	17MAY07 17MAY07	16JUL07 06JUN07	0	50 18		
		1	TTWATUT	00301107	0	10		
	e Work - Ching Cheung Road - Main Secti	on						
-	ry Traffic Management Schemes				1 1 2			DTOLOG
RT2160	2nd. TTMS CC Rd E/B (CCR-S1) - Implementation	874*	14MAY04A	10APR07	16	18*		RT2160
RT2240 RT2320	3rd. TTMS CC Rd (Slewing) - Implementation	685* 6	28DEC04A 20MAR07	10APR07 25MAR07	0	18* 6	-	RT2240
RT2320	4th. TTMS CC Rd E/B C/Way - Roadworks Advice 4th. TTMS CC Rd E/B C/Way - Site Preparation	6	26MAR07	31MAR07	0	6		RT2330
RT2340	C.C. Rd - Divert 1No. E/B Lane to New C/way	0	2010/41107	10APR07	0	0		◆RT2340
RT2360	4th. TTMS CC Rd E/B C/Way - Implementation	36*	11APR07	23MAY07	0	36*		
RT3040	TTA Case No.011 - (CCR-R4) - Implementation	947*	23MAR04A	16MAY07	24	48*		
Earthwor	ks & Slope Works - CCR-S1, S2 & S3				1	1		
RE1700	Slope CCR-S1E - Finish Seed & Planting +62.3mPD	6	20MAR07*	26MAR07	0	6		RE1700
RE1710	Slope CCR-S1E - Finish Seed & Planting +54.8mPD	12	27MAR07	10APR07	0	12		RE1710
RE1720	Slope CCR-S1E - Finish Seed & Planting +47.3mPD	12	11APR07	24APR07	0	12		RE1720
RE1710A	Slope CCR-S1C- Finish Seed & Planting +54.9mPD	12	20MAR07	03APR07	0	12		RE1710A
RE1720A	Slope CCR-S1C - Finish Seed & Planting +47.3mPD	12	04APR07	17APR07	0	12		RE1720A
RE1860	Slope CCR-S1E&C- Finish Seed & Planting to +25.4	24	20MAR07	17APR07	0	24		RE1860
RE2130	Slope CCR-S2 - Finish Seeding & Planting	18	07JUN07	28JUN07	0	18		DE1700D
RE1720B RE16604	Slope CCR-S1W - Seed & Planting to +39.95mPD Slope CCR-S1W - Drainage to Level +16.8mPD	24 18	20MAR07 04DEC06A	17APR07 23MAR07	0 75	24 4		RE1720B
RE1665	Slope CCR-S1W - Drainage to Level +18.6mPD Slope CCR-S1W - Seed & Planting to +32.4mPD	24	20MAR07	17APR07	0	24		RE1665
Start Date					-		1	
Finish Date			25NOV08	P3 File : Ll	J4Z			Sheet 8 of 11
Data Date			20MAR07				Highways Departme	ent Contract No. HY/2003/01
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								20 March 2007
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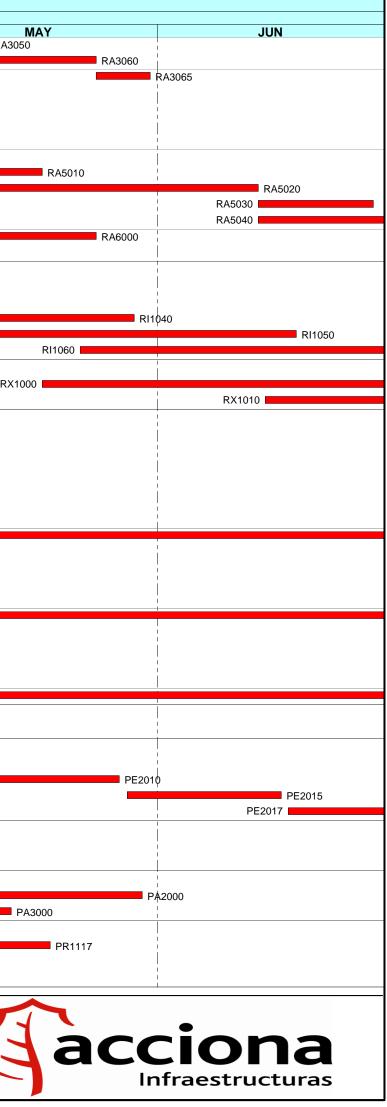


Activity	Activity	Orig.	Early	Early	%	Rem.		2007
ID	Description	Durn.	Start	Finish	Comp	Durn.	MAR	APR
RE1670	Slope CCR-S1W - Seed & Planting to +24.9mPD	24	18APR07	16MAY07	0	24		
RE1675	Slope CCR-S1W - Seed & Planting to +19.0mPD	18	17MAY07	06JUN07	0	18		
RE1680	Slope CCR-S1W - Seed & Planting to +16.8mPD	12	07JUN07	21JUN07	0	12		
RE2000	Slope CCR-S2 -Excavate Rock to Formation	24	20MAR07	17APR07	0	24		RE2000
RE2100	Slope CCR-S2 - Drainage	42	18APR07	06JUN07	0	42		
Slope W	orks Above Retaining Wall CCR-R2							
RE4023	Remove Access Road	6	20MAR07	26MAR07	0	6		RE4023
RE4027	Excavate & Demolish Existing Retaining Wall	12	20MAR07	03APR07	0	12		RE4027
RE4028	Fill & Compact to Form Toe of Berm	6	04APR07	10APR07	0	6		RE4028
RE4030	Slope Drainage above R/W CCR-R2	24	05MAR07A	10APR07	30	18		RE4030
RE4040	Slope Finishes above R/W CCR-R2	24	27MAR07	24APR07	0	24		RE4040
	g Wall CCR-R3 Type A		211001101	2.0.0.1001				
RW3040	Ret. Wall CCR-R3A - Backfill & Form Platform	10	20MAR07	10APR07	0	10		RW3040
		18	20MAR07	IUAPRUI	0	18		KW3040
	g Wall CCR-R3 Type B				1			
RW4040	Ret. Wall CCR-R3B - Backfill & Form Platform	18	20MAR07	10APR07	0	18		RW4040
Retainin	g Wall CCR-R3 Type C			1		1		
RW5010	Ret. Wall CCR-R3C - Temporay Works & Excavation	24	25JAN06A	21MAR07	95	2		RW5010
RW5020	Ret. Wall CCR-R3C - Bases	18	20MAR07	10APR07	0	18		RW5020
RW5030	Ret. Wall CCR-R3C - Walls	24	04APR07	02MAY07	0	24		RW5030
RW5040	Ret. Wall CCR-R3C - Backfill & Remove Temp Works	12	03MAY07	16MAY07	0	12		
Slope W	orks Above Retaining Walls CCR-R3D, E & F	1		1				
RE4119	Slope above CCR-R3D- Filter - 3rd Berm to Top	6	20MAR07	26MAR07	0	6	-	RE4119
RE4120	Slope above CCR-R3D - Filling - 3rd Berm to Top	12	27MAR07	10APR07	0	12		RE4120
RE4120	Slope above CCR-R3D- Slope Drainage	24	04APR07	02MAY07	0	24		RE4130
RE4130	Slope above CCR-R3D - Slope Finishes	18	18APR07	09MAY07	0	18		RE4
RE4215	Slope above CCR-R3E&F-Filter- +24mPD to 3rd Berm	6	17MAY07	23MAY07	0	6	-	
RE4216	Slope above CCR-R3E&F -Filling-+24mPD to3rd Berm	12	24MAY07	06JUN07	0	12	-	
RE4219	Slope above CCR-R3E&F- Filter - 3rd Berm to Top	6	07JUN07	13JUN07	0	6		
RE4220	Slope above CCR-R3E&F -Filling -3rd Berm to Top	12	14JUN07	28JUN07	0	12	-	
RE4410	Slope Above CC Rest Garden - Excavate Slope	12	14JUL06A	20MAR07	95	1	-	RE4410
RE4420	Slope Above CC Rest Garden - Benching	12	30SEP06A	21MAR07	80	2		RE4420
RE4430	Slope Above CC Rest Garden - Rock Filling	12	22MAR07	05APR07	0	12	-	RE4430
RE4440	Slope Above CC Rest Garden - Slope Drainage	18	06APR07	26APR07	0	18		RE4440
RE4450	Slope Above CC Rest Garden - Slope Finishes	12	20APR07	04MAY07	0	12		RE4450
Earthwo	rks & Slope Works - CCR-S4							
RE4268	Slope CCR-S4 - Excavate & Bench Upper Slope	48	03JAN06A	23MAR07	90	4		RE4268
RE4280	Slope CCR-S4 - Fill and Compact	24	23FEB06A	30MAR07	60	10		RE4280
RE4285	Slope CCR-S4 - Form New Access Road at Footpath	12	31MAR07	14APR07	0	12		RE4285
RE4290	Slope CCR-S4 - Upper Slope Drainage	18	16APR07	07MAY07	0	18		RE4290
RE4300	Slope CCR-S4 - Upper Slope Finishes	18	08MAY07	28MAY07	0	18		
RE4310	Slope CCR-S4 - Excavate Lower Slope	24	01MAR06A	26MAR07	95	6		RE4310
RE4320	Slope CCR-S4 - Lower Slope Drainage	18	27MAR07	17APR07	0	18		RE4320
RE4330	Slope CCR-S4 - Lower Slope Finishes	24	18APR07	16MAY07	0	24		
		24		TOWATO		27		
	neung Road NTMM Retaining Wall A					10	-	Divisoria
RW6040	NNTM Wall A - Debris Collection Area Drainage	12	20MAR07	03APR07	0	12	-	RW6040
RW6050	NNTM Wall A - Debris Collection Area Access Ramp	12	04APR07	17APR07	0	12	-	RW6050
RW6060	NNTM Wall A - Debris Collection Area Finishes	24	18APR07	16MAY07	0	24		
Drainage	Works							
RR2000	Ching Cheung Rd. W/B - Stormwater in New C/way	36	05MAR07A	29MAR07	50	9		RR2000
RR4000	Ching Cheung Rd. E/B - Stormwater in Exist C/way	24	11APR07	09MAY07	0	24		RR4
Utilities	& Roadworks							
RA2000	Lai Wan Road - Footpath below Slope CCR-S4	24	20MAR07	17APR07	0	24		RA2000
RA3005	Ching Cheung Rd. W/B - S/Gantry FADS4 Founds	18	25AUG06A	30MAR07	50	10		RA3005
RA3010	Ching Cheung Rd. W/B New C/Way - Formation	12	24MAR07	07APR07	0	12	-	RA3010
RA3020	Ching Cheung Rd. W/B New C/Way - Sub-base	12	31MAR07	14APR07	0	12		RA3020
					-		-	RA3040
RA3040	Ching Cheung Rd. W/B New C/Way - Pavement	6	12APR07	18APR07	0	6		
RA3045	Ching Cheung Rd W/B New C/Way -Sign Gantry FADS4	6	03MAY07	09MAY07	0	6	1	RA3
RA3047	Ching Cheung Rd. W/B -Sign Gantry ADS4	6	03MAY07	09MAY07	0	6		RA3
Start Date			23SEP03	P3 File : Ll	142			Sheet 9 of 11
Finish Date			25NOV08		27£			
Data Date			20MAR07				Highways Departme	ant Contract No. HV/2003/01
								ent Contract No. HY/2003/01 ai Chi Kok Viaduct
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Activity	Activity	Orig.	Early	Early	%	Rem.		2007
ID	Description	Durn.	Start	Finish	-	Durn.	MAR	APR
	Ching Cheung Rd. W/B E & M and TCCS Provision	18	18APR07	09MAY07	0	18		R
	Ching Cheung Rd. W/B - Street Lighting	12	10MAY07	23MAY07	0	12		
	Ching Cheung Rd. Road Marking & Signs	6	24MAY07	30MAY07	0	6		RA3080
	Ching Cheung Rd. New E/B - Sign Gantry DS3 Ching Cheung Rd. New E/B Slip Road - E&M +TCSS	18 24	13APR07 28MAR07	04MAY07 25APR07	0	18 24		RA4000
	Ching Cheung Rd. New E/B Slip Road - C/Barriers	18	20MAR07 20MAR07	10APR07	0	18		RA4150
	Ching Cheung Rd. New E/B Slip Road - C/Barriers	10	20MAR07 20MAR07	03APR07	0	12		RA4150
	Ching Cheung Rd. W/B Exist C/Way - Formation	36	20MAR07 20MAR07	03APR07 02MAY07	0	36		RA4100 RA5000
	Ching Cheung Rd. W/B Exist C/Way - Pormation Ching Cheung Rd. W/B Exist C/Way - Sub-base	24	18APR07	16MAY07	0	24		
	Ching Cheung Rd. W/B Exist C/Way - Sub-base	36	03MAY07	13JUN07	0	36		
	Ching Cheung Rd. W/B Exist C/Way - Kebs	12	14JUN07	28JUN07	0	12		
	Ching Cheung Rd. W/B Exist C/Way - C/Barriers	24	14JUN07	13JUL07	0	24		
	Ching Cheung Rd. Resurface Existing E/B C/way	12	10MAY07	23MAY07	0	12		
	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	20MAR07	17APR07	0	24		RA7000
		24	20101/41/07			27		
	Overpass Irrigation Pump House	10	20MAR07	03APR07	0	12		RI1020
	Lai Wan O/pass Irig P/H - Waterproofing NOT USed Lai Wan O/pass Irig Pump House - Building Works	12 75	20MAR07 01MAR07A	14APR07	50	12 22		RI1030
	Lai Wan O/pass Irig Pump House - Mechanical Works	36	16APR07	28MAY07	0	36		KI1030
	Lai Wan O/pass Irig Pump House - Nectrianical Works	36	08MAY07	18JUN07	0	36		
	Lai Wan O/pass Irig Pump House - FS Installation	36	22MAY07	04JUL07	0	36		
		- 30	22MA107	0430107		30		
Landscap			(= 1 4 4) (= =	4044007				
	Landscaping - Formation	72	17MAY07	10AUG07	0	72		
	Landscaping - Paving	65	15JUN07	31AUG07	0	65		
At Grade	e Works - Butterfly Valley Interchange							
Tempora	ry Traffic Management Schemes							
PT2250	TTMS CP Rd-KC N/B for CCR-R4 -Prepare (NOT USED)	16	20MAR07	07APR07	0	16		PT2250
PT2260	TTMS CP Rd-KC N/B for CCR-R4 - CRE End(NOT USED)	6	08APR07	13APR07	0	6		PT2260
PT2270	TTMS CP Rd-KC N/B for CCR-R4 - R/A (NOT USED)	7	14APR07	20APR07	0	7		PT2270
PT2280	TTMS CP Rd-KC S/B - Re-open Slip Road (NOT USED)	0		20APR07	0	0		♦PT2280
PT2288	TTMS CP Rd-KC N/B-Close Loop to CC Rd(NOT USED)	0		20APR07	0	0		♦PT2288
PT2290	TTMS CP Rd-KC N/B for CCR-R4 - Implem(NOT USED)	510*	20MAR07	25NOV08	0	510*	PT2290	
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	20MAR07	10APR07	0	18		PT2200
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	11APR07	16APR07	0	6		PT2210
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	17APR07	23APR07	0	7		PT2220
PT2230	TTMS CP Rd-KC S/B for Paving - Site Preparation	6	24APR07	30APR07	0	6		PT2230
PT2240	TTMS CP Rd-KC S/B for Paving - Implementation	75*	02MAY07	30JUL07	0	75*		PT2240
PT2300	TTMS CP Rd-KC N/B for 11NW-A/C66-Prep for Review	16	20MAR07	07APR07	0	16		PT2300
PT2310	TTMS CP Rd-KC N/B for 11NW-A/C66 - CRE Endorse	6	08APR07	13APR07	0	6		PT2310
PT2320	TTMS CP Rd-KC N/B for 11NW-AC66 - Roadwks Advice	7	14APR07	20APR07	0	7		PT2320
PT2330	TTMS CP Rd-KC N/B for 11NW-A/C66 - Site Prepare	6	21APR07	27APR07	0	6		PT2330
PT2340	TTMS CP Rd-KC N/B for 11NW-A/C66 - Implement	144*	28APR07	18OCT07	0	144*		PT2340
Earthwor	ks & Slopeworks - 11NW-A/C26							
PE1040	Slope 11NW-A/C26 - Finishing Works	12	120CT04A	20MAR07	90	1		PE1040
Earthwor	ks & Slopeworks - 11NW-A/C66							
	Slope 11NW-A/C66 - Hoardings / Fencing	6	28APR07	05MAY07	0	6		PE2000
PE2010	Slope 11NW-A/C66 - Trim Slope	18	07MAY07	26MAY07	0	18		
PE2015	Slope 11NW-A/C66 - Platform for Soil Nailing	18	28MAY07	16JUN07	0	18		
PE2017	Slope 11NW-A/C66 - Soil Nails - Test Nail	12	18JUN07	03JUL07	0	12		
Retaining	Wall CCR-R6 (Value Engineering Design)	1		1	1	1		
	Ret. Wall CCR-R6 - R.C. Walls	48	280CT06A	03APR07	70	12		PW3260
	Ret. Wall CCR-R6 - Fill Behind Ret Wall	36	10JAN07A	24APR07	20	20		PW3070
Drainage	1							
-	C.P.Rd-K.C. S/B - Stormwater Drainage	24	02MAY07	29MAY07	0	24		
	C.P.RdK.C S/B to C.C. Rd E/B - Storm Drainage	36	30MAR07	12MAY07	0	36		
		00	00.07			00		
	New CLP 11Kv Cable Laying in front of CCR-R5	18	26APR07	17MAY07	0	18		
	C.P.Rd. Loop to Slip Road C - Formation	18	26APR07 20MAR07	04APR07	0	18		PR3000
					0			PR3010
PR3010	C.P.Rd. Loop to Slip Road C - Sub-base	12	28MAR07	11APR07	-	12		
art Date			23SEP03	P3 File : LU	J42			Sheet 10 of 11
nish Date ata Date			25NOV08 20MAR07					
							Route 8 - La 3 Month R	ent Contract No. HY/2003/01 ai Chi Kok Viaduct olling Programme 20 March 2007

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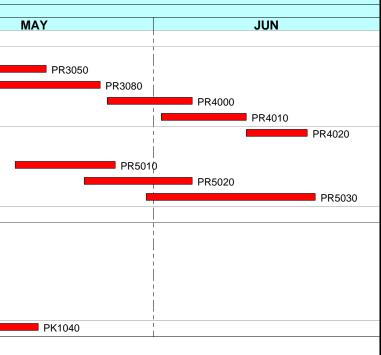
Activity	Activity	Orig.	Early	Early	%	Rem.			2007	7
ID	Description	Durn.	Start	Finish	Comp	Durn.	MAR	APR	2007	
PR3020	C.P.Rd. Loop to Slip Road C - Kerbs	18	05APR07	25APR07	0	18			PR3020	
PR3040	C.P.Rd. Loop to Slip Road C - Pavement	6	26APR07	03MAY07	0	6				PR3040
PR3050	C.P.Rd. Loop to Slip Road C - Street Lighting	12	04MAY07	17MAY07	0	12				
PR3080	C.P.Rd. Loop to Slip Road C - Crash Barriers	18	04MAY07	24MAY07	0	18				
PR4000	C.P.RdK.C. S/B L/H C/Way - Excavate & Format'n	9	26MAY07	05JUN07	0	9				
PR4010	C.P.RdK.C. S/B L/H C/Way - Sub-base	9	02JUN07	12JUN07	0	9				
PR4020	C.P.RdK.C. S/B L/H C/Way - Kerbs	6	13JUN07	20JUN07	0	6			1	
PR5000	C.P.Rd-K.C. S/B to C.C.Rd E/B - Excavate Road	18	05MAR07A	29MAR07	50	9		PR5000	l l	
PR5010	C.P.Rd-K.C. S/B to C.C.Rd E/B - Formation	12	14MAY07	26MAY07	0	12				
PR5020	C.P.Rd-K.C. S/B to C.C.Rd E/B - Sub-base	12	23MAY07	05JUN07	0	12				
PR5030	C.P.Rd-K.C. S/B to C.C.Rd E/B - Kerbs	18	31MAY07	21JUN07	0	18				
PR5100	C.C. Rd. W/B - Sign Gantry FADS7 at P15-P16	18	30MAR07	20APR07	0	18			PR5100	
Kiosk at	Slip Road C		'	'						
PK1010	Kiosk at Slip Rd. C - Building Finishes	24	02JAN07A	07APR07	30	16		PK1010		
PK1015	Kiosk at Slip Rd. C - Provision for E & M Contr'	0		07APR07	0	0		◆PK1015		
PK1020	Kiosk at Slip Rd. C - MVAC Installations	24	20MAR07	17APR07	0	24	le l		PK1020	
PK1030	Kiosk at Slip Rd. C - Electrical Works	24	04APR07	02MAY07	0	24				PK1030
PK1035	Kiosk at Slip Rd. C - FS Installation	24	04APR07	02MAY07	0	24				PK1035
PK1040	Kiosk at Slip Rd. C - Drainage Works	24	18APR07	16MAY07	0	24				

Start Date	
Finish Date	
Data Date	

23SEP03	P3 File : LU42
25NOV08	
20MAR07	

Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 20 March 2007







5-week Rolling Programme of Site Works

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Rev:	-	Programme of	Sile WOIKS					1									nu Dale					
Item	Civil Area	Portion	Work Area	Activity	[8]Type of major equipment			▼ Mar-07 Apr-07														
No.	Olvii Alca	1 ortion	Work Area	Adavity	/ plant to be used	S S	MTWT	FS	S M	тw	TIF	S S	M	тw	TF	S	S M	 TFS	SM	1 T V	VITIE	E S S
							8 19 20 21 22				29 30			3 4		3 7		12 13 14			8 19 2	
1	Works Area	А	DIGJV Site Office	Pesticide spraying	N.A.	R							_	<u> </u>	<u> </u>		<u> </u>	 			0 .0 1	
	Works Area	A	Subcontractor warehouse	Material preparation for cable containment / Cable laying	N.A.																	
	Works Area	A	DIGJV Site Office	Assemble of control cabinet	N.A.		R R	R														
-																						
4	Road T3	G	Road T3	Routine Checkings	Van																	
5	Road T3	G	Road T3 / Road Gantry / underpass	Cable Containment	Scissor lift																	
6	Road T3	G	Road T3 / Road Gantry / underpass	Cable termination	Scissor lift																	
Ű	riodd ro	0					╉┼┼┼┤			+												
7	SHT	H1A, H1B, H1C	SHT (SB,NB, NPB, SPB)	Routine Checkings	Van		╉╌┼╌┼╌┦															
8	SHT	H1B & H1C	SHT(N/B, then S/B)	TCSS Traffic field equipment installation	Scissor lift	R		R														
9	SHT	H1A, H1B, H1C	SHT (S/B & N/B)	Cable laving	Special design lorry	R																
10	SHT	H1C	SHT - CP, LV switch room	Wiring of control cabinet / cable termination	Van			N														
11	SHT	H1A	SHT - NPB/SPB	TCSS equipment cabinet delivery	Van																	
12	SHT	H1A	SHT - NPB/SPB	TCSS equipment cabinet installation	Van																	
13	SHT	H1A, H1B, H1C	SHT - S/B & N/B	CCTV mounting bracket installation	Scissor lift	N																
14	SHT	H1A	FRP inspection, SHT - SPB	Joint site inspection for FRP	Van					++												
15	SHT	H2	SHT - Open road Section	Routine Checkings	Van																	
16	SHT	H2	SHT Open road section	Cable laying	special design lorry	R	RRRR	R														
17	SHT	H2	SHT Open road section	Cable termination	Van	R	RRRR															
18	SHT	H2	SHT Open road section	SCT - Cable testing	Van																	
19	SHT	H3	SHT - RCFE	Routine Checkings	Van																	
20	SHT	H3	SHT - RCFE (S/B first, then N/B)	[1] & [3]Installation of cable containment	Special design lorry	R		R														
21	SHT	H3	SHT - RCFE	Cable laying	Special design lorry																	
	0				opeoial accignionly		╉┼┼┼┤			++												
22	ENT	1, 2 & 3	ENT Tunnel (SB, NB, NPB, SPB, ADB, VB,	Routine checkings	Van											++						
23	ENT	12	Toll Plaza & Butterfly Valley) ENT Tunnel (S/B & N/B)	[3] Cable laying	Special design lorry		╉╌┼╌┼╌┦		+	\blacksquare						+						
24	ENT	12	ENT Tunnel (S/B & N/B)	[3]TCSS Traffic field equipment	Scissor lift															+ +		
25	ENT	12	ENT - CP, LV switch room	[2][3] Cable containment	Van	R				++				-								
26	ENT	11 & 13	ENT - SPB/NPB	Antenna mounting bracket	Van		┫┥┥┥┥			++												
27	ENT	11 & 13	ENT -SPB/NPB (L/P & U/P)	Dismantle of cable conduit	Van	┝╴┝╴				++												
28	ENT	12	ENT - S/B & N/B	Cable Containment	Scissor lift	R				++												
29	ENT	12	ENT - S/B & N/B	Cable testing	Scissor lift			R		++												
30	ENT	13	ENT - Toll plaza, Subway	[3] & [7] Cable laying	Special design lorry																	
31	ENT	11,12 & 13	ENT - ADB	PA's containment / cable laying	Metal scaffolding	N		N														
32	ENT	13	ENT - ADB, 2/F (Computer Rm & Telecom. Rm)	[3] & [7]Installation of TCSS equipment rack	Metal scaffolding			A														
33	ENT	12	ENT - Ventilation Building & Vent. Adit	[3] Cable laying	Van	┢─┣╴	RR	R														- -
34	ENT	l12	ENT - Butterfly valley For Gantry GT105	Joint site re-inspection for civil provision	Van			N		++										+ $+$	+ +	
35	ENT	I1	FRP inspection, ENT - SPB	Joint site inspection for FRP	Van				-+-+	++										++		+
36	ENT	12	ENT - N/B	Joint site inspection for niche door	Van				+	++												+ -
							┓╷╷╷╷╹		+	++												+ -
37	LCKV	J1	LCKV	Routine checkings	Van		╉╌┼╌┼╌┾															
38	LCKV	J2	LCKV - Section D (Cable duct at parapet)	Joint site inspection for civil provision	Van		N									\square						
39	LCKV	J1 & J2	LCKV - Gantry	[3] & [7] TCSS's field equipment installation	Special design lorry											\dagger						
40	NWT	B&C	NWT (E/B, W/B & WEB)	Routine checkings	Van	┛┛																
41	NWT	B	NWT - W/B	[3]Cable containment installation	Scissor lift	↓ 	RRRR		┛		\rightarrow							\rightarrow		+ $+$	+ +	⊣_
42	NWT	В	NWT, E/B & W/B	[3] Cabling remedial work	Special design lorry			R												++	+ +	_ ↓_₽
43	NWT	B	NWT, E/B & W/B	[3]TCSS Traffic field equipment installation	Scissor lift													\rightarrow			++	_
44	NWT	В	NWT, E/B, W/B & CP	[2]Cable termination & testing	Scissor lift		R	R												++	+ +	_ ↓_₽
45	NWT	В	NWT, E/B & W/B	[2] & [8]Cable bracket and cable laying for leaky coaxial cable	Scissor lift		R															
46	NWT	С	NWT, WCB G/F - 2/F	[3]Cable containment installation	Metal scaffolding																	
47	NWT	В	NWT - E/B & W/B	Joint site inspection for cable containment	Van	1 17		N														

Legend :

Planned activity = Work Done = Public Holiday

R - Re-scheduled N - New activity A - Awaiting of site access /civil provision

Distribution: Arup-Johnny Mac, Hara, Alex C, Franco L, Hamlyn K, Joseph C, KT Chan, Patrick L, Simon Cheung,

Philip C, PF Li, Sharon H, Tony C, Wilson W, Winnie M, Donald L, Johnny L, Kenny C, Thomas Wong

Remark: The schedule only shows the anticipated works planned and shall be subject to changes which will be reported by daily labour forecast on ad-hoc bases.

Note:

- [2] Works Subject to Traffic Tube arrangement
- [3] Works subject to condition of site access & civil provision.

- [5] Works subject to coordination with other services



App L_TCSS programme (Mar 07)

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

Record Date: 23-03-2007

[1] Works depends on spatial co-ordination among related Main Contractor and TCSS.

[4] Works subject to SCURVY to relocate their containers in N/B

[6] Works depend on ENT's contractor to complete their raised floor installation

[7] Works depend on Civil Contractor to complete / rectify their provision

[8] Works subject to the site access of the major equipment.

APPENDIX M COMPLAINT LOG

Appendix M - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Kwai Tsing District Officer (KTDO) recently received a public noise complaint about construction noise generated from the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. KTDO referred the complaint to the Highways Department (HyD) on the same day. HyD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 18 March 2004.	 Based on the information provided by the ER, the construction activities conducted in the vicinity of Nob Hill in the period between 2 and 18 March 2004 were: Item 1 – Breaking off existing planter and excavate trial trench to expose underground utilities (using one to two backhoes) Item 2 – Erect rock fall fence & forming platform for predrilling (using one backhoe and occasionally one crane lorry) Item 4 – Excavate further to expose all underground utilities (using hand tools) Item 5 – Pre-drilling works (using one drilling rig) 	
40318	Nob Hill	18 March 2004	The complaint was raised by the Citybase Property Management Ltd. (the management company of Nob Hill) and the Secretarty of Nob Hill Owners Committee (Mr. Kevin Tse) about construction noise generated from the R8-LCKV Project at the work areas near Nob Hill. Mr. Kevin Tse mentioned that residents living in Nob	Considering the scale of work and the PMEs adopted, the ET believed that the construction noise impact at Nob Hill from the above construction activities of R8-LCKV was not significant. The bored piling work (Item 3) using one crawler crane and one oscillator was started on 19 March 2004, which was two days after the issue date of this complaint, so this activity was not considered in this report.	Closed
			Hill have greatly been affected by the noise impacts generating from the R8- LCKV construction works. He also requested relevant government departments to consider installing noise barrier along Ching Cheung Road and to work out possible measures to minimize the noise nuisances to the	According to the EM&A Manuals, Nob Hill was not selected as Noise Monitoring Location (NML) for the Project. Therefore, no direct noise monitoring data could be provided for the complaint investigation. However, there was no noise level exceedance recorded at the nearby NML (NM4 – Mei Foo Sun Chuen, Phase 5) since the commencement of the project according to ET's inventory.	
			residents living in the vicinity.	During ET's weekly environmental site inspections on 3, 10, 17 March 2004, no serious noise nuisance induced by the Project works was observed at the sites near Nob Hill. Based on the joint site visit with the representative of HyD, IEC, RSS and ET to the Nob Hill on 30 March 2004, the major noise source at Nob Hill was identified as traffic noise on Ching	

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ku				 During ET's weekly environmental site inspections on 17, 24 & 31 March 2004 and 7 April 2004, no serious noise nuisance induced by the Project works was observed at the construction sites near Nob Hill. Based on the joint site visit with the representative of HyD, IEC, RSS and ET to the Nob Hill on 30 March 2004, the major noise source at Nob Hill was identified as traffic noise on Ching Cheung Road, which is located very close to this building, especially at or above the Podium Floor (i.e. 5/F). Based on the information obtained, this noise complaint is considered not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the 	Status
				 sensitive area; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site. 	
40710	Pier P7 in Portion E1	10 July 2004	A public complaint was raised on 30 th June 2004 regarding the washout of muddy water from the site area of the Route 8 – Lai Chi Kok Viaduct (R8- LCKV) Project, at Pier P7 onto Lai Chi Kok Road. The complaint was referred to the RSS on 3 rd July 2004 and subsequently	Based on the information provided by the RSS, the spillage of muddy water was in fact due to a burst in a temporary water pipe being utilized in the piling operations at Pier P7 in Portion E1. Emergency remedial works were undertaken preventing further spillage of muddy water. The remaining ponding water within the works area arising from the burst was all removed from the area on 5 th July 2004.	Closed
			referred to the ET Leader of the Project on 10 th July 2004. The complaint was raised by Mr. Chan,	During ET's weekly environmental site inspection on 14 th July 2004, no serious water quality nuisance induced by the Project works was observed at the construction sites near Pier P7. It was also noted that the back of profile barriers along the site boundary had been sealed up by cement as preventive measures.	

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint Cheung Road and Mei Lai Road / Lai Wan Road opposite to Mei Foo Sun Cheung (Phase 5) and Lai Chi Kok Public Library.	 NM4: R/F of Mei Foo Sun Chuen (Phase 5) NM8a: M/F of Nob Hill NM8b: 3/F of Nob Hill Air Quality (1-hr TSP / 24-hr TSP) Monitoring AM2: R/F of Lai Chi Kok Sports Centre No Action / Limit level exceedance was identified in July 2004. <i>Environmental Site Inspection</i> During the ET site inspections on 8th, 14th and 20th July 04, no major environmental deficiency with regard to noise and air quality was identified by the auditors. <i>Conclusions</i> Based on the RSS's information, environmental monitoring results as well as the observations made during site inspections, this complaint is considered to be invalid and not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise and dust impacts, such as: To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To turn off any idle equipment on site. 	Status
				 To turn on any full equipment on site. To cover excavated dusty materials by impervious sheeting; To provide water spray for haul roads, loading/unloading and concrete breaking operations; To perform wheel wash for every vehicle immediately before leaving the site. 	
50215	Mei Foo Sun Chuen, Phase 5	15-Feb-05	A public complaint was raised on 8 th Feb 2005 regarding construction noise	Construction Activities	Closed
	(Retaining Wall CC-R3)	(by ET Leader)	from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project	During the weekly site inspection on 17 Feb 05, piling work was being conducted at the concerned. The major powered	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Lug Kei.		Acceived Date	near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff on 14 th Feb 2005 and subsequently referred to the ET Leader of the Project on 15 th Feb 2005. The complaint was raised by a resident in Mei Foo Sun Chuen, regarding the noise generation from the piling work at Retaining Wall CC-R3, adjacent to Po Leung Kuk Tong Nai Kan College.	 mechanical equipment (PME) in operation included a mobile crane, an air compressor, a reverse circulation drill and a generator. In view of the separation of the site area and the residential building (around 40 m) and also the high traffic noise from Ching Cheung Road as well as Mei Lai Road, the noise generated from the operation of the PME was believed to be insignificant. <i>Environmental Monitoring</i> The noise monitoring results at Station NM4 (Mei Foo Sun 	Status
				Chuen, Phase 5) for the last 3 months were reviewed in order to evaluate the noise impact from the Project on the noise sensitive receiver. The measured noise levels in last three threes were ranged from 70.8 to 75.8 dB(A). It was observed that the measured noise levels were well within the range of baseline noise levels (69.2 to 75.8 dB(A)). The corrected construction noise levels were found to be ranged from 63.5 to 71.5 dB(A), which were well below the noise criterion of 75 dB(A).	
				Conclusions	
				Based on the information obtained and the noise monitoring results, this complaint is considered to be invalid and not due to the construction activities of the Project.	
				Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impacts.	
50322	Seung Lai House, Wah Lai Estate	11-Mar-05 (by EPD)	Environmental Protection Department (EPD) received a public noise complaint on 11 Mar 05 about daytime	Construction Activities As advised by the RSS, the major construction work during 25	Closed
	(Slope S1)	22-Mar-05 (by ET Leader)	construction noise generation from R8- LCKV. EPD subsequently referred the	Feb 05 to 11 Mar 05 (2 weeks before the date of complaint) in the vicinity of Wah Lai Estate included excavation work, soil	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			complaint to the Environmental Team (ET) Leader of the Project on 22 Mar 05. The complaint was raised by a resident of Seung Lai House of Wah Lai Estate, regarding the daytime (0800-1800 hrs) construction noise generated from the slope work and road work of R8- LCKV Project. As advised by EPD, the complainant is living on 20/F or above in Seung Lai House.	 nail work and installation of u-channel and manholes. The major powered mechanical equipment included excavators, drilling machine and air compressor. In view of the separation of the site area (Slope S1) and the Seung Lai House (around 140 m) and also the traffic noise from Ching Cheung Road, the noise generated from the construction activities at Slope S1 was believed to be insignificant. <i>Environmental Monitoring</i> Ad-hoc noise measurement was conducted at Seung Lai House on 30th Mar 05 and the measured noise level (Leq-30min) was 66.9 dB(A), which was well below the criterion for daytime construction noise of 75 dB(A). The construction noise level (with reduction of background noise level) is expected to be even lower. <i>Conclusion</i> Based on the information obtained and the noise measurement results, this complaint is considered not justifiable. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impact. 	
50330, 50331, 50404 & 50407	Wah Lai Estate	30-Mar-05, 31- Mar-05, 4-Apr- 05 & 7-Apr-05 (by ET Leader via RSS)	Four public complaints were lodged by the residents of Wah Lai Estate regarding the construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Wah Lai Estate. The complaints were	<i>Construction Activities</i> The site of concern was likely to be Slope S1, which is around 140 m away from Wah Lai Estate. The major construction work at Slope S1 included trimming of slope, soil nail work and erection of u-channels and step channels.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			referred by the Resident Site Staff to the Environmental Team (ET) Leader on 30 th , 31 st March, 4 th and 7 th April 2005, respectively.	Investigation/Milgation Action Environmental Monitoring Ad-hoc noise measurement was conducted at Seung Lai House on 30 th Mar 05 and 7 th Apr 05 and the measured noise levels (Leq-30min) were ranged from 66.9 to 69.1 dB(A), which were well below the criterion for daytime construction noise of 75 dB(A). The construction noise level (with reduction of background noise level) is expected to be even lower. Conclusion Based on the results of the ad-hoc noise measurements at Wah Lai Estate, no exceedance of daytime noise criterion of 75 dB(A) was recorded. The complaints lodged are therefore considered not justifiable. Mitigation The Contractor agreed to arrange the noisy activities to commence after 8:00 am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:00 am).	
50404-v2	Mei Foo Sun Chuen	4-Apr-05 (by ET Leader via RSS)	A public complaint was raised on 1 st April 2005 regarding construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff and the ET Leader on 4 th	<i>Construction Activities</i> The site of concern was likely to Retaining Wall CC-R3, adjacent to Po Leung Kuk Tong Nai Kan College. The major construction works at this area included bored piling works and excavation works.	Closed

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint The complainant was particularly concerned about the fugitive dust emission during rock / concrete breaking activities.	Investigation/Mitigation ActionObservationsOn 1 Jun 05, one of the environmental deficiencies noted by the ET was about fugitive dust emission from breaking activities at CCR-R3. The Contractor was reminded to provide sufficient dust mitigation measures for the breaking works. Immediate action was taken by the Contractor to apply water spray for the works as observed during the audit session.On 9 Jun 05, the breaking works were still being taken at CCR- R3. Water spray as a dust mitigation measure was being adopted by the Contractor during the audit. No observable dust emission was noted from the breaking works or other site activities.On 15 Jun 05, the same area was re-inspected due to the receipt of the complaint from EPD. The demolition works had been finished and no other dust emissive activity was being taken. No other dust source from the construction site was observed during the inspection.ConclusionBased on the observations noted during our site inspections, this 	Status
				However, corrective action had been taken by the Contractor and the situation was found improved during the follow-up inspections.	
50721	Hei Lai House, Wah Lai Estate	21-Jul-05 (by ET Leader)	The complaint was lodged by a resident of Hei Lai House of Wah Lai Estate through a Legislative Council member. The complaint was about construction noise nuisance caused by rock breaking work, which claimed to be started from 8:30am daily, carried out at Ching Cheung Road near Wah Lai Estate.	Site Activities The slope work at Slope S1 was likely to be the activity of concern. The work at Slope S1 recently included the operation of excavator mounted breakers, excavators and dump trucks. The time period of concern was within normal working hours (7am to 7pm) on a weekday not being a public holiday. The noise criterion is 75 dB(A) for domestic premises.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The complainant hoped that the rock breaking work could start later i.e. be carried out from noon to afternoon and the site could be fully enclosed. The Environmental Team (ET) of the Project received the complaint on 21 July 2005 and forwarded it to the Resident Site Staff (RSS) to obtain necessary information.		
51107	Ching Cheung Road near Mei Foo Sun Chuen	7-Nov-05 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 7 November 2005. According to EPD, the complaint was	The site of concern was likely to be CCR-S4 and CCR-R3. According to RSS's records, bored piling works and soil nail drilling at CCR-R3, excavation works at CCR-S4 in the concerned period. <i>Site Inspection</i> After receipt of the complaint, an ad-hoc site inspection was carried by ET on 9 November 2005 and the following	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			raised by a resident of Mei Foo Sun Chuen. The complaint was about dark smoke, dust and noise nuisance caused by the construction work of R8-LCKV near Mei Foo Sun Chuen.	 observations were made: 1. Breaking activities were undertaken at CCR-R2 and R3. Continuous water spray was applied by the workers for dust suppression. Movable noise barriers were erected to alleviate the noise impact. 2. The haul roads and exposed works areas were observed wet. A water sprinkler was installed at the CCR-S4 for water spraying. 3. Most of the slope was shot-creted to avoid wind erosion. 4. Bored piling work was carried out near the site exit of CCR-R3. Since bored piling mainly involves handling of wet materials, dust nuisance causing by this type of work is not anticipated. Gas exhaust from the machines was visually clear and no dark smoke was identified. <i>Environmental Monitoring</i> Air quality monitoring was conducted at Lai Chi Kok Sports Centre and noise monitoring is conducted at Mei Foo Sun Chuen. No exceedance was recorded for both monitoring. <i>Conclusion</i> Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable. 	
60118	Lai Po Road near Hoi Lai Estate	18-Jan-06 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 18 January 2006. According to EPD, the complaint was lodged by a resident of Hoi Ming	 Site Activities According to the RSS's records, night works were carried out by the Contractor between 2000 hrs on 14 January 2006 and 0530 hrs on 15 January 2006: Delivery of segment from storage yard near Pier P5/L to Pier 15 for erection; Stressing to temporary PT bars of segments at Pier B3. The above night works, which involved operation of tractor, 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Iul.			House of Hoi Lai Estate. The complaint was about construction noise nuisance caused by construction work of R8-LCKV carried out at Lai Po Road near Hoi Lai Estate. The noise nuisance was noted since 14 January 2006 during the periods from 2330 hrs to 0600 hrs.	mobile crane, lifting frame and generator, were undertaken under the two construction noise permits CNP no. GW-RW0739-05 and GW-RW0740-05. <i>Environmental Monitoring</i> In order to evaluate the noise impact onto the residents of Hoi Lai Estate, nighttime noise monitoring was carried out on 18 January 2006 at 23:00. The above monitoring results revealed that the measured noise levels were close to the reference background levels. After correction of the mean background level, all corrected noise levels were below the noise criterion of 55 dB(A). <i>Conclusion</i> Based on the information collected and the monitoring results, the complaint is considered not justifiable. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community.	Status
60119	Mei Foo Sun Chuen (Phase 5)	18-Jan-06 (by the ET Leader)	 Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 19 January 2006. According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen via a Sham Shui Po District 	 Site Activities The site of concern was likely to be CCR-S4, CCR-R2 and CCR-R3. According to RSS's records, site activities included: Trimming of existing rock slope at CCR-S4; Excavation and rock dowel installation at CCR-R2; and Construction of cable trough at CCR-R3 by CLP's contractor. Site Inspection After receipt of the complaint, an ad-hoc site inspection was carried by ET on 19 January 2006. No environmental deficiency 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Council Member's Office. The complaint mentioned that residents of	regarding construction dust was identified during the inspection.	
			Mei Foo Sun Chuen Stage 5 were adversely affected by construction dust	Environmental Monitoring	
			caused by the Route 8 work carried out at the slopes adjacent to Ching Cheung Road.	All monitoring results in Jan 06 revealed that no exceedance was recorded for the air quality (1-hr and 24-hr TSP) criteria.	
				Contractor's Action	
				 The Contractor of R8-LCKV had implemented several dust mitigation measures: Haul roads, exposed slope surface and soil stockpiles were watered regularly by hose pipes and sprinklers; Idled exposed slope were shot-creted; and Watering was applied for the dust emissive activities, such as loading and unloading of dusty materials, excavation and breaking works. 	
				Conclusion	
				Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable. Nevertheless, the Contractor was reminded to keep on the dust mitigation measures being implemented and step up the measures if necessary.	
60213	Hoi Lai Estate (Lai Po Road)	77 HAD 116	Four environmental complaints were received in this reporting month. Three of them were referred by EPD on 13 th , 20 th and 22 nd Feb 06 and the other one was referred by HyD via MHJV on 16 th Feb 06.	<i>Site Activities</i> Since around mid-January 2006, segments were transported to Piers P15 and B4, under the permission of construction noise permit (CNP).	
60216 60220 60222			All about construction noise due to night works at Lai Po Road near Hoi Lai Estate.	It was suspected that the sound of concern was generated from tractors for precast segment transportation. In view of the safety of workers, an alert sound and flashing are maintained during backing action of the tractors.	Closed
				Site Inspection	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				An ad-hoc inspection was carried out by the ET on 16 Feb 06 from 00:30 to 02:30 am. Noise measurement was carried out during the inspection to evaluate the noise impact onto the residents of Hoi Lai Estate. During the monitoring, the major noise source identified was the road traffic noise from Sham Mong Road and Lai Po Road. No alarm sound or alike from the construction equipment was noted. The above monitoring results revealed that the measured noise levels were close to the reference baseline level. After correction of the mean background level, most of data were below the noise criterion of 55 dB(A).	
				Conclusion	
				Based on the information collected and the monitoring results, the complaints are considered not justifiable.	
				It was suspected that the nuisance was caused by the alert sound of tractors during backward movement which servers as a safety measure. However, the RSS and the Contractor are considering the possibility of lowering the alert sound level or replacing by a less disturbing pitch in order to minimize the noise nuisance to residents of Hoi Lai Estate.	
			Environmental Protection Department	Site Activities	
			(EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the ET Leader on 20 April 2006.	According to the Resident Site Staff (RSS)'s records, the construction works were carried out by the Contractor from daytime to 2230 hours on 14 April and from 2000 hours to 0600 hours16 April 2006.	
			The complaint is about construction noise nuisance caused by construction work of night works at location near both Hoi Lai Estate and West Kowloon Highway between 14 and 17 April 2006.	 The construction activities near Hoi Lai estate included: - Erecting segments at column PA/R; Stressing of top tendon wires of segments and erecting segments at column P1/R; and Transporting segments to storage yard. 	

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

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The Integrated Complaint Centre (ICC) of HKSAR received a public complaint	not justifiable. However, the Contractor was reminded to continuously implement their practice to prevent noise nuisance generation due to the construction works. The site situation will be continuously reviewed by ET and RSS also. Site Activities	
			about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LVKC). Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 9 June 2006. The complaint was about the noise generated from rock excavation work from 9 a.m. to 6 p.m. at the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun	As advised by the RSS, the site of concerned area was likely to be CCR-S4. According to the RSS's records, 1 number of excavator mounted breaker was unsed to carry out rock breaking work at CCR-S4 during the period between 9 a.m. and 6 p.m. The excavation and rock breaking activities at the concerned area will likely be completed by end of September 2006.	
			Cheun).	Contractor Action	
60609	Near Phase 5 of Mei Foo Sun Chuen	9-Jun-06 (by ET Leader)		The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity.	Closed
				Site Inspection and Environmental Monitoring An ad-hoc inspection was carried out by ET on 14 June 2006 from 1:30 p.m. to 4:30 p.m. and 16 June 2006 from 4:00 p.m. to 4:45 p.m.	
				During the inspections, the construction activities at CCR-S4 included handheld breaking, excavation and rock breaking activities were carried out at CCR-S4. However, the temporary noise barriers were erected at the abovementioned location as same as RSS's mentioned.	
				Noise measurement was carried out during the inspection to	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				evaluate the noise impact onto the residents of Mei Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5).	
				The measured monitoring results were close to the reference baseline level. After correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A).	
				Conclusion	
				Base on the information collection and the monitoring result, the complaint was considered not justifiable.	
				The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the ET.	
60626	Near Phase 5 of Mei Foo Sun Chuen	26-Jun-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through a facsimile on 12 June 2006 about an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 26 June 2006. According to the explanation from the RSS, this complaint was indeed the same as that received by the ET on 9 June 2006. The complaint initiated the	 Site Activities As advised by the RSS, the site of concerned area was likely to be CCR-S4. According to the RSS's records, 1 number of excavator mounted breaker was unsed to carry out rock breaking work at CCR-S4 during the period between 9 a.m. and 6 p.m. The excavation and rock breaking activities at the concerned area will likely be completed by end of September 2006. Contractor Action 	Closed
			complaint verbally to the ICC on 8 June 2006 and then also issued a facsimile to the ICC. The facsimile was transferred to the RSS on 12 June 06	The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			and eventually reached the ET on 26 June 2006.	Site Inspection and Environmental Monitoring	
			The complaint was about the noise generated from rock excavation work from 9 a.m. to 6 p.m. at the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Cheun).	As the complaint was identical to the one received on 9 June 06 by the ET, the ad-hoc inspections carried out on 14 June 2006 from 1:30 p.m. to 4:30 p.m. and 16 June 2006 from 4:00 p.m. to 4:45 p.m. were still applicable to this report. In addition, further ad-hoc inspections were carried out on 28 June 2006 from 1:30 p.m. to 4:00 p.m. and 3 July 2006 from 9:30 a.m. to 11:30 a.m.	
			This complaint was made by the same complainant to the ICC through two different channels (by phone and by facsimile) and the ET of the Project was firstly notified on 9 June 2006. A complaint investigation report was	During the aforesaid inspections, the construction activities at CCR-S4 included handheld breaking, excavation and rock breaking activities were carried out at CCR-S4. However, the temporary noise barriers were erected at the abovementioned location.	
			complaint investigation report was issued on 22 June 06. As the ET received this separate complaint after the issue of the complaint investigation report and considered the nature of the complained event (general construction during daytime but not single event at a particular moment), the complaint investigation procedures were initiated.	In addition to the noise measurement conducted on 14 and 16 June 2006, further noise measurement was carried out on 30 June 2006 to evaluate the noise impact onto the residents of Mei Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5). Noise measurement carried out on 30 June 06, after correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A)	
			investigation procedures were initiated.	Conclusion	
				This complaint was identical to the one received by the ET on 9 June 06 because the complainant addressed the complaint to the ICC through two different channels (by phone and by facsimile). The facsimile was transferred to the RSS on 12 June 06 and eventually reached the ET on 26 June 06.	
				Base on the information collection and the monitoring result, the complaint was considered not justifiable.	
				The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were	

Log Ref. Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ker. Location		The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 August 2006 about an environmental nuisance generated from	 below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works. The environmental conditions of the site will be continuously reviewed by the RSS and the ET. Site Activities According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and 	Status
Near Mei Foo and Lai King Hill Road	30-Aug-06 (by ET Leader)	Route 8 – Lai Chi Kok Viaduct 9R8- LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 30 August 2006. The complaint was concerned about dust generated from the rock drilling works affected the nearby ASRs. The complaint described that spraying of water during rock drilling works was not implemented.	 would likely last for at least 6 months. <i>Contractor Action</i> After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows:- Enclosing the rock dowel drilling work on three sides, i.e. top, back and the left hand side, with tarpaulin sheets; Spraying of water at the hole during drilling; Wrapping the head of the drilling rig with a wet thick towel. <i>Site Inspection and Environmental Monitoring</i> During the monthly site inspection on 4th September 2006, rock drilling at the slope CCR-S1 was carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Water was sprayed continuously at the drilling hole and head of the drilling rig was enclosed with a wet thick towel. All the mitigation measures mentioned by the RSS were implemented. <i>Conclusion</i> Base on the information collected and the monitoring results, the complaints are considered not justifiable. It was because there was no exceedance of the air quality 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works. However, the Contractor was still reminded to take sufficient dust mitigation measures to minimize the environmental impact	
				 on the nearby community: Enclose dusty activity such as rock drilling with tarpaulin sheet; 	
				 Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials; 	
				• Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
			Environmental Protection Department (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 31 August 2006.	<i>Site Activities</i> According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and would likely last for at least 6 months. <i>Contractor Action</i>	
60831	Between Lai Wan Road and Lai King Hill Road	and 31-Aug-06		With reference to RSS's site diary, all site activities including drilling works at the concerned area were conducted between 8:00 and 18:00 daily. Ad hoc site observation carried out by the RSS confirmed that no construction activity was carried out after 18:00.	Closed
			anomargou to enting roud respectively	As advised by the RSS, tarpaulin sheet covering and water spraying were provided by the Contractor to mitigate the dust nuisance generated from the rock drilling works. On 31 August 2006, the Contractor was further enhanced the dust mitigation measures as follows:-	
				• Enclosing the rock dowel drilling work on three sides, i.e.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				top, back and the left hand side (LHS) with tarpaulin sheets;	
				• Spraying water at the hole during drilling;	
				• Wrapping the head of the drilling rig with a wet thick towel.	
				Site Inspection and Environmental Monitoring	
				During the monthly site inspection on 4 th September 2006, rock drilling at the slope CCR-S1 was carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Water was sprayed continuously at the drilling hole and head of the drilling rig was enclosed with a wet thick towel. All the mitigation measures mentioned by the RSS were implemented.	
				Conclusion	
				Base on the information collected and the monitoring results, the complaint was considered not justifiable.	
				It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works. No construction activities were carried after 18:00 in the period mentioned by the complainant. In addition, no wastewater discharge was observed.	
				However, the Contractor was still recommended to take the following mitigation measures to minimize the environmental impact on the nearby community:	
				Dust Nuisance	
				• Enclose dusty activity such as rock drilling by tarpaulin sheet;	
				• Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials;	
				• Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Rei.	Location			Construction Noise The Contractor was reminded that construction activities during restricted hours could only be carried out with a valid Construction Noise Permit (CNP). In addition, appropriate noise mitigation measures described in the CNP should be implemented in order to minimize the noise impact on the nearby noise sensitive receivers. Wastewater Discharge • Fill up the gaps under the footings of hoarding fence along Lai King Hill Road so as to prevent spillage of muddy water during heavy rain onto the existing road. The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team through site inspections and monitoring exercises.	514143
60925	Near Ching Cheung Road, Nob Hill and Mei Lai Road	25-Sep-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 September 2006 about the an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8- LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 25 September 2006. The complaint was concerned about the noise generated from the construction works after 19:00 at the area near Ching Cheung Road, Nob Hill and Mei Lai Road	 Site Activities According to RSS's record, rock dowel installation for slope stabilization at the Slope CCR-S1 was commenced on 22 August 2006 and would last for at least 6 months and the first batch of rock drilling works at the Slope CCR-S4 was commenced on 19 September 2006 and completed on 23 September 2006. <i>Contractor Action</i> After receiving the complaint, the Contractor has further enhanced the noise mitigation measures as follows:- Placing of a wooden box to cover the head of drilling; Spraying of water at the hole during drilling and erecting of nylon sheets; Providing silent type drilling rigs for the drilling works at both Slopes CCR-S1 and CCR-S4 <i>Site Inspection and Environmental Monitoring</i> 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				During the weekly site inspection on 27 September 2006, rock drilling at the Slope CCR-S1 was not carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Temporary noise barrier was erected at the working platform of the Slope CCR-S1.	
				The ET also undertook an ad hoc site inspection at the concerned areas after 19:00 on 27 September 2006. No construction activities were observed and noise monitoring was not conducted.	
				Conclusion	
				Base on the information collected and the monitoring results, there was no exceedance of the noise monitoring results and noise mitigation measures were implemented by the Contractor during the rock drilling works.	
				However, the Contractor was still reminded to carry out construction activities only within the permitted working hours (i.e. $07:00 - 19:00$ on weekday) and to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community:	
				• Provide silent type drilling rigs for the drilling works;	
				Placing of wooden box to cover the head of drilling;Apply water spraying for at the hole during drilling;	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
61025	Lai Chi Kok Road Flyover near PCCW building	25-Oct-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 th October 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently	<i>Site Activities:</i> According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 th and 20 th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator.	Closed

Log Ref. Locati	on Received Date	Details of Complaint	Investigation/Mitigation Action	Status
	on Received Date	Details of Complaint referred the complaint to the ET Leader on 25 th October 2006. The complaint was concerned about the noise nuisance generated from workers and construction vehicles during the mid-night between 0100 and 0200 on both 19 th and 20 th October 2006 at Lai Chi Kok Road Flyover near PCCW building.	Investigation/Mitigation ActionContractor ActionAccording to RSS' record, acoustic material wrapping the headof chain blocks and hessian bags placing on ground arounddropped onto ground.Environmental MonitoringAn ad-hoc site observation and noise monitoring at Hoi FaiHouse of Hoi Lai Estate were conducted by the Contractor on26 th October 2006 between 0100 and 0130. The ET also carriedout an ad-hoc inspection on 28 th October 2006 from 0100 to0200. During the inspection, segment erection work was carriedout at Pier P5 to P6, which involved the operation of mobilecrane and movement of lorry and trucks.During the monitoring, the major noise source identified was theroad traffic noise. The monitoring results revealed that themeasured noise levels were close to the reference backgroundlevels. After correction of the mean background level, allcorrected noise levels were below the noise criterion of 55 dB(A) which consists with the noise monitoring results from theContractor.Contractor.During although the monitoring results complied with thenoise criteria.Nevertheless, the Contractor was reminded to take sufficientnoise mitigation measures to minimize the environmental impacton the nearby community:• To strengthen management on worker's working manner,such as avoiding dropping materials on ground;• No hammering is allowed during restricted hours; and <td>Status</td>	Status

Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			reviewed by the Resident Site Staff and the Environmental Team.	
Pier C13 and C14 at Lai Wan Road Overpass	3-Nov-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 28 th October 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 3 rd November 2006. The complaint was concerned about noise generated from the general cleaning work of deck surface using water jet between Pier C13 and C14 at Lai Wan Road Overpass, at the evening of 28 th October 2006.	 Site Activities According to the RSS's record, there is a CNP (CNP no. GW-RW0563-06) at the concerned location. Construction activities were allowed to be carried out between 19:00hr and 23:00hr (any day not being a general holiday) under the CNP. Environmental Monitoring During the weekly site inspections in October 2006, no non-compliance or observation on noise was recorded. Accordance to the EM&A program, two noise monitoring stations at Nob Hill, namely (NM8a and NM8b), have been set up in order to monitor the noise level generated from the construction activities. The Station (NM8b) is strongly influenced by road traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check for construction noise. All measured value were lower than the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in October 2006. Moreover, based on our site observation record during monitoring, road traffic noise from Ching Cheung Road was the major noise source. Conclusion Based on the information collected, the complaint is considered not justifiable. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: As the general cleaning work could be carried out during normal working hours (i.e. 07:00 to 19:00hr) instead as the work was not critical. RSS would remind the Contractor to programme their works better in order to minimize nuisance to nearby residents. 	Closed
	Pier C13 and C14 at Lai Wan	Pier C13 and C14 at Lai Wan 3-Nov-06 (by ET Lorder)	Pier C13 and C14 at Lai Wan 3-Nov-06 Pier C13 and C14 at Lai Wan 3-Nov-06 Pier C13 and C14 at Lai Wan 3-Nov-06	Pier C13 and C14 at Lai Wan Road Overpass

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location Area near Lai Chi Kok Swimming Pool	21-Nov-06 (by ET Leader)	Details of Complaint The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 18 th November 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 21 st November 2006. The complaint was concerned about noise generated from the construction works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming Pool.	Investigation/Mitigation ActionTeam.Site ActivitiesAccording to RSS's record, rebar fixing, formwork erection, placing concrete and preparation work for construction joint were carried out at the concerned site during the period of 13th to 18th November 2006 and the construction works within the mentioned period were occasionally finished at 18:30.As advised by the RSS, the RSS has recommended the Contractor to finish the construction works at the concerned areas before 18:00 in order to minimize the noise nuisance to the public.Environmental MonitoringDuring the weekly site inspections in November 2006, no non- compliance or observation on noise was recorded.Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) and two noise monitoring stations at Nob Hill, namely (NM8a and NM8b), were set up in order to monitor the noise level generated from the construction activities. The Station (NM8b) is strongly 	Status

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				construction works at the concerned areas before $18:00$ and to carry out construction activities only within the permitted working hours (i.e. $07:00 - 19:00$ on weekday).	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
			The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 17 th November 2006 regarding dust and noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 21 st November 2006. The complaint was concerned about dust and noise generated from the construction works opposite Tong Nai Kan College in the past years.	<i>Site Activities</i> According to RSS's record, construction works adjacent to Tong Nai Kan College in the past years included the construction of Retaining Wall CCR-R3 and Slip Road D.	
	Construction works opposite Tong Nai Kan College	21-Nov-06 (by ET Leader)		As advised by the RSS, noise and dust mitigation measures such as provision of noise barriers and acoustic materials at drill pit, dust suppression system and water browser were provided in order to minimize the noise and dust nuisance generated from the above mentioned construction activities.	
				Environmental Monitoring	
61121-2				During the weekly site inspections in November 2006, no non- compliance or observation on noise and air at the concerned site was recorded.	Closed
61121-2				Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) and one air monitoring station at Lai Chi Kok Sports Centre (AM2), were set up in order to monitor the noise and dust level generated from the construction activities.	Closed
				The monitoring results revealed that no exceedance was recorded for the noise and air quality (1-hr and 24-hr TSP).	
				<i>Conclusion</i> Base on the information collected and the monitoring results, the complaint was considered not justifiable.	
				However, the Contractor was still reminded to continuously implement their practice, such as providing noise barrier with	

Log Ref. Locatio	on Received Date	Details of Complaint	Investigation/Mitigation Action	Status
		Environmental Protection Department	acoustic materials at drill pit and applying water spraying for any dust emissive activities to minimize the noise and dust nuisance generated from these construction activities. The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises. Site Activities	
61205 Banyan Ga	arden 5 th December 2006 (by ET Leader)	 (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 5th December 2006. The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 29th November 2006. 	 According to RSS's record, a catchfan was moved from bay (AL-62) to (AL-58) from 22:00 to 02:00hr. Installation of catchfan at parapet bay (MS-R-74) was carried out from 00.00 to 04:00hr on 29th November 2006. As advised by the RSS, the Contractor has been requested to: Wrapping of tools with acoustic material Erection of noise barrier (mill barrier with acoustic material) adjacent to isolated noise source Placing of hessin bags on ground to mitigate noise generated as a result of the dropping of tools on ground. According to the RSS, there is no evidence of hammering of metals on site. <i>Conclusion</i> Based on the information collected, the complaint is considered unjustifiable. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: To strengthen management on worker's working manner, such as avoiding dropping materials on ground; No hammering is allowed during restricted hours; and To provide adequate training to workers working, esp. for night works. 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
70117-1	P6 – P8 near Lai Chi Kok Road Interchange	17 th January 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 16 th January 2007 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 17 th January 2007. The complaint was concerned about noise generated from the P6 – P8 near Lai Chi Kok Road Interchange in the past months.	 Site Activities According to RSS's record, the construction activities at the concerned area was mainly central stitch construction and parapet erection and similar works will be carried out in the concerted site in coming one month. The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW-RW0624-06. Based on the RSS's record of PME used in the concerned area from 15 November 2006 to 30 December 2006, the construction works complied with the CNP no. GW-RW0624-06. <i>Conclusion</i> Based on the information collected, the complaint is considered unjustifiable as the equipment used complied with the CNP conditions. Nevertheless, the Contractor was recommended to take further noise mitigation measures to minimize the environmental impact on the nearby community: To strengthen management on worker's working manner, such as avoiding dropping materials on ground; No hammering is allowed during restricted hours; and 	Closed
70117-2	P3 – P6 near Banyan Garden	17 th January 2007 (by ET Leader)	Environmental Protection Department (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 17 th January 2007. The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 11 th January 2007.	Site Activities According to RSS's record, the construction activities at the concerned area was mainly central stitch construction and parapet erection and similar works will be carried out in the concerned site in coming one month. The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW- RW0624-06. Based on the RSS's record of PME used in the concerned area from 1 st December 2006 to 13 th January 2007, the construction	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				works complied with the CNP no. GW-RW0624-06.	
				<i>Conclusion</i> Based on the information collected, the complaint is considered	
				unjustifiable as the equipment used complied with the CNP conditions.	
				Nevertheless, the Contractor was recommended to take further noise mitigation measures to minimize the environmental impact on the nearby community:	
				- To strengthen management on worker's working manner, such as avoiding dropping materials on ground;	
				 No hammering is allowed during restricted hours; and To provide adequate training to workers working, esp. for 	
				night works.	