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)

> > January 2008

Approved By	Chypert
	(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 Exceedancee
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 50th 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 January 2008 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:

- Retaining wall construction at LCK-R2 to LCK-R3;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works at Lai Po Road, Castle Peak Road and Nob Hill (underneath LW Overpass);
- Installation of top rail of parapet at main viaduct, slip roads C&D and Ching Cheung Road;
- Installation of noise barrier and signage at slip roads A, B C, D and Main Viaduct;
- Installation of E&M works in Irrigation Pump House;
- RSSM and slope drains for CCR-S4;
- RSSM and slope drains for slope CCR-S4;
- RSSM for slope CCR-S1 and Batter 8
- Roadworks at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Road and Ching Cheung Road; and
- Feature walls construction for landscape hardworks at Lai Po Road.

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

- Site Acceptance Tests; and
- Minor rectification works to field equipment.

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 Eve	nts Recorded in	the Reporting M	onth
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Parameter	No. of Events		No. of Events	Action Taken
1 al allietel	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	1	0	0 (Invalid complaint)	Complaint Investigation

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). Two 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.

Event	Event Details		Action Taken	Status	Remark
Event	Number	Nature	ACTION TAKEN	Status	кешагк
Complaint received	2	Noise, Dust	Complaint investigation	Investigation reports were submitted	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Status of submissions under EP	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

 Table II
 Summary Table for Key Information in the Reporting Month

Future Key Issues:

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

- Landscaping works at retaining wall at CCR-R2 and CCR-R3-;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works and landscaping works at Lai Po Road and Nob Hill (underneath LW Overpass);
- Installation of top rail of parapet at main viaduct and slip roads D;
- Installation of traffic signs at slip roads A, B C, D, Main Viaduct and Ching Cheung Road;
- Installation of E&M works in Irrigation Pump House;
- RSSM and slope drains for CCR-S4 and slope CCR-S1, Batter 8;
- Road works at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange, Butterfly Valley Road and Ching Cheung Road; and
- Feature walls construction for landscape hardworks at Lai Po Road.

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

• SAT for TCSS equipment.

The anticipated environmental issues will be mainly on dust impact from road works, retaining wall construction, slope upgrading works and noise nuisance from drainage works at Nob Hill (underneath LW Overpass).

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 September 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. Damien Ku of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the 50th monthly EM&A report summarizing the EM&A works for the Project in January 2008.

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:
 - Retaining wall construction at LCK-R2 to LCK-R3;
 - Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
 - Drainage works at Lai Po Road, Castle Peak Road and Nob Hill (underneath LW Overpass);
 - Installation of top rail of parapet at main viaduct, slip roads C&D and Ching Cheung Road;
 - Installation of noise barrier and signage at slip roads A, B C, D and Main Viaduct;
 - Installation of E&M works in Irrigation Pump House;
 - RSSM and slope drains for CCR-S4;
 - RSSM and slope drains for slope CCR-S4;
 - RSSM for slope CCR-S1 and Batter 8
 - Roadworks at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Road and Ching Cheung Road; and
 - Feature walls construction for landscape hardworks at Lai Po Road.
- 1.12 The site activities for TCSS works undertaken in the reporting month included:

• SAT for TCSS equipment.

Table 1.1	Key Project Contacts
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Party	Role	Name	Position	Phone No.	Fax No.	
		Mr. Kroc Leung	SE2/R8K	2762 3662		
HyD	Permit Holder	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. Alan Chan	IOW	9860 8791	2959 0290	
	representative	Mr. Alex Tam	RE	9856 0199		
		Dr. Priscilla Choy	ET Leader	2151 2089		
Cinotech	Environmental Team	Mr. Grace Wong	Audit Team Leader	2151 2092	3107 1388	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087		
CH2M	Independent Environmental	Mr. Damien Ku	Independent Environmental Checker	2872 2921	2507 2293	
Сп2М	Checker	Mr. Simon Lam	Assistant Independent Environmental Checker	2872 2946	2307 2293	
Acciona	Contractor	Mr. William D. Payne	Project Director	2956 3300	2956 3331	
Acciolia	Contractor	Mr. Lawrence Kwok	QA/E Manager	2930 3300	2950 3331	
	Engineer's Representative (TCSS)	Mr. Donald Leung	RE	2436 7489	2436 1803	
ARUP		Mr. Daniel So	ARE	2436 7435	2430 1803	
DIGJV	Contractor (TCSS)	Ms. Joyce Chan	Quality Manager	2123 0845	2123 0889	
24-hour Er	mergency Hotline	2370 9200	-			

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.

- The noise monitoring at Lai Chi Kok Correctional Institution (NM2), which was formerly 3.6 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 3.2 **Noise 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 3.3 Noise Monitoring Parameters, Frequency and Duration

Stations	Parameter	Period	Frequency	Measurement
NM2				Façade
NM4	$L_{10}(30 \text{ min.})dB(A)$ $L_{90}(30 \text{ min.})dB(A)$ $L_{eq}(30 \text{ min.})dB(A)$			Façade
NM8a		0700-1900 hrs. on weekdays	Once per week	Façade
NM8b		on weekdays	WCCK	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 One Action Level exceedances was recorded due to noise complaints received on 21 January 2008. No noise Limit Level exceedance was recorded in the reporting monthly.
- 3.16 The complaint was referred by the Resident Site Staff (RSS) to the Environmental Team (ET) Leader of the Project on 21 January 2008 regarding construction noise and dust generation near Nob Hill. According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 20 December 2007 and would likely last up to the 2 February 2008. As advised by the RSS, tarpaulin covering, water spraying and temporary noise absorbent materials were provided by the Contractor to suppress the dust and noise nuisance generated from the rock drilling works. Besides, the working hours was lie in between the normal working hours from 7am to 7pm. There was no non-compliance or observation with regard to noise and dust nuisance at the concerned site was recorded by the auditors during the site inspections carried out in December 2007 and January 2008. No Action / Limit level exceedance for air quality and limit level exceedance for construction noise was identified in the period between 20 December 2007 and 24 January 2008. 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.

- 3.17 At Stations NM8a and NM8b, the major noise source identified during the monitoring exercises was mainly the road traffic noise.
- 3.18 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 2nd, 9th, 16th, 23rd and 30th January 2008. A joint site audit for Civil works was conducted on 2nd January 2008 with representatives from IEC, ER, the Contractor and ET while the joint site audit for TCSS works was conducted on 2nd January 2008 with the representatives from IEC, ER, the Contractor and ET. No environmental deficiency was recorded for TCSS contract during site inspections.

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**. Two 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 4.1Summary of Environmental Licensing and Permit Status

Permit No.	Valid	Period	Dotails	Statuc
r ermit 100.	From	То	Details	Status
Environmental Per	mit (EP)		·	
EP-103/2001/C	22/7/05	N/A	Construction and operation of (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; © The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid
Registration of Cho	emical Wast	e Producer		
WPN 5213-261- N2413-04	17/11/03	N/A	N/A	Valid
Water Discharge L				
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	(P)		
GW-RW0419-07	23/08/07	20/02/08	<i>Location:</i> Ching Cheung Road near Castle Peak Road, Kowloon <i>Time Period:</i> 0000-0600(any day not being a general holiday or not immediately following a general holiday including Sundays).	Valid
GW-RW0465-07	22/09/07	21/02/08	<i>Location:</i> Butterfly Valley Road, Lai Chi Kok, Kowloon <i>Time Period:</i> 1900-2300 (any day not being a general holiday) and 0700-2300 (General holidays including Sundays).	Valid
GW-RW0477-07	28/09/07	27/03/08	<i>Location:</i> Butterfly Valley, Lai Chi Kok, Kowloon <i>Time Period:</i> 0700-2300 (general holidays including Sundays) and 1900-2300(any day not being a general holiday).	Valid
GW-RW0478-07	30/09/07	29/03/08	<i>Location:</i> Junction of Ching Cheung Road and Castle Peak Road <i>Time Period:</i> 0700-2300 (general holidays including Sundays) and 1900-2300(any day not being a general holiday).	Valid

Permit No. Valid Per		Period	Details	Status	
Permit No.	From	То	Details	Status	
GW-RW0589-07	11/11/07	27/01/08	<i>Location:</i> Butterfly Valle Road near, Lai Chi Kok Reception Centre, Kowloon <i>Time Period:</i> 0900-1900 (general holidays including Sundays).	Expired	
GW-RW0656-07	29/12/07	28/06/08	<i>Location:</i> Ching Cheung Road Section between Ching Lai Court and Castle Peak Road, Lai Chi Kok, Kowloon <i>Time Period:</i> 0700-2100 (general holidays including Sundays) and 1900-2300(any day not being a general holiday).	Valid	
GW-RW0657-07	13/12/07	11/06/08	<i>Location:</i> Butterfly Valley Road Near Lai Chi Kok Reception Center, Kowloon. <i>Time Period: 2300-2400</i> (general holidays including Sundays) and 0000-0700 and 2300-2400 (any day not being a general holiday).	Valid	
GW-RW0658-07	12/12/07	11/06/08	<i>Location:</i> Lai Po Road near Sewage Pumping Station, Kowloon. <i>Time Period: 2300-2400</i> (general holidays including Sundays) and 0000-0700 and 2300-2400 (any day not being a general holiday).	Valid	
GW-RW0668-07	20/12/07	14/06/08	08 <i>Location:</i> Yuet Lun Street to Cheung Sha Wan Road, Kowloon. <i>Time Period: 2300-2400</i> (general holidays including Sundays) and 0000-0700 and 2300-2400 (any day not being a general holiday).		
GW-RW0669-07	21/12/07	18/06/08	<i>Location:</i> Ching Cheung Road near Mei Foo Sun Chuen, Lai Chi Kok, Kowloon. <i>Time Period: 00</i> 00-0700 and 2300-2400 (any day not being a general holiday).	Valid	
GW-RW0723-07	21/01/08	10/07/08	Location: Ching Cheung Road near Butterfly Valley Road, Lai Chi Kok, Kowloon. Time Period: 0000-0700 and 2300-2400 (any day not being a general holiday).	Valid	
GW-RW0027-08	27/01/08	24/02/08	Location: Ching Cheung Road near Ching LaiCommercial Centre, Kowloon . Time Period: 0900-1900 (general holidays including Sundays).	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 and Table 4.3**.

Parameters	Date	Observations and Recommendations	Follow-up
	2-Jan-08	<u>Reminder</u> Follow up with the last site inspection, although the Contractor has put the granular larvicides, it is recommended to dry the water out from the hole to prevent mosquito breed.	The situation was found improved / rectified during the audit on 16-Jan 08.
	9-Jan-08	Reminder Follow up with the last site inspection, standing water was still observed at Lai Po Road. The Contractor was reminded to dry the water out to prevent mosquito breed.	The situation was found improved / rectified during the audit on 16-Jan 08.
Water Quality	23-Jan-08	<u>Observation</u> Further rock dowell drilling will undergoes at Nob Hill. The Contractor was advised to install geotextile into the manholes to prevent any surface runoff running into the manholes nearby.	The situation was found improved / rectified during the audit on 30-Jan 08.
	30-Jan-08	Observation The discharge from rock dowel was observed overflow into the geo-textile installed in the manhole at Nob Hill. The Contractor was advised to pre-treated the discharge properly (e.g. further desilt it with the sandbags/ an additional geo-textile filter) before discharging into the manhole.	This item will be followed up on next audit session.
Air Quality	2-Jan-08	Reminder Follow up with last site inspection, the stockpile was in used by the Contractor at Lai Po Raod. The Contractor was reminded to cover it properly to suppress the dust generation when it is not in used.	The situation was found improved / rectified during the audit on 16-Jan 08
	9-Jan-08	<u>Reminder</u> Follow up with last site inspection, the stockpile was partially covered at Lai Po Road. The Contractor was reminded to cover it well.	The situation was found improved / rectified during the audit on 16-Jan 08.

Table 4.2 Observations and Recommendations of Site Audits for Civil Works

Parameters	Date	Observations and Recommendations	Follow-up
	2-Jan-08	<u>Observation</u> Oil leakage was observed on the ground at Nob Hill. The Contractor was advised to clear the oil.	The situation was found improved / rectified during the audit on 9-Jan 08
Waste/ Chemical Management	16-Jan-08	<u>Observation</u> Contaminated soil was observed at Nob Hill next to the drip tray under the bridge. The Contractor was advised to clean the soil up and remind the operator to add the oil carefully.	The situation was found improved / rectified during the audit on 23-Jan 08
	16-Jan-08	Observation General refuse was observed accumulating at Lai Wan Road where is opposite to the Lai Chi Kok Public Library. The Contractor was advised to clean them out.	The situation was found improved / rectified during the audit on 23-Jan 08
Others	2-Jan-08	<u>Reminder</u> Follow up with the last site inspection, although the Contractor has put the granular larvicides, it is recommended to dry the water out from the hole to prevent mosquito breed.	The situation was found improved / rectified during the audit on 9-Jan 08

Table 4.3	Observations and Recommendations of Site Audits for TCSS	

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

4.7 The observations and recommendations arising from pervious month and followed up in the reporting month are summarized in **Table 4.4 and Table 4.5**.

Table 4.4	Observations and Recommendations of Site Audits Followed up for Pervious	
	Month for Civil Works	

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality and Others	28-Dec-07	<u>Observation</u> Standing water was found at Lai Po Road. The Contractor was advised to provide mitigated measures to prevent mosquito breed.	The situation was found improved / rectified during the audit on 2 January 2008.
Air Quality	28-Dec-07	<u>Reminder</u> Stockpile was not covered well at Lai Po Road. The Contractor was reminded to cover it properly to suppress the dust generation.	The situation was found improved / rectified during the audit on 2 January 2008

Table 4.5Observations and Recommendations of Site Audits Followed up for Pervious
Month for TCSS

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

Summary of Exceedance

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 One Action Level exceedance was recorded. No noise Limit Level exceedance was recorded in the reporting monthly.

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 Two public complaints were received in the reporting month.
- 4.12 One compliant was referred by the Environmental Protection Department (EPD) on 3 January 2008 about the construction dust of slope works near the junction of King Lai Path and Lai Wan Road. According to RSS's record, rock slope stabilization measures was carried on at batter 8 of slope CCR-S1. Rock drilling for installation of rock dowels (6m long) at CCR-S1 was commenced on 20 December 2007 and would likely last up to the 2 February 2008. As advised by the RSS, a three side's tarpaulin covering sheets were provided by the Contractor to suppress the dust nuisance generated from the rock drilling works. On 5 January 2008, the drilling rig was wrapped with a wet thick towel and the speed of the drill was controlled. Besides, there was no Action/Limit Level exceedance for both 1-hr and 24-hr TSP identified during the period in between the 20 December2007 and 9 January 2008. Base on the information collected and the monitoring results, the complaint was considered not justifiable.
- 4.13 Another complaint was referred by the Resident Site Staff (RSS) to the Environmental Team (ET) Leader of the Project on 21 January 2008 regarding construction noise and dust generation near Nob Hill. According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 20 December 2007 and would likely last up to the 2 February 2008. As advised by the RSS, tarpaulin covering, water spraying and temporary noise absorbent materials were provided by the Contractor to suppress the dust and noise nuisance generated from the rock drilling works. Besides, the working hours was lie in between the normal working hours from 7am to 7pm. There was no non-compliance or observation with regard to noise and dust nuisance at the concerned site was recorded by the auditors during the site inspections carried out in December 2007 and January 2008. No Action / Limit level exceedance for air quality and limit level exceedance for construction noise was identified in the period between 20 December 2007 and 24 January 2008. 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.
- 4.14 There were 43 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 drainage works at Nob Hill (underneath LW Overpass);
 - Dust generation from road works, retaining wall construction, slope upgrading works or any other dusty materials.

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:
 - Retaining wall construction at LCK-R2 to LCK-R3;
 - Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
 - Drainage works at Lai Po Road, Castle Peak Road and Nob Hill (underneath LW Overpass);
 - Installation of top rail of parapet at main viaduct, slip roads C&D and Ching Cheung Road;
 - Installation of noise barrier and signage at slip roads A, B C, D and Main Viaduct;
 - Installation of E&M works in Irrigation Pump House;
 - RSSM and slope drains for CCR-S4;
 - RSSM and slope drains for slope CCR-S4;
 - RSSM for slope CCR-S1 and Batter 8
 - Roadworks at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Road and Ching Cheung Road; and
 - Feature walls construction for landscape hardworks at Lai Po 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:
 - SAT for TCSS equipment.

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 One Action Level exceedances was recorded due to noise complaints received on 21 January 2008. No noise Limit Level exceedance was recorded in the reporting monthly.
- 6.4 Two public complaints were 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 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 slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55
- 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.

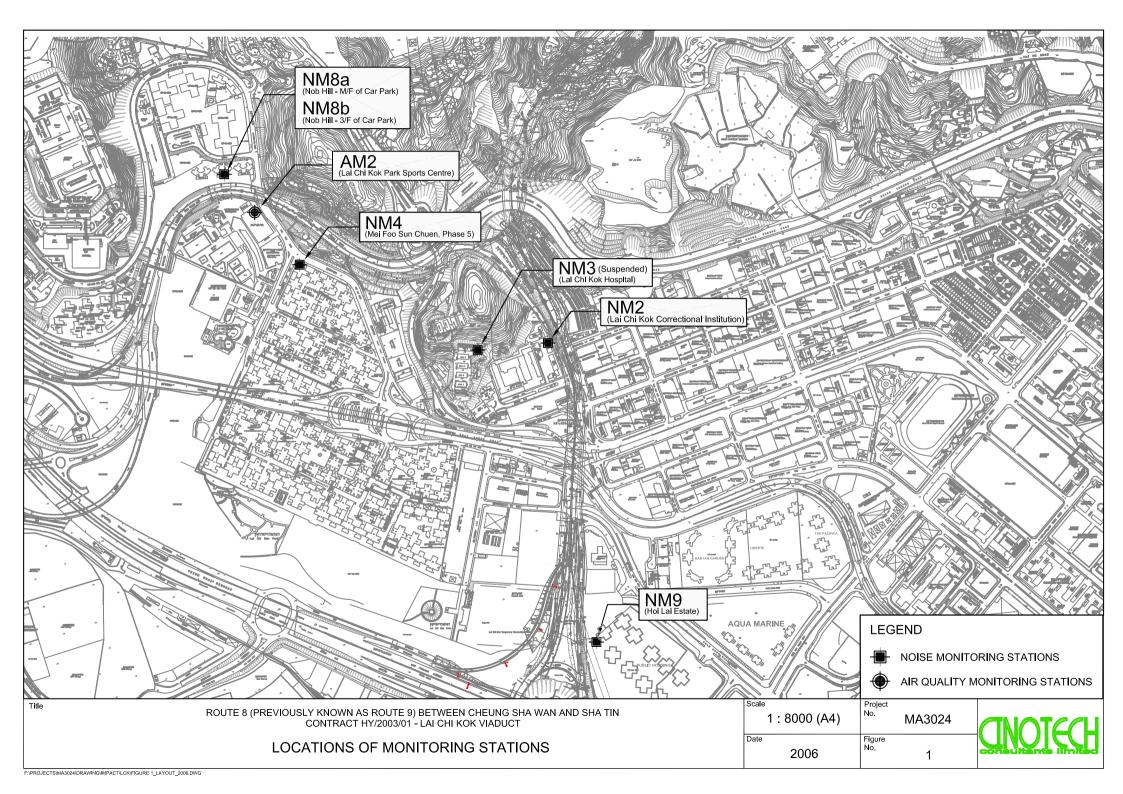
Dust Impact

- To ensure water spray is applied for the dust emissive works, such as slope upgrading, loading and unloading of soil materials.
- 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		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. MA3024/20/0026

 Station
 Lai Chi Kok Sport Centre (AM2)
 Operator:
 WK

 Date:
 12-Nov-07
 Next Due Date:
 11-Jan-08

 Equipment No.:
 A-01-20
 Serial No.
 0818

a a star a s		Ambient Condition	sa su
Temperature, Ta (K)	293.6	Pressure, Pa (mmHg)	766.6

	Or	ifice Transfer Sta	indard Informat	ion	
Equipment No .:	A-04-05	Slope, mc	0.0575	Intercept, bc	0.0395
Last Calibration Date:	12-Mar-07		mc x Qstd + bc	= [ΔH x (Pa/760) x (298/T	a)] ^{1/2}
Next Calibration Date:	11-Mar-08		$Qstd = \{ [\Delta H x ($	Pa/760) x (298/Ta)] ^{1/2} -bc}	/ mc

			f TSP Sampler		and the second
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y axis
1	11.4	3.42	58.73	8.5	2.95
2	10.0	3.20	54.96	7.0	2.68
3	7.2	2.72	46.53	4.8	2.21
4	5.1	2.29	39.05	3.3	1.84
5	3.0	1.75	29.79	1.8	1.36
in contraction c), check and recalibrate.			
				The second s	
		C (D) ()	N		
		Set Point (alculation		
rom the TSP Fig	eld Calibration Cu	irve, take Qstd = 43 CFM	alculation		
		in the second			
		rve, take Qstd = 43 CFM "Y" value according to	under and an and a second second	98/Ta)1 ^{1/2}	
		urve, take Qstd = 43 CFM	under and an and a second second	98/Ta)] ^{1/2}	· · · · · · · · · · · · · · · · · · ·
rom the Regress	sion Equation, the	rve, take Qstd = 43 CFM "Y" value according to	x (Pa/760) x (2	98/Ta)] ^{1/2} 4.12	

Remarks:	<u> </u>			<u> </u>	
Conducted by: Checked by:	W k. Jang	Signature: Signature:	- fina:	Date: Date:	B von 21

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



 Station
 Lai Chi Kok Sport Centre (AM2)
 Operator:
 WK

 Date:
 10-Jan-08
 Next Due Date:
 9-Mar-08

 Equipment No.:
 A-01-20
 Serial No.
 0818

M		Ambient Condition	
Temperature, Ta (K)	293.3	Pressure, Pa (mmHg)	764.7

	Or	ifice Transfer Sta	andard Informat	ion	
Equipment No .:	A-04-05	Slope, mc	0.0575	Intercept, bc	0.0395
Last Calibration Date:	12-Mar-07		mc x Qstd + bc	= [ΔH x (Pa/760) x (298/T	a)] ^{1/2}
Next Calibration Date:	11-Mar-08		Qstd = { $[\Delta H x ($	Pa/760) x (298/Ta)] ^{1/2} -bc}	/ mc

100 C 100		Calibration of	f TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \ge (Pa/760) \ge (298/Ta)]^{1/2}$ axis
1	11.2	3.38	58.16	8.6	2.97
2	10.1	3.21	55.20	7.0	2.68
3	7.4	2.75	47.15	5.0	2.26
4	5.3	2.33	39.79	3.2	1.81
5	3.0	1.75	29.77	1.7	1.32
Correlation co	10.00	0.9969	-		
	10.00), check and recalibrate.	- 		
	10.00		- Calculation		
*If Correlation C	Coefficient < 0.990), check and recalibrate.	- Calculation	-	
If Correlation C	Coefficient < 0.990), check and recalibrate. Set Point C	Calculation		n an
If Correlation C	Coefficient < 0.990), check and recalibrate. Set Point C rve, take Qstd = 43 CFM "Y" value according to		98/Ta)1 ^{1/2}	
Tf Correlation C	Coefficient < 0.990), check and recalibrate. Set Point C Irve, take Qstd = 43 CFM		98/Ta)] ^{1/2}	
From the TSP Fig	Coefficient < 0.990 eld Calibration Cu sion Equation, the), check and recalibrate. Set Point C rve, take Qstd = 43 CFM "Y" value according to	x (Pa/760) x (2	98/Ta)] ^{1/2} 4.05	

Remarks:				
Conducted by: Checked by:	Signature: Signature:	Kinin	Date: Date:	10 Jan 2005_ 10 January 2008

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

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

Test Report No .:	C/07/70502	
Date of Issue:	2007-05-02	
Date Received:	2007-05-01	
Date Tested:	2007-05-01	
Date Completed:	2007-05-02	
Page:	1 of 1	

Mr. Henry Leung ATTN:

Certificate of Calibration

Item for calibration:

for callor ation.	
Description	: RS232 Integral Vane Digital Anemometer
Manufacturer	: AZ Instrument
Model No.	: 451104
Serial No.	: 9020746
Equipment No.	: A-03-01
conditions:	

Test

: 21 degree Celsius Room Temperature : 65% Relative Humidity : 101.3 kPa Pressure

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:

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

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

PATRICK TSE Senior Chemist

ISCH

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 intercep coefficie y axis =	t (b) = ent (r) =	2.03154 -0.03970 0.99999 Pa/760)(298/1	 Qa slope intercept coefficie v axis =	: (b) =	1.27212 -0.02496 0.99999

CALCULATIONS

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

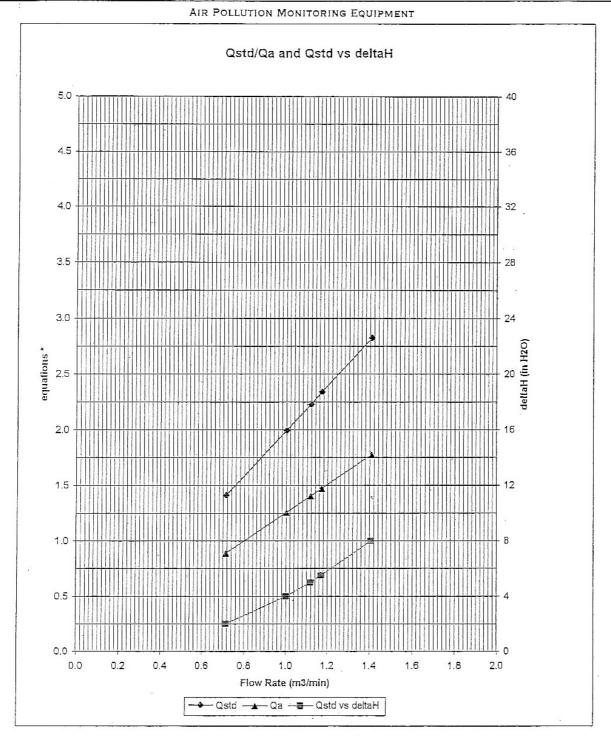
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

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:



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TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/71213/1
	Room 1710, Technology Park,	Date of Issue:	2007-12-14
	18 On Lai Street,	Date Received:	2007-12-13
	Shatin, NT, Hong Kong	Date Tested:	2007-12-14
		Date Completed:	2007-12-14
		Next Due Date:	2008-12-13

ATTN:

Mr. Henry Leung

1 of 1

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 : 2337665 : 2289749 : N-01-01

Page:

Test conditions:

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 Senior Chemist

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TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/71116/1
	Room 1710, Technology Park,	Date of Issue:	2007-11-16
	18 On Lai Street,	Date Received:	2007-11-15
	Shatin, NT, Hong Kong	Date Tested:	2007-11-15
		Date Completed:	2007-11-16

ATTN: Mr. Henry Leung

Page:

Next Due Date:

1 of 1

2008-11-15

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 : 2337666 : 2289750 : N-01-02

Test conditions:

Room Temperatre Relative Humidity : 20 degree Celsius : 59%

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 Senior Chemist



Unit C, 1/F., Goldlion Holdings Center, 13-15 Yuen Shun Circuit, Shatin, NT, HK. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/70903-1
	1601-1610 Delta House,	Date of Issue:	2007-09-03
	3 On Yiu Street,	Date Received:	2007-09-01
	Shatin, N.T.	Date Tested:	2007-09-03
		Date Completed:	2007-09-03
		Next Due Date:	2008-09-02

ATTN:

Mr. Henry Leung

1 of 1

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

Page:

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 62%

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.

atahla

PATRICK TSE Senior Chemist



Unit C, 1/F. Goldlion Holdings Center, 13-15 Yuen Shun Circuit, Shatin, NT, HK. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/70903-2
	1602-1610 Delta House,	Date of Issue:	2007-09-03
	3 On Yiu Street,	Date Received:	2007-09-01
	Shatin, N.T.	Date Tested:	2007-09-03
		Date Completed:	2007-09-03
		Next Due Date:	2008-09-02

ATTN:

Mr. Henry Leung

1 of 1

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2359303 : N-01-04

Page:

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 62%

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 Senior Chemist



TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/71015/1
	Room 1710, Technology Park,	Date of Issue:	2007-10-15
	18 On Lai Street,	Date Received:	2007-10-13
	Shatin, NT, Hong Kong	Date Tested:	2007-10-13
		Date Completed:	2007-10-15
		Next Due Date:	2008-10-14

ATTN:

Mr. Henry Leung

.

1 of 1

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:

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

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

PATRICK TSE Senior Chemist



Unit C, 1/F., Goldlion Holdings Center, 13-15 Yuen Shun Circuit, Shatin, NT, HK. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

1 of 1

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/71116/2
	Room 1710, Technology Park,	Date of Issue:	2007-11-16
	18 On Lai Street,	Date Received:	2007-11-15
	Shatin, NT, Hong Kong	Date Tested:	2007-11-15
		Date Completed:	2007-11-16
		Next Due Date:	2008-11-15

Page:

ATTN: Mr. Henry Leung

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 ± 0.1 dB

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

PATRICK TSE Senior Chemist

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,	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



Unit C, 1/F., Goldlion Holdings Center, 13-15 Yuen Shun Circuit, Shatin, NT, HK. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT:	Cinotech Consultants I 1602-1610 Delta House		C/N/70903-3 2007-09-03
	3 On Yiu Street,	Date Received:	2007-09-01
	Shatin, N.T.	Date Tested:	2007-09-03
		Date Completed:	2007-09-03
		Next Due Date:	2008-09-02
ATTN:	Mr. Henry Leung	Page:	1 of 1
Item for calibra	ition:		
I	Description	: Acoustical Calibrator	
N	Manufacturer	: Brüel & Kjær	
Ν	Model No.	: 4231	
5	Serial No.	: 2412367	
I	Equipment No.	: N-02-03	
m			

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 62%

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	$114.0 \pm 0.1 \text{ dB}$

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

PATRICK TSE Senior Chemist

APPENDIX C ENVIRONMENTAL MONITORING AND AUDIT SCHEDULE

Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for January 2008

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

Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for February 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	2-Feb
		1 hr TSP Noise 24 hr TSP	1 hr TSP	1 hr TSP		
3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb
	1 hr TSP Noise 24 hr TSP	1 hr TSP	1 hr TSP			
10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb
		1 hr TSP Noise 24 hr TSP	1 hr TSP	1 hr TSP		
17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb
	24 hr TSP	l hr TSP	l hr TSP	1 hr TSP Noise		24 hr TSP
24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	29-Feb	1-Mar
	l hr TSP	1 hr TSP Noise		1 hr TSP	24 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-Jan-2008	0:00	1.0	W
1-Jan-2008	1:00	1.0	W
1-Jan-2008	2:00	1.0	WNW
1-Jan-2008	3:00	1.0	W
1-Jan-2008	4:00	1.0	W
1-Jan-2008	5:00	1.0	WSW
1-Jan-2008	6:00	1.0	WSW
1-Jan-2008	7:00	1.0	SW
1-Jan-2008	8:00	1.0	SW
1-Jan-2008	9:00	1.0	SW
1-Jan-2008	10:00	1.0	WSW
1-Jan-2008	11:00	2.0	W
1-Jan-2008	12:00	1.0	WNW
1-Jan-2008	13:00	1.0	W
1-Jan-2008	14:00	1.0	W
1-Jan-2008	15:00	1.0	W
1-Jan-2008	16:00	1.0	W
1-Jan-2008	17:00	0.0	
1-Jan-2008	18:00	1.0	WNW
1-Jan-2008	19:00	1.0	WNW
1-Jan-2008	20:00	1.0	SW
1-Jan-2008	21:00	1.0	SSW
1-Jan-2008	22:00	1.0	SW
1-Jan-2008	23:00	1.0	SW
2-Jan-2008	0:00	1.0	SW
2-Jan-2008	1:00	1.0	SW
2-Jan-2008	2:00	2.0	SW
2-Jan-2008	3:00	2.0	W
2-Jan-2008	4:00	2.0	WSW
2-Jan-2008	5:00	1.0	W
2-Jan-2008	6:00	1.0	W
2-Jan-2008	7:00	2.0	W
2-Jan-2008	8:00	2.0	WNW
2-Jan-2008	9:00	1.0	W
2-Jan-2008	10:00	2.0	W
2-Jan-2008	11:00	2.0	W
2-Jan-2008	12:00	2.0	SSW
2-Jan-2008	13:00	2.0	SW
2-Jan-2008	14:00	2.0	WSW
2-Jan-2008	15:00	2.0	W
2-Jan-2008	16:00	2.0	WNW
2-Jan-2008	17:00	2.0	W
2-Jan-2008	18:00	1.0	WNW
2-Jan-2008	19:00	1.0	SSW
2-Jan-2008	20:00	1.0	WNW
2-Jan-2008	21:00	1.0	SW
2-Jan-2008	22:00	1.0	WNW
2-Jan-2008	23:00	2.0	WSW
3-Jan-2008	0:00	2.0	WSW
3-Jan-2008	1:00	2.0	W
3-Jan-2008	2:00	2.0	WSW
3-Jan-2008	3:00	2.0	W
3-Jan-2008	4:00	2.0	W
5-Jai1-2000	5:00	3.0	SW

Date	Time	Wind Speed m/s	Direction
3-Jan-2008	6:00	2.0	WNW
3-Jan-2008	7:00	2.0	WSW
3-Jan-2008	8:00	2.0	WSW
3-Jan-2008	9:00	2.0	W
3-Jan-2008	10:00	1.0	WSW
3-Jan-2008	11:00	1.0	WSW
3-Jan-2008	12:00	2.0	W
3-Jan-2008	13:00	2.0	WNW
3-Jan-2008	14:00	2.0	WNW
3-Jan-2008	15:00	1.0	WNW
3-Jan-2008	16:00	1.0	WNW
3-Jan-2008	17:00	1.0	WNW
3-Jan-2008	18:00	1.0	WNW
3-Jan-2008	19:00	1.0	WNW
3-Jan-2008	20:00	1.0	WSW
3-Jan-2008	21:00	1.0	SSW
3-Jan-2008	22:00	1.0	SW
3-Jan-2008	23:00	1.0	WNW
4-Jan-2008	0:00	1.0	WNW
4-Jan-2008	1:00	2.0	WNW
4-Jan-2008	2:00	1.0	WNW
4-Jan-2008	3:00	1.0	WNW
4-Jan-2008	4:00	1.0	WSW
4-Jan-2008	5:00	1.0	SSW
4-Jan-2008	6:00	1.0	SW
4-Jan-2008	7:00	2.0	WNW
4-Jan-2008	8:00	2.0	WNW
4-Jan-2008	9:00	2.0	WNW
4-Jan-2008	10:00	3.0	WNW
4-Jan-2008	11:00	3.0	WNW
4-Jan-2008	12:00	2.0	WNW
4-Jan-2008	13:00	3.0	WNW
4-Jan-2008	14:00	2.0	WNW
4-Jan-2008	15:00	1.0	WSW
4-Jan-2008	16:00	1.0	SW
4-Jan-2008	17:00	1.0	SW
4-Jan-2008	18:00	1.0	S
4-Jan-2008	19:00	1.0	S
4-Jan-2008	20:00	0.0	
4-Jan-2008	21:00	0.0	
4-Jan-2008	22:00	1.0	SW
4-Jan-2008	23:00	1.0	SW
5-Jan-2008	0:00	1.0	WSW
5-Jan-2008	1:00	1.0	WSW
5-Jan-2008	2:00	1.0	WNW
5-Jan-2008	3:00	1.0	WNW
5-Jan-2008	4:00	1.0	WNW
5-Jan-2008	5:00	1.0	WNW
5-Jan-2008	6:00	1.0	W
5-Jan-2008	7:00	1.0	W
5-Jan-2008	8:00	1.0	WNW
5-Jan-2008	9:00	1.0	W
5-Jan-2008	10:00	1.0	WSW
5-Jan-2008	11:00	1.0	W

Date	Time	Wind Speed m/s	Direction
5-Jan-2008	12:00	1.0	WSW
5-Jan-2008	13:00	1.0	SW
5-Jan-2008	14:00	1.0	SW
5-Jan-2008	15:00	1.0	SW
5-Jan-2008	16:00	1.0	WSW
5-Jan-2008	17:00	1.0	SW
5-Jan-2008	18:00	2.0	SW
5-Jan-2008	19:00	1.0	SW
5-Jan-2008	20:00	1.0	SW
5-Jan-2008	21:00	1.0	WSW
5-Jan-2008	22:00	0.0	
5-Jan-2008	23:00	0.0	
6-Jan-2008	0:00	0.0	
6-Jan-2008	1:00	0.0	
6-Jan-2008	2:00	0.0	
6-Jan-2008	3:00	0.0	
6-Jan-2008	4:00	0.0	
6-Jan-2008	5:00	0.0	
6-Jan-2008	6:00	1.0	WNW
6-Jan-2008	7:00	1.0	WSW
6-Jan-2008	8:00	1.0	WSW
6-Jan-2008	9:00	1.0	WNW
6-Jan-2008	10:00	2.0	WNW
6-Jan-2008	11:00	2.0	WNW
6-Jan-2008	12:00	2.0	W
6-Jan-2008	13:00	2.0	WSW
6-Jan-2008	14:00	1.0	WSW
6-Jan-2008	15:00	3.0	SW
6-Jan-2008	16:00	2.0	SW
6-Jan-2008	17:00	2.0	WNW
6-Jan-2008	18:00	1.0	WNW
6-Jan-2008	19:00	1.0	WNW
6-Jan-2008	20:00	1.0	WNW
6-Jan-2008	21:00	1.0	WSW
6-Jan-2008	22:00	0.0	
6-Jan-2008	23:00	1.0	WNW
7-Jan-2008	0:00	1.0	WSW
7-Jan-2008	1:00	1.0	WSW
7-Jan-2008	2:00	1.0	WSW
7-Jan-2008	3:00	1.0	Wew
7-Jan-2008	4:00	1.0	SW
7-Jan-2008	5:00	1.0	WNW
7-Jan-2008	6:00	2.0	WSW
7-Jan-2008	7:00	2.0	WSW
7-Jan-2008	8:00	1.0	WSW
7-Jan-2008	9:00	1.0	WSW
7-Jan-2008	10:00	1.0	SW
7-Jan-2008	11:00	1.0	WSW
7-Jan-2008	12:00	1.0	WSW
7-Jan-2008	13:00	1.0	SW
7-Jan-2008	14:00	1.0	
7-Jan-2008	15:00	1.0	SW
		1.0	WNW
7-Jan-2008	16:00 17:00	1.0	WSW

Date	Time	Wind Speed m/s	Direction
7-Jan-2008	18:00	0.0	
7-Jan-2008	19:00	0.0	
7-Jan-2008	20:00	0.0	
7-Jan-2008	21:00	0.0	
7-Jan-2008	22:00	0.0	
7-Jan-2008	23:00	0.0	
8-Jan-2008	0:00	0.0	
8-Jan-2008	1:00	0.0	
8-Jan-2008	2:00	0.0	
8-Jan-2008	3:00	0.0	
8-Jan-2008	4:00	0.0	
8-Jan-2008	5:00	1.0	WNW
8-Jan-2008	6:00	1.0	W
	7:00	2.0	W
8-Jan-2008			W
8-Jan-2008	8:00	2.0	W
8-Jan-2008	9:00	1.0	
8-Jan-2008	10:00	2.0	WNW
8-Jan-2008	11:00	1.0	WNW
8-Jan-2008	12:00	2.0	WNW
8-Jan-2008	13:00	2.0	W
8-Jan-2008	14:00	2.0	W
8-Jan-2008	15:00	2.0	WSW
8-Jan-2008	16:00	2.0	WSW
8-Jan-2008	17:00	2.0	WSW
8-Jan-2008	18:00	1.0	S
8-Jan-2008	19:00	0.0	
8-Jan-2008	20:00	1.0	S
8-Jan-2008	21:00	0.0	
8-Jan-2008	22:00	1.0	WSW
8-Jan-2008	23:00	0.0	
9-Jan-2008	0:00	0.0	
9-Jan-2008	1:00	0.0	
9-Jan-2008	2:00	1.0	S
9-Jan-2008	3:00	1.0	S
9-Jan-2008	4:00	1.0	SW
9-Jan-2008	5:00	1.0	SW
9-Jan-2008	6:00	1.0	WSW
9-Jan-2008	7:00	1.0	SW
9-Jan-2008	8:00	1.0	S
9-Jan-2008	9:00	1.0	WSW
9-Jan-2008	10:00	2.0	SW
9-Jan-2008	11:00	1.0	SW
9-Jan-2008	12:00	1.0	W
9-Jan-2008	13:00	1.0	W
9-Jan-2008	14:00	1.0	W
9-Jan-2008	15:00	1.0	WSW
9-Jan-2008	16:00	1.0	SW
	17:00	1.0	
9-Jan-2008			
9-Jan-2008	18:00	0.0	
9-Jan-2008	19:00	0.0	
9-Jan-2008	20:00	0.0	
9-Jan-2008	21:00	0.0	
9-Jan-2008	22:00	0.0	
9-Jan-2008	23:00	0.0	

Date	Time	Wind Speed m/s	Direction
10-Jan-2008	0:00	0.0	
10-Jan-2008	1:00	0.0	
10-Jan-2008	2:00	0.0	
10-Jan-2008	3:00	0.0	
10-Jan-2008	4:00	0.0	
10-Jan-2008	5:00	0.0	
10-Jan-2008	6:00	0.0	
10-Jan-2008	7:00	0.0	
10-Jan-2008	8:00	1.0	WSW
10-Jan-2008	9:00	1.0	WSW
10-Jan-2008	10:00	1.0	WNW
10-Jan-2008	11:00	2.0	WNW
10-Jan-2008	12:00	2.0	WNW
			WNW
10-Jan-2008	13:00	2.0	W
10-Jan-2008	14:00	2.0	
10-Jan-2008	15:00	3.0	W
10-Jan-2008	16:00	3.0	W
10-Jan-2008	17:00	1.0	WNW
10-Jan-2008	18:00	1.0	WSW
10-Jan-2008	19:00	1.0	W
10-Jan-2008	20:00	0.0	
10-Jan-2008	21:00	0.0	
10-Jan-2008	22:00	0.0	
10-Jan-2008	23:00	1.0	SSW
11-Jan-2008	0:00	0.0	
11-Jan-2008	1:00	0.0	
11-Jan-2008	2:00	0.0	
11-Jan-2008	3:00	1.0	W
11-Jan-2008	4:00	1.0	WNW
11-Jan-2008	5:00	1.0	WSW
11-Jan-2008	6:00	0.0	
11-Jan-2008	7:00	1.0	WSW
11-Jan-2008	8:00	0.0	
11-Jan-2008	9:00	1.0	SSW
11-Jan-2008	10:00	1.0	SSW
11-Jan-2008	11:00	1.0	SSW
11-Jan-2008	12:00	1.0	W
11-Jan-2008	13:00	1.0	WSW
11-Jan-2008	14:00	1.0	W
11-Jan-2008	15:00	1.0	W
11-Jan-2008	16:00	0.0	
11-Jan-2008	17:00	0.0	
11-Jan-2008	18:00	0.0	
11-Jan-2008	19:00	1.0	W
11-Jan-2008	20:00	1.0	WSW
11-Jan-2008	21:00	1.0	W
11-Jan-2008	22:00	1.0	W
11-Jan-2008	22:00		WSW
12-Jan-2008		1.0	WSW
	0:00	1.0	S
12-Jan-2008	1:00	1.0	
12-Jan-2008	2:00	1.0	ESE
12-Jan-2008	3:00	1.0	W
12-Jan-2008	4:00	1.0	WNW
12-Jan-2008	5:00	1.0	WNW

Date	Time	Wind Speed m/s	Direction		
12-Jan-2008	6:00	2.0	WSW		
12-Jan-2008	7:00	2.0	WSW		
12-Jan-2008	8:00	2.0	WSW		
12-Jan-2008	9:00	3.0	ESE		
12-Jan-2008	10:00	3.0	W		
12-Jan-2008	11:00	3.0	WNW		
12-Jan-2008	12:00	3.0	WNW		
12-Jan-2008	13:00	3.0	WSW		
12-Jan-2008	14:00	2.0	N		
12-Jan-2008	15:00	1.0	NE		
12-Jan-2008	16:00	1.0	NE		
12-Jan-2008	17:00	1.0	NE		
12-Jan-2008	18:00	1.0	NNE		
12-Jan-2008	19:00	0.0			
12-Jan-2008	20:00	0.0			
12-Jan-2008	21:00	0.0			
12-Jan-2008	22:00	0.0			
12-Jan-2008	23:00	0.0			
13-Jan-2008	0:00	1.0	WNW		
13-Jan-2008	1:00	2.0	W		
13-Jan-2008	2:00	2.0	WNW		
13-Jan-2008	3:00	2.0	WNW		
13-Jan-2008	4:00	2.0	W		
13-Jan-2008	5:00	2.0	SW		
13-Jan-2008	6:00	2.0	WSW		
13-Jan-2008	7:00	2.0	WSW		
13-Jan-2008	8:00	2.0	SSW		
13-Jan-2008	9:00	1.0	ESE		
13-Jan-2008	10:00	1.0	<u></u>		
13-Jan-2008	11:00	1.0	WNW		
13-Jan-2008	12:00	2.0	WNW		
13-Jan-2008	13:00	2.0	WSW		
13-Jan-2008	14:00	2.0	WNW		
13-Jan-2008	15:00	2.0	W		
13-Jan-2008	16:00	2.0	W		
13-Jan-2008	17:00	2.0	WNW		
13-Jan-2008	18:00	2.0	W		
13-Jan-2008	19:00	2.0	WNW		
13-Jan-2008	20:00	2.0	WNW		
13-Jan-2008	21:00	1.0	WNW		
13-Jan-2008	22:00	2.0	WSW		
13-Jan-2008	23:00	2.0	WSW		
14-Jan-2008	0:00	2.0	WSW		
14-Jan-2008	1:00	2.0	WSW		
14-Jan-2008	2:00	2.0	WSW		
14-Jan-2008	3:00	2.0	WSW		
14-Jan-2008	4:00	2.0	WSW		
14-Jan-2008	5:00	2.0	W		
14-Jan-2008	6:00	2.0	WSW		
14-Jan-2008	7:00	2.0	WSW		
14-Jan-2008	8:00	2.0	WSW		
	9:00	2.0	WSW		
14-Jan-2008					
14-Jan-2008	10:00	2.0	WSW		
14-Jan-2008	11:00	2.0	WSW		

Date	Time	Wind Speed m/s	Direction
14-Jan-2008	12:00	2.0	WSW
14-Jan-2008	13:00	2.0	WSW
14-Jan-2008	14:00	2.0	SW
14-Jan-2008	15:00	2.0	WNW
14-Jan-2008	16:00	2.0	W
14-Jan-2008	17:00	2.0	WSW
14-Jan-2008	18:00	2.0	WNW
14-Jan-2008	19:00	2.0	WNW
14-Jan-2008	20:00	2.0	WNW
14-Jan-2008	21:00	2.0	WNW
14-Jan-2008	22:00	2.0	WNW
14-Jan-2008	23:00	2.0	W
15-Jan-2008	0:00	2.0	SSW
15-Jan-2008	1:00	2.0	WSW
15-Jan-2008	2:00	2.0	WSW
15-Jan-2008	3:00	1.0	SW
15-Jan-2008	4:00	2.0	SW
15-Jan-2008	5:00	2.0	SW
15-Jan-2008	6:00	2.0	SW
15-Jan-2008	7:00	2.0	SW
15-Jan-2008	8:00	2.0	SW
			SW
15-Jan-2008	9:00	2.0	WSW
15-Jan-2008	10:00	2.0	
15-Jan-2008	11:00	2.0	WSW
15-Jan-2008	12:00	3.0	SW
15-Jan-2008	13:00	3.0	SW
15-Jan-2008	14:00	2.0	SW
15-Jan-2008	15:00	3.0	SW
15-Jan-2008	16:00	4.0	WNW
15-Jan-2008	17:00	2.0	WNW
15-Jan-2008	18:00	2.0	W
15-Jan-2008	19:00	2.0	WNW
15-Jan-2008	20:00	2.0	W
15-Jan-2008	21:00	2.0	WNW
15-Jan-2008	22:00	2.0	WNW
15-Jan-2008	23:00	3.0	W
16-Jan-2008	0:00	3.0	SW
16-Jan-2008	1:00	3.0	WSW
16-Jan-2008	2:00	4.0	WSW
16-Jan-2008	3:00	3.0	SSW
16-Jan-2008	4:00	3.0	SSW
16-Jan-2008	5:00	2.0	SSW
16-Jan-2008	6:00	1.0	SW
16-Jan-2008	7:00	0.0	
16-Jan-2008	8:00	0.0	
16-Jan-2008	9:00	0.0	
16-Jan-2008	10:00	0.0	
16-Jan-2008	11:00	0.0	
16-Jan-2008	12:00	0.0	
16-Jan-2008	13:00	0.0	
16-Jan-2008	14:00	0.0	
16-Jan-2008	15:00	0.0	
16-Jan-2008	16:00	0.0	
16-Jan-2008	17:00	0.0	

Date	Time	Wind Speed m/s	Direction
16-Jan-2008	18:00	1.0	WSW
16-Jan-2008	19:00	1.0	WSW
16-Jan-2008	20:00	2.0	WNW
16-Jan-2008	21:00	4.0	WNW
16-Jan-2008	22:00	4.0	WSW
16-Jan-2008	23:00	3.0	SW
17-Jan-2008	0:00	1.0	SW
17-Jan-2008	1:00	2.0	WSW
17-Jan-2008	2:00	2.0	SSW
17-Jan-2008	3:00	1.0	W
17-Jan-2008	4:00	1.0	W
17-Jan-2008	5:00	1.0	WNW
17-Jan-2008	6:00	1.0	WSW
17-Jan-2008	7:00	2.0	WSW
17-Jan-2008	8:00	3.0	W
17-Jan-2008	9:00	2.0	Ν
17-Jan-2008	10:00	2.0	W
17-Jan-2008	11:00	2.0	W
17-Jan-2008	12:00	1.0	WNW
17-Jan-2008	13:00	2.0	W
17-Jan-2008	14:00	2.0	W
17-Jan-2008	15:00	1.0	W
17-Jan-2008	16:00	1.0	WNW
17-Jan-2008	17:00	0.0	
17-Jan-2008	18:00	0.0	
17-Jan-2008	19:00	0.0	
17-Jan-2008	20:00	0.0	
17-Jan-2008	21:00	0.0	
17-Jan-2008	22:00	0.0	
17-Jan-2008	23:00	0.0	
18-Jan-2008	0:00	0.0	
18-Jan-2008	1:00	0.0	
18-Jan-2008	2:00	0.0	
18-Jan-2008	3:00	1.0	WNW
18-Jan-2008	4:00	1.0	W
18-Jan-2008	5:00	1.0	WNW
18-Jan-2008	6:00	1.0	WNW
18-Jan-2008	7:00	0.0	
18-Jan-2008	8:00	0.0	
18-Jan-2008	9:00	0.0	
18-Jan-2008	10:00	0.0	
18-Jan-2008	11:00	0.0	
18-Jan-2008	12:00	1.0	WNW
18-Jan-2008	13:00	0.0	
18-Jan-2008	14:00	0.0	
18-Jan-2008	15:00	0.0	
18-Jan-2008	16:00	0.0	
18-Jan-2008	17:00	0.0	
18-Jan-2008	18:00	0.0	
18-Jan-2008	19:00	0.0	
18-Jan-2008	20:00	1.0	WNW
18-Jan-2008	21:00	1.0	WSW
18-Jan-2008	22:00	3.0	WSW
18-Jan-2008	23:00	3.0	SW

Date	Time	Wind Speed m/s	Direction
19-Jan-2008	0:00	2.0	SW
19-Jan-2008	1:00	2.0	SW
19-Jan-2008	2:00	2.0	NW
19-Jan-2008	3:00	2.0	SW
19-Jan-2008	4:00	1.0	W
19-Jan-2008	5:00	2.0	W
19-Jan-2008	6:00	2.0	W
19-Jan-2008	7:00	2.0	W
19-Jan-2008	8:00	2.0	W
19-Jan-2008	9:00	2.0	W
19-Jan-2008	10:00	1.0	W
19-Jan-2008	11:00	2.0	WNW
19-Jan-2008	12:00	2.0	W
19-Jan-2008	13:00	2.0	W
19-Jan-2008	14:00	3.0	WNW
19-Jan-2008	15:00	1.0	WNW
19-Jan-2008	16:00	2.0	WNW
	17:00		W
19-Jan-2008		1.0	W
19-Jan-2008	18:00	1.0	
19-Jan-2008	19:00	0.0	
19-Jan-2008	20:00	0.0	
19-Jan-2008	21:00	0.0	
19-Jan-2008	22:00	0.0	
19-Jan-2008	23:00	0.0	
20-Jan-2008	0:00	0.0	
20-Jan-2008	1:00	0.0	
20-Jan-2008	2:00	0.0	
20-Jan-2008	3:00	0.0	
20-Jan-2008	4:00	1.0	SSW
20-Jan-2008	5:00	0.0	
20-Jan-2008	6:00	0.0	
20-Jan-2008	7:00	0.0	
20-Jan-2008	8:00	0.0	
20-Jan-2008	9:00	1.0	W
20-Jan-2008	10:00	1.0	W
20-Jan-2008	11:00	1.0	W
20-Jan-2008	12:00	1.0	W
20-Jan-2008	13:00	1.0	WNW
20-Jan-2008	14:00	1.0	W
20-Jan-2008	15:00	1.0	WNW
20-Jan-2008	16:00	2.0	WNW
20-Jan-2008	17:00	0.0	
20-Jan-2008	18:00	0.0	
20-Jan-2008	19:00	0.0	
20-Jan-2008	20:00	0.0	
20-Jan-2008	21:00	0.0	
20-Jan-2008	22:00	0.0	
20-Jan-2008	23:00	2.0	WSW
21-Jan-2008	0:00	2.0	SW
21-Jan-2008	1:00	2.0	WSW
21-Jan-2008	2:00	2.0	SW
21-Jan-2008	3:00	2.0	WSW
21-Jan-2008	4:00	2.0	W
21-Jan-2008	5:00	2.0	WSW

Date	Time	Wind Speed m/s	Direction		
21-Jan-2008	6:00	2.0	WNW		
21-Jan-2008	7:00	2.0	WNW		
21-Jan-2008	8:00	2.0	W		
21-Jan-2008	9:00	1.0	SW		
21-Jan-2008	10:00	1.0	SW		
21-Jan-2008	11:00	1.0	WSW		
21-Jan-2008	12:00	1.0	WSW		
21-Jan-2008	13:00	2.0	WSW		
21-Jan-2008	14:00	2.0	SW		
21-Jan-2008	15:00	1.0	WNW		
21-Jan-2008	16:00	1.0	WNW		
21-Jan-2008	17:00	2.0	W		
21-Jan-2008	18:00	2.0	W		
21-Jan-2008	19:00	2.0	WSW		
21-Jan-2008	20:00	2.0	SSW		
21-Jan-2008	21:00	2.0	W		
21-Jan-2008	22:00	1.0	W		
21-Jan-2008	23:00	1.0	SSW		
22-Jan-2008	0:00	2.0	SSW		
22-Jan-2008	1:00	2.0	WNW		
22-Jan-2008	2:00	2.0	WSW		
22-Jan-2008	3:00	2.0	WSW		
22-Jan-2008	4:00	2.0	WNW		
22-Jan-2008	5:00	2.0	WNW		
22-Jan-2008	6:00	1.0	WNW		
22-Jan-2008	7:00	1.0	SW		
22-Jan-2008	8:00	2.0	W		
22-Jan-2008	9:00	0.0			
22-Jan-2008	10:00	1.0	SW		
22-Jan-2008	11:00	0.0			
22-Jan-2008	12:00	0.0			
22-Jan-2008	13:00	0.0			
22-Jan-2008	14:00	0.0			
22-Jan-2008	15:00	0.0			
22-Jan-2008	16:00	1.0	NNE		
22-Jan-2008	17:00	1.0	NNE		
22-Jan-2008	18:00	1.0	N		
22-Jan-2008	19:00	1.0	WNW		
22-Jan-2008	20:00	0.0			
22-Jan-2008	21:00	0.0			
22-Jan-2008	22:00	1.0	W		
22-Jan-2008	23:00	0.0			
23-Jan-2008	0:00	1.0	WNW		
23-Jan-2008	1:00	1.0	WSW		
23-Jan-2008	2:00	1.0	WSW		
23-Jan-2008	3:00	0.0			
23-Jan-2008	4:00	0.0			
23-Jan-2008	5:00	0.0			
23-Jan-2008	6:00	0.0			
23-Jan-2008	7:00	0.0			
23-Jan-2008	8:00	0.0			
23-Jan-2008	9:00	0.0			
23-Jan-2008	10:00	0.0			
23-Jan-2008	11:00	0.0			

Date	Time	Wind Speed m/s	Direction		
23-Jan-2008	12:00	1.0	W		
23-Jan-2008	13:00	1.0	Ŵ		
23-Jan-2008	14:00	1.0	W		
23-Jan-2008	15:00	1.0	W		
23-Jan-2008	16:00	1.0	W		
23-Jan-2008	17:00	3.0	W		
23-Jan-2008	18:00	3.0	WNW		
23-Jan-2008	19:00	3.0	W		
23-Jan-2008	20:00	3.0	WNW		
23-Jan-2008	21:00	3.0	W		
23-Jan-2008	22:00	3.0	W		
23-Jan-2008	23:00	2.0	WSW		
24-Jan-2008	0:00	2.0	SW		
24-Jan-2008	1:00	1.0	W		
24-Jan-2008	2:00	2.0	W		
24-Jan-2008	3:00	2.0	W		
24-Jan-2008	4:00	2.0	WNW		
24-Jan-2008	5:00	2.0	WNW		
24-Jan-2008	6:00	2.0	NNW		
24-Jan-2008	7:00	2.0	WNW		
24-Jan-2008	8:00	0.0			
24-Jan-2008	9:00	0.0			
24-Jan-2008	10:00	0.0			
24-Jan-2008	11:00	0.0			
24-Jan-2008	12:00	0.0			
24-Jan-2008	13:00	0.0			
24-Jan-2008	14:00	1.0	WNW		
24-Jan-2008	15:00	1.0	NNE		
24-Jan-2008	16:00	0.0			
24-Jan-2008	17:00	1.0	NE		
24-Jan-2008	18:00	1.0	NE		
24-Jan-2008	19:00	1.0	NE		
24-Jan-2008	20:00	2.0	E		
24-Jan-2008	21:00	1.0	ESE		
24-Jan-2008	22:00	2.0			
24-Jan-2008	23:00	2.0	ESE		
25-Jan-2008	0:00	2.0	<u> </u>		
25-Jan-2008	1:00	2.0	E		
25-Jan-2008	2:00	1.0	<u>v</u>		
25-Jan-2008	3:00	1.0	W		
25-Jan-2008	4:00	1.0	WNW		
25-Jan-2008	5:00	1.0	WNW		
25-Jan-2008	6:00	2.0	WNW		
25-Jan-2008	7:00	1.0	W		
25-Jan-2008	8:00	2.0	W		
25-Jan-2008	9:00	2.0	WNW		
25-Jan-2008	10:00	2.0	SW		
25-Jan-2008	11:00	3.0	WNW		
25-Jan-2008	12:00	2.0	WNW		
25-Jan-2008	13:00	2.0	WNW		
25-Jan-2008	14:00	1.0	WNW		
25-Jan-2008	15:00	1.0	NNE		
25-Jan-2008	16:00	1.0	NE		
25-Jan-2008	17:00	1.0	NE		

Date	Time	Wind Speed m/s	Direction		
25-Jan-2008	18:00	0.0			
25-Jan-2008	19:00	0.0			
25-Jan-2008	20:00	1.0	NNE		
25-Jan-2008	21:00	1.0	E		
25-Jan-2008	22:00	1.0	E		
25-Jan-2008	23:00	0.0			
26-Jan-2008	0:00	0.0			
26-Jan-2008	1:00	0.0			
26-Jan-2008	2:00	0.0			
26-Jan-2008	3:00	1.0	WSW		
26-Jan-2008	4:00	2.0	WSW		
26-Jan-2008	5:00	2.0	SW		
26-Jan-2008	6:00	2.0	WSW		
26-Jan-2008	7:00	1.0	WSW		
26-Jan-2008	8:00	0.0			
26-Jan-2008	9:00	0.0			
26-Jan-2008	10:00	2.0	WNW		
26-Jan-2008	11:00	1.0	WNW		
26-Jan-2008	12:00	2.0	WNW		
26-Jan-2008	13:00	1.0	WNW		
26-Jan-2008	14:00	2.0	W		
26-Jan-2008	15:00	2.0	W		
26-Jan-2008	16:00	2.0	W		
26-Jan-2008	17:00	2.0	W		
26-Jan-2008	18:00	1.0	W		
26-Jan-2008	19:00	1.0	NNE		
26-Jan-2008	20:00	1.0	ENE		
26-Jan-2008	21:00	1.0	ESE		
26-Jan-2008	22:00	1.0	ESE		
26-Jan-2008	23:00	0.0			
27-Jan-2008	0:00	0.0			
27-Jan-2008	1:00	1.0	NNE		
27-Jan-2008	2:00	1.0	ENE		
27-Jan-2008	3:00	2.0			
27-Jan-2008	4:00	3.0			
27-Jan-2008	5:00	2.0			
27-Jan-2008	6:00	2.0			
27-Jan-2008	7:00	1.0			
27-Jan-2008	8:00	1.0	SSW		
27-Jan-2008	9:00	1.0	W		
27-Jan-2008	10:00	2.0	NW		
27-Jan-2008	11:00	2.0	N		
27-Jan-2008	12:00	1.0	ESE		
27-Jan-2008	13:00	1.0	ESE		
27-Jan-2008	14:00	1.0	E		
27-Jan-2008	15:00	2.0	ESE		
27-Jan-2008	16:00	2.0	SW		
27-Jan-2008	17:00	2.0	WSW		
27-Jan-2008	18:00	2.0	W		
27-Jan-2008	19:00	1.0	WNW		
27-Jan-2008	20:00	0.0			
27-Jan-2008	20:00	0.0			
27-Jan-2008	22:00	0.0			
21-Jai-2000	22.00	0.0			

Date	Time	Wind Speed m/s	Direction
28-Jan-2008	0:00	1.0	SW
28-Jan-2008	1:00	1.0	WSW
28-Jan-2008	2:00	1.0	WNW
28-Jan-2008	3:00	1.0	WSW
28-Jan-2008	4:00	1.0	WNW
28-Jan-2008	5:00	2.0	WNW
28-Jan-2008	6:00	2.0	WNW
28-Jan-2008	7:00	3.0	NE
28-Jan-2008	8:00	2.0	ENE
28-Jan-2008	9:00	1.0	ENE
28-Jan-2008	10:00	1.0	ENE
28-Jan-2008	11:00	2.0	ENE
28-Jan-2008	12:00	2.0	ENE
	13:00	1.0	ENE
28-Jan-2008	14:00	1.0	ENE
28-Jan-2008			
28-Jan-2008	15:00	0.0	
28-Jan-2008	16:00	1.0	NNE
28-Jan-2008	17:00	2.0	NNE
28-Jan-2008	18:00	0.0	
28-Jan-2008	19:00	0.0	
28-Jan-2008	20:00	0.0	
28-Jan-2008	21:00	2.0	E
28-Jan-2008	22:00	1.0	WSW
28-Jan-2008	23:00	2.0	WNW
29-Jan-2008	0:00	2.0	WNW
29-Jan-2008	1:00	2.0	WNW
29-Jan-2008	2:00	2.0	W
29-Jan-2008	3:00	2.0	SW
29-Jan-2008	4:00	2.0	SW
29-Jan-2008	5:00	2.0	W
29-Jan-2008	6:00	3.0	SW
29-Jan-2008	7:00	2.0	W
29-Jan-2008	8:00	2.0	WNW
29-Jan-2008	9:00	1.0	SW
29-Jan-2008	10:00	2.0	WNW
29-Jan-2008	11:00	3.0	W
29-Jan-2008	12:00	3.0	W
29-Jan-2008	13:00	3.0	W
29-Jan-2008	14:00	3.0	S
29-Jan-2008	15:00	3.0	S
29-Jan-2008	16:00	3.0	S
29-Jan-2008	17:00	3.0	SSW
29-Jan-2008	18:00	3.0	SW
29-Jan-2008	19:00	2.0	WSW
29-Jan-2008	20:00	1.0	W
29-Jan-2008	21:00	1.0	SW
29-Jan-2008	22:00	0.0	
29-Jan-2008	23:00	0.0	
30-Jan-2008	0:00	0.0	
30-Jan-2008	1:00	0.0	
30-Jan-2008	2:00	1.0	SW
30-Jan-2008	3:00	0.0	
30-Jan-2008	4:00	1.0	SW
30-Jan-2008	5:00	1.0	WSW

Date	Time	Wind Speed m/s	Direction	
30-Jan-2008	6:00	1.0	WSW	
30-Jan-2008	7:00	1.0	SW	
30-Jan-2008	8:00	0.0		
30-Jan-2008	9:00	0.0		
30-Jan-2008	10:00	0.0		
30-Jan-2008	11:00	0.0		
30-Jan-2008	12:00	1.0	WNW	
30-Jan-2008	13:00	2.0	WNW	
30-Jan-2008	14:00	2.0	WNW	
30-Jan-2008	15:00	1.0	W	
30-Jan-2008	16:00	1.0	WSW	
30-Jan-2008	17:00	2.0	WNW	
30-Jan-2008	18:00	2.0	WNW	
30-Jan-2008	19:00	2.0	W	
30-Jan-2008	20:00	2.0	WNW	
30-Jan-2008	21:00	2.0	WNW	
30-Jan-2008	22:00	2.0	WNW	
30-Jan-2008	23:00	2.0	WNW	
31-Jan-2008	0:00	3.0	WNW	
31-Jan-2008	1:00	3.0	NW	
31-Jan-2008	2:00	4.0	WNW	
31-Jan-2008	3:00	4.0	WNW	
31-Jan-2008	4:00	4.0	WNW	
31-Jan-2008	5:00	4.0	WNW	
31-Jan-2008	6:00	3.0	WNW	
31-Jan-2008	7:00	2.0	WNW	
31-Jan-2008	8:00	3.0	W	
31-Jan-2008	9:00	3.0	WNW	
31-Jan-2008	10:00	3.0	W	
31-Jan-2008	11:00	3.0	W	
31-Jan-2008	12:00	2.0	W	
31-Jan-2008	13:00	2.0	W	
31-Jan-2008	14:00	2.0	WSW	
31-Jan-2008	15:00	3.0	W	
31-Jan-2008	16:00	2.0	SW	
31-Jan-2008	17:00	2.0	WSW	
31-Jan-2008	18:00	2.0	SSW	
31-Jan-2008	19:00	2.0	SW	
31-Jan-2008	20:00	2.0	WNW	
31-Jan-2008	21:00	2.0	WNW	
31-Jan-2008	22:00	2.0	WNW	
31-Jan-2008	23:00	2.0	WNW	

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

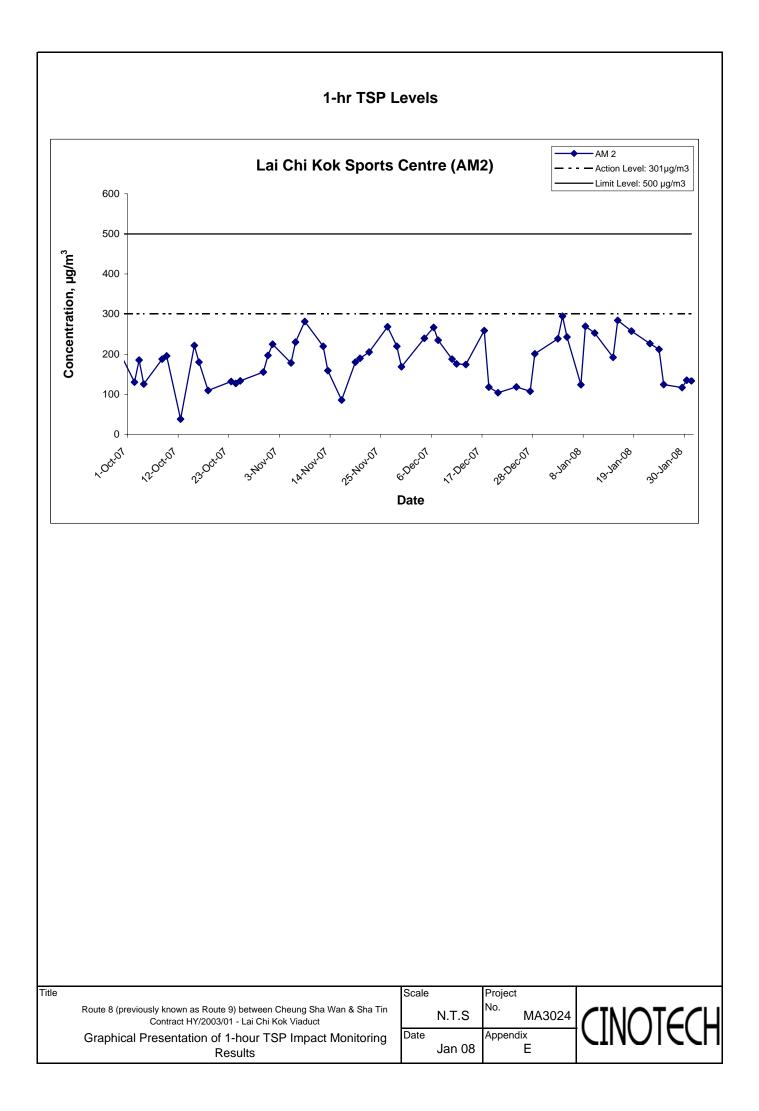
Appendix E - 1-hour TSP Monitoring Results

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)
2-Jan-08	Sunny	2.8282	2.8459	1.24	1.24	7081.1	7082.1	284.1	771.5	0.0177	1.24	74.1	1.0	238.7
3-Jan-08	Sunny	2.8360	2.8578	1.23	1.23	7082.1	7083.1	286.0	772.0	0.0218	1.23	73.9	1.0	294.8
4-Jan-08	Sunny	2.8295	2.8474	1.23	1.23	7083.1	7084.1	288.0	770.3	0.0179	1.23	73.6	1.0	243.1
7-Jan-08	Sunny	2.8675	2.8766	1.22	1.22	7108.1	7109.1	290.0	767.9	0.0091	1.22	73.3	1.0	124.1
8-Jan-08	Sunny	2.7970	2.8166	1.21	1.21	7109.1	7110.1	292.4	760.4	0.0196	1.21	72.7	1.0	269.5
10-Jan-08	Sunny	2.8003	2.8187	1.21	1.21	7110.1	7111.1	293.4	764.6	0.0184	1.21	72.8	1.0	252.7
14-Jan-08	Sunny	2.8251	2.8394	1.24	1.24	7135.1	7136.1	286.2	768.5	0.0143	1.24	74.3	1.0	192.4
15-Jan-08	Sunny	2.7963	2.8175	1.24	1.24	7136.1	7137.1	285.5	770.6	0.0212	1.24	74.5	1.0	284.6
18-Jan-08	Cloudy	2.7947	2.8138	1.24	1.24	7161.1	7162.1	287.8	768.2	0.0191	1.24	74.1	1.0	257.7
22-Jan-08	Cloudy	2.8223	2.8391	1.24	1.24	7162.1	7163.1	287.2	767.9	0.0168	1.24	74.2	1.0	226.5
24-Jan-08	Cloudy	2.8451	2.8609	1.24	1.24	7187.1	7188.1	286.1	771.3	0.0158	1.24	74.4	1.0	212.3
25-Jan-08	Cloudy	2.8549	2.8642	1.25	1.25	7188.1	7189.1	282.7	770.2	0.0093	1.25	74.8	1.0	124.4
29-Jan-08	Cloudy	2.8329	2.8416	1.24	1.24	7189.1	7190.1	284.1	765.6	0.0087	1.24	74.4	1.0	116.9
30-Jan-08	Cloudy	2.8466	2.8567	1.25	1.25	7214.1	7215.1	281.4	766.9	0.0101	1.25	74.8	1.0	135.1
31-Jan-08	Cloudy	2.8158	2.8258	1.25	1.25	7215.1	7216.1	281.7	767.3	0.0100	1.25	74.8	1.0	133.8
		•		-				-		•			Min	116.9

 Max
 294.8

 Average
 207.1

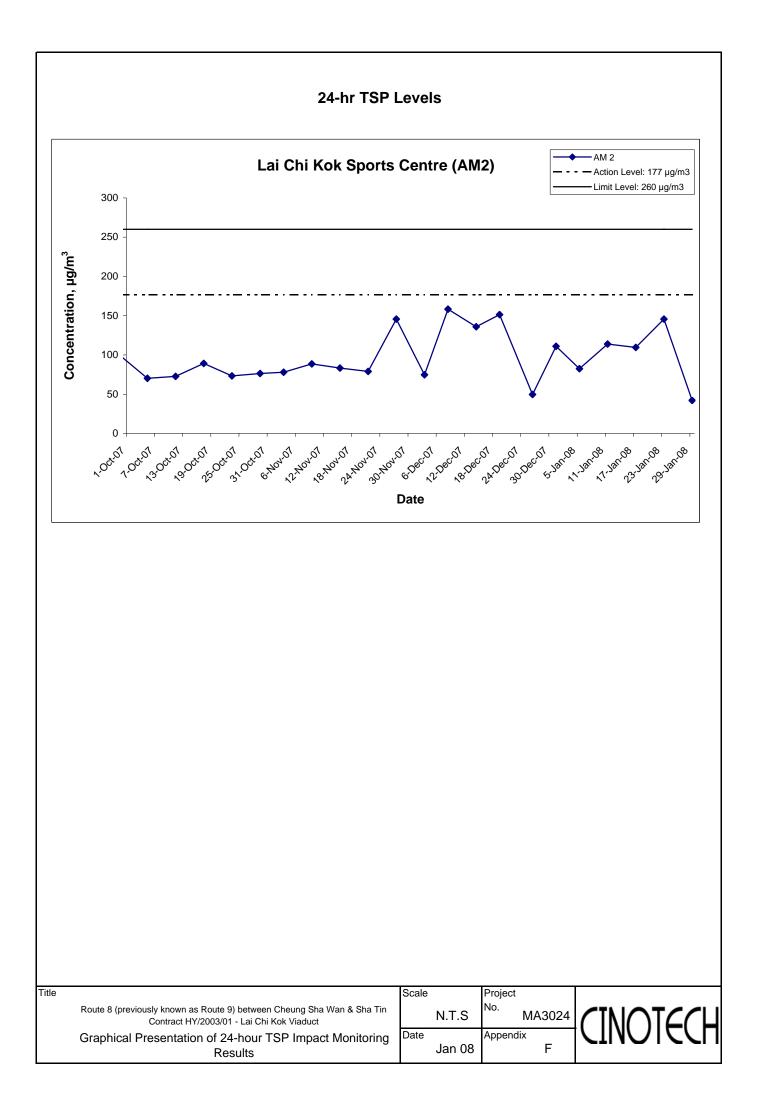


APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter Weight (g)		Filter Weight (g) Flow Rate (m ³ /min.)		Elaps	Elapse Time		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)
5-Jan-08	Sunny	2.8427	2.9878	1.22	1.22	7084.1	7108.1	289.9	767.0	0.1451	1.22	1758.9	24.0	82.5
11-Jan-08	Sunny	2.8112	3.0116	1.22	1.22	7111.1	7135.1	293.9	763.7	0.2004	1.22	1759.3	24.0	113.9
17-Jan-08	Cloudy	2.8849	3.0794	1.23	1.23	7137.1	7161.1	289.9	767.7	0.1945	1.23	1773.3	24.0	109.7
23-Jan-08	Cloudy	2.8109	3.0693	1.24	1.24	7163.1	7187.1	286.6	769.1	0.2584	1.24	1774.0	24.0	145.7
29-Jan-08	Cloudy	2.8289	2.9043	1.24	1.24	7190.1	7214.1	284.1	765.5	0.0754	1.24	1786.0	24.0	42.2
													Min	42.2
													Max	145.7
													Average	98.8



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

ocation NM2 - Lai Chi Kok Reception Centre												
					Unit: dB (A) (30)-min)						
Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	Remarks					
		L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}						
9:00	Sunny	68.2	71.2	65.7		68.2, Measured [Baseline						
13:00	Sunny	66.9	72.7	62.7		66.9, Measured [Baseline						
11:30	Cloudy	65.4	67.7	56.7	68.4	65.4, Measured [Baseline	Resumed since September 2006					
11:25	Sunny	69.8	72.2	63.7		64.2						
13:15	Cloudy	64.8	67.7	59.2		64.8, Measured [Baseline						
	Time 9:00 13:00 11:30 11:25	TimeWeather9:00Sunny13:00Sunny11:30Cloudy11:25Sunny	Time Weather Measure 9:00 Sunny 68.2 13:00 Sunny 66.9 11:30 Cloudy 65.4 11:25 Sunny 69.8	Time Weather Measured Nois 9:00 Sunny 68.2 71.2 13:00 Sunny 66.9 72.7 11:30 Cloudy 65.4 67.7 11:25 Sunny 69.8 72.2	Time Weather Measured Noise Level L _{eq} L ₁₀ L ₉₀ 9:00 Sunny 68.2 71.2 65.7 13:00 Sunny 66.9 72.7 62.7 11:30 Cloudy 65.4 67.7 56.7 11:25 Sunny 69.8 72.2 63.7	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $					

Location NM4 - Mei Foo Sun Chuen, Phase 5										
		Weather				Unit: dB (A) (30				
Date	Time		Measured Noise Level			Baseline Level	Construction Noise Level	Remarks		
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
4-Jan-08	9:45	Sunny	72.7	77.5	69.5		72.7, Measured [Baseline			
8-Jan-08	10:18	Sunny	70.6	76.0	68.5		70.6, Measured [Baseline	Road traffic noise from Ching		
15-Jan-08	10:40	Cloudy	75.4	78.0	68.0	73.8	70.3	Cheung Road was identified as the		
22-Jan-08	13:00	Sunny	74.2	76.0	66.5		63.6	major noise source.		
29-Jan-08	11:30	Cloudy	75.8	78.5	69.5		71.5			

Location NM8a - M/F of Nob Hill									
Date	Time	Weather	Unit: dB (A) (30-min)			Remarks			
			L _{eq}	L ₁₀	L ₉₀				
4-Jan-08	10:30	Sunny	73.7	77.5	69.5				
8-Jan-08	9:00	Sunny	72.7	74.0	64.5	Road traffic noise from Ching Cheung Road			
15-Jan-08	13:10	Cloudy	73.8	75.5	64.5	was identified as the major noise source.			
22-Jan-08	9:20	Cloudy	72.4	74.0	69.5	was identified as the major hoise source.			
29-Jan-08	10:00	Cloudy	73.5	76.0	69.5				

Location NM8b - 3/F of Nob Hill									
Date	Time	Weather	Unit: c	IB (A) (3	0-min)	Remarks			
			L _{eq}	L ₁₀	L ₉₀				
4-Jan-08	11:15	Sunny	71.9	75.0	68.0	This Station (NM8b) which is strongly			
8-Jan-08	9:39	Sunny	71.4	73.0	65.0	influenced by road traffic noise from Ching			
15-Jan-08	13:50	Cloudy	76.2	78.5	00.0	Cheung Road. The measurement at this station			
22-Jan-08	10:00	Cloudy	78.7	80.0	76.5	is for reference purpose, but not for compliance			
29-Jan-08	10:40	Cloudy	76.4	79.0	70.5	check for construction noise.			

Location NM9 - Hoi Lai Estate									
Date Time Weather		Unit: c	IB (A) (3	80-min)	Remarks				
			L _{eq}	L ₁₀	L ₉₀				
4-Jan-08	14:10	Sunny	67.3	69.5	65.0				
8-Jan-08	10:59	Sunny	65.6	67.0	62.5				
15-Jan-08	16:00	Cloudy	72.1	74.5	65.0	-			
22#Jaons Buct	io h3%45 e	LeSeln(IDe)q) =	1664a8ure	d 6/3 i\$0e I	.ev 5e41(15 eo) - Baseline Noise Level (Leq)			
29-Jan-08	14:20	Cloudy	69.7	72.5	65.5				

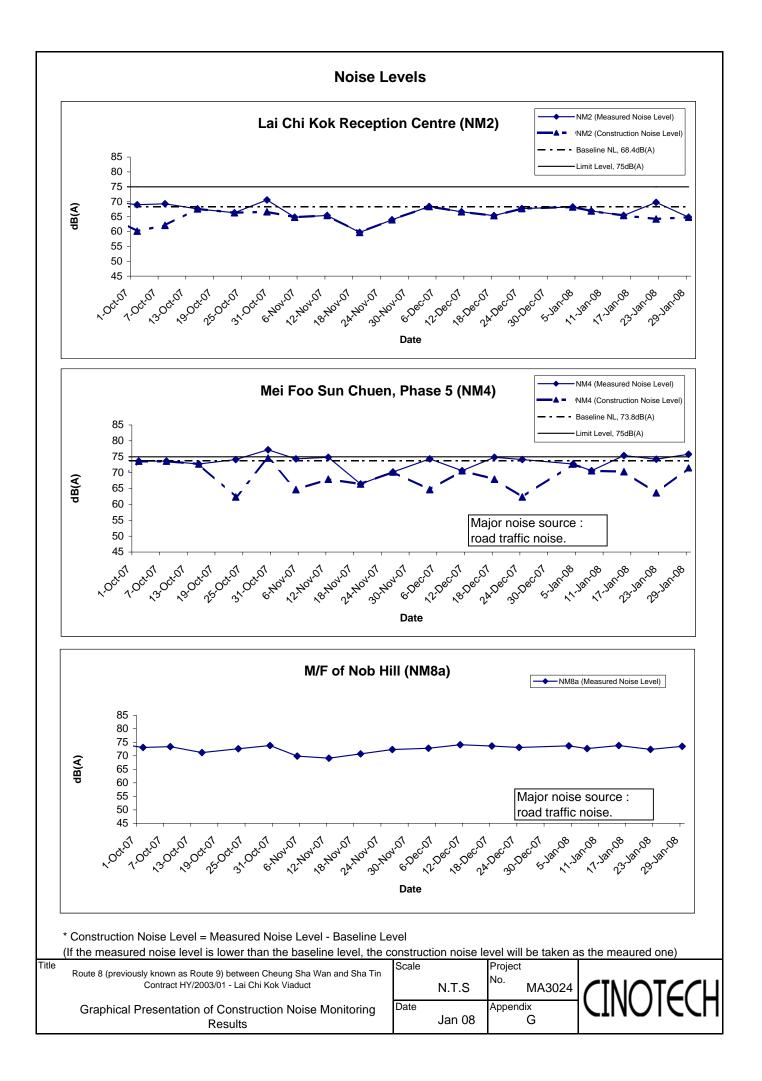
*Bolded value indicated limit level exceedance

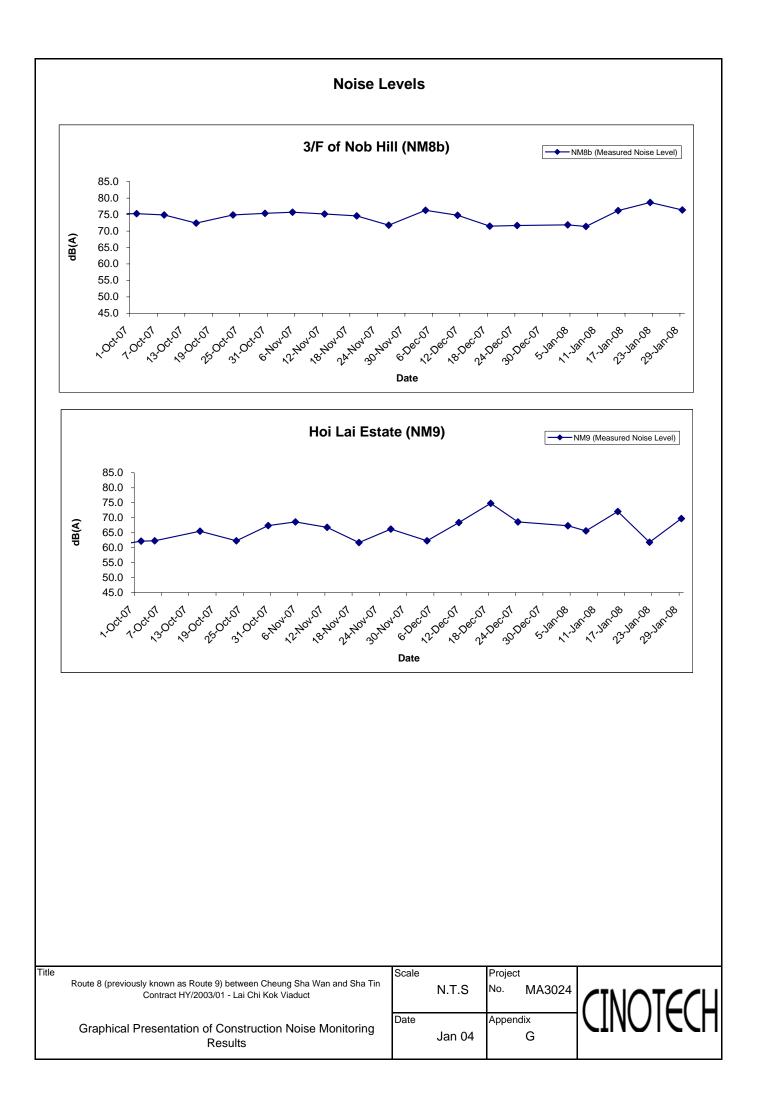
Appendix G - Noise Monitoring Results

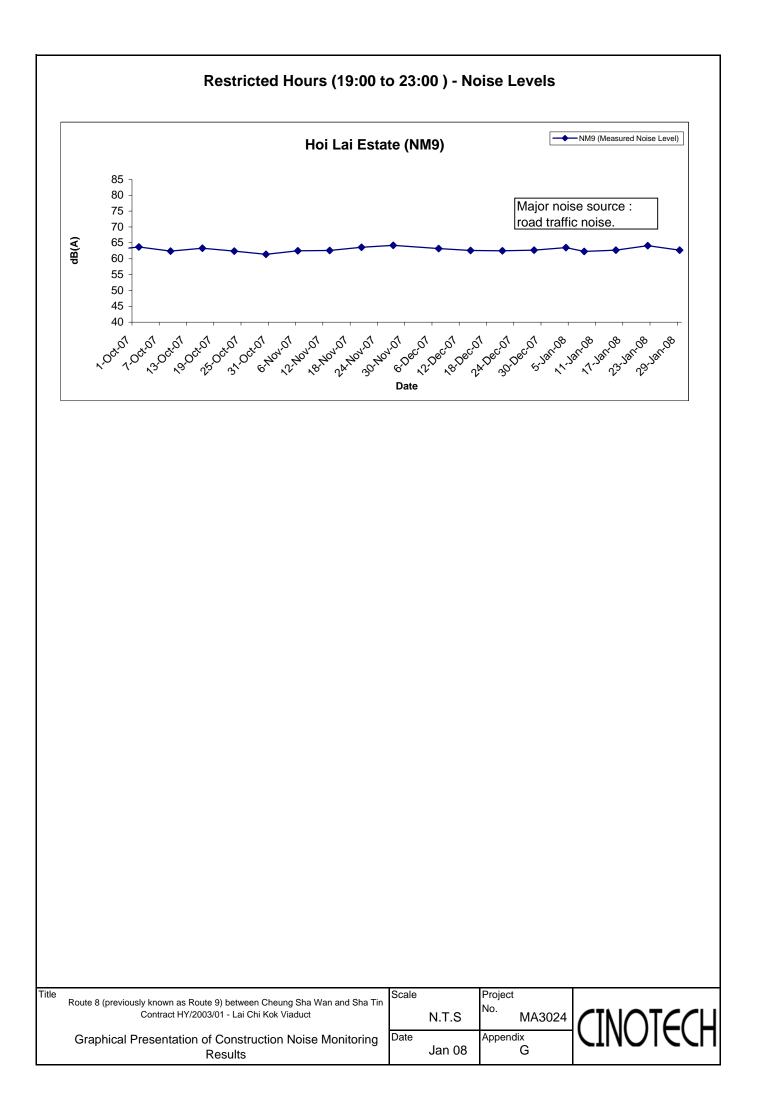
Restricted Hours - 19:00 to 23:00 on normal weekdays

Location NM9 - Hoi Lai Estate									
Data	Time		dB (A) (5-min)						
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	Average L _{eq}			
	19:00		63.5	66.5	60.5				
4-Jan-08	19:05	Cloudy	63.7	66.5	60.5	63.5			
	19:10		63.2	66.0	60.0				
	19:05		62.8	65.0	59.5				
8-Jan-08	19:10	Cloudy	62.0	65.0	59.0	62.3			
	19:15		62.2	65.0	59.0				
	19:30		62.5	64.0	58.0	62.7			
15-Jan-08	19:35	Cloudy	62.7	64.0	58.0				
	19:40		62.8	64.0	58.0				
	20:00		64.0	69.0	61.0				
22-Jan-08	20:05	Cloudy	64.3	69.5	61.0	64.1			
	20:10		64.1	69.0	61.0				
	19:00		62.7	65.5	59.0				
29-Jan-08	19:05	Cloudy	62.4	65.5	59.0	62.7			
	19:10		62.9	66.0	59.0				

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

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

b) Exceedance Report for 24-hr TSP

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

c) Exceedance Report for Construction Noise

- One Action Level exceedances was recorded due to noise complaints received on 21 January 2008.
- No noise Limit Level exceedance was recorded in the reporting monthly.

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	80102C-LCKV
Date	2 January 2008 (Wednesday)
Time	09:30 – 10:40

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

Ref. No.	Remarks/Observations	Related Item No.
R 02	 A. Water Quality Follow up with the last site inspection, although the Contractor has put the granular larvicides, it is recommended to dry the water out from the hole to prevent mosquito breed. 	B14
R 01	 B. Air Quality Follow up with last site inspection, the stockpile was in used by the Contractor at Lai Po Raod. The Contractor was reminded to cover it properly to suppress the dust generation when it is not in used. 	C8
O 01	 C. Noise No environmental deficiency was identified during the site inspection. D. Waste / Chemical Management Oil leakage was observed on the ground at Nob Hill. The Contractor was advised to clear the oil. 	E12
R 02	 <i>E. Permit / Licenses</i> No environmental deficiency was identified during the site inspection. <i>F. Others</i> Follow up with the last site inspection, although the Contractor has put the granular larvicides, it is recommended to dry the water out from the hole 	G5
	 to prevent mosquito breed. Follow-up on previous audit (Ref. No.:71228-LCKV), although the environmental deficiencies have been improved, follow up actions are needed for further improvement on the pervious items. Covering of loaded truck leaving the site was checked during the site inspection. No uncovered truck leaving the construction site was observed during the site inspection. 	

	Name	Signature	Date
Recorded by	Grace Wong	broce	2 January 2008
Checked by	Dr. Priscilla Choy	NE	2 January 2008

Checklist Reference Number	80102-LCKV-TCSS	
Date	2 January 2008 (Wednesday)	
Time	11:20 - 11:40	

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 for previous audit session (Ref. No.: 71205-LCKV-TCSS), no	
	environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Grace Wong	brace	2 January 2008
Checked by	Dr. Priscilla Choy	WIL	2 January 2008

Checklist Reference Number	80109C-LCKV	
Date	9 January 2008 (Wednesday)	
Time	14:15 - 15:40	

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

Ref. No.	Remarks/Observations	Related Item No.
R 02	 A. Water Quality Follow up with the last site inspection, standing water was still observed at Lai Po Road. The Contractor was reminded to dry the water out to prevent mosquito breed. 	B14
R 01	 <i>B. Air Quality</i> Follow up with last site inspection, the stockpile was partially covered at Lai Po Road. The Contractor was reminded to cover it well. 	C8
	 <i>C. Noise</i> No environmental deficiency was identified during the site inspection. <i>D. Waste / Chemical Management</i> No environmental deficiency was identified during the site inspection. 	
	 <i>E. Permit / Licenses</i> No environmental deficiency was identified during the site inspection. 	
R 02	 F. Others Follow up with the last site inspection, standing water was still observed at Lai Po Road. The Contractor was reminded to dry the water out to prevent mosquito breed. 	G5
	 Follow-up on previous audit (Ref. No.:80102-LCKV), the environmental deficiencies were found to be rectified/ improved except the item 80102-LCKV-R01 and 80102-LCKV-R02. Follow up action is needed for the outstanding items. Covering of loaded truck leaving the site was checked during the site inspection. No uncovered truck leaving the construction site was without cover. 	

	Name	Signature	Date
Recorded by	Grace Wong	lowe.	9 January 2008
Checked by	Dr. Priscilla Choy	. T	9 January 2008

Checklist Reference Number	80116C-LCKV	
Date	16 January 2008 (Wednesday)	
Time	09:00 - 10:20	

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

Ref. No.	Remarks/Observations	Related Item No.
	<i>A. Water Quality</i>No environmental deficiency was identified during the site inspection.	
	<i>B. Air Quality</i>No environmental deficiency was identified during the site inspection.	
	<i>C. Noise</i>No environmental deficiency was identified during the site inspection.	
O01	 D. Waste / Chemical Management Contaminated soil was observed at Nob Hill next to the drip tray under the bridge. The Contractor was advised to clean the soil up and remind the operator to add the oil carefully. 	E12
002	 General refuse was observed accumulating at Lai Wan Road where is opposite to the Lai Chi Kok Public Library. The Contractor was advised to clean them out. <i>E. Permit / Licenses</i> No environmental deficiency was identified during the site inspection. 	E1i, E1iii
	 F. Others Follow-up on previous audit (Ref. No.:80109-LCKV), all of the environmental deficiencies were found to be rectified/ improved during the site inspection. Covering of loaded truck leaving the site was checked during the site inspection. No uncovered truck leaving the construction site was observed. 	

	Name	Signature	Date
Recorded by	Grace Wong	Groce.	16 January 2008
Checked by	Dr. Priscilla Choy	NI	17 January 2008

Checklist Reference Number	80123C-LCKV	
Date	23 January 2008 (Wednesday)	
Time	10:30 - 11:30	

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

Ref. No.	Remarks/Observations	Related Item No.
O01	 A. Water Quality Further rock dowell drilling will undergoes at Nob Hill. The Contractor was advised to install geotextile into the manholes to prevent any surface runoff running into the manholes nearby. 	B13
	B. Air QualityNo environmental deficiency was identified during the site inspection.	
	<i>C. Noise</i>No environmental deficiency was identified during the site inspection.	
	 D. Waste / Chemical Management No environmental deficiency was identified during the site inspection. 	
	<i>E. Permit / Licenses</i>No environmental deficiency was identified during the site inspection.	
	 F. Others Follow-up on previous audit (Ref. No.:80116-LCKV), all of the environmental deficiencies were found to be rectified/ improved during the site inspection. Covering of loaded truck leaving the site was checked during the site inspection. No uncovered truck leaving the construction site was observed. 	

	Name	Signature	Date
Recorded by	Grace Wong	Course.	23 January 2008
Checked by	Dr. Priscilla Choy	WI	23 January 2008

Checklist Reference Number	80130C-LCKV
Date	30 January 2008 (Wednesday)
Time	09:20 - 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
O01	 A. Water Quality The discharge from rock dowel was observed overflow into the geo-textile installed in the manhole at Nob Hill. The Contractor was advised to pre-treated the discharge properly (e.g. further desilt it with the sandbags/ an additional geo-textile filter) before discharging into the manhole. 	B13
	 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. 	
	<i>E. Permit / Licenses</i>No environmental deficiency was identified during the site inspection.	
	 F. Others Follow-up on previous audit (Ref. No.:80123-LCKV), the environmental deficiency was found to be rectified/ improved during the site inspection. Covering of loaded truck leaving the site was checked during the site inspection. No uncovered truck leaving the construction site was observed. 	

	Name	Signature	Date
Recorded by	Grace Wong	Grane.	30 January 2008
Checked by	Dr. Priscilla Choy	NA	30 January 2008

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		ACTIO	N	
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		ACTIO	N	
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			

Exceedance		ACTIO	N	
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)

Гуреs 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.	۸				
Construction Dust	• 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.	۸				
	• 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, unle 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.	۸				
	• 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.	۸				
	• 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.	۸				
	Use quite plant and Working Method	٨				
	• Reduce the number of plant operating in critical areas close NSRs.	^				
	Construct temporary and movable noise barriers	^				

Appendix K - Summary of Environmental Mitigation Implementation Schedule

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.	۸
	• Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	^
	• Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains.	^
	• All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains via a petrol interceptor.	^
	Tunnelling Work	-
	• Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any washout of construction or excavated materials form the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps.	N/A
	• Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to enhance deposition rates and to remove silt.	N/A
	• 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
<u> </u>	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.	٨
	• 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).	۸
	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.	٨
	• Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits.	۸
	• Waste shall be removed on a daily basis.	Λ
	• Waste storage area shall be maintained and cleaned on a daily basis.	۸
	• 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.	۸
	• Wastes shall be disposed of at licensed waste disposal facilities.	۸
	• 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.	۸
	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.	۸
	Construction and Demolition (C&D) Waste	
	Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts.	^
	 The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage. 	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.	۸
Chemical Waste	
• Chemical waste that is produce during construction shall be handled in accordance with the Cod of Practice on the Packaging, Handling and Storage of Chemical Wastes.	^
 Containers used for the storage of chemical wastes should: a. Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; b. Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; c. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. 	٨
 The storage area for chemical wastes should: a. Be clearly labelled and used solely for the storage of chemical waste; b. Be enclosed on at least 3 sides; c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest; d. Have adequate ventilation; e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); f. Be arranged so that incompatible materials are adequately separated. Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a 	٨
reuser of the waste (under approval from EPD).	٨
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.	^

	• A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza.	N/A
	Conduct a tree survey before commencement of the construction work.	^
Faalaay	• 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.	N/A
	• Wild and uncontrolled fire shall be strictly prohibited	^
	• Fences shall be erected along the boundary of the construction sites at the Toll Plaza before commencement of works, to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent wooded areas.	N/A
	• Landscape 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 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.	۸
	Measurement of vibration would also be carried out on a need basis during the piling work	^
Remarks:	[^] Compliance of mitigation measure; X Non-compliance of mitigation measure;	

٠

Compliance of mitigation measure; Not Applicable; N/A

Non-compliance of mitigation measure; Non-compliance but rectified by the contractor

APPENDIX L CONSTRUCTION PROGRAMME

Activity	Activity	Orig.	Early	Early	%	Rem		JAN		FEB			2008	MAR
ID	Description	Durn.	Start	Finish	Compl.	. Durn	•	21	28 4	11 18	25	3	ı 10	17
	ries & General Requirments													
Key Dates			1	00555000t			-			04050				
KD1050	KD-5: Completion of Section 3 of the Works	0		06FEB08*	0	0	-		◆KD1060	(D1050				
KD1060 KD1070	KD-6: Completion of Section 4 of the Works	0		01FEB08* 28JAN08*	0	0	-		◆KD1060					
KD1070	KD-7: Completion of Section 5 of the Works KD-8: Completion of Section 6 of the Works	0		28JAN08*	0	0	-		KD1070					
KD1000	KD-3: Completion of Section 15 of the Works	0		19JAN08*	0	0		KD1170						
Portion Acc	•	Ū		100/1100	0	U								
PD1140	Access to Portion F1 (NOT USED)	0	20JAN08*		0	0	- ·	PD1140						
Portion Vac						-								
VD1000	Vacate Portion A	0		25FEB08*	0	0	-				♦ VD100	00		
VD1010	Vacate Portion B	0		25FEB08*	0	0	1				•VD10 1	10		
VD1020	Vacate Portion C	0		05MAR08*	0	0	1						VD1020	
VD1030	Vacate Portion D1	0		05MAR08*	0	0							VD1030	
VD1040	Vacate Portion D2	0		05MAR08*	0	0							♦ VD1040	
VD1050	Vacate Portion E1	0		05MAR08*	0	0							VD1050	
VD1060	Vacate Portion E2	0		29FEB08*	0	0					•	VD1060		
VD1080	Vacate Portion E4	0		29FEB08*	0	0	_				•	VD1080		
VD1100	Vacate Portion G1	0		29FEB08*	0	0	_				•	♦VD1100)	
VD1110	Vacate Portion F1	0		19JAN08*	0	0		VD1110						
VD1120	Vacate Portion F2	0		19JAN08*	0	0	-	VD1120						
VD1130 VD1140	Vacate Portion F3 Vacate Portion G2	0		19JAN08* 29FEB08*	0	0	-	VD1130				♦VD1140	, ,	
VD1140 VD1150	Vacate Portion G2	0		29FEB08 29FEB08*	0	0	-					VD1150		
VD1160	Vacate Portion G4	0		29FEB08*	0	0	-					VD1160		
VD1170	Vacate Portion K1	0		05MAR08*	0	0							VD1170	
VD1180	Vacate Portion K2 & K3	0		05MAR08*	0	0	1						VD1180	
VD1190	Vacate Portion K4 & K8	0		05MAR08*	0	0	1						VD1190	
VD1200	Vacate Portion K5 & K6	0		05MAR08*	0	0	1						VD1200	
VD1220	Vacate Portion K7, K9, K10	0		05MAR08*	0	0							♦VD1220	
VD1250	Vacate Portion W	0		29FEB08*	0	0					•	♦VD1250		
VD1260	Vacate Portion R1	0		29FEB08*	0	0						◆VD1260)	
Initial Subm					_	1								
SU1075	Continuous Upating of Works & 3 Month Progs	927	09OCT03A	17JUN08	85	123								
	emporary Works		01141400				-				T14/4 0.70			
TW1370	Design Temp Works Feature11NW-A/C66 (NOT USED)	24	21JAN08	20FEB08	0	24					TW1370			
	& Instrumentation - Existing Features	1 205*	011400040	17 11 1009	10	100*								
IM1005 IM1008	Monitoring @ Sewage Pumping Station Monitoring @ Open Storage	1,295* 1,294*	01MAR04A 02MAR04A	17JUN08 17JUN08	18 18	123* 123*								
IM1008	Monitoring @ PCCW Building	1,294	02MAR04A 01MAR04A	17JUN08	18	123								
IM1013	Monitoring in @ Existing Footbridge	1,291*	05MAR04A	17JUN08	17	123*								
IM1035	Monitoring @ W. Chandler Bldg.	1,290*	06MAR04A	17JUN08	17	123*								
IM1045	Monitoring @ Tong Yuen Factory Bdlg	1,292*	04MAR04A	17JUN08	18	123*								
IM1055	Monitoring @ LCK Off-take Station	1,292*	04MAR04A	17JUN08	18	123*		╞╼═╾						
IM1065	Monitoring @ Hop Hing Ind. Bldg.	1,292*	04MAR04A	17JUN08	18	123*		╧╼╼						
IM1075	Monitoring @ KC Rd. Flyover Str. K3	1,268*	01APR04A	17JUN08	15	123*		╞╼═╾╴	-					
IM1085	Monitoring @ CLP Link Station	1,292*	04MAR04A	17JUN08	18	123*		╈						
IM1095	Monitoring @ LCK Reception Ctr.	1,254*	19APR04A	17JUN08	14	123*								
IM2005	Monitoring @ LCKP Indoor Games Hall	1,277*	22MAR04A	17JUN08	16	123*								
IM2015	Monitoring @ LCK Public Library	1,272*	27MAR04A	17JUN08	16	123*								
IM2025	Monitoring @ Mei Foo Sun Chuen	1,271*	29MAR04A	17JUN08	17	123*								
IM2035	Monitoring @ CLP Lai Chi Kok Sub-Station	1,271*	29MAR04A	17JUN08	15	123*								
IM2045	Monitoring @ CLP Pylon A	1,254*	19APR04A	17JUN08	14	123*								
IM2065 IM2075	Monitoring @ Nob Hill Development	1,277* 1,223*	22MAR04A 26MAY04A	17JUN08 17JUN08	16 10	123* 123*								
Start Date	Monitoring @ Lai Wan Road Overpass	1,223"		17JUN08 P3 File : LU5		123"						boot 4	67	
Finish Date			17JUN09	rs rile : LUt	52		Hi~	hwave Do	partment Contract	No HV/2002/01	8	Sheet 1 o	1 /	
Data Date Run Date			20JAN08 26JAN08 10:03				ing		e 8 - Lai Chi Kok V					1
								3 Mc	onth Rolling Progra	amme				1
									rom 21 January 20					
	© Primavera Systems, Inc.													

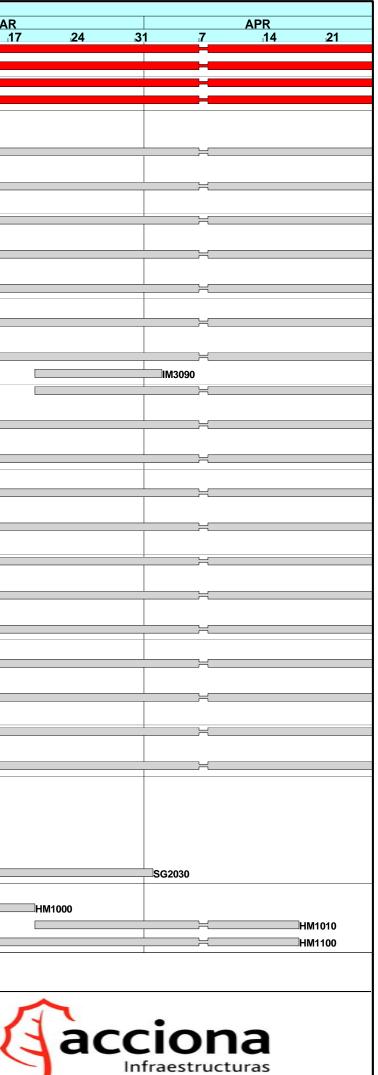


Activity	Activity	Orig.	Early	Early	%	Rem		,						20	08	
ID	Description	Durn.	Start	Finish	Compl.	.Durn.		JAN 21	28	4		FEB 18	25	3	10	MAF
IM2085	Monitoring @ CLP H/ways Structure K40C	1,268*	01APR04A	17JUN08	15	123*			- 20				ZJ	J		
IM2095	Monitoring @ CLP H/ways Structure K2	1,268*	01APR04A	17JUN08	15	123*			_							
IM2105	Monitoring @ CLP H/ways Structure K116	1,271*	29MAR04A	17JUN08	15	123*										
IM2135	Monitoring @ Along Lai Wan Road	1,254*	19APR04A	17JUN08	15	123*										
Monitorina	& Instrumentation - New Works															
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	21JAN08	06FEB08	0	12			-		IM3010					
IM3015	Monitoring @ Cut Slope CCR-S1	123*	21JAN08	17JUN08	0	123*	1		_							
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	21JAN08	06FEB08	0	12	1				IM3020					
IM3025	Monitoring @ Cut Slope CCR-S2	123*	21JAN08	17JUN08	0	123*			=							
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	21JAN08	06FEB08	0	12	-		=		IM3030					
IM3035	Monitoring @ Cut Slope CCR-S3	123*	21JAN08	17JUN08	0	123*										
IM3040	Install Instrumentation @ Cut Slope CCR-S4	123	21JAN08	06FEB08	0	123	-				IM3040					
IM3045	Monitoring @ Cut Slope CCR-S4	123*	21JAN08	17JUN08	0	123*	-									
IM3045			21JAN08 21JAN08	06FEB08	0	123	-				IM3050					
	Install Instrumentation @ Cut Slope CCR-S5	12			-		-									
IM3055	Monitoring @ Cut Slope CCR-S5	123*	21JAN08	17JUN08	0	123*					IM3060					
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	21JAN08	06FEB08	0	12	-				111/130/60					
IM3065	Monitoring @ Cut Slope CCR-S6	123*	21JAN08	17JUN08	0	123*	-									
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	21JAN08	06FEB08	0	12	-				IM3080					
IM3085	Monitoring @ Slope 11NW-A/C26	123*	21JAN08	17JUN08	0	123*	-		=							
IM3090	Install Instrumentation @ Slope 11NW-A/FR54 & 55	12	20MAR08	02APR08	0	12										
IM3095	Monitoring @ Slope 11NW-A/FR54 & 55	75*	20MAR08	17JUN08	0	75*	_									
IM3110	Install Instrumentation @ Slip Road A Embankment	12	21JAN08	06FEB08	0	12	_		=		IM3110					
IM3115	Monitoring @ Slip Road A Embankment	123*	21JAN08	17JUN08	0	123*										
IM3120	Install Instrumentation @ Slip Road B Embankment	12	21JAN08	06FEB08	0	12			-		IM3120					
IM3125	Monitoring @ Slip Road B Embankment	123*	21JAN08	17JUN08	0	123*			-							
IM3130	Install Instrumentation @ Piers P1 to P6	12	21JAN08	06FEB08	0	12			_		IM3130					
IM3135	Monitoring @ Piers P1 to P6	123*	21JAN08	17JUN08	0	123*			_							
IM3140	Install Instrumentation @ Piers P7 to P10	12	21JAN08	06FEB08	0	12					IM3140					
IM3145	Monitoring @ Piers P7 to P10	123*	21JAN08	17JUN08	0	123*										
IM3150	Install Instrumentation @ Piers P11 to P15	12	21JAN08	06FEB08	0	12			-		IM3150					
IM3155	Monitoring @ Piers P11 to P15	123*	21JAN08	17JUN08	0	123*			_							
IM3160	Install Instrumentation @ Piers P16 to P18	12	21JAN08	06FEB08	0	12					IM3160					
IM3165	Monitoring @ Piers P16 to P18	123*	21JAN08	17JUN08	0	123*			=							
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12	21JAN08	06FEB08	0	12			-		IM3170					
IM3175	Monitoring @ Piers P19 to Abut. M	123*	21JAN08	17JUN08	0	123*	1		_							
IM3180	Install Instrumentation @ Piers on Slip Road A	12	21JAN08	06FEB08	0	12			_		IM3180					
IM3185	Monitoring @ Piers on Slip Road A	123*	21JAN08	17JUN08	0	123*	-		-							
IM3190	Install Instrumentation @ Piers on Slip Road B	12	21JAN08	06FEB08	0	12	-		-		IM3190					
IM3195	Monitoring @ Piers on Slip Road B	123*	21JAN08	17JUN08	0	123*	-		_							
IM3200	Install Instrumentation @ Piers on Slip Road C	12	21JAN08	06FEB08	0	12	-				IM3200					
IM3205	Monitoring @ Piers on Slip Road C	123*	21JAN08	17JUN08	0	123*			-							
IM3210	Install Instrumentation @ Piers on Slip Road D	120	21JAN08	06FEB08	0	120	-		_		IM3210					
IM3215	Monitoring @ Piers on Slip Road D	123*	21JAN08	17JUN08	0	123*	-									
1		125	ZIJANUO	1730108	0	125	-									
Procurem	ent															
Signage			1	1		1										
SG2000	Signage - Award of Sub-contract (NOT USED)	0	21JAN08		0	0		♦ \$G2000								
SG2010	Signage - Shop Drawings (NOT USED)	50	21JAN08	29JAN08	0	5			SC	G2010						
SG2020	Signage - Rev & Appro of Shop Dwgs. (NOT USED)	24	30JAN08	26FEB08	0	24							SG	2020		
SG2030	Signage - Off-Site Fabr'n of Signs (NOT USED)	50	27FEB08	01APR08	0	30										
High Mast	Lighting (NOT USED)															
HM1000	High Mast Lighting -Foundation Design (NOT USED)	48	21JAN08	19MAR08	0	48	1		_							
HM1010	High Mast Lighting - Appr of Found'n (NOT USED)	24	20MAR08	17APR08	0	24	1									
				1	-	-	_			1				1		

Start Date Finish Date Data Date Run Date 23SEP03 17JUN09 20JAN08 26JAN08 10:03

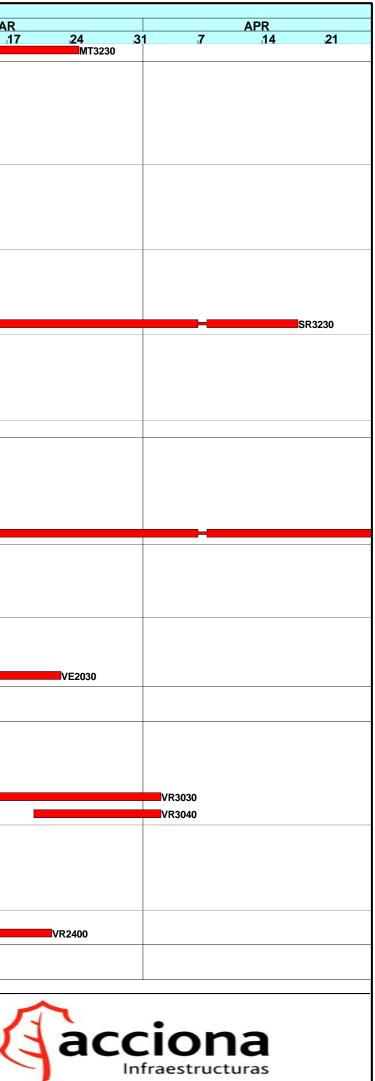
Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 21 January 2008 Sheet 2 of 7

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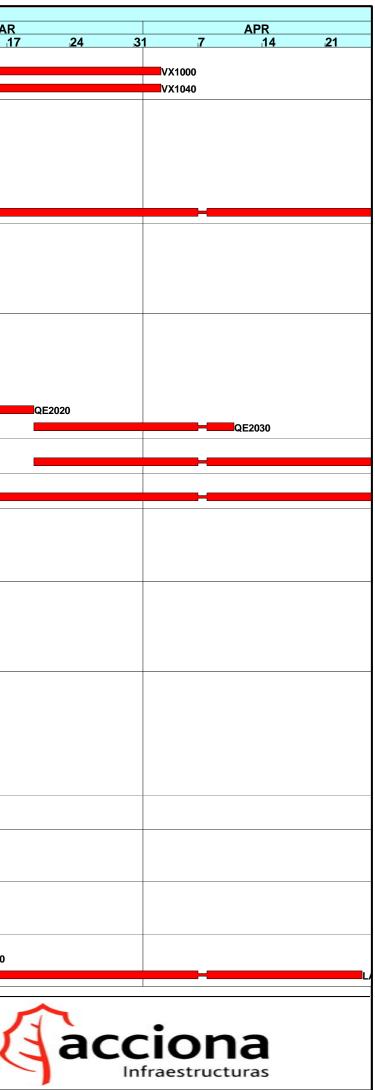


				_		_									2008								
Activity	Activity	Orig.	Early	Early	% Compl	Rem		JAN				FEB					MAR					APR	
	Description	Durn.	Start	Finish	Compi.	.Durn.		<u>21</u> 28		4	_. 11	18	25	3		10	17	24	31	1	7	14	21
	Main Line - Piers PA to P6																						
MF1050	Superstructure Finishing Works PA to P6 - Top Rail to Parapets	24	21AUG07A	29JAN08	30	5			MF1050														
MF1060	PA to P6 - Flexible Pavement	12	14MAY07A	31JAN08	80	2			MF1	060													
MF1080	PA to P6 - Road Marking & Traffic Signage	3	02FEB08	05FEB08	0	3	-			MF [,]	1080												
MF1090	P6 - Landscaping - Planting 0n Viaduct	10	17JAN08A	20FEB08	50	5							MF1090										
MF1100	P6 - Landscape Establishment Works on Viaduct	301	21FEB08	19FEB09	0	301	1																
Viaduct -	Slip Road A			1																			
1	Superstructure Finishing Works																						
AF1060	Slip Rd. A - Flexible Pavement	18	19MAY07A	28JAN08	75	4			F1060														
AF1070	Slip Rd. A - Viaduct Road Lighting (by Others)	12	21JAN08	06FEB08	0	12	1			A	F1070												
AF1080	Slip Rd. A - Road Marking & Traffic Signage	8	29JAN08	06FEB08	0	8				A	F1080												
Viaduct -	Slip Road B																						
Remaining	Superstructure Finishing Works																						
BF1070	Slip Rd. B - Flexible Pavement	4	14APR07A	29JAN08	75	1			BF1070														
BF1080	Slip Rd. B - Road Marking & Traffic Signage	4	06FEB08	09FEB08	0	4					BF108	0											
BF1085	Slip Rd. B - Viaduct Road Lighting (by Others)	12	21JAN08	06FEB08	0	12				В	BF1085												
At Grade	Norks - Lai Po Road																						
Lai Po Roa	d (D3) Roadworks - Stage 1																						
WR1250	Lai Po Rd N/B Ch.1+250-1+360 -Utilities NOT USED	12	21JAN08	06FEB08	0	12				M	VR1250												
	d (D3) Roadworks - Stage 4																						
WR2145	Lai Po Rd S/B Ch.1+000 - 1+360 -Street Lighting	12	05DEC07A	28JAN08	70	4	_		VR2145														
WR2150	Lai Po Rd S/B Ch.1+000 - 1+360 -Marking & Signs	6	21JAN08	30JAN08	0	6	-		WR21	50													
WR1030	Lai Po Rd N/B Ch.0+946 - 1+250- Utilities	26	21JAN08	22FEB08	0	26							WR1030										
WR1155	Lai Po Rd N/B Ch.0+946 - 1+360 - Street Lighting	18	09NOV07A	29JAN08	70	5			WR1155														
WR1160	Lai Po Rd N/B Ch.0+946 - 1+360 - Marking & Signs	12	31JAN08	13FEB08	0	12	<u> </u>					WR1160											
WR3000	Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED)	24	21JAN08	20FEB08	0	24	-						WR3000										
WR3000 WR3010	H/MLighting (3 No. Mast) - Found's (NOT USED)	12	215AN08 21FEB08	20FEB08 05MAR08	0	12	-																
	d Fire Hydrant Pump House	12	ZII ED00	0311141100		12																	
	Lai Po Rd. F/H P/House -Waterproofing (NOT USED)	12	21JAN08	06FEB08	0	12	1			M	VH1020												
Landscape																							
WX1017	Landscaping - Dwarf Walls FW1 & FW2	36	03DEC07A	15FEB08	50	20						WX1017											
WX1000	Landscaping - Earthworks & Formation	140	10NOV07A	04JUN08	20	112																	
WX1018	Landscaping - Paving	120	14NOV07A	16JUN08	10	107																	
WX1020	Landscaping Irrigation System	24	29FEB08	27MAR08	0	24]												W X1020)			
WX1040	Landscaping - Planting	24	04JAN08A	19FEB08	3	23						V	VX1040										
WX1050	Landscape Establishment Works	298	20FEB08	14FEB09	0	298																	
Viaduct -	Main Line - Piers P7 to P10																						
Remaining	Superstructure Finishing Works																						
MF2060	P7 to P10 - Flexible Pavement	9	30MAY07A	23JAN08	75	3		MF2060															
MF2080	P7 to P10 - Road Marking & Traffic Signage	8	15JAN08A	01FEB08	0	8			M	2080													
MF2090	P7 to P10 - Landscaping - Planting On Viaduct	6	05JAN08A	12FEB08	40	4	-					/IF2090											
MF2091	P7 to P10 - Landscape Establish Works on Viaduct	301	13FEB08	11FEB09	0	301																	
	Works - Lai Chi Kok Interchange																						
	Traffic Management Schemes																40						
MT1440	3rd. TTMS Butterfly Valley Rd - Implementation	232*	03JUN07A	11MAR08	0	41*						MT2140				MT14	40						
MT2140 MT3130	TTMS for Pier P8/L - Implementation 2nd. TTMS Kom Tsun Street - Site Preparation	1,195*	23FEB04A 21JAN08	12FEB08 30JAN08	29	17* 6	-		MT313	0		n i Z i 4U											
MT3130 MT3140	2nd. TTMS Kom Tsun Street - Site Preparation 2nd. TTMS Kom Tsun Street - Implementation	6 172*	20SEP07A	17APR08	0	б 72*																	MT3140
MT3200	3rd. TTMS Kom Tsun Street - Implementation 3rd. TTMS Kom Tsun Street - Prepare for Review	172	203EP07A 21JAN08	06FEB08	0	12				M	1T3200												
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	07FEB08	13FEB08	0	6	+					MT3210											
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	14FEB08	20FEB08	0	6	1						MT3220										
	1	<u> </u>				1	1	•	1						!								
Start Date Finish Date			23SEP03 17JUN09	P3 File : LU5	52			h			(NI - 1 1) /	10000101		Sheet 3	of 7		-						
Data Date Run Date			20JAN08 26JAN08 10:03				Hig	hways Departi Route 8 ·				2003/01					11			•		-	
Nun Dale			20071100 10:03					3 Month									13	a	CC	: IC)n	a	
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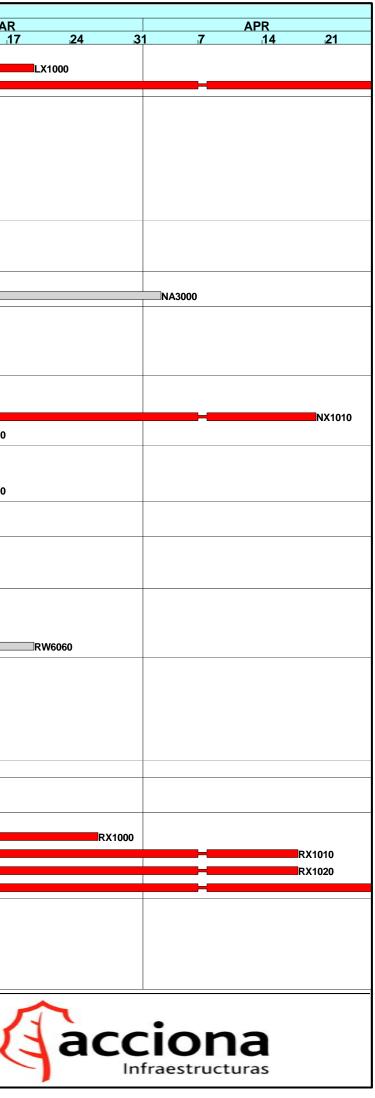
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.		JAN 21	28	2008 FEB MAR 4 11 18 25 3 10 1
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	21FEB08	24MAR08	0	28			20	
Utilities & R	Roadworks									
SR2000	Castle Peak Road - Roadworks Reinstatement	17	21JAN08	12FEB08	0	17	1			SR2000
SR5040	Butterfly V. Rd (LCKI) Stage 1 - Street Lighting	4	21JAN08	28JAN08	0	4			SR50	40
SR5060	Butterfly V. Rd (LCKI) Stage 1 - Road Marking	4	21JAN08	28JAN08	0	4	1		SR50	60
SR5240	Butterfly V. Rd (LCKI) Stage 2 - Street Lighting	4	29JAN08	01FEB08	0	4	1			SR5240
SR5250	Butterfly V. Rd (LCKI) Stage 2 - Road Marking	4	29JAN08	01FEB08	0	4	1			SR5250
SR5300	Butterfly V. Rd (LCKI) Stage4-Excav. & Formation	18	21JAN08	13FEB08	0	18				SR5300
SR5310	Butterfly V. Rd (LCKI) Stage 4 - Sub-base	18	01FEB08	21FEB08	0	18	1			SR5310
SR5320	Butterfly V. Rd (LCKI) Stage 4 - Kerbs	18	08FEB08	28FEB08	0	18				SR5320
SR5330	Butterfly V. Rd (LCKI) Stage 4 - Pavement	6	29FEB08	06MAR08	0	6	1			SR5330
SR5340	Butterfly V. Rd (LCKI) Stage 4 - Street Lighting	4	07MAR08	11MAR08	0	4	1			SR5340
SR5350	Butterfly V. Rd (LCKI) Stage 4 - Road Marking	4	07MAR08	11MAR08	0	4				SR5350
SR3200	Kom Tsun Street Bus Stn Excavate & Formation	18	29NOV07A	13FEB08	15	18				SR3200
SR3210	Kom Tsun Street bus Stn Sub-base	18	06DEC07A	20FEB08	10	18				SR3210
SR3220	Kom Tsun Street Bus Stn Kerbs	24	20DEC07A	27FEB08	10	22				SR3220
SR3230	Kom Tsun Street Bus Stn Concrete Pavement	75	10DEC07A	17APR08	5	72				
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	20SEP07A	05FEB08	5	11				SR3000
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	24SEP07A	05FEB08	5	11				SR3010
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	06FEB08	26FEB08	0	18	1			SR3020
SR3030	Kom Tsun Street L/H C/Way - Pavement	8	27SEP07A	01FEB08	5	8				SR3030
SR3035	Kom Tsun Street L/H C/Way - Street Lighting	4	02FEB08	06FEB08	0	4	1			SR3035
SR3040	Kom Tsun Street L/H C/Way - Road Marking	4	02FEB08	06FEB08	0	4				SR3040
Viaduct -	Main Line - Piers P11 to P15			I						
MF3060	Superstructure Finishing Works P11 to P16 - Flexible Pavement	9	23MAY07A	23JAN08	75	3		MF30	60	
MF3080	P11 to P16 - Road Marking & Traffic Signage	8	15JAN08A	01FEB08	2	8				MF3080
MF3090	P11 to P16 - Landscaping - Planting On Viaduct	9	04JAN08A	05FEB08	40	5				MF3090
MF3100	P11 to P16 - Landscape Establish Wks on Viaduct	301	06FEB08	04FEB09	0	301	-			
	Works - Wai Man Tsuen	001	001 2000	o li Eboo		001				
	s & Slope Works						-			VE1060
VE1060	Slope CCR-S5 - Slope Drainage & Finishes	24	21JAN08	20FEB08	0	24	-			VE1060
VE1070	Slope CCR-S5 - Landscaping & Hydroseeding	12	14FEB08	27FEB08	0	12				VE 10/0
	s & Slope Works - 11NW-A/C678 & CR679									N/FODDF
VE2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	21FEB08	23FEB08	0	3	-			VE2025
VE2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	25FEB08	01MAR08	0	6	-			VE2027
VE2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	03MAR08	22MAR08	0	18				
Drainage W						1		h		
VA1100	Butterfly Valley Rd Stage4 - Stormwater Draiange	0	21JAN08	19JAN08	0	0		VA1100		
Utilities & R										
VR3000	Drainage Maintenance Access Rd Formation	24	21JAN08	20FEB08	0	24				VR3000
VR3010	Drainage Maintenance Access Rd Sub-base	24	31JAN08	27FEB08	0	24				VR3010
VR3020	Drainage Maintenance Access Rd Kerbs	24	07FEB08	05MAR08	0	24				VR3020
VR3030	Drainage Maintenance Access Rd Pavement	48	07FEB08	02APR08	0	48				
VR3040	Drainage Maintenance Access Rd Street Lights	12	20MAR08	02APR08	0	12				
VR2140	Butterfly V. Rd (WMT) Stage 3 - Street Lighting	4	08JAN08A	22JAN08	50	2		- VR2140		
VR2150	Butterfly V. Rd (WMT) Stage 3 - Road Marking	4	21JAN08	28JAN08	0	4				50
VR2210	Butterfly V. Rd (WMT) Stage 4 - Sub-base	12	07JAN08A	22JAN08	90	2)	
VR2230	Butterfly V. Rd (WMT) Stage 4- Pavement	6	21JAN08	30JAN08	0	6				R2230
VR2240	Butterfly V. Rd (WMT) Stage 4 - Street Lighting	4	08JAN08A	22JAN08	50	2		- VR2240)	
VR2250	Butterfly V. Rd (WMT) Stage 4 - Road Marking	4	31JAN08	04FEB08	0	4				VR2250
VR2400	Butterfly V. Rd (WMT) Stage 4 - Tie-in RHS	9	12MAR08	21MAR08	0	9				
Wai Man Ts	suen Fire Hydrant Pump House								_	
VH2000	Fire Main - Pipework Along Maintenance Road	18	26FEB07A	30JAN08	90	6			V	H2000
Start Date			23SEP03 17JUN09	P3 File : LU5	52			_		Sheet 4 of 7
Data Date			20JAN08				Hig			nt Contract No. HY/2003/01
Run Date			26JAN08 10:03							i Chi Kok Viaduct
										Iling Programme January 2008
	© Primavera Systems, Inc.							11		January 2000



Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem		JAN	EB MAR
		Durn.	Sidii	FIIIISII	Compi.	. Dum.	•	21 28	<u>4 11 18 25 3 10 1</u>
Landscape	Landscaping - Earthworks & Formation	24	06MAR08	02APR08	0	24			
VX1000 VX1040	Landscaping - Soiling & Planting	24	06MAR08	02APR08	0	24	-		
		24	UUWARUU	02/11100	0	24			
	Main Line - Piers P16 to P18								
MF4050	Superstructure Finishing Works P16 to P18 - Top Rail to Parapets	12	30JUL07A	22JAN08	85	2		MF4050	
MF4050 MF4060	P16 to P18 - Top Rail to Parapets P16 to P18 - Flexible Pavement	9	02MAY07A		80	2		MF4060	
MF4060 MF4080	P16 to P18 - Flexible Pavement P16 to P18 - Road Marking & Traffic Signage	8	14JAN08A	23JAN08 29JAN08	40	5			4080
MF4080	P16 to P17 - Landscaping - Planting On Viaduct	25	04JAN08A	02FEB08	75	9			MF4090
MF4090 MF4100	P16 to P17 - Landscape Establish W/ks on Viaduct	301	045AN08A 04FEB08	02FEB08	0	301	-		
	·	501	041 EB00	UZI EB03	0	501			
	Main Line - Piers 19 to Abutment M								
	Superstructure Finishing Works	10		21 14 10 0	00	4		MF5050	
MF5050	P19 to Abut M - Top Rail to Parapets P19 to Abut M - Flexible Pavement	12	26JUL07A 20APR07A	21JAN08	90	1		MF5060	
MF5060 MF5080	P19 to Abut M - Flexible Pavement P19 to Abut M - Road Marking & Traffic Signage	8	14JAN08A	22JAN08 28JAN08	80 50	4		MF50	80
		0	14JANU0A	ZOJANUO	50	4			
	Works - Butterfly Valley								
	s & Slope Works - 11NW-A/FR54 & F55								
QE2002	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases	36	03MAY07A	20FEB08	25	24			QE2002
QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48	28MAY07A	05MAR08	25	36	-		QE2004
QE2010	Slope 11NW-A/FR54 & FR55 - Install Temp Works	36	21JAN08	05MAR08	0	36			
QE2020	Slope 11NW-A/FR54 & FR55 - Excavate & Rockfill	36	15OCT07A	19MAR08	20	29	-		
QE2030	Slope 11NW-A/FR54 & FR55 - Remove Temp. Works	18	20MAR08	10APR08	0	18			
·	Roadworks	20	2014000	021443/08	0	20	-		
QR1060	WSD Access Road - Permanent C/Way P18 to P19	36	20MAR08	02MAY08	0	36	_		
Landscape	Landscape Establishment Works	301	21JAN08	19JAN09	0	301			
		301	ZIJANU8	T9JAN09	0	301			
	Slip Road C								
	Superstructure Finishing Works					-			
CF1058	Slip Rd. C - Waterproofing of Deck (not used)	6	21JAN08	30JAN08	0	6		· ·	F1058
CF1080	Slip Rd. C - Road Marking & Traffic Signage	8	12JAN08A	28JAN08	50	4		CF10	
	Slip Road D								
	Superstructure Finishing Works				1	1			
DF1050	Slip Rd. D - Top Rail to Parapets	21	08AUG07A	23JAN08	44	3		DF1050	
DF1060	Slip Rd. D - Flexible Pavement	9	11JUL07A	23JAN08	89	1	_	DF1060	
DF1080	Slip Rd. D - Road Marking & Traffic Signage	7	06FEB08	13FEB08	0	7			DF1080
Lai Wan F	Road Overpass								
Temporary	/ Traffic Management Schemes		1	1		1			
LT3250	TTMS CC Rd (on Both Decks) - Implementation	148*	26AUG07A	23FEB08	0	27*			LT3250
LT3300	TTMS CC Rd (on Both Decks) - Prepare for Review	12	21JAN08	06FEB08	0	12			LT3300
LT3310	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	07FEB08	12FEB08	0	6	_		LT3310
LT3320	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	13FEB08	18FEB08	0	6	_		LT3320
LT3330	TTMS CC Rd (on Both Decks) - Site Preparation	4	19FEB08	22FEB08	0	4			LT3330
LT3340	Divert 1No. Lane to Each New Bridge	1	23FEB08	23FEB08	0	1	-		LT3340
LT3350	TTMS CC Rd (on Both Decks) - Implementation	0*	23FEB08	22FEB08	0	0*	<u> </u>		LI 3350
	nd - Superstructure Finishing Works	00	04 14 1/22	07140500	-	00			
LF1140	Lai Wan O/P W/B -Flange Stitch Connect NOT USED	38	21JAN08	07MAR08	0	38	_		LF1140
LF1160	Lai Wan O/Pass W/B - Remove Temporary Barriers	1	21JAN08	19JAN08	0	0		LF1160	
	d - Superstructure Finishing Works	07	04 14 1/22	0414500	-	0.5			LF1050
LF1050	Lai Wan O/P E/B - Flange Stitch Connect NOT USED	35	21JAN08	04MAR08	0	35	-		F1070
LF1070	Lai Wan O/Pass E/B - Remove Temporary Barriers	6	21JAN08	30JAN08	0	6			
Drainage V		10	00050051	40144500	45	10			
LA1000	Area Under Overpass - Stormwater Drainage	48	28DEC07A	12MAR08	15	42	-		LA1000
LA1010	Area Under Overpass - S/W Drainage in Lai Wan Rd	36	13MAR08	24APR08	0	36		1	
tart Date			23SEP03	P3 File : LU5	2				Sheet 5 of 7
Finish Date Data Date			17JUN09 20JAN08				Hig		nt Contract No. HY/2003/01
Run Date			26JAN08 10:03				-	Route 8 - La	i Chi Kok Viaduct
									Iling Programme
								from 21	January 2008
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Activity	Activity	Orig.	Early	Early	%	Rem							200	
ID	Description	Durn.	Start	Finish	Compl.			JAN _21	28 4		FEB 18	25	3	MAR 101
Landscape	Works	1							20 H			LJ	5	
LX1000	Landscaping Under Overpass - Formation	36	07FEB08	19MAR08	0	36								
LX1010	Landscaping - Hardworks (Walls etc.)	70	13FEB08	06MAY08	0	70				-				
At Grade	Works - Ching Cheung Road at LCK Par	k												
	Traffic Management Schemes													
NT1050	TTMS CC Rd (W/B C/Way) - Implementation	1,199*	05FEB04A	30JAN08	33	6*			NT1050					
NT2040	1st. TTMS CC Rd (E/B C/Way) - Implementation	952*	22NOV04A	21JAN08	0	1*								
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	20JAN08	25JAN08	0	6	_		IT2070					
NT2080	2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	28JAN08	02FEB08	0	6	-		NT2	2080				
NT2090	2nd. TTMS CC Rd (E/B C/Way) - Implementation	0*	04FEB08	02FEB08	0	0*	_		N	T2090				
NT2120	3rd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	20JAN08	25JAN08	0	6			IT2120					
NT2130	3rd. TTMS CC Rd (E/B C/Way) - Site Preparation	3	28JAN08	30JAN08	0	3			NT2130					
NT2140	Divert 2 Lanes to New East Bound Carriageway	1	21JAN08	21JAN08	0	1		NT2140						
Drainage W	Vorks			'	,	1								
NA3000	C.C. Rd. E/B in New C/way - not used	60	21JAN08	02APR08	0	60								
Utilities & F	Roadworks													
NR1050	C.C. Rd. W/B in Portion E3 - Rd Marking & Signs	6	21JAN08	30JAN08	0	6			NR1050					
NR1150	C.C. Rd. W/B in Portion J2 - Rd Marking & Signs	6	21JAN08	30JAN08	0	6			NR1150					
NR3060	C.C. Rd. E/B - Road Markings & Traffic Signs	6	04FEB08	09FEB08	0	6				NR3060				
Landscape	Works													
NX1000	Landscaping - Formation	18	31JAN08	20FEB08	0	18						NX1000		
NX1010	Landscaping - Paving	50	21FEB08	19APR08	0	50								
NX1020	Landscaping - Irrigation System	18	21FEB08	12MAR08	0	18								NX1020
At Grade	Work - Ching Cheung Road - Main Secti	on												
1	s & Slope Works - CCR-S1, S2 & S3													
RE2100	Slope CCR-S2 - Drainage (NOT USED)	42	21JAN08	12MAR08	0	42								RE2100
Slope Worl	ks Above Retaining Wall CCR-R2	1												
RE4028	Fill & Compact to Form Toe of Berm	6	21JAN08	30JAN08	0	6			RE4028					
Slope Worl	ks Above Retaining Walls CCR-R3D, E & F	1		I	1									
RE4440	Slope Above CC Rest Garden - Slope Drainage	18	10DEC07A	02FEB08	50	9			RE4	1440				
RE4450	Slope Above CC Rest Garden - Slope Finishes	12	17DEC07A	06FEB08	75	3				RE4450				
Ching Che	ung Road NTMM Retaining Wall A			'	,	1								
RW6040	NNTM Wall A -Debris Coll' Area Drainage NOt USED	12	21JAN08	06FEB08	0	12				RW6040				
RW6050	NNTM Wall A -Debris Col Area Acces Ramp NOT USED	12	07FEB08	20FEB08	0	12						RW6050		
RW6060	NNTM Wall A - Debris Coll Area Finishes NOt USED	24	21FEB08	19MAR08	0	24								
Utilities & F	Roadworks													
RA2000	Lai Wan Road - Footpath below Slope CCR-S4	24	14DEC07A	23JAN08	90	3		- RA20	000					
RA3065	Ching Cheung Rd. Road Marking & Signs	6	15JAN08A	30JAN08	10	6			RA3065					
RA5000	Ching Cheung Rd. W/B Exist C/Way - Formation	36	02MAY07A	30JAN08	70	6		┢━═══	RA5000					
RA5020	Ching Cheung Rd. W/B Exist C/Way -Kerbs NOT USED	36	21JAN08	05MAR08	0	36							RA	5020
RA5040	Ching Cheung Rd. W/B Exist C/Way - C/Barriers	24	11JAN08A	06FEB08	50	12				RA5040				
RA7000	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	21JAN08	20FEB08	0	24						RA7000		
Lai Wan O	verpass Irrigation Pump House													
RI1020	Lai Wan O/pass Irig P/H - Waterproofing NOT USed	12	21JAN08	06FEB08	0	12				RI1020				
Landscape	Works					1								
RX1000	Landscaping - Formation	72	07JAN08A	26MAR08	25	54								
RX1010	Landscaping - Paving	65	10JAN08A	17APR08	10	58								
RX1020	Landscaping - Irrigation System	72	30AUG07A	17APR08	0	72								
RX1040	Landscaping - Soiling & Planting	48	08MAR08	05MAY08	0	48								
At Grade	Works - Butterfly Valley Interchange													
	Traffic Management Schemes													
PT2250	TTMS CP Rd-KC N/B for CCR-R4 -Prepare (NOT USED)	16	21JAN08	11FEB08	0	16				PT22	50			
PT2260	TTMS CP Rd-KC N/B for CCR-R4 - CRE End(NOT USED)	6	12FEB08	17FEB08	0	6					PT22	50		
PT2270	TTMS CP Rd-KC N/B for CCR-R4 - R/A (NOT USED)	7	18FEB08	24FEB08	0	7	1					PT2270		
Start Date			23SEP03	P3 File : LU	52								Sheet 6 of 7	
Finish Date Data Date			17JUN09 20JAN08				Hia	hwavs De	partment Con	tract No. HY/2	003/01			
Run Date			20JAN08 26JAN08 10:03				- 3		e 8 - Lai Chi k					1
									onth Rolling P					
								f	rom 21 Janua	ry 2008				
1	© Primavera Systems, Inc.													



Activity	Activity	Orig.	Early	Early	%	Rem							2008							
ID	Description	Durn.	Start	-	Compl			JAN _21	28 4	FEB _11	18 25		3 10	MAR 17	24		 31	.7	APR14	21
PT2280	TTMS CP Rd-KC S/B - Re-open Slip Road (NOT USED)	0		23FEB08	0	0		<u></u>	20 4		<u>↓10 23</u> ♦PT2	280	S 10	117	24	N		1	14	Z I
PT2288	TTMS CP Rd-KC N/B-Close Loop to CC Rd(NOT USED)	0		23FEB08	0	0					⊘РТ2	288								
PT2290	TTMS CP Rd-KC N/B for CCR-R4 - Implem(NOT USED)	425*	21JAN08	17JUN09	0	425*														
PT1550	TTMS CP Rd-KC S/B for CCR-R5 - Implementation	1,114*	11JUN04A	25FEB08	15	28*					F	T1550								
PT2140	TTMS CP Rd-KC S/B for CCR-R6 - Implementation	1,355*	16DEC04A	17JUN09	0	425*														
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	21JAN08	13FEB08	0	18	1			PT220)									
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	14FEB08	19FEB08	0	6	1				PT2210									
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	20FEB08	26FEB08	0	7						PT2220								
PT2230	TTMS CP Rd-KC S/B for Paving - Site Preparation	6	27FEB08	04MAR08	0	6							PT2230							
PT2240	TTMS CP Rd-KC S/B for Paving - Implementation	34*	14JAN08A	25FEB08	0	28*					P	T2240								
PT2300	TTMS CP Rd-KC N/B 11NW-A/C66-Prep Review (Del.)	16	21JAN08	11FEB08	0	16				PT2300										
PT2310	TTMS CP Rd-KC N/B 11NW-A/C66-CRE Endorse (Del.)	6	12FEB08	17FEB08	0	6					PT2310									
PT2320	TTMS CP Rd-KC N/B 11NW-AC66-Roadwk Advice (Del.)	7	18FEB08	24FEB08	0	7					PT	2320	_							
PT2330	TTMS CP Rd-KC N/B 11NW-A/C66-Site Prepare (Del.)	6	25FEB08	01MAR08	0	6							PT2330							
PT2340	TTMS CP Rd-KC N/B 11NW-A/C66 - Implement (Del.)	144*	03MAR08	21AUG08	0	144*														
Earthworks	& Slopeworks - 11NW-A/C66 (DELETED)	1	1		1	T														
PE2000	Slope 11NW-A/C66 - Hoardings / Fencing (Deleted)	6	03MAR08	08MAR08	0	6							PE2000							
PE2010	Slope 11NW-A/C66 - Trim Slope (Deleted)	18	10MAR08	29MAR08	0	18										PE	2010			
Utilities & F																				
PR3080	C.P.Rd. Loop to Slip Road C - Crash Barriers	18	21JAN08	13FEB08	0	18				PR308)									
PR4010	C.P.RdK.C. S/B L/H C/Way - Sub-base	9	130CT07A	29JAN08	50	5			PR4010											
PR4020	C.P.RdK.C. S/B L/H C/Way - Kerbs	6	29DEC07A	28JAN08	25	4			PR4020											
PR4030	C.P.RdK.C. S/B L/H C/Way - Pavement	4	250CT07A	22JAN08	50	2		PR4030												
PR4100	C.P.RdK.C. S/B R/H C/Way - Excavate & Format'n	9	14JAN08A	01FEB08	15	8			PR4100											
PR4110	C.P.RdK.C. S/B R/H C/Way - Sub-base	9	30JAN08	08FEB08	0	9				PR4110										
PR4130	C.P.RdK.C. S/B R/H C/Way - Pavement	4	09FEB08	13FEB08	0	4				PR413										
PR4135	C.P.RdK.C. S/B - Street Lighting	12	07FEB08	20FEB08	0	12	-		•		PR4135	D 44 40								
PR4140	C.P.RdK.C. S/B - Road Markings & Signage	4	21FEB08	25FEB08	0	4						R4140 R4150								
PR4150	Castle Peak Road - Reinstate Junction	29	26JUL07A	25FEB08	45	16		PR5050			F	R4150								
PR5050	C.P.Rd-K.C. S/B to C.C.Rd E/B - Rd Marks & Signs	3	20JAN08	22JAN08	0	3	-	PR5050												
PR5060	C.P.Rd-K.C. S/B to C.C.Rd E/B - Re-open Road	0		23JAN08	0	0		- FR3												
Landscape		00	04 14 100	0755000	0	00						P X10	00							
PX1000	Landscaping - Earthworks & Formation	30	21JAN08	27FEB08	0	30	-						PX1020							
PX1020	Landscaping - Paving	30	29JAN08	03MAR08	0	30	-						PX1020							
PX1030	Landscaping - Irrigation System Landscaping - Soiling & Planting	24	07FEB08 07FEB08	05MAR08 05MAR08	0	24 24	-						PX1040							
DV1040	Lanuscaping - Solling & Planting	24	U/FEDUO	USIVIARUO	0		_		•											
PX1040 PX1100	Landscape Establishment Works	302	06MAR08	06MAR09	0	302														

I	Start Date
I	Finish Date
I	Data Date
I	Run Date

Sheet 7 of 7



Orig		Early		Late Late	Total –	2004	2005			2006		200	7		2008		200	9		2010
Dur Design S	Start tage (excludir	Finish ng CSS)	Comp	Start Finish		ONDJFM		ASOND.			NDJFI			D J F M A		NDJF			IDJF	
+ Design 1,156	Stage-Interfac	e Documents 30-01-08		2-04A 30-01-08	-289															
	Stage-Manual	-	ntrol(MFC) Sy																	
+ Design	Stage-Commu	nication Syst	tem																	
761 + Design	12-10-04A Stage-CCTV S	11-11-06A ystem	100 12-1																	
739 + Design	12-10-04A Stage-Traffic (20-10-06A Control Field	100 12-1 Devices (TC																	
757	12-10-04A Stage-Vehicle	07-11-06A	100 12-1																	
757	12-10-04A	07-11-06A	100 12-1																	
702	Stage-Private 12-10-04A	13-09-06A	ange(PBX) S 100 12-1																	
+ Design 759	Stage-Radio S	oystems 09-11-06A	100 12-1	0-04A 09-11-06A																
+ Design	Stage-Emerge	ncy Telephor 13-11-06A		m 0-04A 13-11-06A																
+ Design	Stage-Building	g Public Addı	ress(PA) Sys	tem																
	12-10-04A Stage-Operati			0-04A 18-10-06A																
848 + Design	12-10-04A Stage-Speed I	06-02-07A		0-04A 06-02-07A)System																
1,178 + Design	12-10-04A Stage-Electric	02-01-08 al Installation		0-04A 02-01-08	0															
667	12-10-04A	09-08-06A		0-04A 09-08-06A																
588	Stage-Civil Pro	22-05-06A		0-04A 22-05-06A																
+ Design 732	Stage-Testing 12-10-04A	& Commissie 13-10-06A	oning (T&C) 100 12-1	0-04A 13-10-06A																
	Development Stage for Cent		stem (CS)							- I I I I I I I I I I I I I I I I										
1,164	12-10-04A		100 12-1	0-04A																
+ Core 1 645	CSS Configura 25-05-05A	28-02-07A	100 25-0	5-05A 28-02-07A																
+ New Do	evelopment 01-08-05A	20-01-07A	100 01-0	8-05A 20-01-07A																
+ Coordi 807	nation Exercise 04-10-05A	es with Extern 19-12-07		o-05A 19-12-07	-170															
	of Interfaces 25-05-05A	25-07-07A	100 25-0																	
+ TCSS (Configuration	23-07-07A														<u>IIIIIII</u> IIIIIIII IIIIIIII				
939 + Softwa	25-05-05A	ſest (SIT)	100 25-0	5-05A																
180 + ISCE B	25-07-06A Review (to be ar	20-01-07A	100 25-0	7-06A 20-01-07A																
1	29-06-05A	09-12-06A	100 29-0	6-05A 09-12-06A																
	nent, Manufac ise,Manufactur		entral Syster																	
701 + Purcha	04-03-06A ase,Manufactur	02-02-08 e & Deliver M	59 04-0	3-06A 27-06-07	-306															
752 + Purcha	12-12-05A se,Manufactur	02-01-08 e & Deliver C		2-05A 02-01-08	-41															
778	30-11-05A	16-01-08	97 30-1		-261															
+ Purcha 719	21-02-06A	09-02-08	73 21-0	2-06A 09-02-08	-301															
+ Buy,Ma 824	anufacture &De 01-12-05A	liver Traffic C 03-03-08	2000 Service 2017		-336															
+ Buy,Ma	anufacture &De 30-01-06A	liver Vehicle 17-02-08	Detector Sys 89 30-0		-116															
+ Purcha	se,Manufactur	e &Deliver PE	BX System				I I I I I I I I I I I I I I I I I I I I I I I								I I I I I I I I I I I I I I I I I	I I I I I I I I I I I I I I I I I I I I I I I	I I I I I I I I I I I I I I I	<u> </u>	I I I I I I I I I I I I I I I	
	30-11-05A t,Purchase,Man	1		tem	-32		I I I I I I I I I I I I I I I I I I I I I I I													
403 + Purcha	09-01-06A ase,Manufactur	15-02-07A e & Deliver P.	100 09-0 A System	1-06A 15-02-07A																
795	05-12-05A anufacture &De	07-02-08	90 05-1	2-05A 25-01-08	-13															
441	15-01-06A ase,Manufactur	31-03-07A	100 15-0	1-06A 31-03-07A																
0		08-04-08	25	16-11-07	-372															
+ Buy,Ma 732	anufacture &De 02-02-06A	liver Electrica 03-02-08		n 2-06A 15-10-07	-111															
+ Purcha 864	ase,Manufactur 01-12-05A	e & Deliver O 12-04-08	&M Radio Sy 63 01-1		-97															
+ P,M&D 889	Integrated Tun 01-12-05A			Sys.	-144															
Installatio	on		71 01-1	<u> </u>	-144											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
+ Site Ac 1,164	cess Dates for 12-10-04A	R8K 19-12-07A	100 12-1	0-04A 19-12-07A						↔ ♦										
+ Site Ac	cess Dates for 13-09-06A	R8T 26-02-08	0 13-0	9-06A 26-02-08	0															
					-									.		11		<u></u>		
Start Date		12-10-04		Early Bar	0712				ę	Sheet 1	of 3						roved DW			
Finish Date Data Date		26-12-10 20-12-07		Progress Bar			te 8 TC									27-05-05C	WP rev.E WP rev.D	(Approved	JL JL	DA
Run Date	10-0	1-08 08:43		Critical Activi		P - 3 m	οπτή Ε	xecut	ive Si	umma	iry					29-04-06 17-03-06 27-01-06	WP rev.B		JL JL JL	DA
© Prin	navera Systems	, Inc.																		

Orig Dur	Early	Early	%	Late	Late	Total	
A STREET BOARD	Start n for R8K	Finish	Comp		Finish	Float	2004 2005 2006 2007 2008 2009
	n for R8K Itainment Dwg(\	V.O.)Coordinatio	on&Appr	roval			
54	02-06-06A	22-08-06A		02-06-06A	22-08-06A		Cable Containment Dwg.(V.O.)Coordinate &Approval
57	02-06-06A	22-07-06A	100	02-06-06A	22-07-06A		Cable Containment Dwg.(V.O.)Coordinate & Approval
54 33	31-05-06A 02-06-06A	18-01-07A 22-08-06A	100	31-05-06A 02-06-06A	18-01-07A 22-08-06A		Cable Containment Dvg.(V.O.)Coordinate & Approval Cable Containment Dwg.(V.O.)Coordinate & Approval
33	02-06-06A	22-08-06A 22-07-06A	100	02-06-06A 02-06-06A	22-08-06A 22-07-06A		Cable Containment Dwg.(V.O.)Coordinate&Approval
85	20-07-06A	20-12-06A	100	20-07-06A	20-12-06A		Cable Containment Dwg.(V.O.)Coordinate & Approval
	G - Road T3						
316	20-12-06A <mark>-11A - Portal Bui</mark>	31-10-07A	100	20-12-06A	31-10-07A		
398	18-06-06A	20-07-07A	100	18-06-06A	20-07-07A		
+ Portion F 421	H1B - Northbour 27-07-06A	nd Tunnel Tube 20-09-07A	1	27-07-06A	20-09-07A		
+ Portion H 465	<mark>H1C - Southbou</mark> 13-06-06A	nd Tunnel Tube 20-09-07A	1	DSHT 13-06-06A	20-09-07A		
	- VO Works fo				20-03-07		
	stallation	19 OF 074	100	07-05-07A	19.05.074		
14 21	07-05-07A 22-05-07A	18-05-07A 10-06-07A	100	07-05-07A 22-05-07A	18-05-07A 10-06-07A		Proposal For Additional ALCS (VO Issued) Install / Relocate cable containment
30	02-06-07A	17-08-07A	100	02-06-07A	17-08-07A		
30	02-06-07A	17-08-07A	100	02-06-07A	17-08-07A		
20	01-06-07A	20-07-07A		01-06-07A	20-07-07A		Modify Software Central System / MFCS
	H2 - Open Road		1				
339	17-10-06A	20-09-07A	100	17-10-06A	20-09-07A		
	H3 - RC Full En						
182	23-03-07A	20-09-07A		23-03-07A	20-09-07A		
	1 - ENT South I	Portal Approach	-	04-09-06A	10-10-07A		
402 + Portion 12	04-09-06A 2 - Eagle's Nes			04-09-06A	10-10-07A		
+ Portion 12 440	03-07-06A	15-09-07A		03-07-06A	15-09-07A		
	3 - Toll Plaza, F				2.50 0/11		
436	01-08-06A	10-10-07A	-	01-08-06A	10-10-07A		
+ Portion J	J1 - Lai Chi Kok	Viaduct (LCKV) near E	NT			
252	01-02-07A	10-10-07A		01-02-07A	10-10-07A		
	J2 - Sections ex		1	-	10 10 071		
	20-06-00A	19-12-07A		20-06-00A	19-12-07A		
+ Installation 0	<mark>on @HyD,TD,H</mark> │	19-01-08	17		11-06-07	-259	
-	on of SEC syste				1	200	
	20-12-07	10-01-08	1	24-04-07	10-05-08	-252	
	n for R8T	<u> </u>					
	3 - Nam Wan Ti						
	24-10-06A	12-06-08	1	24-10-06A	30-04-08	-56	
	- Sections exce			TYV			
	on @Portion C		1	01.02.074	07-12-07	00	
20 29	01-02-07A 14-02-08	08-01-08	0 80	01-02-07A 14-01-08	07-12-07	-32	Electrical Installation @Portion C
11	10-03-08	20-03-08	0	17-10-07	29-10-07	-145	Install ITRR System @Portion C (EPB,WPK)
11	21-03-08	31-03-08	0	30-10-07	08-11-07	-144	Install ET Interface @Portion C (EPB,WPK)
11	01-04-08	11-04-08	0	09-11-07	19-11-07	-144	Install MFCP & its system @Portion C (Kiosk X
36	09-01-08	13-02-08	60	08-12-07	12-01-08	-32	Install TCSS Equipment Cabinet @Portion C
53	14-03-08	05-05-08	0	15-02-08	04-04-08	-31	Install SDH Node 1&3,Comm.Sys@C(WPK,EPB,Capinet)
39	07-03-07A	26-01-08	0	07-03-07A	03-01-08	-23	Laying Backbone Cables @Portion C
22	12-04-08	03-05-08	0	20-11-07	10-12-07	-145	Install Operation Facilities @C(Kiosk X,X1,Y,
27	28-05-08	23-06-08	0	07-01-08	31-01-08	-144	Install PBX System @C (Kiosk X,X1,Y,Y1, EPB,WPK)
74	28-01-08	10-04-08	60	04-01-08	17-03-08	-24	Install Traffic Control Field Devices @Portion (
21 50	18-07-08 18-07-08	07-08-08	0	28-02-08 28-02-08	19-03-08 18-04-08	-141	Install CCTV System @Portion C Install Vehicle Detector System@Port
23	18-07-08	27-05-08	0	28-02-08	18-04-08	-141	Install Venicle Detector System@Por Install Computer Equipment @Portion C(Kid
23	28-05-08	17-06-08	0	07-01-08	25-01-08	-146	Install O&M Radio System @C(Kiosks,Site,EPB,WPK)
21	18-06-08	11-07-08	0	26-01-08	21-02-08	-144	Install Odin Hadio Oystein @O(((Osis),oid,), P.), Wity B
6	12-07-08	17-07-08	0	22-02-08	27-02-08	-141	Install PSTN Socket @Portion C (near Po
13	06-09-08	18-09-08	0	22-04-08	03-05-08	-138	Install SEC System (Stage 1 & 2) @P
Installatio	on @West Cont		CB)				
14	21-12-06A	18-05-07A	100	21-12-06A	18-05-07A		Install Cable Containment @WCB
27	12-04-08	08-05-08	0	20-12-07	17-01-08	-114	Install SDH Node 2 (COMMUNICATION SYSTEM) @WCB
35 23	12-04-08	16-05-08 01-04-08	0	20-12-07 17-11-07	25-01-08	-114	Install SDH Node 2 (COMMUNICATION SYSTEM) @WCB
13	10-03-08	01-04-08 22-03-08	0	17-11-07	30-11-07	-114	Install MFCP & its system @WCB
13	24-03-08	11-04-08	0	01-12-07	19-12-07	-114	Install MFCP & its system @WCB
38	20-12-07	26-01-08	0	12-10-07	16-11-07	-71	Install Oper.Facilities (Racks,Furniture) @WCB
55	17-05-08	10-07-08	0	26-01-08	21-03-08	-112	Install Oper.Facilities (Display,VCS,DVA.
26	11-07-08	05-08-08	0	22-03-08	17-04-08	-111	■Install O&M Radio System @WCB
44	14-05-07A	15-06-07A	100	14-05-07A	15-06-07A		Install PA System & Control Panel @WCB
40	04-05-07A	14-06-07A	100	04-05-07A	14-06-07A		Install PBX System (MBX&phones) @WCB
14	19-03-08	01-04-08	0	09-04-08	22-04-08	21	Install SEC Server & system (Stage 2) @WCB
	NgongShuenCh			0103)			
	on @Early-oper		1	16 10 07	00 10 07	101	
Installatio	14-04-08	17-04-08 21-04-08	0	16-10-07 16-10-07	20-10-07 24-10-07	-181	IElectrical Installation @Ramps E1&G
Installatio	14-04 09	21-04-08 30-04-08	0	16-10-07 25-10-07	02-11-07	-181 -180	Laying Backbone Cables @Ramps E1&G
Installatio 4 8	14-04-08		U	25-10-07	26-10-07	-180	Install CCTV System @Ramps E1&G
Installatio	22-04-08		Λ		-0 10-07		Install Cerv System @Halips Erad
Installatio 4 8 9 2	22-04-08 22-04-08	23-04-08	0		03-11-07	-181	
Installatio 4 8 9	22-04-08 22-04-08 22-04-08	23-04-08 02-05-08	0 0 0	25-10-07	03-11-07	-181	Install Traffic Control Devices @E1&G
Installation 4 8 9 2 11 17	22-04-08 22-04-08 22-04-08 22-04-08	23-04-08 02-05-08 08-05-08	0	25-10-07 25-10-07	03-11-07 09-11-07		
Installatio 4 8 9 2 11 17	22-04-08 22-04-08 22-04-08	23-04-08 02-05-08 08-05-08	0	25-10-07 25-10-07			
Installatio	22-04-08 22-04-08 22-04-08 22-04-08 22-04-08	23-04-08 02-05-08 08-05-08 oads & WKH @	0 0 Portion	25-10-07 25-10-07 D	09-11-07	-181	Install Traffic Control Devices @E1&G
Installation 4 8 9 2 11 17 Installation 5	22-04-08 22-04-08 22-04-08 22-04-08 22-04-08 22-04-08	23-04-08 02-05-08 08-05-08 oads & WKH @ 26-04-08	0 0 Portion 0	25-10-07 25-10-07 D 25-10-07	09-11-07 30-10-07	-181 -180	Install Traffic Control Devices @E1&G Electrical Installation in Existing Road &WKH

Orig Dur	Early Start	Early Finish	% Comp	Late Start	Late Finish	Total Float	2004 2005 2006 2007 2008 2009 2010
Installatio	on @Portion D 28-04-08	27-05-08	0	30-10-07	27-11-07	-182	
30	08-04-08	07-05-08	0	27-10-07	24-11-07	-165	is Install TCSS Equipment Cabinet @Portion D
24	18-05-07A 19-03-08	08-01-08 25-03-08	30	18-05-07A 17-11-07	19-11-07 23-11-07	-50 -123	
27	20-12-07	15-01-08	0	03-11-07	26-11-07	-125	
36	04-04-07A	09-01-08	50	04-04-07A	22-11-07	-48	
15	20-06-07A 20-12-07	28-12-07	50 0	20-06-07A 18-10-07	25-10-07 16-11-07	-64	
33	26-03-08	21-01-08 02-04-08	0	24-11-07	01-12-07	-00	
6	26-03-08	31-03-08	0	28-11-07	03-12-07	-119	
8	19-03-08	26-03-08	0	17-11-07	24-11-07	-123	Install SEC System (Stage 1 & 2) @Portion D
	• East Tsing Yi ' on @Portion E	VIADUCT (EIYV))				
	27-02-08	12-03-08	0	08-03-08	22-03-08	10	Install Cable Containment @Portion F
23	27-02-08	20-03-08	0	19-03-08	11-04-08	21	Electrical Installation @Portion E
23 25	27-02-08 27-02-08	20-03-08 22-03-08	0	08-03-08	31-03-08 29-04-08	10 36	Install TCSS Equipment Cabinet @Portion E Laying Backbone Cables @Portion E
47	04-03-08	19-04-08	0	08-03-08	24-04-08	4	Install Traffic Control Field Devices @Portion E
17	27-02-08	14-03-08	0	03-04-08	21-04-08	36	Install COMMUNICATION SYSTEM @Portion E
14	27-02-08 27-02-08	11-03-08 26-03-08	0	11-04-08	24-04-08 10-05-08	44	Install CCTV System @Portion E
	on in Existing R		-				
7	21-03-08	27-03-08	0	12-04-08	18-04-08	22	Electrical Installation @Portion E
7	27-02-08	04-03-08 27-03-08	0	18-03-08 31-03-08	24-03-08 18-04-08	20 21	Laying Backbone Cables @Portion E
18	05-03-08	14-03-08	0	25-03-08	03-04-08	21	Install COMMUNICATION SYSTEM @Portion E
4	15-03-08	18-03-08	0	04-04-08	08-04-08	20	Install CCTV System @Portion E
4	15-03-08	18-03-08	0	04-04-08	08-04-08	20	Install Vehicle Detector System @Portion E
	Stonecutters E	ridge (SCB)					
13	11-02-08	23-02-08	0	25-02-08	08-03-08	14	Install Cable Containment @Portion F
18	11-02-08	28-02-08	0	12-03-08	29-03-08	30	Electrical Installation @Portion F
5	14-04-08	18-04-08	0	07-04-08	11-04-08	-7 -7	Install PBX System @Portion F (Kiosk Z)
9	14-04-08	22-04-08 29-02-08	0	07-04-08 25-02-08	15-04-08 14-03-08	-7	Install O&M Radio System @Portion F (Kiosk Z)
19	01-03-08	18-03-08	0	31-03-08	17-04-08	30	Laying Backbone Cables @Portion F
8	01-03-08	08-03-08	0	07-04-08	14-04-08	37	Install Operation Facilities @Portion F(Kiosk Z)
19	01-03-08	19-03-08	0	19-03-08	07-04-08	-10	Install COMMUNICATION SYSTEM @@Portion F Install Traffic Control Field Devices @Portion F
36	04-03-08	08-04-08 29-02-08	0	25-02-08 13-03-08	29-03-08 01-04-08	-10 31	Install Traffic Control Field Devices @Portion F
18	01-03-08	18-03-08	0	02-04-08	19-04-08	32	Install Vehicle Detector System @Portion F
10	19-04-08	28-04-08	0	12-04-08	21-04-08	-7	Install Visibility Sensors @Portion F
8 Testing on	09-04-08	16-04-08	0	03-04-08	11-04-08	-6	Install SEC System (Stage 1 & 2) @Portion F
	d Commissi nmissioning 1		DR8K				
283	10-04-07A	17-01-08	96	10-04-07A	12-06-07	-261	
	EC system @			04.04.07	10.05.00		
41	20-12-07 nmissioning 1	29-01-08	0	24-04-07	10-05-08	-251	
		29-09-08	10		12-06-08	-182	
+ System /	Acceptance T	ests (SAT) @					
2	30-07-07A	31-07-07A			31-07-07A		$ \begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$
+ System /	Acceptance T 22-05-08	ests @R8 (wi 24-11-08	vith EOT)	07-12-07	07-08-08	-182	
	ity Test (OPT)	1					
34	28-01-08	01-03-08	0	09-05-07	26-06-07	-264	
	PT for SEC sy						
64 + Operabil	30-01-08 ity Test @R8	02-04-08 (with EOT)	0	24-05-07	30-09-07	-251	
44	26-10-08	08-12-08	0	08-06-08	20-09-08	-140	
	and Mainter		ments	& Training			
	ntation for R8						
893	18-05-06A ntation for R8	26-10-08	21	18-05-06A	22-02-10	-371	
+ Documer 257	20-12-07	01-09-08	9	30-09-07	23-06-08	-86	
+ Training	-						
14	26-03-08	15-04-08	0	04-03-11	23-03-11	744	
+ Training	for R8 26-08-08	12-09-08	0	22-07-08	08-08-08	-25	
Completion		12-03-00	U	22-07-00	00-00-00	-20	
0		02-03-08	0		30-09-07*	-154	Overall Completion of R8K
0		26-12-08	0		01-07-09*	187	Overall Completion of R8T&R8
	ad Opening A	-			10.00.07	E07	
29 + Section (20-12-07 Completion o	17-01-08 of R8K	0	01-06-06	12-06-07	-567	
	05-04-07A	02-03-08	0	05-04-07A	12-06-07	-264	
	Completion o	of R8/R8T					
	12-03-07A	26-12-08	0	12-03-07A	08-08-08	-182	
	ability Period	l (DLP) for V	Works				
+ DLP for 1	20-12-07	18-01-10	0	01-11-07	30-11-09	-49	
	R8T Work			12.2.1.07	120 11 00	1 10	
+ DLP TOP							
	27-12-08	26-12-10	0	23-02-09	22-02-11	58	

APPENDIX M COMPLAINT LOG

Appendix M - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref. 40318	Location Nob Hill	Received Date	Details of Complaint Kwai Tsing District Officer (KTDO) recently received a public noise complaint about construction noise generated from the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. KTDO referred the complaint to the Highways Department (HyD) on the same day. HyD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 18 March 2004. The complaint was raised by the Citybase Property Management Ltd. (the management company of Nob Hill) and the Secretarty of Nob Hill Owners Committee (Mr. Kevin Tse) about construction noise generated from the R8-LCKV Project at the work areas near Nob Hill. Mr. Kevin Tse mentioned that residents living in Nob Hill have greatly been affected by the noise impacts generating from the R8- LCKV construction works. He also requested relevant government departments to consider installing noise barrier along Ching Cheung Road and to work out possible measures to minimize the noise nuisances to the residents living in the vicinity.	 Based on the information provided by the ER, the construction activities conducted in the vicinity of Nob Hill in the period between 2 and 18 March 2004 were: Item 1 – Breaking off existing planter and excavate trial trench to expose underground utilities (using one to two backhoes) Item 2 – Erect rock fall fence & forming platform for 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) Considering the scale of work and the PMEs adopted, the ET believed that the construction noise impact at Nob Hill from the above construction activities of R8-LCKV was not significant. The bored piling work (Item 3) using one crawler crane and one oscillator was started on 19 March 2004, which was two days after the issue date of this complaint, so this activity was not considered in this report. According to the EM&A Manuals, Nob Hill was not selected as Noise Monitoring Location (NML) for the Project. Therefore, no direct noise monitoring data could be provided for the complaint investigation. However, there was no noise level exceedance recorded at the nearby NML (NM4 – Mei Foo Sun Chuen, Phase 5) since the commencement of the project according to ET's inventory. During ET's weekly environmental site inspections on 3, 10, 17 March 2004, no serious noise nuisance induced by the Project 	Status
				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
				During ET's weekly environmental site inspections on 17, 24 & 31 March 2004 and 7 April 2004, no serious noise nuisance induced by the Project works was observed at the construction sites near Nob Hill.	
				Based on the joint site visit with the representative of HyD, IEC, RSS and ET to the Nob Hill on 30 March 2004, the major noise source at Nob Hill was identified as traffic noise on Ching Cheung Road, which is located very close to this building, especially at or above the Podium Floor (i.e. 5/F).	
				Based on the information obtained, this noise complaint is considered not due to the construction activities of the Project.	
				 Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site. 	
40710	Pier P7 in Portion E1	10 July 2004	A public complaint was raised on 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	 Based on the information provided by the RSS, the spillage of muddy water was in fact due to a burst in a temporary water pipe being utilized in the piling operations at Pier P7 in Portion E1. Emergency remedial works were undertaken preventing further spillage of muddy water. The remaining ponding water within the works area arising from the burst was all removed from the area on 5th July 2004. 	Closed
		on 3 rd July 2004 and subsequently referred to the ET Leader of the Project on 10 th July 2004. The complaint was raised by Mr. Char	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
			Cheung Road and Mei Lai Road /	NM4: R/F of Mei Foo Sun Chuen (Phase 5)	
			Lai Wan Road opposite to Mei Foo	NM8a: M/F of Nob Hill	
			Sun Cheung (Phase 5) and Lai Chi	NM8b: 3/F of Nob Hill	
			Kok Public Library.	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.	
				Environmental Site Inspection	
				During the ET site inspections on 8 th , 14 th and 20 th 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 ensure the equipment are maintaining in good operation condition; To turn off any idle equipment on site. 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.	
	Mei Foo Sun		A public complaint was raised on 8 th	Construction Activities	
50215	Chuen, Phase 5	15-Feb-05	Feb 2005 regarding construction noise		Classi
50215	(Retaining Wall	(by ET Leader)	from the site area of the Route 8 – Lai	During the weekly site inspection on 17 Feb 05, piling work was	Closed
	CC-R3)		Chi Kok Viaduct (R8-LCKV) Project	being conducted at the concerned. The major powered	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff on 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	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.	
			Po Leung Kuk Tong Nai Kan College.	 Environmental Monitoring The noise monitoring results at Station NM4 (Mei Foo Sun Chuen, Phase 5) for the last 3 months were reviewed in order to evaluate the noise impact from the Project on the noise sensitive receiver. The measured noise levels in last three threes were ranged from 70.8 to 75.8 dB(A). It was observed that the measured noise levels were well within the range of baseline noise levels (69.2 to 75.8 dB(A)). The corrected construction noise levels were found to be ranged from 63.5 to 71.5 dB(A), which were well below the noise criterion of 75 dB(A). Conclusions 	
				Based on the information obtained and the noise monitoring results, this complaint is considered to be invalid and not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impacts.	
50322	Seung Lai House, Wah Lai Estate (Slope S1)	11-Mar-05 (by EPD) 22-Mar-05 (by ET Leader)	Environmental Protection Department (EPD) received a public noise complaint on 11 Mar 05 about daytime construction noise generation from R8- LCKV. EPD subsequently referred the	<i>Construction Activities</i> As advised by the RSS, the major construction work during 25 Feb 05 to 11 Mar 05 (2 weeks before the date of complaint) in the vicinity of Wah Lai Estate included excavation work, soil	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint 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.	Investigation/Mitigation Action 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 30 th 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.	Status
50330, 50331, 50404 & 50407	Wah Lai Estate	30-Mar-05, 31- Mar-05, 4-Apr- 05 & 7-Apr-05 (by ET Leader via RSS)	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
Log Ref.	Location	Received Date	Details of Complaint 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/Mitigation 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).	Status
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.	
			Association to EDD, the second list		
50613	Mei Foo Sun Chuen	7-Jun-05 (by EPD)	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	<i>Site Activities</i> 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.	Closed
		13-Jun-05 (by ET Leader)	works undertaken on the other side of Mei Lai Road.	It was believed that the demolition of existing retaining wall, which involved concrete breaking, was the activity of concern.	

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	Status
				 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. <i>Conclusion</i> 	
				Based on the observations noted during our site inspections, this complaint is considered to be valid and related to the construction activities of the Project.However, corrective action had been taken by the Contractor and the situation was found improved during the follow-up inspections.	
50721	Hei Lai House, Wah Lai Estate	21-Jul-05 (by ET Leader)	The complaint was lodged by a resident of Hei Lai House of Wah Lai Estate through a Legislative Council member. The complaint was about construction noise nuisance caused by rock breaking work, which claimed to be started from 8:30am daily, carried out at Ching Cheung Road near Wah Lai Estate.	Site Activities The slope work at Slope S1 was likely to be the activity of concern. The work at Slope S1 recently included the operation of excavator mounted breakers, excavators and dump trucks. The time period of concern was within normal working hours (7am to 7pm) on a weekday not being a public holiday. The noise criterion is 75 dB(A) for domestic premises.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The complainant hoped that the rock breaking work could start later i.e. be carried out from noon to afternoon and the site could be fully enclosed. The Environmental Team (ET) of the Project received the complaint on 21 July 2005 and forwarded it to the Resident Site Staff (RSS) to obtain necessary information.	 Noise Measurement Ad-hoc measurements were carried out on the roof of Hei Lai House on 25 July 2005. The results show that the measured noise level is well below the noise criterion of 75 dB(A). The construction noise level (with reduction of background noise) is expected to be even lower. <i>Conclusion</i> Since the noise measurement results at Wah Lai Estate were below 75 dB(A), the complaint was considered not justifiable. Nevertheless, noise mitigation measures have been implemented by the Contractor to minimize the noise impact arising from the breaking activities: 1. Employment of silenced-type breakers; 2. Temporary noise barriers, attached with sound adsorption materials, were erected to screen the site of breaking from sensitive receivers 3. While the permitted hours for construction works are 7am to 7pm on non-holidays, the Contractor has commenced the rock breaking activity after 8:30am. 	
51107	Ching Cheung Road near Mei Foo Sun Chuen	7-Nov-05 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 7 November 2005. According to EPD, the complaint was	The site of concern was likely to be CCR-S4 and CCR-R3. According to RSS's records, bored piling works and soil nail drilling at CCR-R3, excavation works at CCR-S4 in the concerned period. <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
			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. 	
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
Log Kei.			Council Member's Office. The complaint mentioned that residents of Mei Foo Sun Chuen Stage 5 were adversely affected by construction dust caused by the Route 8 work carried out at the slopes adjacent to Ching Cheung Road.	 regarding construction dust was identified during the inspection. <i>Environmental Monitoring</i> All monitoring results in Jan 06 revealed that no exceedance was recorded for the air quality (1-hr and 24-hr TSP) criteria. <i>Contractor's Action</i> 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. <i>Conclusion</i> Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable. Nevertheless, the Contractor was reminded to keep on the dust mitigation measures being implemented and step up the measures if necessary. 	
60213 60216 60220 60222	Hoi Lai Estate (Lai Po Road)	13-Feb-06 16-Feb-06 20-Feb-06 22-Feb-06 (by the ET Leader)	Four environmental complaints were received in this reporting month. Three of them were referred by EPD on 13 th , 20 th and 22 nd Feb 06 and the other one was referred by HyD via MHJV on 16 th Feb 06. All about construction noise due to night works at Lai Po Road near Hoi Lai Estate.	 Site Activities Since around mid-January 2006, segments were transported to Piers P15 and B4, under the permission of construction noise permit (CNP). It was suspected that the sound of concern was generated from tractors for precast segment transportation. In view of the safety of workers, an alert sound and flashing are maintained during backing action of the tractors. Site Inspection 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				An ad-hoc inspection was carried out by the ET on 16 Feb 06 from 00:30 to 02:30 am. Noise measurement was carried out during the inspection to evaluate the noise impact onto the residents of Hoi Lai Estate. During the monitoring, the major noise source identified was the road traffic noise from Sham Mong Road and Lai Po Road. No alarm sound or alike from the construction equipment was noted. The above monitoring results revealed that the measured noise levels were close to the reference baseline level. After correction of the mean background level, most of data were below the noise criterion of 55 dB(A).	
				Conclusion	
				Based on the information collected and the monitoring results, the complaints are considered not justifiable.	
				It was suspected that the nuisance was caused by the alert sound of tractors during backward movement which servers as a safety measure. However, the RSS and the Contractor are considering the possibility of lowering the alert sound level or replacing by a less disturbing pitch in order to minimize the noise nuisance to residents of Hoi Lai Estate.	
			Environmental Protection Department (EPD) received a public complaint	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. 	Close
				Contractor's Action	
				The Contractor had implemented a short term mitigation measures:-	
				 Turned off the alert sound of tractors during backward movement in order to reduce the potential for noise impact; Strengthened their management on worker's working manner such as avoid dropping of material on ground, wrapping up of hammering equipment and etc.; and Conducted training of worker in order to reducing noise nuisance during the night works. 	
				Conclusion	
				Based on the information collected and the monitoring results, the complaints are considered not justified.	
				It was suspected that the nuisance was caused by loading and unloading of materials, hammering and/or dropping of materials on ground during the stressing works and transportation of precast segment by tractors.	
				The Contractor has strictly complied with PME allowed in the CNP No. GW-RW0172-06. Besides, night work at the concerned location was completed. No further construction work at night at this location is anticipated.	

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 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. Compensator for cut slopes and construction of slip road D are required at this area, tree cutting is unavoidable. Tree felling application was approved by DLO/KW. Compensatory planting will be provided at the concerned area after completion of the construction works in order to improve the landscape and visual impacts. No follow up action will be required for this complaint. 	Close

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Environmental Protection Department (EPD) received a public complaints about noise nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 22 May 2006.	Site Activities According to the RSS's records, only precast segment transportation works at the concerned area which was used as the segment storage yard near Pier P5L to Piers near Mui Kong Tsuen.	
			The complaint was concerned about the noise produced from construction work during the period between 2300 hours and 0100 hours every night since 3 weeks ago. The complaint described the poice being like sound of poring	No concreting activities were carried out at the abovementioned area between 2300 hours and 0100 hours every night in concerned period. In addition, the transportation works were usually carried out from 2000 hours to 0300 hours (or before 0300 hours).	
60522	Hoi Lai Estate (Hoi Fai House)	22-May-06 (by ET Leader)	the noise being like sound of poring concrete.	<i>Contractor Action</i> The idle and backup equipments such as tractors has turned off or throttled down in order to reduce the noise impact since the last complaint on this issue near Hoi Lai Estaet. Besides, the above night works were undertaken with three construction noise permits.	Closed
				<i>Site Inspection</i> An ad-hoc inspection was carried out by the ET at 2300 on 26	
				May 2006. During the inspection, no construction activities were carried out at the concerned area, where the tractor and mobile crane were throttled down.	
				Conclusion	
				According to RSS's information, no concreting activities were carried out at the concerned area. Therefore, the major noise nuisance (pouring concrete) might not be generated from the abovementioned area. Besides, the Contractor strictly complied with PME allowed in the CNP No. GW-RW0172-06. In addition, the Contractor had turned off the alert sound of tractors during backward movement.	
				Based on the information collected, the complaint is considered	

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. <i>Site Activities</i>	
			 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.	
60609	Near Phase 5 of Mei Foo Sun Chuen	9-Jun-06 (by ET Leader)	Cheun).	 <i>Contractor Action</i> The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity. <i>Site Inspection and Environmental Monitoring</i> 	Closed
				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	26-Jun-06	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through a facsimile on 12 June 2006 about an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 26 June 2006.	Site Activities As advised by the RSS, the site of concerned area was likely to be CCR-S4. According to the RSS's records, 1 number of excavator mounted breaker was unsed to carry out rock breaking work at CCR-S4 during the period between 9 a.m. and 6 p.m.	Closed
60626	Chuen	(by ET Leader)	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	The excavation and rock breaking activities at the concerned area will likely be completed by end of September 2006. <i>Contractor Action</i>	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)	
				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.	
	<u> </u>			The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the ET.	
60830	Near Mei Foo and Lai King Hill Road	30-Aug-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 August 2006 about an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8- LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 30 August 2006. The complaint was concerned about dust generated from the rock drilling works affected the nearby ASRs. The complaint described that spraying of water during rock drilling works was not implemented.	 Site Activities According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and would likely last for at least 6 months. Contractor Action After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows:- Enclosing the rock dowel drilling work on three sides, i.e. top, back and the left hand side, with tarpaulin sheets; Spraying of water at the hole during drilling; Wrapping the head of the drilling rig with a wet thick towel. Site Inspection and Environmental Monitoring During the monthly site inspection on 4th September 2006, rock drilling at the slope CCR-S1 was carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Water was sprayed continuously at the drilling hole and head of the drilling rig was enclosed with a wet thick towel. All the mitigation measures mentioned by the RSS were implemented. Conclusion Base on the information collected and the monitoring results, the complaints are considered not justifiable. It was because there was no exceedance of the air quality 	Closed

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	Site Activities	
			about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 31 August	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.	
			2006.	Contractor Action	
60831	Between Lai Wan Road and Lai King Hill Road	31-Aug-06 (by ET Leader)	The complaint was concerned about construction noise, dust and waste water generated from the construction work affect the nearby NSRs after 19.00 hrs, the nearby ASRs and discharged to exiting road respectively	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
				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
				 <u>Construction Noise</u> 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. <u>Wastewater Discharge</u> Fill up the gaps under the footings of hoarding fence along Lai King Hill Road so as to prevent spillage of muddy water during heavy rain onto the existing road. The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team through site inspections and monitoring exercises. 	
60925	Near Ching Cheung Road, Nob Hill and Mei Lai Road	25-Sep-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 September 2006 about the an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8- LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 25 September 2006. The complaint was concerned about the noise generated from the construction works after 19:00 at the area near Ching Cheung Road, Nob Hill and Mei Lai Road	 Site Activities According to RSS's record, rock dowel installation for slope stabilization at the Slope CCR-S1 was commenced on 22 August 2006 and would last for at least 6 months and the first batch of rock drilling works at the Slope CCR-S4 was commenced on 19 September 2006 and completed on 23 September 2006. <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 Site Inspection and Environmental Monitoring 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				During the weekly site inspection on 27 September 2006, rock drilling at the Slope CCR-S1 was not carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Temporary noise barrier was erected at the working platform of the Slope CCR-S1.	
				The ET also undertook an ad hoc site inspection at the concerned areas after 19:00 on 27 September 2006. No construction activities were observed and noise monitoring was not conducted.	
				Conclusion	
				Base on the information collected and the monitoring results, there was no exceedance of the noise monitoring results and noise mitigation measures were implemented by the Contractor during the rock drilling works.	
				However, the Contractor was still reminded to carry out construction activities only within the permitted working hours (i.e. $07:00 - 19:00$ on weekday) and to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community:	
				• Provide silent type drilling rigs for the drilling works;	
				• Placing of wooden box to cover the head of drilling;	
				• Apply water spraying for at the hole during drilling;	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
61025	Lai Chi Kok Road Flyover near PCCW building	25-Oct-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 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.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	 Contractor Action According to RSS' record, acoustic material wrapping the head of chain blocks and hessian bags placing on ground around catchfans to suppress noise generation when hand tools were dropped onto ground. Environmental Monitoring An ad-hoc site observation and noise monitoring at Hoi Fai House of Hoi Lai Estate were conducted by the Contractor on 26th October 2006 between 0100 and 0130. The ET also carried out an ad-hoc inspection on 28th October 2006 from 0100 to 0200. During the inspection, segment erection work was carried out at Pier P5 to P6, which involved the operation of mobile crane and movement of lorry and trucks. During the monitoring, the major noise source identified was the road traffic noise. The monitoring results revealed that the measured noise levels were close to the reference background levels. After correction of the mean background level, all corrected noise levels were below the noise criterion of 55 dB (A) which consists with the noise monitoring results from the Contractor. Conclusion Based on the information collected, the complaint is considered justifiable although the monitoring results complied with the noise criteria. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: To strengthen management on worker's working manner, such as avoiding dropping materials on ground; No hammering is allowed during restricted hours; and To provide adequate training to workers working, esp. for night works. 	

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
~				Team.	
61121-1	Area near Lai Chi Kok Swimming Pool	21-Nov-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 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.	 Team. Site Activities According to RSS's record, rebar fixing, formwork erection, placing concrete and preparation work for construction joint were carried out at the concerned site during the period of 13th to 18th November 2006 and the construction works within the mentioned period were occasionally finished at 18:30. As advised by the RSS, the RSS has recommended the Contractor to finish the construction works at the concerned areas before 18:00 in order to minimize the noise nuisance to the public. Environmental Monitoring During the weekly site inspections in November 2006, no noncompliance or observation on noise was recorded. Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) and two noise monitoring stations at Nob Hill, namely (NM8a and NM8b), were set up in order to monitor the noise level generated from the construction activities. The Station (NM8b) is strongly influenced by road traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check for construction noise. The noise monitoring results in the period between 1st and 21st November 2006 at the M/F of Nob Hill and at Mei Foo Sun Chuen, Phase 5 are all lower than or equal to the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in the above mentioned period. Moreover, based on our site observation record during monitoring, road traffic noise from Ching Cheung Road was the major noise source. Conclusion Base on the information collected and the monitoring results, the complaint was considered not justifiable. 	Closed
				However, the Contractor was still reminded to finish the	

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				acoustic materials at drill pit and applying water spraying for any dust emissive activities to minimize the noise and dust nuisance generated from these construction activities. The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
61205	Banyan Garden	5 th December 2006 (by ET Leader)	Environmental Protection Department (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 5 th December 2006. The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 29 th November 2006.	 Site Activities According to RSS's record, a catchfan was moved from bay (AL-62) to (AL-58) from 22:00 to 02:00hr. Installation of catchfan at parapet bay (MS-R-74) was carried out from 00.00 to 04:00hr on 29th November 2006. As advised by the RSS, the Contractor has been requested to: Wrapping of tools with acoustic material Erection of noise barrier (mill barrier with acoustic material) adjacent to isolated noise source Placing of hessin bags on ground to mitigate noise generated as a result of the dropping of tools on ground. According to the RSS, there is no evidence of hammering of metals on site. <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 17th January 2007. The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 11th January 2007. 	 Site Activities According to RSS's record, the construction activities at the concerned area was mainly central stitch construction and parapet erection and similar works will be carried out in the concerned site in coming one month. The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW-RW0624-06. Based on the RSS's record of PME used in the concerned area from 1st December 2006 to 13th January 2007, the construction 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				 works complied with the CNP no. GW-RW0624-06. <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 	
70723	Construction site near Mei Lai Road and Tong Nai Kan College	17 th July 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 21 July 2007 about an environment nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 23 July 2007. The complaint was concerned about noise generated from the construction works near Mei Lai Road and Tong Nai Kan College.	 night works. Site Activities The concerned site was likely the Slope CCR-S4 near Ching Cheung Road. A location plan is provided in Appendix A and the work programme near Slope CCR-S4 from February 2007 to September 2007 is provided in Appendix B. According to RSS's record and the above mentioned work programme, excavation and rock breaking works for slope stabilization near the Slope CCR-S4 was begun on early of July 2007 and to be completed on early of August 2007. As advised by the RSS, noise mitigation measures implemented at the concerned site include: installing a line of noise barriers formed by acoustic materials in front of the noise sources; warping the breaker with acoustic material; and deploying silence type of breaker. Environmental Monitoring During the weekly site inspections in July 2007, no noncompliance or observation on noise was recorded. Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) was set up in 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				order to monitor the noise level generated from the construction activities. The noise monitoring results in the period between 3 rd and 23 rd July 2007 at Mei Foo Sun Chuen, Phase 5 are all lower than or equal to the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in the above mentioned period.	
				<i>Conclusion</i> Base on the information collected and the monitoring result, the complaints are considered not justifiable.	
				It was suspected that the nuisance was caused by the breaking activities. However, the Contractor has implemented the mitigation measures to minimize the noise generation from construction activities.	
			The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 1 October 2007 about an environment nuisance generated from Route 8 – Lai Chi Kok Viaduat (R8 LCKV) Project Pagident	<i>Site Activities</i> According to RSS's record, approximately 100m long asphalt material on carriageway was removed on 30 th September and 1 st October 2007. The equipment used on site during the complaint period was	
	Construction		Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 3	covered under the construction noise permit (CNP) no. GW-RW0469-07.	
71003	site near Ching Cheung Road and Tong Nai Kan College	e near Ching heung Road nd Tong Nai 3 rd October 2007 (by ET Leader)	October 2007 The complaint was concerned construction noise near Tong Nai Kan College and Ching Cheung Road	<i>Environmental Monitoring</i> During the weekly site inspections in September 2007, no non- compliance or observation on noise was recorded. Accordance to the EM&A programme, one noise monitoring	Closed
			during public holiday on 1 st October 2007.	station at Mei Foo Sun Chuen, Phase 5 (NM4) was set up in order to monitor the noise level generated from the construction activities. The noise monitoring results on 25 September 2007 and 2 October 207 at Mei Foo Sun Chuen, Phase 5 are all lower than the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in the above mentioned period	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<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 implement a good sit practice and mitigation measures to prevent noise nuisance generated from the construction work to minimize the environmental impact on the nearby community: - wrapping the breaker with acoustic material; and - deploying silence type of breaker.	
71119	Construction site near Nob Hill	19 th November 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 16 November 2007 about a noise nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 19 November 2007 The complaint was concerned the noise generated from breaking the footpath on King Lai Path opposite to Nob Hill on 16 November 2007	 Site Activities According to the RSS, footpath breaking by hand-held breaker was carried out on 16 November 2007. Environmental Monitoring During the weekly site inspections on November 2007, no non-compliance or observation on noise was recorded. Accordance to the EM&A programme, noise monitoring was conducted at Nob Hill M/F of Car Park (NM8a) and 3/F of Car Park (NM8b) in order to monitor the noise level generated from the construction activities. There was no Action/Limit Level exceedance identified, except the noise monitoring conducted at Station NM8b on 12 November 2007, which is strongly influenced by the road traffic noise from Ching Cheung Road. The measurements at these two stations are for reference purpose but not for compliance check for construction noise. Conclusion Base on the information collected and the monitoring result, the complaints are considered not justifiable. Nevertheless, the Contractor was recommended to implement a good sit practice and mitigation measures to prevent noise nuisance generated from the construction work to minimize the environmental impact on the nearby community: 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
71121	Construction site at Lai Wan Road opposite to the Lai Chi Kok Park Sports Centre	21 st November 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 21 st November 2007 about the construction dust nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 21 st November 2007 The complaint was raised by a resident via the ICC hotline and EPD about the construction dust generated from the lorry (JA2315) leaving the works site opposite to Lai Chi Kok Park Sports Centre at 8.35am on 21 st November 2007	 Site Activities According to the information provided by RSS, the site of the concern was likely to be the site access at R2 opposite to Lai Chi Kok Park Sports Centre. The construction works at the sports centre included the masonry on retaining wall, surface drain along slope toe, road work at the footpath, street furniture and reinstatement the pavement. <i>Environmental Monitoring</i> During the weekly site inspection on 21 November 2007, no non-compliance or major dust generation construction activity was recorded. Accordance to the EM&A programme, the air monitoring station at Lai Chi Kok Sports Centre (AM2), was set up in order to monitor the dust level generated from the construction activities. There was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor. <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 monitoring results. After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows:- Spraying of water for any dust emissive activities; The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises. 	Closed
80103	Construction dust of slope works near the junction of King Lai Path and Lai Wan Road	3 rd January 2008 (by ET Leader)	Environmental Protection Department (EPD) received a public complaint about the construction dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near the Junction	<i>Site Activities</i> Based on the information provided by the ER, the construction site was likely to be the slope CCR-S1 between Lai Wan Road and Lai King Hill Road. According to RSS's record, rock slope stabilization measures was carried on at batter 8 of slope CCR- S1. Rock drilling for installation of rock dowels (6m long) at	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint of King Lai Path and Lai Wan Road. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 3 January 2008 The complaint was raised by a resident via the EPD about the construction dust of slope works near the junction of King Lai Path and Lai Wan Road on 3rd January 2008.	 CCR-S1 was commenced on 20 December 2007 and would likely last up to the 2 February 2008 <i>Environmental Monitoring</i> During the ET's weekly environmental site inspection on 28 December 2007 and 9 January 2008 and the monthly site inspection on the 2 January 2008. There was no serious dust nuisance induced by the Projects at slope CCR-S1 while rock drilling was carrying out at the slope. As advised by the RSS, a three side's tarpaulin covering sheets were provided by the Contractor to suppress the dust nuisance generated from the rock drilling works. On 5 January 2008, the drilling rig was wrapped with a we thick towel and the speed of the drill was controlled. Besides, there was no Action/Limit Level exceedance for both 1-hr and 24-hr TSP identified during the period in between the 20 December2007 and 9 January 2008. <i>Conclusion</i> Base on the information collected and the monitoring results, the complaint was considered not justifiable. It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works. After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows:- Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials Cover long-term idle exposed slope surfaces and stockpiles 	Status
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
80121	Construction Noise and Dust	21st January 2008	The Resident Site Staff (RSS) received	Site Activities According to RSS's record, rock dowel installation for slope	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location near Nob Hill	Received Date (by ET Leader)	Details of Complaint a verbal complaint from a Legislative Council member, Mr. Cheung, on 21 January 2008. The complaint was about the construction noise and dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Nob Hill. The RSS subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on the same day The complaint was raised by a Legislative Council member, Mr. Cheung, via the RSS about the construction noise and dust nuisances generated near Nob Hill on 21st January 2008.	 Investigation/Mitigation Action stabilization at CCR-S1 was commenced on 20 December 2007 and would likely last up to the 2 February 2008. <i>Contractor Action</i> As advised by the RSS, tarpaulin covering, water spraying and temporary noise absorbent materials were provided by the Contractor to suppress the dust and noise nuisance generated from the rock drilling works. Besides, the working hours was lie in between the normal working hours from 7am to 7pm <i>Environmental Monitoring</i> Weekly site inspection was performed by ET on 28th December 2007, 2nd, 9th, 16th, 23rd January 2008. A joint environmental site audit was also conducted on 2nd January 2008 with the representatives of IEC, RSS, the Contractor and ET. There was no non-compliance or observation with regard to noise and dust nuisance at the concerned site was recorded by the auditors during the site inspections carried out in December and January 2008. 	Status
				2008. Review of Environmental Monitoring Results The routine monitoring stations, which are in the vicinity of the concerned works areas, include: <u>Noise Monitoring</u> NM8a: M/F of Nob Hill NM8b: 3/F of Nob Hill <u>Air Quality (1-hr TSP / 24-hr TSP) Monitoring</u> AM2: R/F of Lai Chi Kok Sports Centre No Action / Limit level exceedance was identified in the period between 20 th December 2007 and 24 January 2008. Conclusion	
				Based on the RSS's information, environmental monitoring results as well as the observations made during site inspections, this complaint is considered to be invalid and not due to the construction activities of the Project. It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				implemented by the Contractor during the rock drilling works.	
				However, the Contractor was still recommended to take the following mitigation measures to minimize the environmental impact on the nearby community:	
				Dust Nuisance	
				• To cover excavated dusty materials by impervious sheeting;	
				• To provide water spray for haul roads, loading/unloading and concrete breaking operations;	
				• To perform wheel wash for every vehicle immediately before leaving the site;	
				• Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials; and	
				• Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	
				Construction Noise	
				• To space out noisy equipment and position it as far away as possible from the sensitive receivers;	
				• To avoid concurrent uses of noisy equipment near the sensitive area;	
				• To ensure the equipment are maintaining in good operation condition;	
				• To turn off any idle equipment on site;	
				• Silence-type breakers were employed for the rock breaking work close to the sensitive receivers;	
				• To wrap the breaker with acoustic material; and	
				• While the permitted hours for construction works are 7am to 7pm on non-holidays, the Contractor has commenced the rock breaking activity after 8:30am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:30 am).	
				The environmental conditions of the site will be continuously	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				reviewed by the Resident Site Staff and the Environmental Team through site inspections and monitoring exercises.	