



Lam Geotechnics Limited

Contract No. HK/2009/05
Wanchai Development Phase II and Central Wanchai Bypass
Monthly EM&A Report (July 2011)

CONTRACT NO: HK/2009/05

**WANCHAI DEVELOPMENT PHASE II AND CENTRAL
WANCHAI BYPASS
SAMPLING, FIELD MEASUREMENT AND TESTING WORK
(STAGE 1)**

**ENVIRONMENTAL PERMIT NO. EP-364/2009/A,
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-01/364/2009,
FEP-02/364/2009, FEP-03/364/2009, FEP-04/364/2009/A, FEP-
05/364/2009/A, FEP-06/364/2009/A AND FEP-07/364/2009/A**

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JULY 2011 -

CLIENTS:

**Civil Engineering and Development
Department**

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

12 August 2011

Ref.: AACWBIECEM00_0_1684L.11

12 August 2011

AECOM Asia Company Limited
8/F, Tower 2
Grand Central Plaza
138 Shatin Rural Committee Road,
Shatin, New Territories,
Hong Kong

By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

**Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Monthly Environmental Monitoring and Audit Report (July 2011)
for EP-364/2009/A, FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009,
FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and
FEP-07/364/2009/A**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for July 2011 dated 12 August 2011.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



David Yeung
Independent Environmental Checker

c.c.	HyD	Mr. Jones Lai	by fax: 2714 5289
	CEDD	Mr. Patrick Keung	by fax: 2577 5040
	AECOM	Mr. Francis Leong / Mr. Stephen Lai	by fax: 2691 2649
	Lam	Mr. Raymond Dai	by fax: 2882 3331

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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – July 2011 specific for Environmental Permit no. EP-364/2009/A, Further Environmental Permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-03-364/2009, FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2009/05 –Wanchai Development Phase II and Central Wanchai Bypass. This report presents the environmental monitoring findings and information recorded during the period 28th June 2011 to 27th July 2011. The cut-off date of reporting is at 27th of each reporting month.
- ii. In the reporting month, the principal work activities of individual contracts are included as follows:

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Man Kwong Street Gate 1 & 2 setup
- Sheet piling
- Guide wall construction near PTI

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction works were completed and Engineer's confirmation for completion of work is under processing in this reporting month.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- Commencement date of Tunnel Works under FEP-02/364/2009 is pending on 25 August 2011. No major construction activity was but preparation works were commenced in this reporting month
- Pre-drilling works for SCL Protection Works and CWB.
- Site investigation works for the proposed jet grouting at HKCEC foundation.
- Pre-bored H piling works for the proposed CWB.

- Grout treatment works for proposed diaphragm wall
- Demolition of existing promenade deck

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Guide wall construction for diaphragm wall construction.
- Pre-drilling for diaphragm wall construction at WCR1 area.
- Tunnel bored pile works at WCR1 area.
- Diaphragm wall construction at WCR1 area.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- Diaphragm wall construction at TS1 and TPCWAE

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine Pre-drilling
- Trial pitting at Portion XI

Noise Monitoring

- iii. Noise monitoring during daytime was conducted at M1a - Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Center; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w – International Finance Centre Eastern and Western End of Podium on a weekly basis. [Five limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 29 June, 5, 13, 19 and 25 July 2011 during restricted hour; a limit level exceedance was recorded at M6 - HK Baptist Church Henrietta Secondary School on 13 July 2011 during day time and a limit level exceedance was recorded at M7w - International Finance Centre Western End of Podium on 19 July 2011.](#) After checking contractor's work schedules and investigation found that no major construction works were conducted during monitoring and traffic noises as major noise sources contributed in the noise monitoring. [It was considered the exceedances were related to the Project at M7w but not related at M1a and M6. Also, four Action levels were recorded due to four recorded noise complaints on 23 and 27 July 2011.](#)
- iv. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitefield Depot for the pilling works in FEHD Whitfield Depot and RTN2 – Tunnel (North Point Section) and Island Eastern Corridor Link. Calibration and maintenance of real time noise meters were conducted at RTN1 on 5 July 2011 from 0900 to 0930 hours and at RTN2 on 7 July 2011 from 1600 to 1630 hours, respectively. No monitoring was conducted during the mentioned periods. Also, no project related action and limit level exceedance was recorded in the reporting period.

Air Monitoring

- v. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b - Oil Street Community Liaison Centre; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; MA1e and MA1w – International Finance Centre eastern and western wing on every six days basis. No action and limit level exceedance were recorded in the reporting period.

Complaints, Notifications of Summons and Successful Prosecutions

- vi. There were four environmental complaint recorded in the reporting month regarding noise impact and concern of starting time of nuisance works complaint at Victoria Centre on 23 July 2011 [ICC no. 1 –303887687](#) and 27 July 2011 [ICC no. 1 –304616162](#). No further complaint was received after follow-up action and investigation. [There were two noise complaints from the ICC complaint no. 1-304013959 by Ms. Yau on 23 July 2011 and ICC complaint no.1-304615409 by Ms. Chiu on 27 July 2011 referred by RSS to Environmental Team on 28 July 2011. These complaints are under investigation and will be reported in the coming reporting month.](#)

Site Inspections and Audit

- vii. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/15, HY/2009/17, HY/2009/18, HY/2009/19 and HK/2009/02 in this reporting period. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

- viii. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Sheet piling

- Diaphragm wall
- Instrumentation at Man Yiu Street
- Slip road construction between Man Kwong Street and Finance Street
- Emergency exit construction at MTR by-law area
- CCTV for drainage pipes

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction works were completed and Engineer's confirmation for completion of work is under processing.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- Pre-drilling works for both CWB and SCL Protection Works.
- Pre-bored H piling works for the proposed CWB
- Preparatory works such as ground treatment, guide wall construction and plant establishment for the proposed diaphragm wall construction works
- The proposed diaphragm wall construction works within HKCEC1.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Tunnel bored pile and diaphragm wall construction works.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- Diaphragm wall construction at TS1 and TPCWAE

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine pre-drilling
- Remove existing dolphin pier

1. INTRODUCTION

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-364/2009A and Further Environmental permit nos. FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009, FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).

1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and “*Environmental Monitoring and Audit Requirements*” under Particular Specification Section 27.

1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/A, Further Environmental Permit (FEP) nos. FEP-01-364/2009, FEP-02/364/2009, FEP-03/364/2009, FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A during the period 28th June to 27th July 2011. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

Section 1 ***Introduction*** – details the scope and structure of the report.

Section 2 ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

Section 3 ***Status of Regulatory Compliance*** – summarizes the status of valid Environmental Permits / Licenses during the reporting period.

Section 4 ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.

Section 5 ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.

Section 6 ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.

- Section 7** ***Cumulative Construction Impact due to the Concurrent Projects*** – summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.
- Section 8** ***Site Inspection*** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9** ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10** ***Conclusion***

2. PROJECT BACKGROUND

2.1 Background

2.1.1. “Wan Chai Development phase II and Central-Wan Chai Bypass” and “Central-Wan Chai Bypass and Island Eastern Corridor Link” (hereafter called “the Project”) are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.

2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.

2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

2.2.1. Design and Construction of Central – Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at **Figure 2.1**.

2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:

- A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately 3.7 km in length defined from the connection with the existing Rumsey Street Flyover in Central, through to a connection with the existing Island Eastern Corridor to the east of the Causeway Bay Typhoon Shelter (CBTS);
- The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
- Tunnel control buildings and ventilation buildings;
- Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
- Associated road lighting, road signing, traffic control and surveillance system; and
- Other associated works.

- 2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. **Table 2.1** summarises the five individual DPs under this Project. **Figure 2.1** shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross-harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

2.3 Division of the Project Responsibility

- 2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.

- 2.3.2. In the reporting month, Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) was commenced on 13 July 2011. The details of individual contracts are summarized in **Table 2.2**.

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
HK/2009/01	Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong	DP1, DP2	Pending on 25 August 2011

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
	Kong Convention and Exhibition Centre - Tunnel Works		
HK/2009/02	Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East(CWB Tunnel)	DP1	26 April 2011
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP1	13 July 2011
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011

2.4 Project Organization and Contact Personnel

2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in **Figure 2.2**. Key personnel and contact particulars are summarized in **Table 2.3**:

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer for CWB	Principal Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
Lam Woo & CO., LTD.	Contractor under Contract no. HY/2009/17	Project Manager	Mr. K. S. Law	9090 1378	2566 7522
		Site Agent	Mr. Tony Au	9725 5874	
		Sub Agent	Mr. Johnny Wong	9725 5870	
Chiu Hing Construction & Transportation Co. Ltd.	Contractor under Contract no. 04/HY/2006	Contract Manager	Mr. Frederick Tsui	2967 6363	2967 6366
		Senior Site Agent	Mr. Alvin Ma	2967 6363	2967 6366
		Environmental Consultant	Mr. Jimmy Cheng	2965 0898	2556 9172
Chun Wo – Leader Joint Venture	Contractor under Contract no.	Site Agent	Mr. Paul Yu	9456 9819	2634 1626
		Operation Manager	Mr. Lau Yee Ching	9466 3918	

Party	Role	Post	Name	Contact No.	Contact Fax
	HK/2009/01	Construction Manager	Mr Jerry Siu	9493 3664	
		Construction Manager	Mr Ricky Lai	9487 6549	
		Construction Manager	Mr KK Yuen	3498 1213	
		Environmental Officer (Compliance Manager)	Mr Andy Mak	9103 2370	
		Environmental Supervisor	Ms Kiwi Chan	6227 8840	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Chan Sing Cho	3658-3002	2827 9996
		Site Agent	Mr. Mak Kam Wing	3658-3044	
		Deputy Site Agent	Mr. Anthony Wu	3658-3004	
		Quality & Environmental Manager	Mr. C.P. Ho	3658-3000	
		Environmental Officer	Miss Flora Ng	3658-3064	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013
		Site Agent	Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Simon Wong	9281 4346	
		Environmental Manager / Environmental Officer	M.H. Isa	9884 0810	
Leighton Contractors (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Brian Gillon	2214 7700	2140 6799
		Deputy Site Agent	Mr. Desmond Sze	2214 7703	
		Environmental Officer	Mr. Anfernee Chow	2214 7721	
		Environmental Supervisor	Mr. Dennis Yu	2214 7738	
		Environmental Supervisor	Ryan Tsui	2214 7705	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Manager	Mr. M Y Wong	2823 7879	2566 2192
		Site Agent	Mr. Simon Tang	3557 6358	
		Head of construction	Andrew Kwan	3557 6396	

Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Officer	Samuel Tsui	3557 6347	
		Environmental Officer	Daniel Sin	3557 6215	
		Environmental Supervisor	Kelven Yip	3557 6347	
		Environmental Supervisor	Tim Fung	3557 6349	
		Environmental Supervisor	Hilda Lau	3557 6378	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. In this reporting month, the principal work activities of individual contracts are included as follows:

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction work was completed and Engineer's confirmation for completion of work is under processing.

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Man Kwong Street Gate 1 & 2 setup
- Sheet piling
- Guide wall construction near PTI

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- Commencement date of Tunnel Works under FEP-02/364/2009 pending on 25 August 2011. No major construction activity was but preparation works were commenced in this reporting month
- Pre-drilling works for SCL Protection Works and CWB.
- Site investigation works for the proposed jet grouting at HKCEC foundation.
- Pre-bored H piling works for the proposed CWB.
- Grout treatment works for proposed diaphragm wall
- Demolition of existing promenade deck

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Guide wall construction for diaphragm wall construction.
- Pre-drilling for diaphragm wall construction at WCR1 area.
- Tunnel bored pile works at WCR1 area.
- Diaphragm wall construction at WCR1 area.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- Diaphragm wall construction at TS1 and TPCWAE

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine Pre-drilling
- Trial pitting at Portion XI

2.4.4. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction work was completed and waiting Engineer's formal confirmation for completion of work.

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting

- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Sheet piling
- Diaphragm wall
- Instrumentation at Man Yiu Street
- Slip road construction between Man Kwong Street and Finance Street
- Emergency exit construction at MTR by-law area
- CCTV for drainage pipes

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- Pre-drilling works for both CWB and SCL Protection Works.
- Pre-bored H piling works for the proposed CWB
- Preparatory works such as ground treatment, guide wall construction and plant establishment for the proposed diaphragm wall construction works
- The proposed diaphragm wall construction works within HKCEC1.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Tunnel bored pile and diaphragm wall construction works.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- Diaphragm wall construction at TS1 and TPCWAE

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine pre-drilling
- Remove existing dolphin pier

3. STATUS OF REGULATORY COMPLIANCE

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.1**.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Valid
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	15 Nov 2010	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 July 2010	Valid
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Valid
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Valid

3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-03/364/2009 for contract no. HY/2009/17 showed in **Table 3.2** and **Table 3.3**.

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/17

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	N/A	Valid
Notification of Works Under APCO	319348	13 Jul 2010	N/A	Valid
Discharge Licence	WT00007212-2010	5 Aug 2010	5 Aug 2010 – 31 Aug 2015	Valid
Registration as a Waste Producer	5213-151-L2608-05	13 July 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7010400	16 Mar 2010	N/A	Valid

Table 3.3 Summary of submission status under FEP-03/364/2009

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	18 September 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	1 September 2010
Condition 2.9	Noise Management Plan	1 September 2010

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- 3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-04/364/2009/A for contract no. 04/HY/2006 are shown in **Table 3.4** and **Table 3.5**.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. 04/HY/2006

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	N/A	Valid
Notification of Works Under APCO	322225	7 Oct 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7005123	9 Mar 2007	N/A	Valid

Table 3.5 Summary of submission status under FEP-04/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 July 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	11 July 2010 and 5 August 2010
Condition 2.9	Noise Management Plan	19 October 2010
Condition 2.10	Landscape Plan	26 November 2010

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- 3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-02/364/2009 for contract no. HK/2009/01 are shown in **Table 3.6** and **Table 3.7**

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0107-11	8 Feb 2011	16 Mar 2011 to 15 Sep 2011	Valid
	GW-RS0111-11	11 Feb 2011	28 Feb 2011 to 31 Aug 2011	Cancelled
	GW-RS0384-11	29 Apr 2011	27 May 2011 to 26 Nov 2011	Valid
	GW-RS0421-11	9 May 2011	11 May 2011 to 10 Nov 2011	Cancelled
	GW-RS0450-11	20 May 2010	9 Jun 2010 to 8 Dec 2011	Cancelled
	GW-RS0680-11	22 Jul 2011	29 Jul 2011 to 19 Jan 2012	Valid
	GW-RS0689-11	28 Jul 2011	29 Jul 2011 to 28 Jan 2012	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid

Table 3.7 Summary of submission status under FEP-02/364/2009

EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.7 & 2.8	Works Schedule and Location Plan	18 May 2011
Special Conditions, Clause 2.6	Environmental Management Organization Chart	18 May 2011
Special Conditions, Clause 2.6	Commencement Date of Works	25 Jun 2011
Special Conditions, Clause 2.9	Noise Management Plan	10 Jun 2011

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/364/2009 for contract no. HK/2009/02 are shown in **Table 3.8** and **Table 3.9**.

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0011-11	27 April 2011	1 July 2011 to 30 Nov 2011	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0033-11	19 Jan 2011	1 Feb 2011 to 31 Jul 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0093-11	2 Feb 2011	17 Feb 2011 to 16 Jul 2011	Valid
	GW-RS0280-11	30 Mar 2011	31 Mar 2011 to 30 Sept 2011	cancelled and superseded by "GW-RW0645-11"
	GW-RS0343-11	11 April 2011	25 Apr 2011 to 10 Oct 2011	Valid
	GW-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Valid
	GW-RS0377-11	27 April 2011	1 May 2011 to 31 Oct 2011	Valid
	GW-RE0311-11	4 May 2011	5 May 2011 to 31 Oct 2011	Valid
	GW-RS0401-11	3 May 2011	18 May 2011 to 17 Nov 2011	Valid
	GW-RS0414-11	3 May 2011	9 May 2011 to 8 Nov 2011	Valid
	GW-RS0423-11	9 May 2011	22 May 2011 to 21 Nov 2011	Valid
	GW-RS0430-11	9 May 2011	16 May 2011 to 15 Nov 2011	Valid
	GW-RS0453-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0458-11	17 May 2011	21 May 2011 to 20 Nov 2011	Valid
	GW-RS0461-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0473-11	27 May 2011	01 May 2011 to 30 Nov 2011	Valid
	GW-RS0496-11	31 May 2011	07 Jun 2011 to 06 Dec 2011	Valid
	GW-RS0502-11	8 Jun 2011	13 Jun 2011 to 12 Dec 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0579-11	22 June 2011	17 July 2011 to 16 Jan 2012	Valid
	GW-RS0645-11	18 July 2011	22 Jul 2011 to 21 Jan 2012	Valid
	GW-RS0649-11	22 July 2011	1 Aug 2011 to 31 Jan 2012	Valid
	GW-RS0691-11	25 July 2011	27 July 2011 to 26 Jan 2012	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid

Table 3.9 Summary of submission status under FEP-01/364/2009

EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.7 & 2.8	Works Schedule and Location Plan	14 Jun 2011
Special Conditions, Clause 2.6	Environmental Management Organization Chart	14 Jun 2011
Special Conditions, Clause 2.6	Commencement Date of Works	21 Jun 2011

EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.9	Noise Management Plan	28 Jun 2011

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- 3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-05/364/2009A for contract no. HY/2009/18 are shown in Table 3.10 and Table 3.11.

Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	N/A	Valid
Notification of Works Under APCO	322293	07 Oct 2010	N/A	Valid
Discharge Licence	WT00008229-2011	13 Jan 2011	31 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance	7011587	11-Oct-10	N/A	Valid
Registration as a Waste Producer	WPN: 8335-121-L1048-04	17 Dec 2010	N/A	Valid

Table 3.11 Summary of submission status under FEP-05/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	01-Mar-11
Condition 2.10	Landscape Plan	26 Jan 2011

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- 3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-06/364/2009/A for contract no. HY/2009/15 are shown in **Table 3.12** and **Table 3.13**

Table 3.12 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for Dredging and Rockfilling	GW-RS0141-11	14 Feb 2011	15 Feb to 14 Aug 2011	Valid
	GW-RS0168-11	21 Feb 2011	24 Feb to 23 Aug 2011	Valid
	GW-RS0220-11	16 Mar 2011	16 Mar to 15 Sep 2011	Valid
	GW-RS0308-11	1 Apr 2011	4 Apr to 27 Sep 2011	Valid
	GW-RS0594-11	27 Jun 2011	29 Jun to 28 Dec 2011	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid
Water Discharge Licence (Discharge at Portion VII)	WT00008780-2011	22 Mar 2011	22 Mar 2011 to 31 Mar 2016	Valid
Water Discharge Licence (Discharge at Hung Hing Road)	WT00008905-2011	11 Apr 2011	11 Apr 2011 to 30 Apr 2016	Valid

Table 3.13 Summary of submission status under FEP-06/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 Mar 2011
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule	15 Mar 2011
Condition 2.8	Location Plan	15 Mar 2011
Condition 2.23	Noise Management Plan	6 May 2011

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

3.1.9. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-07/364/2009/A for contract no. HY/2009/19 are shown in **Table 3.14** and **Table 3.15**.

Table 3.14 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	N/A	Valid
Notification of Works Under APCO	326160	24 Jan 2011	N/A	Valid
Registration as a Waste Producer	7012306	10 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	N/A	Valid

Table 3.15 Summary of submission status under FEP-07/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	02 Jun 2011
Condition 2.13	Landscape Plan	7 July 2011

4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

- 4.1.1. The noise monitoring stations for the Project are listed and shown in **Table 4.1** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Noise Monitoring Stations

Station	Description
M1a	Harbour Road Sports Centre
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School
M7e	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)

REAL TIME NOISE MONITORING STATIONS

- 4.1.2. The noise monitoring stations for the Project are listed and shown in **Table 4.2** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Real Time Noise Monitoring Stations

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitefield Depot
North Point	RTN2	Oil Street Community Liaison Centre

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq} (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq} (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.
- 4.1.4. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial

guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:

- One set of measurements between 0700 and 1900 hours on normal weekdays.

4.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:

- One set of measurements between 0700 and 1900 hours on normal weekdays.
- One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
- One set of measurements between 2300 and 0700 hours on next day on everyday.

4.1.6. If construction works are extended to include works during the hours of 1900 – 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

4.1.7. As referred to in the Technical Memorandum TM issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.1.8. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

4.1.9. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in **Table 4.3** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

Table 4.3 Air Monitoring Stations

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay

Station ID	Monitoring Location	Description
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Garden opposite to Pedestrian Plaza	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (western End of Podium)	Central

* Remarks: As per the ENPC meeting in March 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade was renamed as remark.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
- 0.6 - 1.7 m³ per minute adjustable flow range;
 - Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - Capable of providing a minimum exposed area of 406 cm²;
 - Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - Equipped with a shelter to protect the filter and sampler;
 - Incorporated with an electronic mass flow rate controller or other equivalent devices;
 - Equipped with a flow recorder for continuous monitoring;
 - Provided with a peaked roof inlet;
 - Incorporated with a manometer;
 - Able to hold and seal the filter paper to the sampler housing at horizontal position;

- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.

4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

4.2.8. Filter paper of size 8" x 10" shall be labeled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.

4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.

4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.

4.2.11. Current calibration certificates of equipments are presented in **Appendix 4.2.**

5. MONITORING RESULTS

5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in **Figure 2.1** and **Figure 4.1**. The monitoring results are presented in according to the Individual Contract(s).

5.0.2. In the reporting month, the concurrent contracts are as follows:

- Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A
- Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009
- Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A
- Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009
- Contract no. HK/2009/02 Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai East

5.0.3. The environment monitoring schedules for reporting month and coming month are presented in **Appendix 5.1**.

5.1 Noise Monitoring Results

5.1.1. Due to rainy day on 13 July 2011, the day time noise monitoring was rescheduled on 14 July 2011.

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

5.1.2. The proposed division of noise monitoring stations for Contract no. HY/2009/17 are summarized in **Table 5.1** below:

Table 5.1 Noise Monitoring Stations for Contract no. HY/2009/17

Station	Description
M4b	Victoria Centre

5.1.3. No action and limit level exceedance was recorded during day time and restricted hour period in the reporting month. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A and Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- 5.1.4. Construction activity under contract no. 04/HY/2006 was completed, no noise monitoring for the contract was conducted. Noise monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 22 April 2011. The proposed division of noise monitoring stations for Contract no. HY/2009/18 and 04/HY/2006 are summarized in **Table 5.2** below:

Table 5.2 Noise Monitoring Stations for Contract no. HY/2009/18 and 04/HY/2006

Station	Description
M7e	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)

- 5.1.5. A limit level exceedance was recorded during [day time on 19 July 2011](#) in the reporting month. After checking contractor's work schedules and investigation found that sheet piling works were conducted during monitoring. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009 and Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 5.1.6. The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is pending on 25 August 2011 and HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of noise monitoring stations are summarized in **Table 5.3** below.

Table 5.3 Noise Monitoring Station for Contract no HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.7. Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.
- 5.1.8. Five limit level exceedances were recorded at M1a - Harbour Road Sports Centre on [29 June, 5, 13, 19 and 25 July 2011](#) during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- 5.1.9. The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A was on 13 July 2011. [Noise monitoring was commenced on 13 July 2011](#). The proposed division of noise monitoring stations are summarized in **Table 5.4** below.

Table 5.4 Noise Monitoring Stations for Contract no. HY/2009/15

Station	Description
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station

- 5.1.10. Day time monitoring at station M2b on 13 July 2011 was rescheduled to 14 July 2011 due to rain.

- 5.1.11. [Four Action level exceedances and no limit level exceedance were recorded](#) during day time and restricted hour period [due to four recorded noise complaints on 23 and 27 July 2011](#) in the reporting month. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in [Appendix 5.2](#) and the complaints can be referred in [Appendix 9.1](#).

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 5.1.12. Noise monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 24 April 2011. The proposed division of noise monitoring stations are summarized in **Table 5.5** below.

Table 5.5 Noise Monitoring Stations for Contract no. HY/2009/19

Station	Description
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

- 5.1.13. [A limit level](#) exceedance was recorded at M6 - HK Baptist Church Henrietta Secondary School on [13 July 2011](#) during day time period. After checking contractor's work schedules and investigation found that no major works were conducted during monitoring and traffic noises in IECL as major noise sources contributed in the noise monitoring. It was considered the exceedances were not related to the Project. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in [Appendix 5.2](#).

5.2 Real Time Noise Monitoring Results

- 5.2.1. No construction activity with valid Construction Noise Permit was conducted during night time period (2300 to 0700) in this reporting month.

- 5.2.2. Calibration and maintenance of real time noise meters were conducted at RTN1 on 5 July 2011 from 0900 to 0930 hours and at RTN2 on 7 July 2011 from 1600 to 1630 hours, respectively. No monitoring was conducted during the mentioned periods.

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009 and Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 5.2.3. The proposed division of noise monitoring stations are summarized in **Table 5.6** below. Real time noise monitoring for the piling works under contract no. HY/2009/17 was commenced on 5 October 2010

Table 5.6 Real Time Noise Monitoring Stations for Contract no. HY/2009/17

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitefield Depot

** Real time noise monitoring results and graphical presentation during night time period are for information only.*

- 5.2.4. No project related action and limit level exceedance were recorded in the reporting period. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.4.**

- 5.2.5. The proposed division of noise monitoring stations are summarized in **Table 5.7** below. Real time noise monitoring for major construction works under contract no. HY/2009/19 was commenced on 24 April 2011.

Table 5.7 Real Time Noise Monitoring Stations for Contract no. HY/2009/19

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitefield Depot
RTN2	North Point	Oil Street Community Liaison Center

** Real time noise monitoring results and graphical presentation during night time period are for information only.*

- 5.2.6. No project related action and limit level exceedance were recorded in the reporting period. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.4.**

5.3 Air Monitoring Results

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- 5.3.1. The proposed division of air monitoring stations are summarized in **Table 5.8** below. Air monitoring for the piling works under contract no. HY/2009/17 was commenced on 8 October 2010.

Table 5.8 Air Monitoring Station for Contract no. HY/2009/17

Station	Description
CMA2a	Causeway Bay Community Centre

- 5.3.2. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in **Appendix 5.3**.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A and Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- 5.3.3. Construction activity under contract no. 04/HY/2006 was completed, no air monitoring for the contract was conducted. Air monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 21 April 2011. The proposed division of air monitoring stations are summarized in **Table 5.9** below.

Table 5.9 Air Monitoring Stations for Contract no. HY/2009/18

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)

- 5.3.4. Due to lack of electricity supply at station MA1w and CMA3a, both 24 hr-TSPs were rescheduled to conduct on 27 July 2011.
- 5.3.5. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in **Appendix 5.3**.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- 5.3.6. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HK/2009/01 under FEP-02/364/2009. The proposed division of air monitoring stations are summarized in **Table 5.10** below.

Table 5.10 Air Monitoring Station for Contract no. HK/2009/01

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 5.3.7. The commencement of construction works for HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of air monitoring stations are summarized in **Table 5.11** below.

Table 5.11 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

- 5.3.8. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in [Appendix 5.3](#).

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- 5.3.9. The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A was on 13 July 2011. Air [quality monitoring was commenced on 14 July 2011](#). The proposed division of air monitoring stations are summarized in **Table 5.12** below.

Table 5.12 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in [Appendix 5.3](#).

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 5.3.10. The proposed division of air monitoring stations are summarized in **Table 5.13** below. Air monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 26 April 2011.

Table 5.13 Air Monitoring Stations for Contract no. HY/2009/19

Station	Description
CMA1b	Oil St Community Liaison Centre
CMA2a	Causeway Bay Community Centre

- 5.3.11. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in [Appendix 5.3](#).

5.4 Waste Monitoring Results

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- 5.4.1. No Inert C&D waste was recycled in the reporting month. Details of the waste flow table are summarized in **Table 5.14**

Table 5.14 Details of Waste Disposal for Contract no. HY/2009/17

Waste Type	Quantity this month, m ³	Cumulative Quantity-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	1354.82	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	N/A	N/A	N/A

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- 5.4.2. No inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.15**.

Table 5.15 Details of Waste Disposal for Contract no. 04/HY/2006

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	1288.5	Chai Wan and T.K.O. 137
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Contract nos. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- 5.4.3. No inert and non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.16**.

Table 5.16 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 5.4.4. Inert C&D and Non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.17**.

Table 5.17 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	14,496	14,496*	TKO137
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL*	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	1,104	1,104	N/A

Contractor clarified that no Inert and Non-inert C&D materials disposed in last reporting month

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- 5.4.5. Inert C&D and Non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.18**.

Table 5.18 Details of Waste Disposal for Contract no. HY/2009/18

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	0	3946.5	T.K.O. 137
Inert C&D materials recycled	0	58.5	N/A
Non-inert C&D materials disposed	5.8	144.8	SENT Landfill
Non-inert C&D materials recycled	0	0	N/A
Chemical waste disposed	0	0	N/A

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- 5.4.6. Inert and no-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.19**.

Table 5.19 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	1,952	1,952	Tuen Mun Area 38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	26.1	26.1	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 5.4.7. Inert and non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.20**.

Table 5.20 Details of Waste Disposal for Contract no. HY/2009/19

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	0.32	1.69*	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

* Contractor clarified that cumulative non-inert C&D waste materials disposed was 1.37 m³ in last reporting month.

6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air qualities are presented in **Appendix 6.1**.

6.1 Noise Monitoring

Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

6.1.1. No exceedance was recorded in the reporting month.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

6.1.2. No noise monitoring was undertaken in the reporting month.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

6.1.3. A limit level exceedance was recorded during **day time on 19 July 2011** in the reporting month. After checking contractor's work schedules and investigation found that sheet piling works were conducted during monitoring. Details of the exceedance can be referred in **Appendix 6.2**

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention Exhibition Centre - Tunnel Works under FEP-02/364/2009

6.1.4. No noise monitoring was undertaken in the reporting month.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

6.1.5. Five limit level exceedances were recorded at M1a - Harbour Road Sports Centre on **29 June, 5, 13, 19 and 25 July 2011** during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring and not related to the Project.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

6.1.6. **Four Action level exceedances and no limit level exceedance were recorded** during day time and restricted hour period **due to four recorded noise complaints on 23 and 27 July 2011** in the reporting month.

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

6.1.7. A limit level exceedance was recorded at M6 - HK Baptist Church Henrietta Secondary School on **13 July 2011** during day time period. After checking contractor's work schedules and investigation found that no major construction works were conducted during monitoring and traffic noises in IECL as major noise sources contributed in the noise monitoring. It was considered the exceedance was not related to the Project.

6.2 Real Time Noise Monitoring

Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -

Advanced piling works under FEP-03/364/2009

- 6.2.1 No exceedance was recorded in the reporting month.

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 6.2.2 No exceedance was recorded in the reporting month.

6.3 Air Monitoring

Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- 6.3.1. No exceedance was recorded in the reporting month.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- 6.3.2. No air quality monitoring was undertaken in the reporting month.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- 6.3.3. No exceedance was recorded in the reporting month.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- 6.3.4. No air quality monitoring was undertaken in the reporting month.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 6.3.5. No exceedance was recorded in the reporting month.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) FEP-06/364/2009/A

- 6.3.6. No exceedance was recorded in the reporting month.

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 6.3.1 No exceedance was recorded in the reporting month.

6.4 Review of the Reasons for and the Implications of Non-compliance

- 6.4.1. There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

- 6.4.2. There was exceedance of noise level recorded during day time on 19 July 2011 at M7w that was considered in relation to the sheet piling during monitoring.

6.5 Summary of action taken in the event of and follow-up on non-compliance

- 6.4.3. According to the Event and Action Plan stated in Appendix 6.1, repeated measurement for noise monitoring station (M7w) would be conducted immediately once Limit Level exceedance recorded in relation to Contract no. HY/2009/18, site investigations would be arranged accordingly to observe and record the sources of the exceedance(s). Sheet piling was suspended from 19 July 2011 to 21 July 2011 and mitigation measures subjected to the works were recommended to the contractor to implement. An additional monitoring was conducted on 21 July 2011 to investigation the effectiveness of the mitigation measures. No exceedance was recorded during the monitoring.
- 6.4.4. Further investigation of the effectiveness of the mitigation measures of the sheet piling works was conducted on 4 August 2011 during day time noise monitoring at the same location. No exceedance was recorded.

7. Cumulative Construction Impact due to the Concurrent Projects

7.0.1. According to Condition 3.4 of the EP-364/2009/A, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel).

7.0.2. From the Monthly EM&A report (July 2011) of Central Reclamation Phase III the key works in July 2011 are as follows:

- Type A filling in FRAW and FRAE above +2.5mPD
- General filling works above +2.5mPD in IRAE
- Surcharging in FRAW and FRAE
- Installation of removable panels at caisson
- Installation of remaining seawall blocks and retaining wall on the west side of culvert F
- Construction of storm and foul drainage and gullies in hinterlands for Road P2 and Road D9
- Roadworks for Road P2
- Construction of GPO boundary wall
- Construction of PLA boundary wall and entrance
- Construction of Promenade enhancement works
- Construction of buildings at PLA berth
- Road P2 Underpass structures
- Construction of CWB structure
- Backfilling and waterproofing works for CWB structure
- Importation of fill material
- Strengthening of Man Yiu Street Footbridge

7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II was the seawall block construction at TCBR1w, reclamation works of HKCEC Water Channel, dredging for submarine outfall pipe, Advanced piling works at FEHD Whitfield Depot, Central Interchange, cross-harbour water mains and marine pre-drilling in the reporting month. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activity were advance piling works at FEHD Whitfield Depot, sheet piling and pre-drilling works at Central, marine pre-drilling at North Point in the reporting month and tunnel works at Wan Chai East.

7.0.4. The major environmental impacts generated from advanced piling works at FEHD Whitfield Depot were undertaken and sheet piling, pre-drilling and sheet piling works at Central and tunnel works at Wan Chai East in the reporting month. No significant air impact was anticipated in the reporting month. However, one Limit Level exceedance was recorded during construction noise monitoring in relation to Contract no. HY/2009/18 for the project Central-Wan Chai Bypass in July 2011. Mitigation measures were implemented shortly by the Contractor according to the Event and Action and no further exceedance was recorded



afterwards. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II was mainly insignificant.

8. Environmental Site Audit

8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/15, HY/2009/17, HY/2009/18, HY/2009/19 and HK/2009/02. No non-conformance was identified during the site audits.

8.0.2. Four site inspections for Contract no. HY/2009/15 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.1**.

Table 8.1 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
110628_02	28-Jun-11	The capacity of the waste water treatment facility at TS1 was found too small to contain the storm water which leads silty water leakage from the reclamation area to the sea within the silt curtain. This observation was found during amber rainstorm warning hoisted.	improve the water treating facility and increase the volume	Completion as observed on 5-Jul-11
110705_01	05-Jul-11	The contractor was reminded to conduct water spraying more frequently to deposit the dust in construction site.	Conduct water spraying more frequently to suspect the dust in construction site.	Completion as observed on 12-Jul-11
110705_02	05-Jul-11	Contractor was reminded to clear the stagnant water and mud in drip tray.	Keeping to clear the accumulation of stagnant water and mud in the drip tray	Completion as observed on 12-Jul-11
110712_01	12-Jul-11	Contractor was reminded to clear the stagnant water in drip tray after rainy day.	Keeping to clear the accumulation of stagnant water in the drip tray	Completion as observed on 19-Jul-11
110712_02	12-Jul-11	The contractor was reminded to collect the floating refuse inside silt curtain at TS1.	Collect floating refuse.	Completion as observed on 19-Jul-11
110712_03	12-Jul-11	Noise label shall be placed on air compressor at EXTCPWA.	Place noise label on air compressor	Completion as observed on 19-Jul-11
110719_01	19-Jul-11	The contractor was reminded to collect the floating refuse at EXTCPWA.	Collect floating refuse	Completion as observed on 26-Jul-11
110719_02	19-Jul-11	The contractor was reminded to collect the waste water generated by mixing plant washing at portion 13 in order to prevent the water discharged into the sea.	Collect the waste water	Completion as observed on 26-Jul-11

Item	Date	Observations	Action taken by Contractor	Outcome
110719_03	19-Jul-11	Contractor was reminded to clear the stagnant water in drip tray after rainy day.	Keeping to clear the accumulation of stagnant water in the drip tray	Completion as observed on 26-Jul-11
110726_01	26-Jul-11	The contractor was reminded to inspect and provide adequate no. of drip trays for chemicals storage.	Provide adequate no. of drip trays for chemicals storage	Completion as observed on 2-Aug-11
110726_02	26-Jul-11	Haul road should be tidied up in order to prevent any mud carried out from the site area after wheel washed.	Tidy up the haul road	Completion as observed on 2-Aug-11

8.0.3. Four site inspections for Contract no. HY/2009/17 were carried out during this reporting period. No observation was recorded in this reporting month.

8.0.4. Four site inspections for Contract no. HY/2009/18 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.2**.

Table 8.2 Summary of Environmental Inspections for Contract no. HY/2009/18

Item	Date	Observations	Action taken by Contractor	Outcome
110714_01	14-Jul-11	Enclosure of grouting plant was found damage. The contractor was reminded to maintain it.	Maintain the enclosure of grouting plant	Completion as observed on 12-Jul-11
110714_02	14-Jul-11	Stockpile at gas town works area shall be covered well.	Cover the stockpile	Completion as observed on 12-Jul-11
110721_01	21-Jul-11	Stockpile should be covered more properly.	Cover the stockpile	Completion as observed on 28-Jul-11
110721_02	21-Jul-11	Tarpaulin sheet should be put underneath the facilities which may cause oil leakage.	Put tarpaulin underneath the facilities	Completion as observed on 28-Jul-11
110728_01	28-Jul-11	The contractor was reminded to maintain the enclosures of grouting plant before grouting works began.	Maintain the enclosure of grouting plant	Completion as observed on 4-Aug-11

8.0.5. Five site inspections for Contract no. HY/2009/19 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.2**.

Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/19

Item	Date	Observations	Action taken by Contractor	Outcome
110706_01	06-Jul-11	The contractor was reminded to tie the silt curtain tightly along with the pile cap during pre drilling. (Cap38)	Maintain the silt curtain	Completion as observed on 13-Jul-11

Item	Date	Observations	Action taken by Contractor	Outcome
110720_01	20-Jul-11	The contractor was reminded to collect the floating refuse inside the silt curtain at pile cap 29.	Collect the floating refuse	Completion as observed on 27-Jul-11
110720_02	20-Jul-11	The contractor was reminded to deploy a longer silt curtain in order to have a better overlapping between the curtains to encounter the water wave.	Deploy a longer silt curtain to have a better overlapping.	Completion as observed on 27-Jul-11

8.0.6. Major construction works were completed and Engineer's confirmation for completion of work is under processing in this reporting month. No site inspection for Contract no. 04/HY/2006 was carried out during this reporting period.

8.0.7. Four site inspections for Contract no. HK/2009/02 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.3**.

Table 8.4 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
110630_01	30-Jun-11	Contractor was reminded to clear the stagnant water in drip tray after rainy day.	Keeping to clear the accumulation of stagnant water in the drip tray	Completion as observed on 7-Jul-11
110714_01	14-Jul-11	Worn sand bag was found next to the gully at Harbour Road. Contractor shall replace a new sand bag.	New sand bag was placed next to gully	Completion as observed on 19-Jul-11
110714_02	14-Jul-11	Contractor was reminded to display valid CNP for percussive piling at the barge.	Valid CNP is in place at the barge.	Completion as observed on 19-Jul-11
110714_03	14-Jul-11	Contractor was reminded that the grab for dredging at submarine outfall shall be lowered down to the sea level so as to avoid water spillage out of the silt curtain.	The practice of the dredging at submarine outfall is improved	Completion as observed on 19-Jul-11
110719_01	19-Jul-11	The level of seawall edge at WCR1 shall be enhance to avoid the escape of surface runoff during rainy season.	Sand bags are provided and enhanced at the seawall edge.	Completion as observed on 19-Jul-11
110719_02	19-Jul-11	Excavator at Wan Shing Street shall be maintained to avoid oil leakage.	Maintenance the excavator and no oil spillage were observed.	Completion as observed on 28-Jul-11

9. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. There are four complaints were received in the reporting month.
- 9.0.2. A noise impact complaint ICC no. 1 –303887687 was received by ET on 28 July 2011. It was complained by a resident Ms. Law at Block 1, Victoria Centre on 23 July 2011. She concerned that Highways Department published a notice in their Management Office about construction works will be conducted at 0700 hours during July to December 2011 including Saturday, Sunday and public holiday. RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and advice was only given on the extension construction works to 7am-9pm Monday to Saturday except Public Holidays and Sundays. As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures. Further investigation revealed that no construction noise exceedance was recorded at noise monitoring station of Victoria Centre on 19 and 25 July 2011 during daytime period while breaking and excavation works were undertaken during monitoring. In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.
- 9.0.3. A noise impact complaint ICC no. 1 –304616162 was received by ET on 28 July 2011. It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of Central-Wanchai Bypass at noon rather than in morning at 7am. RSS confirmed to start the rock breaking activities at 8m as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. Further investigation revealed that no construction noise exceedance was recorded at noise monitoring station of Victoria Centre on 25 July and 4 August 2011 during daytime period while breaking and excavation works were undertaken during monitoring. In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.
- 9.0.4. There were two noise complaints from the ICC complaint no. 1-304013959 by Ms. Yau on 23 July 2011 and ICC complaint no.1-304615409 by Ms. Chiu on 27 July 2011 referred by RSS to Environmental Team on 28 July 2011. These complaints are under investigation and will be reported in the coming reporting month.
- 9.0.5. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.6. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 9.1** and **Table 9.2** respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
------------------	-------------------



July 2011	4
Sep 10 to June 11	0

Table 9.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0

10. CONCLUSION

10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in **Table 10.1**. The construction programmes of individual contracts are provided in **Appendix 10.1**.

Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	Diaphragm wall construction at TS1 and TPCWAE	- Watering any dust generating activities - Checking all drip trays frequently and clear any stagnant water and mud inside it.
HY/2009/17	Pile cap construction	- Noise barrier shall be implemented; and - Watering any dust generating activities
HY/2009/18	- Instrumentation Manholes and Intake Culvert Survey - Excavation of trial pit - Hoarding erection - Tree transplanting - Installation of coupler in CR3 - Drainage diversion works - Site investigation and pre-drilling works - Excavation in Trough B - Sheet piling - Diaphragm wall - Instrumentation at Man Yiu Street - Slip road construction between Man Kwong Street and Finance Street - Emergency exit construction at MTR by-law area - CCTV for drainage pipes	- Noise level shall be controlled by reducing piling rate and no. of plants working in parallel. - Well maintain the enclosures for grouting and bentonite mixing plants.

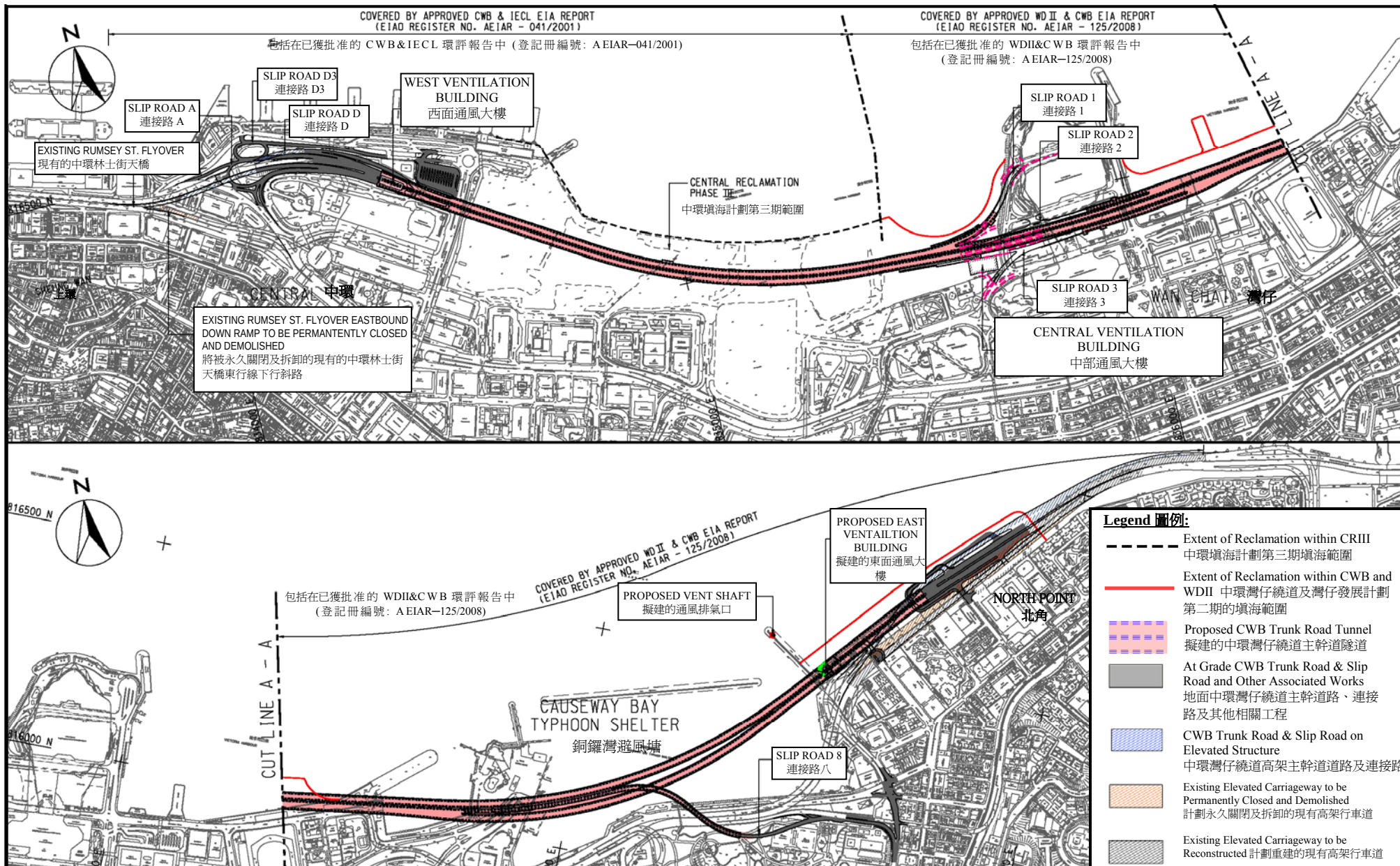
HY2009/19	• Steel fabrication of temporary platform • Erection of platform to enable marine pre-drilling • Marine pre-drilling • Remove existing dolphin pier	• Noise level shall be controlled by reducing drilling rate. • Noise barrier shall be deployed for dolphin pier removal.
HK2009/02	• Tunnel bored pile and diaphragm wall construction works.	• Noise level shall be controlled by reducing pilling rate. • Well maintain the enclosures for grouting and bentonite mixing plants.

10.0.3. Major construction works for Contract no. 04/HY/2006 were completed and Engineer's confirmation for completion of work is under processing in this reporting month.



Figure 2.1

Project Layout

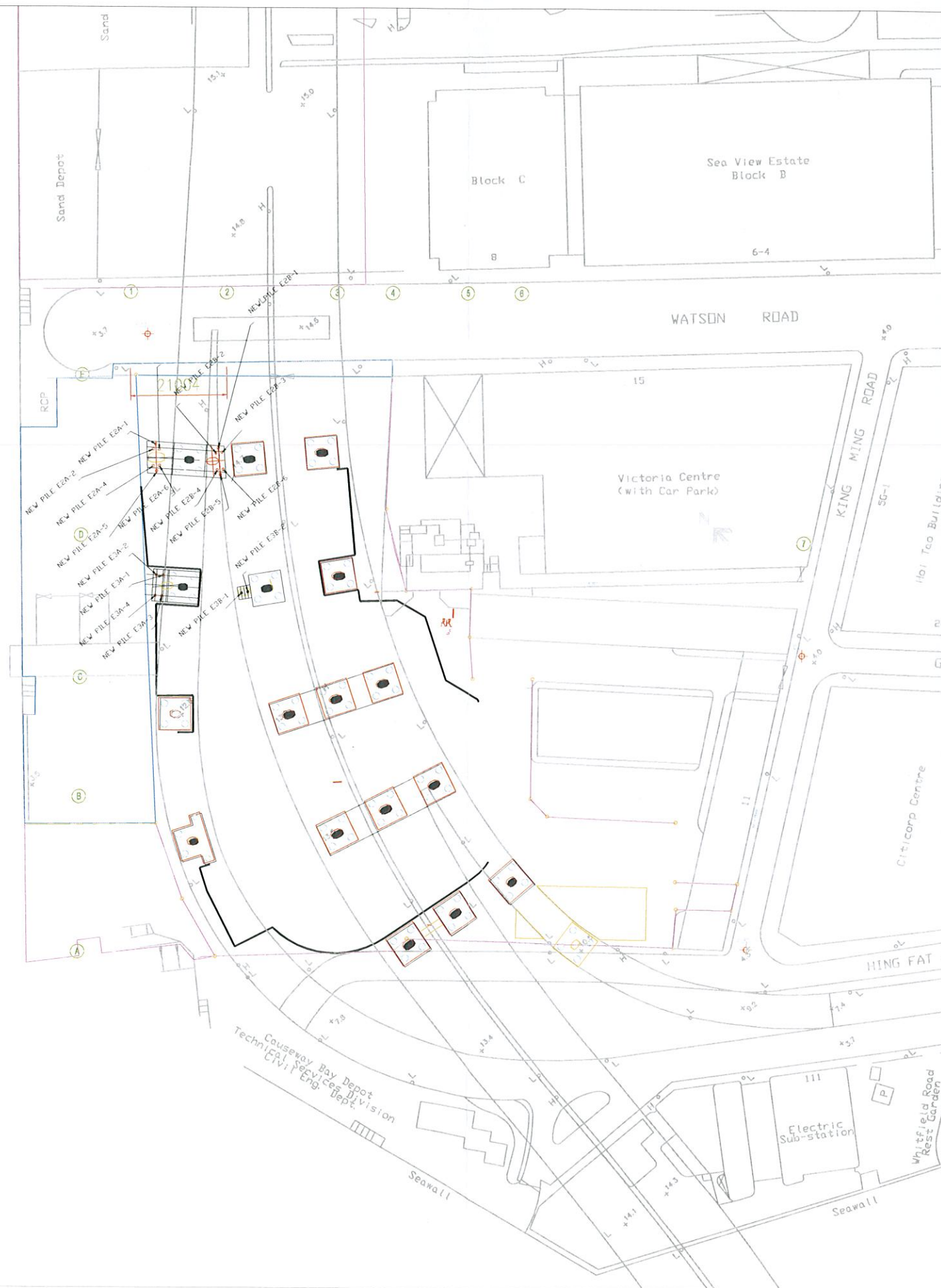


Project Title: Central-Wanchai Bypass (CWB) Including Its Road Tunnel and Slip Roads
工程項目名稱: 中環灣仔繞道包括其行車隧道及連接路

Environmental Permit No.: EP-364/2009/A
環境許可證編號: EP-364/2009/A

Figure 1: Location of the Project
圖 1: 工程項目位置

(This figure was prepared based on Figure 1.1 of the Application for Environmental Permit (Application No.: AEP-364/2009))
(本圖是根據環境許可證的申請(申請書編號 AEP-364/2009 圖 1.1 編製))



1 Co-ordinates are relative to Hong Kong Metric Grid (1980)

Legend:

REV.	DATE	DESCRIPTION	CHK.BY	AUTH.BY

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LIN

PWP ITEM NO. 579 TH K
務計劃項目編號

Project:
CENTRAL - WAN CHAI BYPASS - FEND WHITFIELD DEPOT RE-PROVISIONING WORKS

AECOM

Drawing Title
PILING PLAN FOR MODIFIED ICE BRIDGE

Contractor
LAM WOO & COMPANY LIMITED

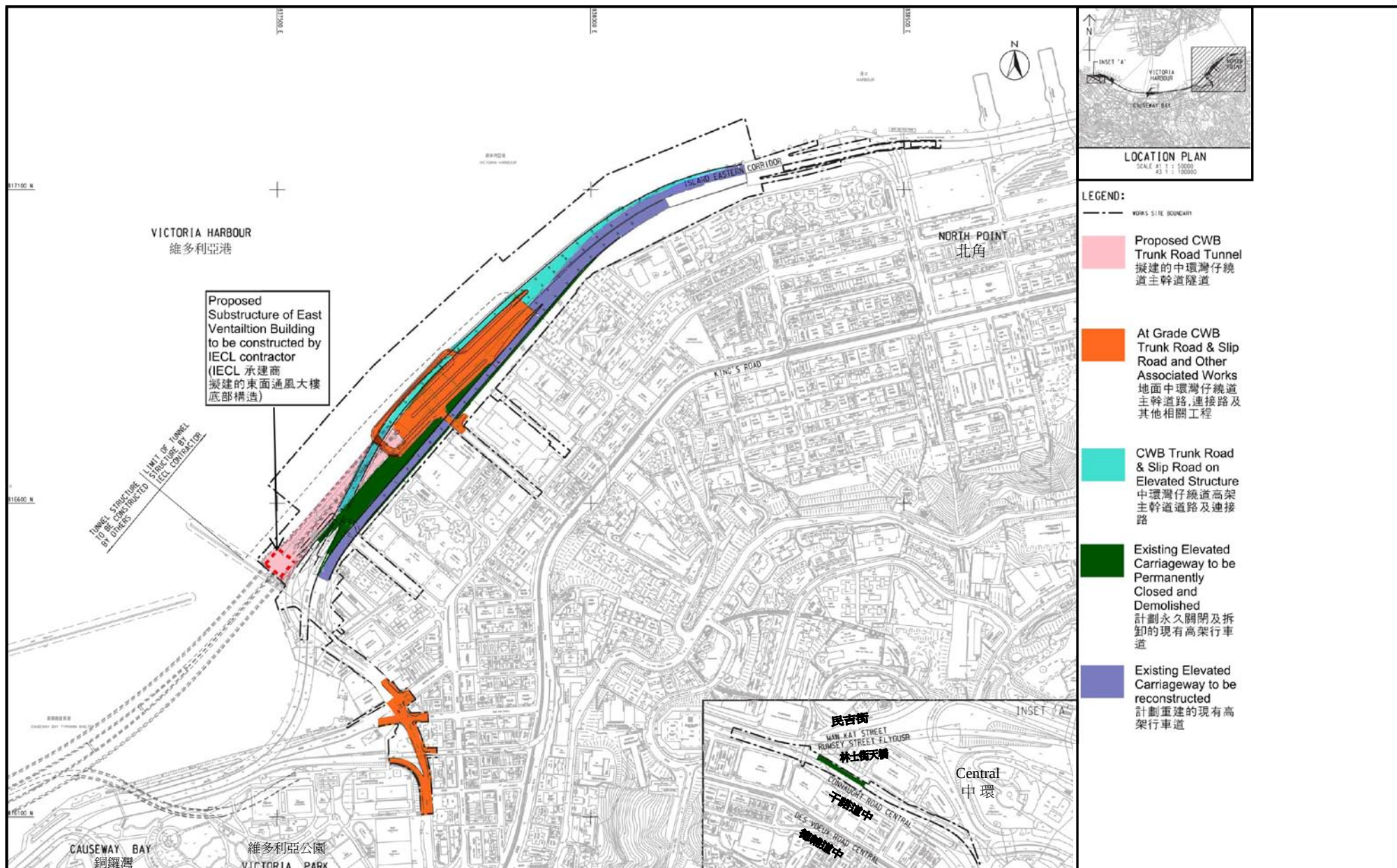
DRAWING NO. 0020

SURVEY DATE 12-06-2010

DRAWN BY KENG

CHECKED BY

SCALE 1:1000 SHEET 1



Project Title: Central-Wanchai Bypass (CWB) – Tunnel (North Point Section) and Island Eastern Corridor Link
 工程項目名稱：中環灣仔繞道—北角段隧道及東區走廊連接路
 Environmental Permit No. : FEP-07-364/2009/A
 環境許可證編號 : FEP-07-364/2009/A

Figure 1b: General Layout Plan
 圖 1b: 工程項目佈局圖

(This figure was prepared based on Sketch No.60095653/IEC/DF0006 of Application for Further Environmental Permit (Application No.: FEP-120/2011))
 (本圖是根據申請新的環境許可證 (申請書編號 FEP-120/2011) 圖 60095653/IEC/DF0006 編製)



Figure 2.2

Project Organization Chart



Project Organization Chart

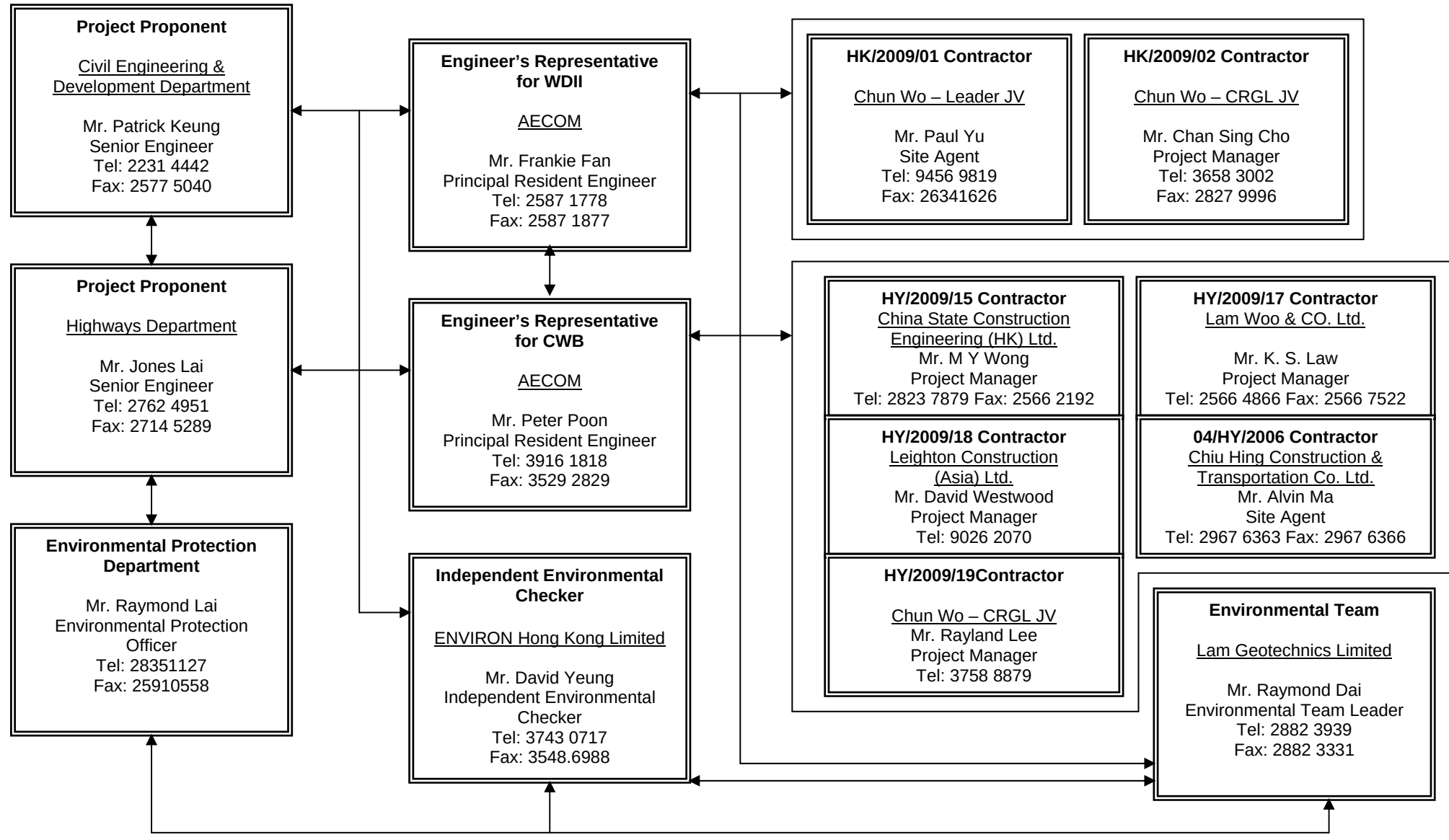
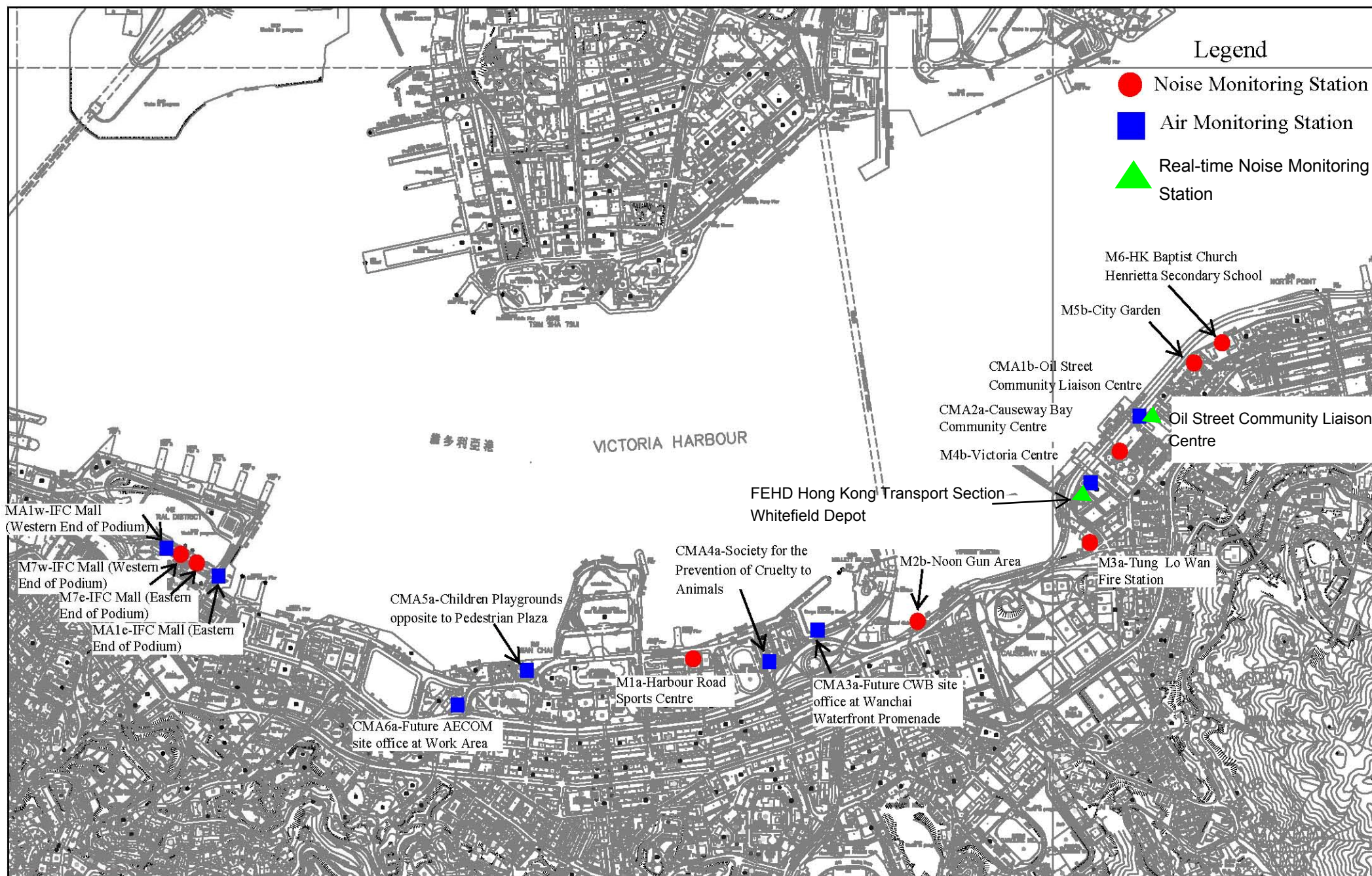




Figure 4.1

Locations of Monitoring Stations





Appendix 3.1

Environmental Mitigation Implementation Schedule

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

Table A.1 Implementation Schedule for Air Quality Control

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. - Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; - Watering during excavation and material handling; - Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and - Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.	Work site / during construction	Contractor		√			
Operational Phase								
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11 of Volume 1 of the WDII & CWB EIA Report.	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			√		
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			√		EIAO-TM

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table A.2 Implementation Schedule for Noise Control

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S4.9.3	Good Site Practice: - Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. - Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. - Mobile plant, if any, shall be sited as far away from NSRs as possible. - Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. - Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. - Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
S4.8.1 – S4.8.11	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: - Slip road 8 tunnel - Construction of diaphragm wall and substructures of the tunnel approach ramp - Excavation - Construction of slabs - Backfill	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	- Demolition and construction of substructures for the IEC - Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: - At-grade road construction - Substructure for IECL connection							
Operation Phase								
S4.8.12 – S4.8.23	For Existing NSRs - about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC - about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC - about 135m length of 5.5m high cantilevered noise barrier with 4.5m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC (amended under EP-364/2009/A) - about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC - about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC - low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area)) with speed limit of 70 km/hour	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	For Future/Planned NSRs - about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC - The openable windows of the temple, if any, should be orientated so as to avoid direct line of sight to the existing Victoria Park Road as far as practicable.	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites. Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple	HyD Project Proponent for the re-provisioned Tin Hau Temple	√	√ #			
				√				

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

Table A.4 Implementation Schedule for Waste Management

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S6.5.14	<i>Floating Refuse</i> During the construction phase, the project proponent’s contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table D9.3.	Work site / During the construction period	Contractor		√			
S6.6.1	<i>Good Site Practices</i> Recommendations for good site practices during the construction activities include: • nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; • training of site personnel in proper waste management and chemical waste handling procedures; • provision of sufficient waste disposal points and regular collection for disposal; • appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; • regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and • a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	Work site / During the construction period	Contractor		√			Waste Disposal Ordinance (Cap.354)

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.2	<i>Waste Reduction Measures</i> Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force; • any unused chemicals or those with remaining functional capacity shall be recycled; • use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. • prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill; • proper storage and site practices to minimise the potential for damage or contamination of construction materials; and • plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	Work site / During planning and design stage, and construction stage	Contractor	√	√			

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.4	<i>General Refuse</i> General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	<i>Chemical Wastes</i> After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.6.6	<i>Construction and Demolition Material</i> C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.7	In order to monitor the disposal of public fill and C&D waste at public fill reception facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		√			ETWB TCW No. 31/2004
S6.6.8	<i>Bentonite Slurry</i> The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 “Construction Site Drainage” and listed as follows: • If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. • If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. • If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table A.5 Implementation Schedule for Land Contamination

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction and Operation Phase								
S.7.1.1	As no potential contaminative land uses were identified within the Study Area, adverse land contamination impacts associated with the construction and operation of the Project is not expected. As such, environmental protection and mitigation measures are considered not necessary and will not be covered in this EM&A Manual.	-	-					-

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table A.7 Implementation Schedule for Landscape and Visual

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
Construction Phase									
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Operation Phase									
Table 10.6, Figure 10.5.1-10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6	Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004

*Des - Design, C - Construction, O – Operation, and Dec - Decommissioning



Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 70 dB(A)/ 65 dB(A) ^{Note 1}

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3 a	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5 a	332.0	500	181.0	260
MA1e	325.1	500	173.4	260
MA1w	325.1	500	173.4	260



Appendix 4.2

Copies of Calibration Certificates



Calibration Certificate

Certificate No. 12888

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

Address : 11/F., Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong

Order No. : Q10982

Date of receipt : 25-May-11

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-14

Serial No. : 10303242

Test Conditions

Date of Test : 26-May-11

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1 or IEC 804 Type 1 specification after adjustment.

The results are shown in the attached page(s).

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by :


P. F. Wong

Approved by :


Alan Chu

Date: 26-May-11

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. 12888

Page 2 of 4 Pages

Results :

1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)	
Level Range (dB)	Filter	Weight	Time Const.		Before adjust.	After adjust.
40 – 100	OFF	L _p	Fast	94.00	--	94.1
		L _{PA}	Fast		*95.0	94.1
			Slow		--	94.1
		L _{PC}	Fast		--	94.1
60 – 120	OFF	L _p	Fast	94.00	--	94.1
		L _{PA}	Fast		--	94.0
			Slow		--	94.0
		L _{PC}	Fast		--	94.0
60 – 120	OFF	L _p	Fast	114.00	--	114.0
		L _{PA}	Fast		--	113.9
			Slow		--	113.9
		L _{PC}	Fast		--	113.9

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.1 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB



Calibration Certificate

Certificate No. 12888

Page 3 of 4 Pages

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.9	-0.1	± 0.7 dB
130	104.0	103.8	-0.2	
120	94.0	94.0 (Ref.)	--	
110	84.0	83.9	-0.1	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.3	+0.3	

Uncertainty : ± 0.1 dB

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.0	0.0	± 0.4 dB
	94.0	94.0 (Ref.)	--	
	95.0	95.0	0.0	± 0.2 dB

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.0	- 39.4 dB, ± 1.5 dB
63 Hz	-25.9	- 26.2 dB, ± 1.5 dB
125 Hz	-15.9	- 16.1 dB, ± 1 dB
250 Hz	-8.4	- 8.6 dB, ± 1 dB
500 Hz	-3.0	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.3	+ 1.2 dB, ± 1 dB
4 kHz	+0.8	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-7.1	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 12888

Page 4 of 4 Pages

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.9	± 0.5 dB
1/10 ²	40.0	39.6	
1/10 ³	40.0	39.2	± 1.0 dB
1/10 ⁴	40.0	39.4	

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 1 004 hPa.

4. *Out of Specification

----- END -----



Calibration Certificate

Certificate No. 12889

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

Address : 11/F., Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong

Order No. : Q10982

Date of receipt : 25-May-11

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73

Serial No. : 10465798

Test Conditions

Date of Test : 26-May-11

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

Test Results

All results were within the manufacturer's specification after adjustment.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	03926	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL-HKSAR
S206	Sound Level Meter	04462	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by :

P. F. Wong

Approved by :

Alan Chu

Date: 26-May-11

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

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Calibration Certificate

Certificate No. 12889

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value		Mfr's Spec.
	Before Adjust.	After Adjust.	
94 dB	*95.20 dB	93.94 dB	± 1 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.994 kHz	± 2 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.5 %

Mfr's Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. The above measured values are the mean of 3 measurement.

4. Atmospheric Pressure : 1 004 hPa

5. *Out of Specification

----- END -----



Calibration Certificate

Certificate No. **06680**

Page **1** of **4** Pages

Customer : Lam Geotechnics Limited

Address : 11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong.

Order No. : Q02553

Date of receipt : 18-Nov-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ACO

Model : Type 6224

Serial No. : 050112

Test Conditions

Date of Test : 19-Nov-10

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1 & 804 Type I Specification.

The results are shown in the attached page(s).

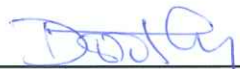
Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	00804	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).
The test results apply to the above Unit-Under-Test only

Calibrated by : 
P. F. Wong

Approved by : 
Dorothy Cheuk

This Certificate is issued by:
Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
Tel: 2425 8801 Fax: 2425 8646

Date: 23-Nov-10



Calibration Certificate

Certificate No. 06680

Page 2 of 4 Pages

Results :

1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Time Const.		
20 – 100	L _A	Fast	94.0	94.3
		Slow		94.3
	L _C	Fast		94.3
30 – 120	L _A	Fast	94.0	94.4
		Slow		94.4
	L _C	Fast		94.4
30 – 120	L _A	Fast	114.0	94.3
		Slow		94.3
	L _C	Fast		94.3

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.5	+0.1	± 0.7 dB
130	104.0	104.4	0.0	
120	94.0	94.4 (Ref.)	- -	
110	84.0	84.1	-0.3	
100	74.0	74.2	-0.2	
90	64.0	64.1	-0.3	
80	54.0	54.1	-0.3	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 06680

Page 3 of 4 Pages

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.1	-0.3	± 0.4
	94.0	94.4 (Ref.)	- -	
	95.0	95.4	0.0	± 0.2

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.3	- 39.4 dB, ± 1.5 dB
63 Hz	-26.2	- 26.2 dB, ± 1.5 dB
125 Hz	-16.1	- 16.1 dB, ± 1 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.3	+ 1.2 dB, ± 1 dB
4 kHz	+0.9	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.8	- 6.6 dB, + 3 dB $\sim -\infty$

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 06680

Page 4 of 4 Pages

4. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.9	± 0.5 dB
1/10 ²	40.0	39.9	
1/10 ³	40.0	40.3	± 1.0 dB
1/10 ⁴	40.0	40.3	

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 1 009 hPa.

----- END -----



Calibration Certificate

Certificate No. 06681

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

Address : 11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong.

Order No. : Q02553

Date of receipt : 18-Nov-10

Item Tested

Description : Sound Level Calibrator (EL469)

Manufacturer : ACO

Model : --

Serial No. : 050213

Test Conditions

Date of Test : 19-Nov-10

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	03926	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL-HKSAR
S206	Sound Level Meter	04462	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by : 
P. F. Wong

Approved by : 
Dorothy Cheuk

Date: 23-Nov-10

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

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Calibration Certificate

Certificate No. 06681

Page 2 of 2 Pages

Results :

1. Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	94.22	± 0.3 dB

The above measured values are the mean of 3 measurements.

Uncertainty : ± 0.1 dB

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	0.9834 kHz	± 2 %

Uncertainty : $\pm 3.6 \times 10^{-6}$

3. Level Stability : 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.2 %

IEC 942 Class 1 Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 1 009 hPa.

----- END -----



TISCH ENVIRONMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVELAND, OH 44102
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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 - Jun 28, 2010 Rootsmeter S/N 9833620 Ta (K) - 298
Operator Tisch Orifice I.D. - 0005 Pa (mm) - 745.49

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3860	3.2	2.00
2	NA	NA	1.00	0.9740	6.4	4.00
3	NA	NA	1.00	0.8730	7.9	5.00
4	NA	NA	1.00	0.8320	8.8	5.50
5	NA	NA	1.00	0.6850	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9767	0.7047	1.4006	0.9957	0.7184	0.8941
0.9725	0.9985	1.9808	0.9914	1.0179	1.2645
0.9704	1.1116	2.2146	0.9893	1.1332	1.4137
0.9693	1.1650	2.3227	0.9882	1.1877	1.4828
0.9641	1.4075	2.8013	0.9829	1.4349	1.7883
Qstd slope (m) = 1.99628			Qa slope (m) = 1.25003		
intercept (b) = -0.00699			intercept (b) = -0.00446		
coefficient (r) = 0.99995			coefficient (r) = 0.99995		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

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

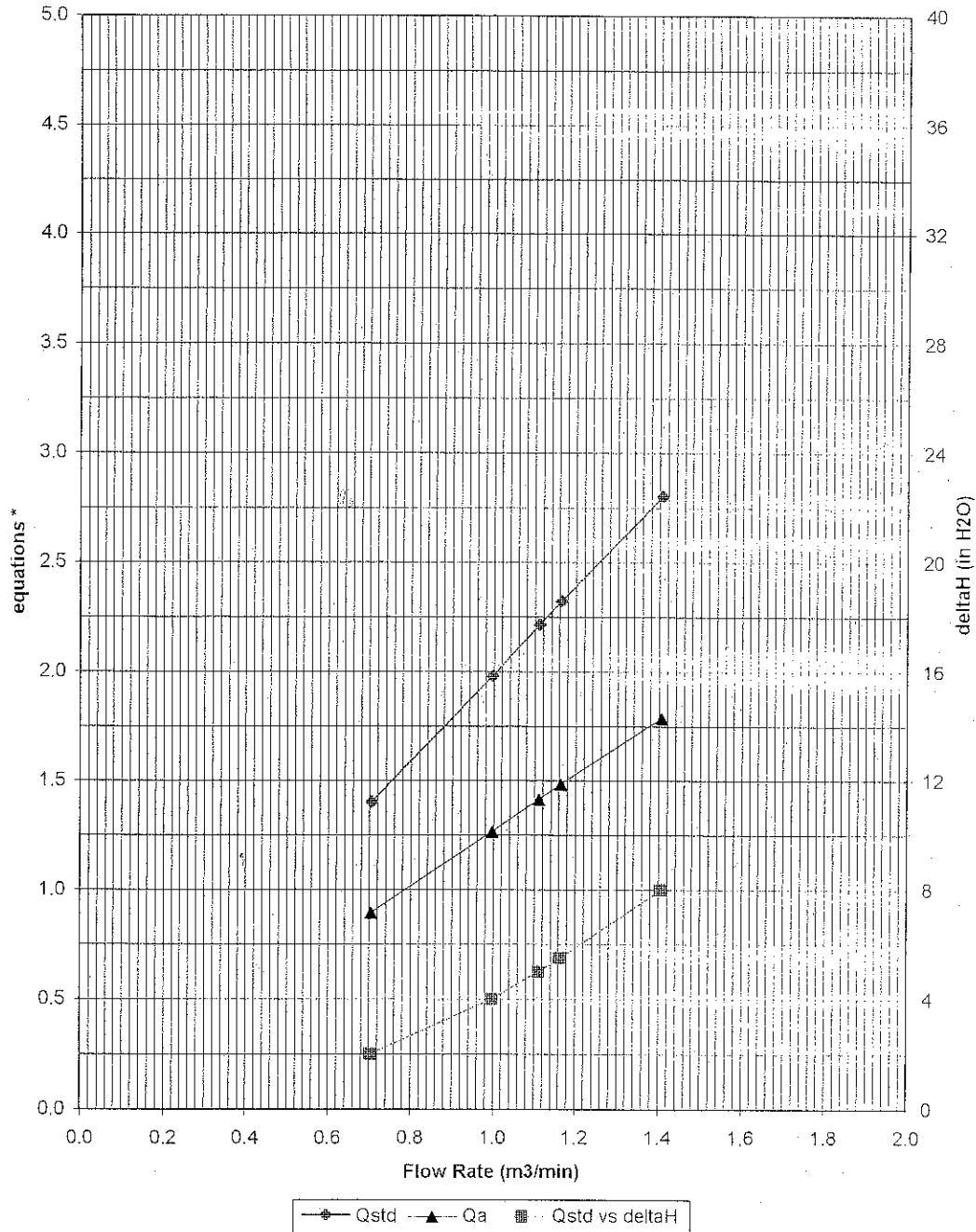
$$Qa = 1/m \{ [\text{SQRT} \text{H2O}(Ta/Pa)] - b \}$$



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AIR POLLUTION MONITORING EQUIPMENT

Qstd/Qa and Qstd vs deltaH



* y-axis equations:

Qstd series:
$$\sqrt{\Delta H \left(\frac{P_a}{P_{std}} \right) \left(\frac{T_{std}}{T_a} \right)}$$

Qa series:
$$\sqrt{(\Delta H (T_a / P_a))}$$

#0005



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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 11, 2011 Rootmeter S/N 0438320 Ta (K) - 298
 Operator Tisch Orifice I.D. - 0005 Pa (mm) - 749.3

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3710	3.2	2.00
2	NA	NA	1.00	0.9730	6.4	4.00
3	NA	NA	1.00	0.8690	7.9	5.00
4	NA	NA	1.00	0.8300	8.8	5.50
5	NA	NA	1.00	0.6860	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9817	0.7160	1.4042	0.9957	0.7263	0.8919
0.9775	1.0046	1.9859	0.9915	1.0190	1.2613
0.9754	1.1225	2.2203	0.9894	1.1385	1.4101
0.9743	1.1739	2.3286	0.9882	1.1907	1.4790
0.9690	1.4126	2.8084	0.9829	1.4328	1.7837
Qstd slope (m) = 2.01593			Qa slope (m) = 1.26234		
intercept (b) = -0.03978			intercept (b) = -0.02526		
coefficient (r) = 0.99999			coefficient (r) = 0.99999		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C113521

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Bruel & Kjaer

Model No. : 2250-L

Serial No. : 2675657

has been calibrated for the specific items and ranges.

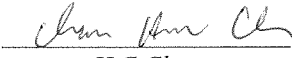
The results are shown in the Calibration Report No. C113521.

The equipment is supplied by

Co. Name : EDMS Consulting Ltd.

*Address : Room 1009, 10/F., World Wide House,
19 Des Voeux Road Central, Hong Kong*

Date of Issue : 23 June 2011

Certified by : 
H C Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

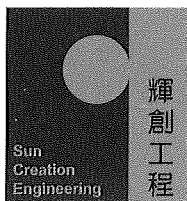
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No. : C113521

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Meter
MANUFACTURER : Bruel & Kjaer
MODEL NO. : 2250-L
SERIAL NO. : 2675657

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 22 June 2011

JOB NO. : IC11-1565

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


K C Lee

Date : 23 June 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com

Page 1 of 3

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C110018
CL281	Multifunction Acoustic Calibrator	C1006860

4. Test procedure : MA101N.

5. Results :

5.1 Sound Pressure Level

5.1.1 Reference Sound Pressure Level

UUT Setting		Applied Value		UUT Reading	IEC 61672 Class 1
Range (dB)	Main	Level (dB)	Freq. (kHz)	(dB)	Spec. (dB)
20 - 140	LAF (SPL)	94.00	1	94.0	± 1.1

5.1.2 Linearity

UUT Setting		Applied Value		UUT Reading
Range (dB)	Main	Level (dB)	Freq. (kHz)	(dB)
20 - 140	LAF (SPL)	94.00	1	94.0 (Ref.)
		104.00		104.0
		114.00		114.0

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

5.2 Time Weighting

UUT Setting		Applied Value		UUT Reading	IEC 61672 Class 1
Range (dB)	Main	Level (dB)	Freq. (kHz)	(dB)	Spec. (dB)
20 - 140	LAF (SPL)	94.00	1	94.0	Ref.
	LAS (SPL)			94.0	± 0.3

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com

Calibration Report

5.3 Frequency Weighting

5.3.1 A-Weighting

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Main	Level (dB)	Freq.		
20 - 140	LAF (SPL)	94.00	63 Hz	67.8	-26.2 ± 1.5
			125 Hz	77.8	-16.1 ± 1.5
			250 Hz	85.3	-8.6 ± 1.4
			500 Hz	90.7	-3.2 ± 1.4
			1 kHz	94.0	Ref.
			2 kHz	95.2	+1.2 ± 1.6
			4 kHz	94.9	+1.0 ± 1.6
			8 kHz	92.5	-1.1(+2.1 ; -3.1)
			12.5 kHz	89.4	-4.3(+3.0 ; -6.0)

5.3.2 C-Weighting

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Main	Level (dB)	Freq.		
20 - 140	LCF (SPL)	94.00	63 Hz	93.2	-0.8 ± 1.5
			125 Hz	93.8	-0.2 ± 1.5
			205 Hz	94.0	0.0 ± 1.4
			500 Hz	94.0	0.0 ± 1.4
			1 kHz	94.0	Ref.
			2 kHz	93.8	-0.2 ± 1.6
			4 kHz	93.1	-0.8 ± 1.6
			8 kHz	90.6	-3.0 (+2.1 ; -3.1)
			12.5 kHz	87.5	-6.2 (+3.0 ; -6.0)

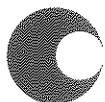
Remarks :- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB
250 Hz - 500 Hz : ± 0.30 dB
1 kHz : ± 0.20 dB
2 kHz - 4 kHz : ± 0.35 dB
8 kHz : ± 0.45 dB
12.5 kHz : ± 0.70 dB
104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.



Calibration Certificate

Certificate No. 13784

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

Address : 11/F., Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong

Order No. : Q11569

Date of receipt : 6-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250

Serial No. : 2722311

Test Conditions

Date of Test : 6-Jul-11

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1, IEC 804 Type 1 & IEC 1260 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).
The test results apply to the above Unit-Under-Test only

Calibrated by :

P. F. Wong

Approved by :

Dorothy Cheuk

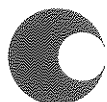
This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

Date: 6-Jul-11



Calibration Certificate

Certificate No. **13784**

Page 2 of 4 Pages

Results :

1. SPL

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Freq. Wgt.	Time Const.	Center Freq.		
20 - 140	A (SPL)	Fast	--	94.0	93.9
		Slow	--		93.9
	C (SPL)	Fast	--	94.0	93.9
	A (SPL)	Fast	--	114.0	113.8
		Slow	--		113.8
	C (SPL)	Fast	--	114.0	113.8
	--	1/1 – Oct/Fast	1 kHz	94.0	93.8
				114.0	113.7
	--	1/3 – Oct/Fast	1 kHz	94.0	93.7
				114.0	113.6

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

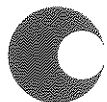
Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
20~140	84.0	83.9	0.0	± 0.4 dB
	94.0	93.9 (Ref.)	--	
	95.0	95.0	+0.1	± 0.2 dB

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13784

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

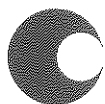
Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.8	- 39.4 dB, ± 1.5 dB
63 Hz	-26.5	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.1	+ 1.2 dB, ± 1 dB
4 kHz	+1.1	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB $\sim$ -3 dB
16 kHz	-5.9	- 6.6 dB, + 3 dB $\sim$ - ∞

Uncertainty : ± 0.1 dB

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	--	--
1/10	40.0	40.1	± 0.5 dB
1/10 ²	40.0	40.0	
1/10 ³	40.0	40.0	± 1.0 dB
1/10 ⁴	40.0	40.0	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13784

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec. (dB)
125 Hz	-64.2	< - 61
250 Hz	-44.9	< - 42
500 Hz	-21.1	< - 17.5
707 Hz	-3.8	- 2 ~ - 5
1 kHz (Ref)	--	--
1.414 kHz	-3.6	- 2 ~ - 5
2 kHz	-20.9	< - 17.5
4 kHz	-56.0	< - 42
8 kHz	-86.0	< - 61

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec.(dB)
326 Hz	-64.9	< - 61
530 Hz	-48.1	< - 42
772 Hz	-23.6	< - 17.5
891 Hz	-3.9	+ 0.3 ~ - 5.0
1 kHz (Ref)	--	--
1.122 kHz	-3.9	+ 0.3 ~ - 5.0
1.296 kHz	-23.7	< - 17.5
1.887 kHz	-48.8	< - 42
3.070 kHz	-70.4	< - 61

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric pressure : 996 hPa.

----- END -----



Calibration Certificate

Certificate No. 13813

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

Address : 11/F., Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong

Order No. : Q11569

Date of receipt : 7-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250

Serial No. : 2722310

Test Conditions

Date of Test : 8-Jul-11

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1, IEC 804 Type 1 & IEC 1260 Class 1 specification.

The results are shown in the attached page(s).

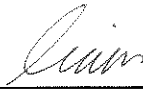
Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	07279	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

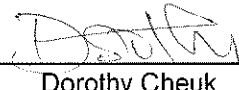
The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by : 

P. F. Wong

Approved by : 

Dorothy Cheuk

Date: 8-Jul-11

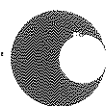
This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. **13813**

Page 2 of 4 Pages

Results :

1. SPL

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Freq. Wgt.	Time Const.	Center Freq.		
20 - 140	A (SPL)	Fast	--	94.0	93.8
		Slow	--		93.8
	C (SPL)	Fast	--	94.0	93.9
	A (SPL)	Fast	--	114.0	113.7
		Slow	--		113.7
	C (SPL)	Fast	--	114.0	113.7
	--	1/1 – Oct/Fast	1 kHz	94.0	93.8
				114.0	113.7
	--	1/3 – Oct/Fast	1 kHz	94.0	93.8
				114.0	113.7

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

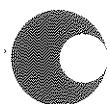
Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.8	0.0	± 0.4 dB
	94.0	93.8 (Ref.)	--	
	95.0	94.8	0.0	± 0.2 dB

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13813

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

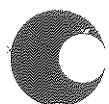
Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 1.5 dB
63 Hz	-26.6	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.4	+ 1.2 dB, ± 1 dB
4 kHz	+1.2	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB $\sim$ -3 dB
16 kHz	-5.8	- 6.6 dB, + 3 dB $\sim$ $-\infty$

Uncertainty : ± 0.1 dB

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	--	--
1/10	40.0	40.0	± 0.5 dB
1/10 ²	40.0	39.9	
1/10 ³	40.0	40.0	± 1.0 dB
1/10 ⁴	40.0	40.0	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13813

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec. (dB)
125 Hz	-64.2	< - 61
250 Hz	-44.9	< - 42
500 Hz	-21.0	< - 17.5
707 Hz	-3.8	- 2 ~ - 5
1 kHz (Ref)	--	--
1.414 kHz	-3.5	- 2 ~ - 5
2 kHz	-20.8	< - 17.5
4 kHz	-55.9	< - 42
8 kHz	-85.7	< - 61

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec.(dB)
326 Hz	-63.6	< - 61
530 Hz	-47.9	< - 42
772 Hz	-23.5	< - 17.5
891 Hz	-3.7	+ 0.3 ~ - 5.0
1 kHz (Ref)	--	--
1.122 kHz	-3.6	+ 0.3 ~ - 5.0
1.296 kHz	-23.4	< - 17.5
1.887 kHz	-48.1	< - 42
3.070 kHz	-69.8	< - 61

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric pressure : 1 000 hPa.

----- END -----



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA1b

Equipment no. : EL452

Calibration Date : 25-Jun-11

Calibration Due Date : 25-Aug-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	1.99628	Intercept, b _c	-0.00699
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.3	6.3	12.6	1.7684	59	58.5602
2	5.1	5.1	10.2	1.5914	52	51.6124
3	4.1	4.1	8.2	1.4273	44	43.6720
4	2.5	2.5	5.0	1.1153	31	30.7689
5	1.4	1.4	2.8	0.8355	19	18.8584

By Linear Regression of Y on X

Slope, m = 42.7572 Intercept, b = -16.9235

Correlation Coefficient* = 0.9998

Calibration Accepted = Yes/No**

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Jun-11

Checked by : Cherry Mak

Date : 25-Jun-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA2a

Equipment no. : EL449

Calibration Date : 25-Jun-11

Calibration Due Date : 25-Aug-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	1.99628	Intercept, b _c	-0.00699
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.2	6.2	12.4	1.7543	59	58.5602
2	5.0	5.0	10.0	1.5758	52	51.6124
3	3.8	3.8	7.6	1.3742	40	39.7019
4	2.4	2.4	4.8	1.0928	26	25.8062
5	1.4	1.4	2.8	0.8355	14	13.8956

By Linear Regression of Y on X

Slope, m = 49.6280 Intercept, b = -27.9168

Correlation Coefficient* = 0.9989

Calibration Accepted = Yes/No**

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Jun-11

Checked by : Cherry Mak

Date : 25-Jun-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA3a

Equipment no. : EL888

Calibration Date : 25-Jun-11

Calibration Due Date : 25-Aug-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	1.99628	Intercept, b _c	-0.00699
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		Y-axis
1	5.3	5.3	10.6	1.6223	46	45.6571
2	4.4	4.4	8.8	1.4784	40	39.7019
3	3.4	3.4	6.8	1.3000	34	33.7466
4	2.0	2.0	4.0	0.9979	26	25.8062
5	1.3	1.3	2.6	0.8052	18	17.8658

By Linear Regression of Y on X

Slope, m = 32.5928 Intercept, b = -7.8845

Correlation Coefficient* = 0.9969

Calibration Accepted = Yes/No**

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Jun-11

Checked by : Cherry Mak

Date : 25-Jun-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA4a

Equipment no. : EL390

Calibration Date : 25-Jun-11

Calibration Due Date : 25-Aug-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	1.99628	Intercept, b _c	-0.00699
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		Y-axis
1	5.8	5.8	11.6	1.6969	56	55.5826
2	4.6	4.6	9.2	1.5116	50	49.6273
3	3.5	3.5	7.0	1.3190	43	42.6795
4	2.3	2.3	4.6	1.0699	34	33.7466
5	1.4	1.4	2.8	0.8355	25	24.8137

By Linear Regression of Y on X

Slope, m = 35.8192 Intercept, b = -4.7936

Correlation Coefficient* = 0.9996

Calibration Accepted = Yes/No**

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Jun-11

Checked by : Cherry Mak

Date : 25-Jun-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1e

Equipment no. : EL080

Calibration Date : 25-Jun-11

Calibration Due Date : 25-Aug-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	1.99628	Intercept, b _c	-0.00699
Last Calibration Date	28-Jun-10	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		Y-axis
1	6.3	6.3	12.6	1.7684	59	58.5602
2	5.2	5.2	10.4	1.6069	54	53.5975
3	4.0	4.0	8.0	1.4098	44	43.6720
4	2.5	2.5	5.0	1.1153	30	29.7764
5	1.5	1.5	3.0	0.8647	20	19.8509

By Linear Regression of Y on X

Slope, m = 44.1699 Intercept, b = -18.6707

Correlation Coefficient* = 0.9985

Calibration Accepted = Yes/No**

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Jun-11

Checked by : Cherry Mak

Date : 25-Jun-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1w

Equipment no. : EL080

Calibration Date : 25-Jun-11

Calibration Due Date : 25-Aug-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	1.99628	Intercept, b _c	-0.00699
Last Calibration Date	28-Jun-10	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	5.5	5.5	11.0	1.6525	52	51.6124
2	4.4	4.4	8.8	1.4784	45	44.6646
3	3.4	3.4	6.8	1.3000	38	37.7168
4	2.2	2.2	4.4	1.0464	28	27.7913
5	1.4	1.4	2.8	0.8355	19	18.8584

By Linear Regression of Y on X

Slope, m = 39.8848 Intercept, b = -14.2290

Correlation Coefficient* = 0.9999

Calibration Accepted = Yes/No**

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Jun-11

Checked by : Cherry Mak

Date : 25-Jun-11



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)
Tentative Environmental Monitoring Schedule
July 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-Jun	27-Jun	28-Jun 1hr TSP x 3	29-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	30-Jun	1-Jul	2-Jul 24hr TSP
3-Jul	4-Jul 1hr TSP x 3	5-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	6-Jul	7-Jul	8-Jul 24hr TSP	9-Jul 1hr TSP x 3
10-Jul	11-Jul	12-Jul	13-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	14-Jul 24hr TSP Noise (Day time) (M2b)	15-Jul 1hr TSP x 3	16-Jul
17-Jul	18-Jul	19-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	20-Jul 24hr TSP	21-Jul 1hr TSP x 3	22-Jul	23-Jul
24-Jul	25-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	26-Jul 24hr TSP	27-Jul 1hr TSP x 3 24hr TSP (CMA3a, M7w)	28-Jul	29-Jul	30-Jul

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)
Tentative Environmental Monitoring Schedule
Aug-11

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				28-Jul	29-Jul	30-Jul
31-Jul	01-Aug 24hr TSP	02-Aug 1hr TSP x 3	03-Aug	04-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	05-Aug	06-Aug 24hr TSP
07-Aug	08-Aug 1hr TSP x 3	09-Aug	10-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	11-Aug	12-Aug 24hr TSP	13-Aug 1hr TSP x 3
14-Aug	15-Aug	16-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	17-Aug	18-Aug 24hr TSP	19-Aug 1hr TSP x 3	20-Aug
21-Aug	22-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	23-Aug	24-Aug 24hr TSP	25-Aug 1hr TSP x 3	26-Aug	27-Aug

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)
Tentative Environmental Monitoring Schedule
September 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Aug	29-Aug	30-Aug 24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2300	31-Aug 1hr TSP x 3	01-Sep	02-Sep	03-Sep
04-Sep	05-Sep 24hr TSP	06-Sep 1hr TSP x 3	07-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	08-Sep	09-Sep	10-Sep 24hr TSP
11-Sep 1hr TSP x 3	12-Sep	13-Sep	14-Sep	15-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	16-Sep 24hr TSP	17-Sep 1hr TSP x 3
18-Sep	19-Sep	20-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	21-Sep	22-Sep 24hr TSP	23-Sep 1hr TSP x 3	24-Sep
25-Sep	26-Sep	27-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	28-Sep 24hr TSP	29-Sep 1hr TSP x 3	30-Sep	01-Oct

Remarks (Air)

1. Cut-off date is at the 27th of each reporting month
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below
 - Contract 04/HY/2006: MA1e and MA1w (major works were compelted, no monitoring was conducted)
 - Contract HK/2009/01: CMA5a (To be commenced when commencement of major works under FEP-02/364/2009 begun)
 - Contract HK/2009/02: CMA4a
 - Contract HY/2009/15: CMA3a
 - Contract HY/2009/17: CMA2a
 - Contract HY/2009/18: MA1e and MA1w
 - Contract HY/2009/19: CMA1b and CMA2a '

Remarks (Noise)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Noise Monitoring Stations corresponding to active contracts are sub-divided below:
 - Contract HK/2009/01 M1a (To be commenced when commencement of major works under FEP-06/364/209/A begun)
 - Contract HK/2009/02: M1a
 - Contract HY/2009/15: M2b
 - Contract HY/2009/17: M4b
 - Contract HY/2009/19: M3a, M4b, M5b, M6
 - Contract 04/HY/2006: M7e, M7w (major works were compelted, no monitoring was conducted)
 - Contract HY/2009/19: M3a, M4b M5b, M6
4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/06/2011	09:18	Cloudy	73.8	76.3	69.9	69.2	72	75
05/07/2011	08:45	Sunny	74.4	76.8	70.1	69.2	73	75
13/07/2011	09:15	Cloudy	74.4	77.1	70.2	69.2	73	75
19/07/2011	08:49	Cloudy	73.6	76.0	69.9	69.2	72	75
25/07/2011	16:05	Sunny	73.4	75.5	70.3	69.2	71	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
14/07/2011	15:35	Cloudy	69.1	70.8	67.1	-	69	75
19/07/2011	09:45	Cloudy	70.2	71.4	68.2	-	70	75
25/07/2011	10:36	Sunny	70.0	71.7	67.1	-	70	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/06/2011	10:53	Cloudy	67.5	69.3	65.1	-	68	75
05/07/2011	10:19	Sunny	68.2	70.0	64.7	-	68	75
13/07/2011	10:53	Cloudy	67.9	69.8	65.0	-	68	75
19/07/2011	10:29	Cloudy	67.4	69.1	65.4	-	67	75
25/07/2011	11:15	Sunny	67.7	69.3	65.2	-	68	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/06/2011	11:32	Cloudy	71.5	73.9	66.7	-	72	75
05/07/2011	11:00	Fine	68.6	69.8	66.9	-	69	75
13/07/2011	10:05	Cloudy	75.1	78.1	70.3	-	75	75
19/07/2011	11:19	Fine	71.7	73.7	68.0	-	72	75
25/07/2011	13:00	Sunny	70.9	72.4	68.7	-	71	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
30/06/2011	09:55	Cloudy	70.3	72.0	68.3	-	70	75
05/07/2011	13:35	Sunny	71.7	73.0	69.9	-	72	75
13/07/2011	13:00	Cloudy	69.9	71.4	67.8	-	70	75
19/07/2011	13:15	Cloudy	68.4	69.7	66.6	-	68	75
25/07/2011	15:02	Sunny	70.4	71.3	68.4	-	70	75

Location: M6 - HK baptist Church henrietta Secondary School

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/06/2011	09:15	Cloudy	73.5	75.1	72.8	70.7	70	70
05/07/2011	14:20	Sunny	71.6	73.1	69.3	70.7	64	70
13/07/2011	14:40	Cloudy	74.3	75.5	72.7	70.7	72	70
19/07/2011	14:30	Cloudy	73.6	74.8	71.9	70.7	70	70
25/07/2011	14:22	Sunny	72.0	73.3	70.3	70.7	66	70

* Bolded result was considered non project related



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M7e - International Finance Centre (Eastern End of Podium)

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/06/2011	08:30	Sunny	68.3	71.1	65.8	-	68	75
05/07/2011	15:35	Sunny	72.5	73.9	70.0	-	73	75
13/07/2011	16:06	Cloudy	69.8	71.5	67.0	-	70	75
19/07/2011	15:35	Cloudy	72.8	74.1	70.9	-	73	75
25/07/2011	08:39	Sunny	73.2	74.7	68.6	-	73	75

Location: M7w - International Finance Centre (Western End of Podium)

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/06/2011	09:08	Sunny	71.1	74.2	67.6	-	71	75
05/07/2011	16:13	Sunny	66.1	67.7	63.6	-	66	75
13/07/2011	16:35	Cloudy	66.6	68.4	63.6	-	67	75
19/07/2011	16:13	Cloudy	83.1	88.3	68.5	-	83	75
25/07/2011	09:23	Sunny	68.0	70.1	65.1	-	68	75

* Bolded result was limit level exceedance considered project related



Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

Location: M1a - Harbour Road Sports Center

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
29/06/2011	21:37	Cloudy	71.1	73.4	67.2	71.7	61.1	71	70
	21:43		72.4	74.7	67.2				
	21:49		71.6	73.8	68.2				
05/07/2011	19:17	Fine	72.7	75.5	68.4	72.2	61.1	72	70
	19:23		72.2	75.0	67.6				
	19:29		71.7	74.1	67.6				
13/07/2011	19:00	Cloudy	73.9	76.1	71.2	73.5	61.1	73	70
	19:05		73.1	75.0	69.9				
	19:11		73.5	75.3	70.0				
19/07/2011	19:25	Cloudy	72.3	74.8	67.9	72.3	61.1	72	70
	19:31		72.3	74.9	68.0				
	19:37		72.4	74.4	68.6				
25/07/2011	19:17	Fine	72.9	75.1	69.5	72.9	61.1	73	70
	19:22		72.8	75.3	68.4				
	19:27		73.1	75.3	69.3				

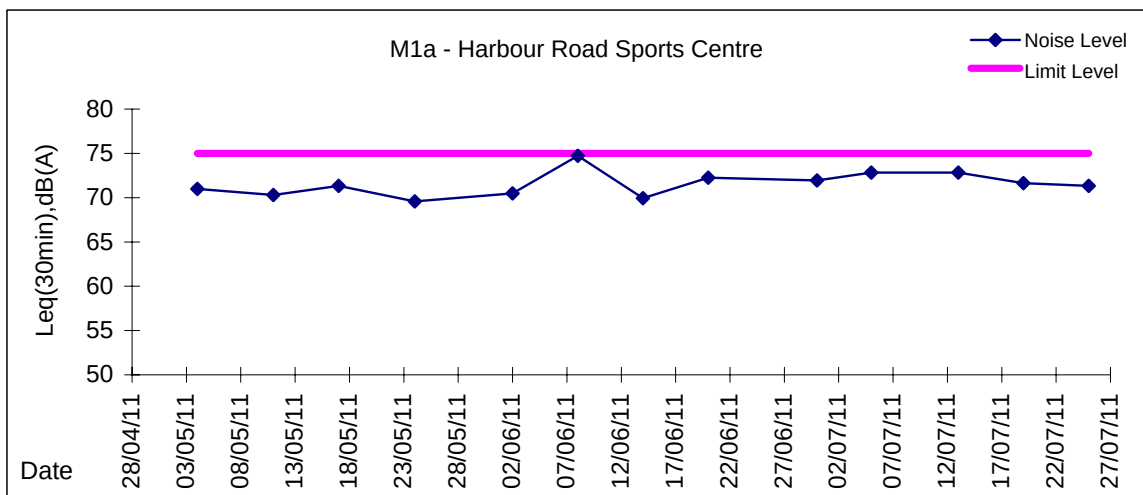
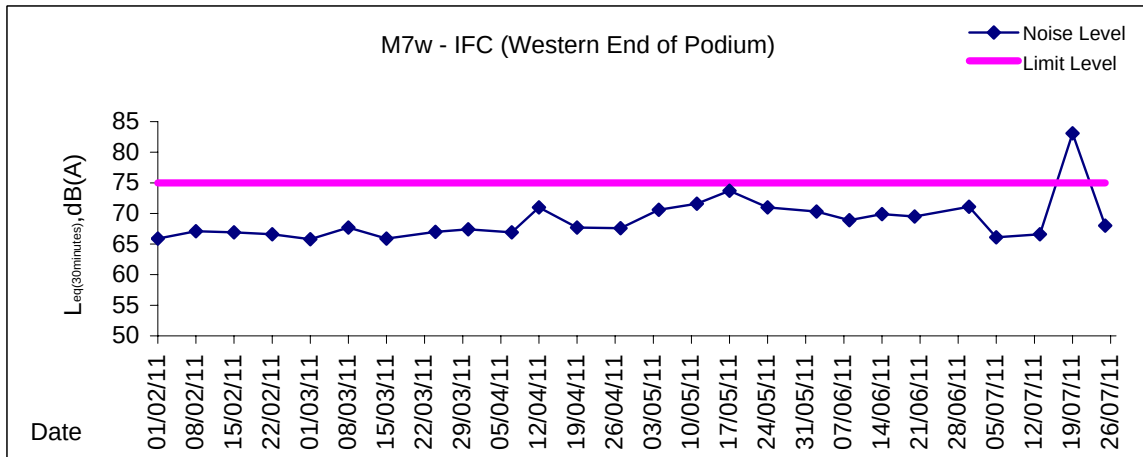
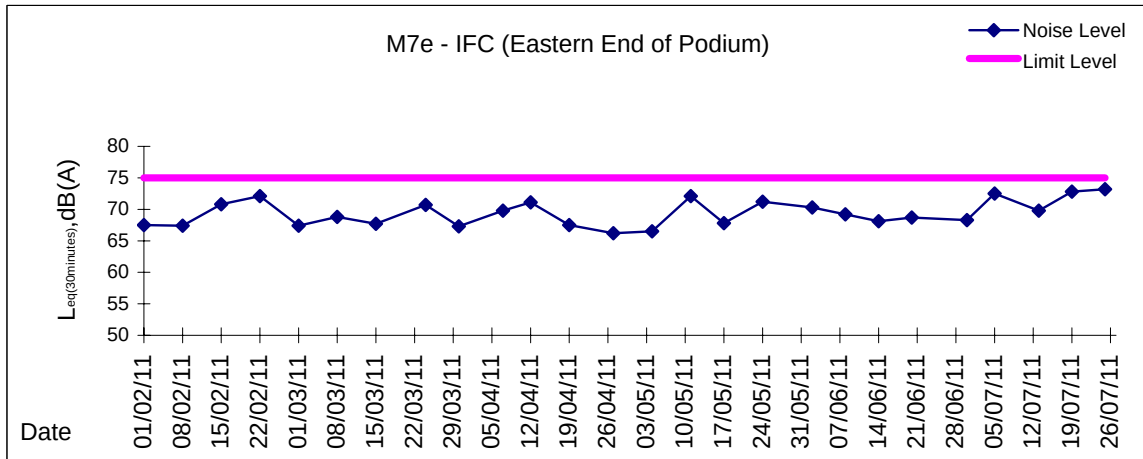
Location: M2b -Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
13/07/2011	19:45	Cloudy	68.7	70.4	66.1	68.2	-	68	70
	19:51		68.2	69.9	65.8				
	19:56		67.7	69.3	64.9				
19/07/2011	19:56	Cloudy	66.8	68.7	63.9	66.4	-	66	70
	20:02		65.8	67.7	63.4				
	20:08		66.6	68.4	64.0				
25/07/2011	19:50	Fine	67.4	68.9	64.1	66.4	-	66	70
	19:55		67.0	68.4	64.5				
	20:00		64.9	66.3	62.9				

Location: M3a - Tung Lo Wan Fire Station

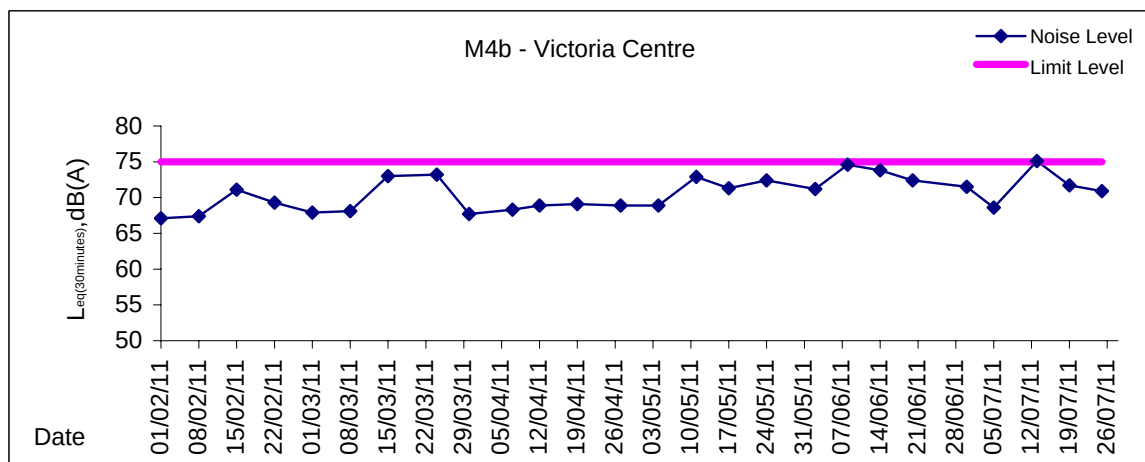
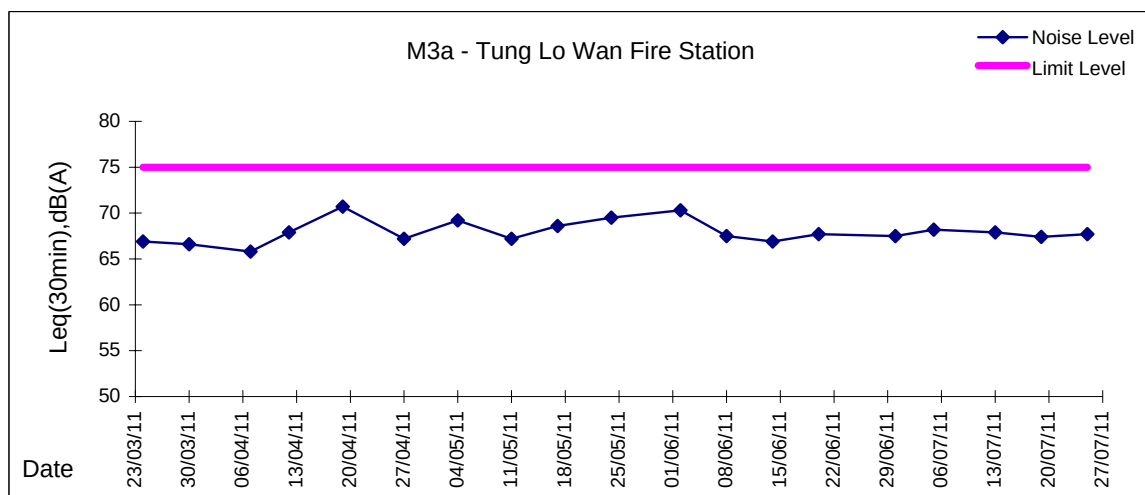
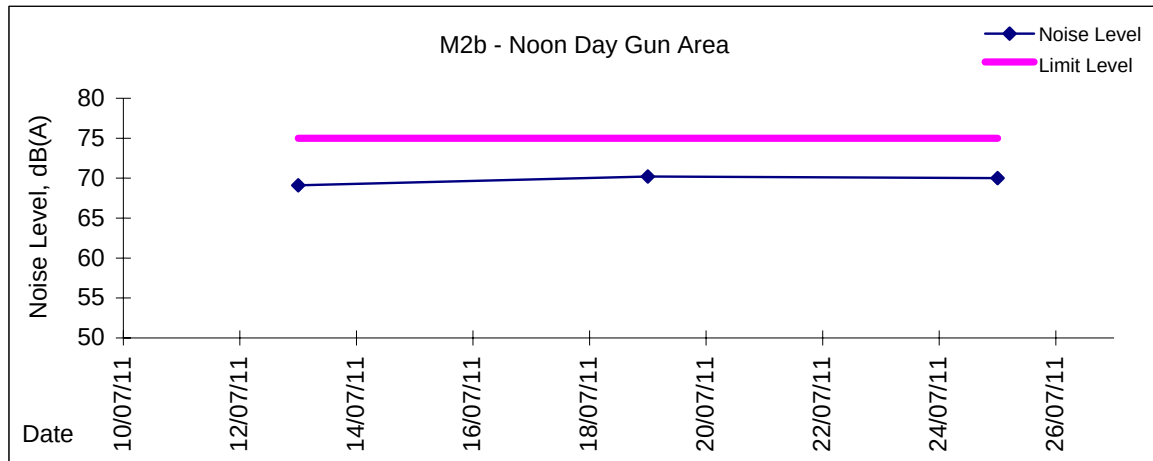
Location	Wise - Fung Lo wan Fire Station		Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
13/07/2011	20:25	Cloudy	67.1	69.9	63.6	65.7	-	66	70
	20:31		65.0	67.0	61.8				
	20:37		65.0	66.6	62.5				
19/07/2011	20:27	Cloudy	64.8	66.9	62.4	65.0	-	65	70
	20:33		65.3	68.0	62.3				
	20:39		64.8	66.7	62.1				
25/07/2011	20:23	Fine	66.2	68.6	62.9	65.6	-	66	70
	20:28		65.5	68.5	62.7				
	20:33		65.1	67.7	62.6				

Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)



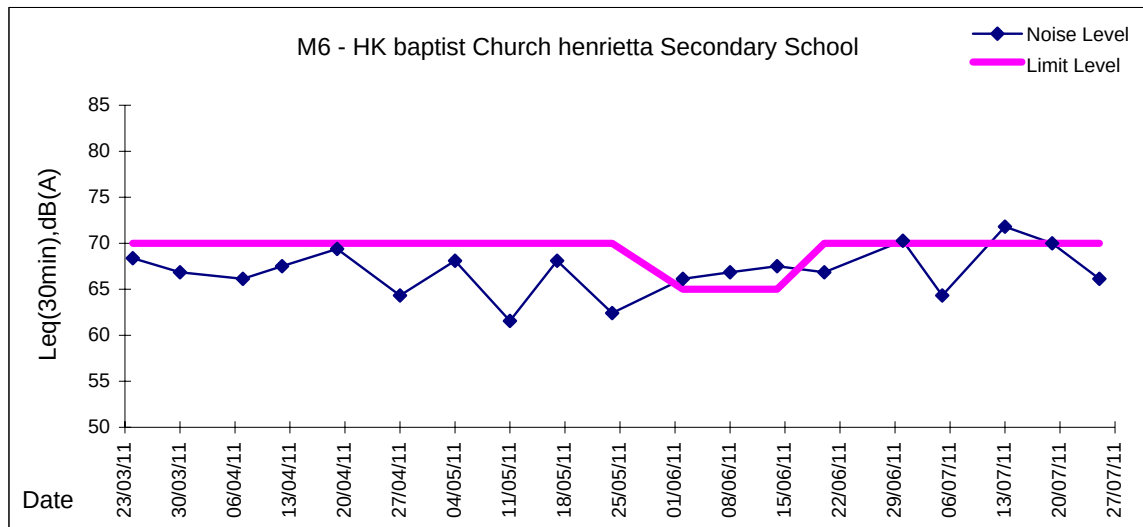
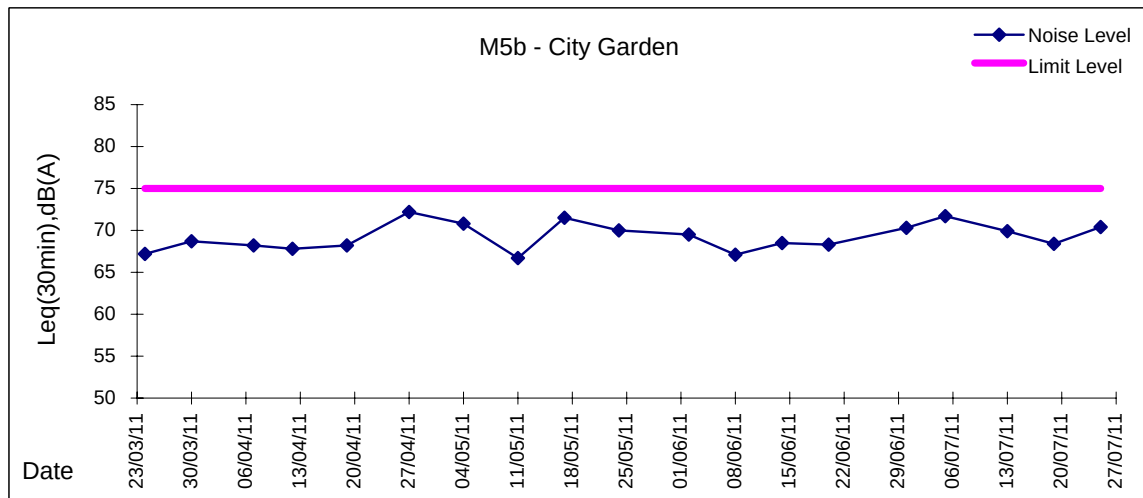
Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)





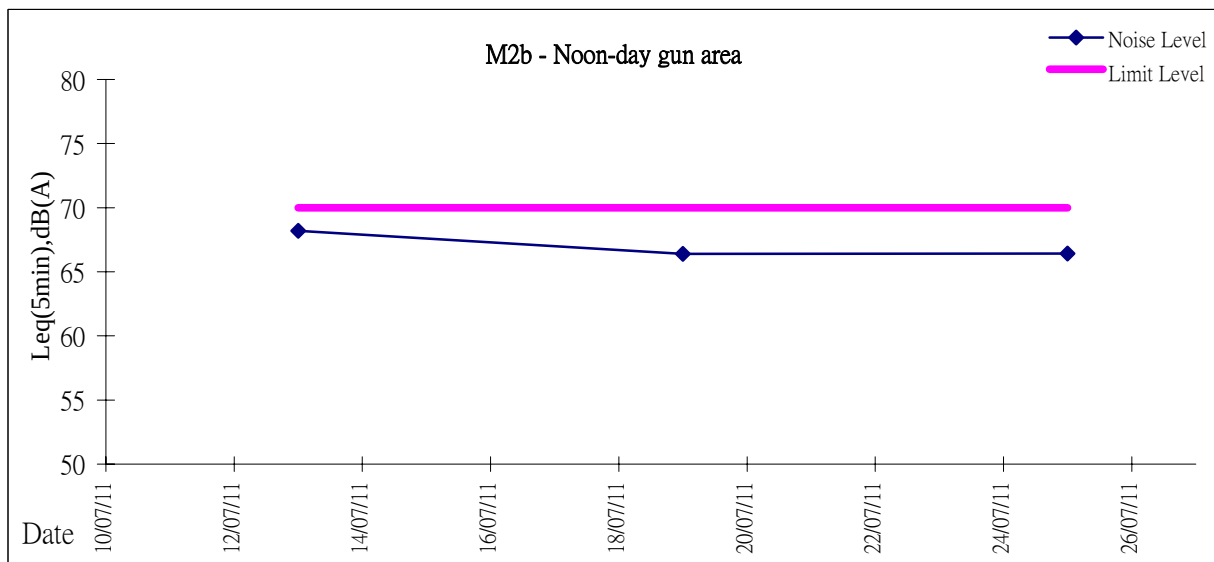
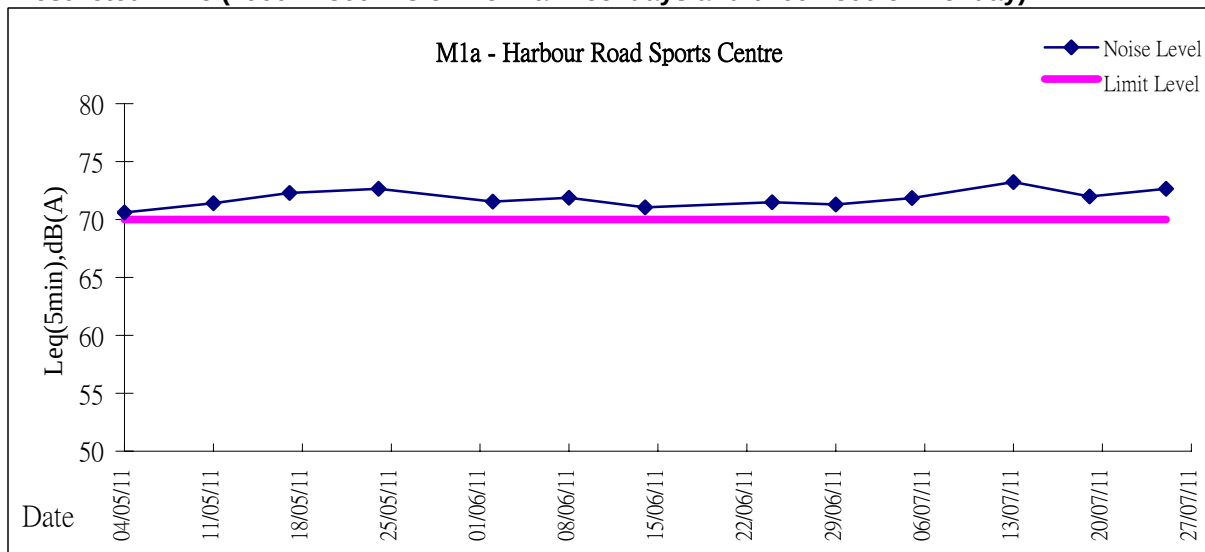
Contract no. HK/2009/05

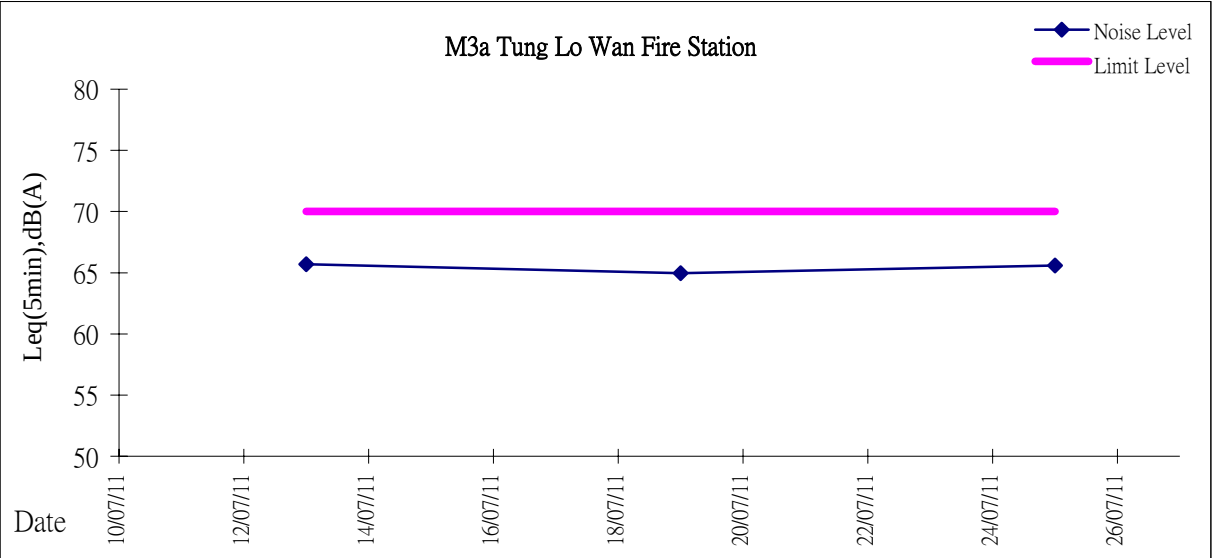
Wanchai Development Phase II and Central Wanchai Bypass

Sampling, Field Measurement and Testing Works (Stage 1)

Graphic Presentation of Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)







Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 176.7

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
02-Jul-11	08:00	Fine	000735	2.7705	2.8549	9511.67	9535.67	24.00	1.24	1.24	1.24	1785	47
08-Jul-11	08:00	Sunny	000597	2.7650	2.9115	9538.67	9562.67	24.00	1.23	1.23	1.23	1773	83
14-Jul-11	08:00	Cloudy	000558	2.7878	2.8507	9565.67	9589.67	24.00	1.23	1.23	1.23	1777	35
20-Jul-11	08:00	Fine	000687	2.7959	2.8777	9592.67	9616.67	24.00	1.23	1.23	1.23	1776	46
26-Jul-11	08:00	Fine	000740	2.7804	2.8623	9623.66	9647.66	24.00	1.24	1.24	1.24	1780	46

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 320.1

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jun-11	13:50	Cloudy	000732	2.7840	2.7923	9508.67	9509.67	1.00	1.28	1.28	1.28	77	108
28-Jun-11	15:00	Cloudy	000733	2.7780	2.7873	9509.67	9510.67	1.00	1.28	1.26	1.27	76	122
28-Jun-11	16:05	Cloudy	000734	2.7738	2.7789	9510.67	9511.67	1.00	1.26	1.26	1.26	75	68
04-Jul-11	08:45	Cloudy	000521	2.7845	2.7918	9535.67	9536.67	1.00	1.28	1.24	1.26	76	97
04-Jul-11	09:55	Cloudy	000522	2.7861	2.7953	9536.67	9537.67	1.00	1.28	1.24	1.26	76	122
04-Jul-11	11:00	Cloudy	000523	2.7915	2.7980	9537.67	9538.67	1.00	1.24	1.24	1.24	74	88
09-Jul-11	08:47	Sunny	000555	2.7814	2.7890	9562.67	9563.67	1.00	1.28	1.23	1.25	75	101
09-Jul-11	09:53	Sunny	000556	2.7963	2.8026	9563.67	9564.67	1.00	1.28	1.23	1.25	75	84
09-Jul-11	11:00	Sunny	000557	2.7997	2.8065	9564.67	9565.67	1.00	1.23	1.23	1.23	74	92
15-Jul-11	08:55	Cloudy	000686	2.7807	2.7873	9589.67	9590.67	1.00	1.28	1.23	1.26	75	88
15-Jul-11	09:59	Cloudy	000689	2.7930	2.7980	9560.67	9561.67	1.00	1.28	1.23	1.26	75	66
15-Jul-11	11:00	Cloudy	000688	2.7901	2.7972	9561.67	9562.67	1.00	1.23	1.23	1.23	74	96
21-Jul-11	08:45	Fine	000700	2.7979	2.8057	9616.67	9617.67	1.00	1.28	1.23	1.26	75	104
21-Jul-11	10:00	Fine	000228	2.7401	2.7505	9617.67	9618.67	1.00	1.28	1.23	1.26	75	138
21-Jul-11	15:13	Fine	000552	2.7844	2.7926	9618.67	9619.67	1.00	1.23	1.23	1.23	74	111
27-Jul-11	08:52	Fine	000936	2.7795	2.7855	9647.66	9648.66	1.00	1.28	1.24	1.26	76	79
27-Jul-11	10:00	Fine	000933	2.7848	2.7914	9648.66	9649.66	1.00	1.28	1.24	1.26	76	87
27-Jul-11	13:00	Fine	000932	2.7760	2.7863	9649.66	9650.66	1.00	1.24	1.24	1.24	74	139



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring
Action Level ($\mu\text{g}/\text{m}^3$) - 171
Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
14-Jul-11	08:00	Cloudy	000642	2.7548	2.8449	9873.87	9897.87	24.00	1.40	1.40	1.40	2018	45
20-Jul-11	08:00	Fine	000880	2.8224	2.8906	9900.87	9924.87	24.00	1.40	1.40	1.40	2016	34
27-Jul-11*	14:03	Fine	000887	2.8094	2.9707	9932.64	9956.64	24.00	1.46	1.46	1.46	2106	77

Report on 1-hour TSP monitoring
Action Level ($\mu\text{g}/\text{m}^3$) - 311.3
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
15-Jul-11	08:28	Cloudy	000871	2.7630	2.7708	9897.87	9898.87	1.00	1.34	1.34	1.34	81	97
15-Jul-11	09:39	Cloudy	000884	2.8178	2.8267	9898.87	9899.87	1.00	1.34	1.34	1.34	81	110
15-Jul-11	10:45	Cloudy	000882	2.8353	2.8408	9899.87	9900.87	1.00	1.34	1.34	1.34	81	68
21-Jul-11	09:00	Fine	000832	2.8244	2.8301	9924.87	9925.87	1.00	1.34	1.34	1.34	80	71
21-Jul-11	11:00	Fine	000822	2.8139	2.8183	9925.87	9926.87	1.00	1.34	1.34	1.34	80	55
21-Jul-11	13:00	Fine	000830	2.7964	2.8033	9926.87	9927.87	1.00	1.34	1.34	1.34	80	86
27-Jul-11	09:03	Fine	000897	2.8276	2.8434	9929.64	9930.64	1.00	1.35	1.34	1.35	81	196
27-Jul-11	10:05	Fine	000902	2.8724	2.8850	9930.64	9931.64	1.00	1.34	1.34	1.34	81	156
27-Jul-11	13:00	Fine	000937	2.7957	2.8074	9931.64	9932.64	1.00	1.34	1.34	1.34	81	145

* Due to lack of electricity supply, 24-hr TSP was rescheduled from 26 July 2011 to 27 July 2011

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 169.5

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
02-Jul-11	08:00	Fine	000425	2.7410	2.7970	13988.90	14012.90	24.00	1.29	1.29	1.29	1855	30
08-Jul-11	08:00	Sunny	000594	2.7848	2.8650	14015.90	14039.90	24.00	1.28	1.28	1.28	1845	43
14-Jul-11	08:00	Cloudy	000684	2.8058	2.8671	14042.90	14066.91	24.01	1.28	1.28	1.28	1850	33
20-Jul-11	08:00	Fine	000690	2.7845	2.8421	14069.91	14093.91	24.00	1.28	1.28	1.28	1848	31
26-Jul-11	08:00	Fine	000551	2.8091	2.8897	14096.91	14120.91	24.00	1.29	1.29	1.29	1853	44

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 323.4

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jun-11	08:00	Cloudy	000736	2.7883	2.7946	13984.90	13985.90	1.00	1.32	1.32	1.32	79	80
28-Jun-11	09:44	Cloudy	000785	2.8175	2.8242	13985.90	13986.90	1.00	1.32	1.32	1.32	79	85
28-Jun-11	11:00	Cloudy	000598	2.7857	2.7924	13986.90	13987.90	1.00	1.32	1.32	1.32	79	85
04-Jul-11	08:37	Cloudy	000520	2.7654	2.7734	14012.90	14013.90	1.00	1.32	1.32	1.32	79	101
04-Jul-11	09:46	Cloudy	000602	2.7625	2.7700	14013.90	14014.90	1.00	1.32	1.32	1.32	79	94
04-Jul-11	10:50	Cloudy	000671	2.7839	2.7924	14014.90	14015.90	1.00	1.32	1.32	1.32	79	107
09-Jul-11	08:30	Sunny	000672	2.8030	2.8096	14039.90	14040.90	1.00	1.32	1.32	1.32	79	83
09-Jul-11	09:39	Sunny	000682	2.7929	2.7989	14040.90	14041.90	1.00	1.32	1.32	1.32	79	76
09-Jul-11	10:57	Sunny	000683	2.7835	2.7894	14041.90	14042.90	1.00	1.32	1.32	1.32	79	75
15-Jul-11	08:45	Cloudy	000685	2.8031	2.8077	14066.91	14067.91	1.00	1.32	1.32	1.32	79	58
15-Jul-11	09:49	Cloudy	000692	2.7591	2.7640	14067.91	14068.91	1.00	1.32	1.32	1.32	79	62
15-Jul-11	10:51	Cloudy	000691	2.8071	2.8152	14068.91	14069.91	1.00	1.32	1.32	1.32	79	102
21-Jul-11	08:35	Fine	000697	2.7913	2.7985	14093.91	14094.91	1.00	1.32	1.32	1.32	79	91
21-Jul-11	09:57	Fine	000698	2.7959	2.8046	14094.91	14095.91	1.00	1.32	1.32	1.32	79	110
21-Jul-11	11:00	Fine	000699	2.8092	2.8163	14095.91	14096.91	1.00	1.32	1.32	1.32	79	90
27-Jul-11	08:58	Fine	000935	2.7851	2.7918	14120.91	14121.91	1.00	1.33	1.32	1.32	80	84
27-Jul-11	10:15	Fine	000930	2.7777	2.7844	14121.91	14122.91	1.00	1.32	1.32	1.32	79	84
27-Jul-11	13:00	Fine	000929	2.7706	2.7771	14122.91	14123.91	1.00	1.32	1.32	1.32	79	82



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 171.2

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
02-Jul-11	08:00	Fine	000815	2.8040	2.8498	13423.52	13447.44	23.92	1.20	1.20	1.20	1715	27
08-Jul-11	08:00	Sunny	000812	2.7798	2.8476	13450.42	13474.42	24.00	0.97	0.97	0.97	1403	48
14-Jul-11	08:00	Cloudy	000847	2.7883	2.8362	13477.27	13501.27	24.00	1.03	1.03	1.03	1484	32
20-Jul-11	08:00	Fine	000878	2.8339	2.8788	13504.27	13528.27	24.00	1.03	1.03	1.03	1482	30
26-Jul-11	08:00	Fine	000909	2.8159	2.8722	13531.28	13555.28	24.00	1.03	1.03	1.03	1486	38

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 312.5

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jun-11	08:20	Cloudy	000793	2.8000	2.8045	13372.51	13373.51	1.00	1.08	1.08	1.08	65	69
28-Jun-11	09:35	Cloudy	000794	2.7915	2.7974	13373.51	13374.51	1.00	1.08	1.08	1.08	65	91
28-Jun-11	13:45	Cloudy	000762	2.7701	2.7739	13374.51	13375.51	1.00	1.08	1.08	1.08	65	59
04-Jul-11	08:00	Cloudy	000512	2.8019	2.8089	13447.44	13448.44	1.00	1.09	1.09	1.09	65	107
04-Jul-11	09:05	Cloudy	000513	2.7885	2.7960	13448.44	13449.43	0.99	1.09	1.09	1.09	65	116
04-Jul-11	10:08	Cloudy	000645	2.7305	2.7348	13449.43	13450.42	0.99	1.09	1.09	1.09	65	67
09-Jul-11	08:20	Sunny	000837	2.8206	2.8214	13474.42	13475.42	1.00	1.08	1.08	1.08	65	12
09-Jul-11	09:25	Sunny	000838	2.8058	2.8098	13475.42	13476.36	0.94	1.08	1.08	1.08	61	66
09-Jul-11	10:30	Sunny	000840	2.8022	2.8058	13476.36	13477.27	0.91	1.08	1.08	1.08	59	61
15-Jul-11	08:47	Cloudy	000885	2.8255	2.8326	13501.27	13502.27	1.00	1.08	1.08	1.08	65	109
15-Jul-11	09:55	Cloudy	000883	2.8343	2.8386	13502.27	13503.27	1.00	1.08	1.08	1.08	65	66
15-Jul-11	11:01	Cloudy	000881	2.8062	2.8111	13503.27	13504.27	1.00	1.08	1.08	1.08	65	75
21-Jul-11	08:47	Fine	000831	2.7847	2.7886	13528.27	13529.27	1.00	1.08	1.08	1.08	65	60
21-Jul-11	09:55	Fine	000803	2.7994	2.8048	13529.27	13530.27	1.00	1.08	1.08	1.08	65	83
21-Jul-11	13:00	Fine	000823	2.8104	2.8168	13530.27	13531.27	1.00	1.08	1.08	1.08	65	99
27-Jul-11	08:52	Fine	000950	2.7979	2.8026	13555.28	13556.28	1.00	1.09	1.08	1.09	65	72
27-Jul-11	10:14	Fine	000951	2.7854	2.7921	13556.28	13557.28	1.00	1.08	1.08	1.08	65	103
27-Jul-11	13:00	Fine	000938	2.7880	2.7957	13557.28	13558.28	1.00	1.08	1.08	1.08	65	118



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 173.4

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
02-Jul-11	08:00	Fine	000784	2.8097	2.8922	10232.54	10256.54	24.00	1.36	1.38	1.37	1967	42
08-Jul-11	08:00	Sunny	000773	2.7533	2.8449	10259.54	10283.54	24.00	1.35	1.35	1.35	1940	47
14-Jul-11	08:00	Cloudy	000767	2.7727	2.8388	10286.54	10310.54	24.00	1.35	1.35	1.35	1945	34
20-Jul-11	08:00	Fine	000918	2.8460	2.9191	10313.54	10337.54	24.00	1.35	1.35	1.35	1943	38
27-Jul-11*	11:57	Fine	000877	2.8275	2.9805	10358.57	10382.57	24.00	1.28	1.28	1.28	1848	83

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 325.1

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jun-11	08:50	Cloudy	000797	2.7775	2.7820	10229.54	10230.54	1.00	1.35	1.35	1.35	81	56
28-Jun-11	09:55	Cloudy	000799	2.7697	2.7771	10230.54	10231.54	1.00	1.35	1.35	1.35	81	91
28-Jun-11	11:00	Cloudy	000801	2.7861	2.7914	10231.54	10232.54	1.00	1.35	1.35	1.35	81	66
04-Jul-11	08:33	Fine	000763	2.7727	2.7796	10256.54	10257.54	1.00	1.31	1.31	1.31	79	88
04-Jul-11	09:36	Fine	000782	2.8054	2.8119	10257.54	10258.54	1.00	1.31	1.31	1.31	79	83
04-Jul-11	10:39	Fine	000771	2.7835	2.7873	10258.54	10259.54	1.00	1.31	1.31	1.31	79	48
09-Jul-11	08:43	Sunny	000775	2.7844	2.7880	10283.54	10284.54	1.00	1.30	1.30	1.30	78	46
09-Jul-11	09:48	Sunny	000777	2.7841	2.7878	10284.54	10285.54	1.00	1.30	1.30	1.30	78	47
09-Jul-11	10:53	Sunny	000769	2.8210	2.8255	10285.54	10286.54	1.00	1.30	1.30	1.30	78	58
15-Jul-11	08:45	Cloudy	000904	2.8466	2.8531	10310.54	10311.54	1.00	1.30	1.30	1.30	78	83
15-Jul-11	10:20	Cloudy	000766	2.7730	2.7791	10311.54	10312.54	1.00	1.30	1.30	1.30	78	78
15-Jul-11	13:00	Cloudy	000764	2.7729	2.7800	10312.54	10313.54	1.00	1.30	1.30	1.30	78	91
21-Jul-11	08:43	Fine	000916	2.7949	2.8023	10337.55	10338.55	1.00	1.30	1.30	1.30	78	95
21-Jul-11	09:48	Fine	000914	2.8192	2.8238	10338.55	10339.55	1.00	1.30	1.30	1.30	78	59
21-Jul-11	11:00	Fine	000912	2.8450	2.8512	10339.55	10340.55	1.00	1.30	1.30	1.30	78	79
27-Jul-11	08:45	Sunny	000906	2.8003	2.8059	10355.49	10356.49	1.00	1.31	1.31	1.31	78	72
27-Jul-11	09:50	Sunny	000580	2.7919	2.8016	10356.49	10357.49	1.00	1.31	1.31	1.31	78	124
27-Jul-11	10:54	Sunny	000873	2.7489	2.7605	10357.49	10358.49	1.00	1.31	1.31	1.31	78	148

* Due to lack of electricity supply, 24-hr TSP was rescheduled from 26 July 2011 to 27 July 2011



Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 173.4

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
02-Jul-11	08:00	Fine	000802	2.7715	2.8388	7080.59	7104.59	24.00	1.33	1.33	1.33	1908	35
08-Jul-11	08:00	Sunny	000772	2.8078	2.8923	7107.59	7131.59	24.00	1.40	1.40	1.40	2021	42
14-Jul-11	08:00	Cloudy	000768	2.7758	2.8285	7134.59	7158.59	24.00	1.41	1.41	1.41	2024	26
20-Jul-11	08:00	Fine	000749	2.8044	2.8686	7161.59	7185.59	24.00	1.40	1.40	1.40	2022	32
26-Jul-11	08:00	Fine	000911	2.8314	2.9064	7188.60	7212.60	24.00	0.56	0.56	0.56	810	93

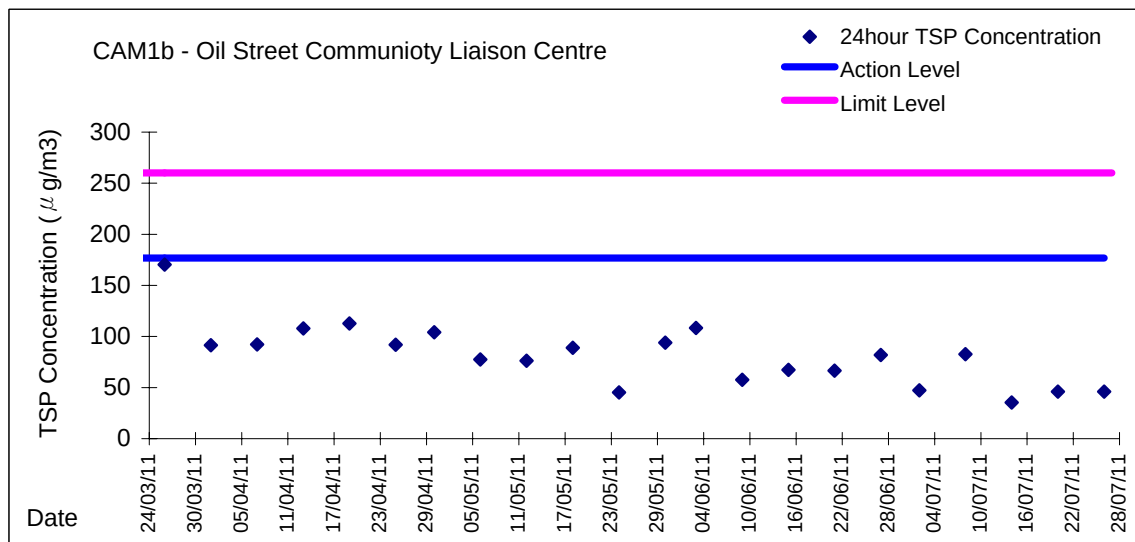
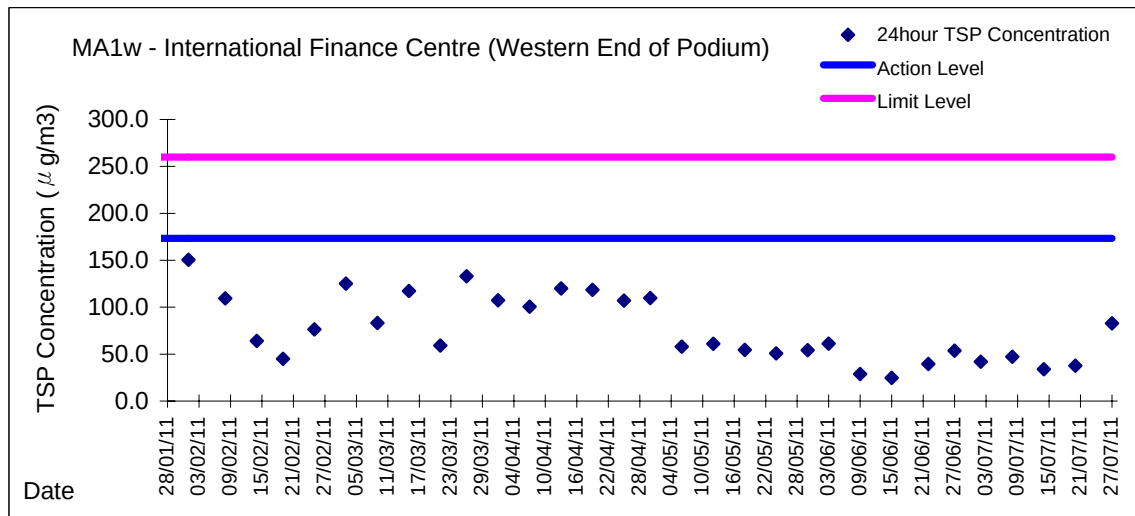
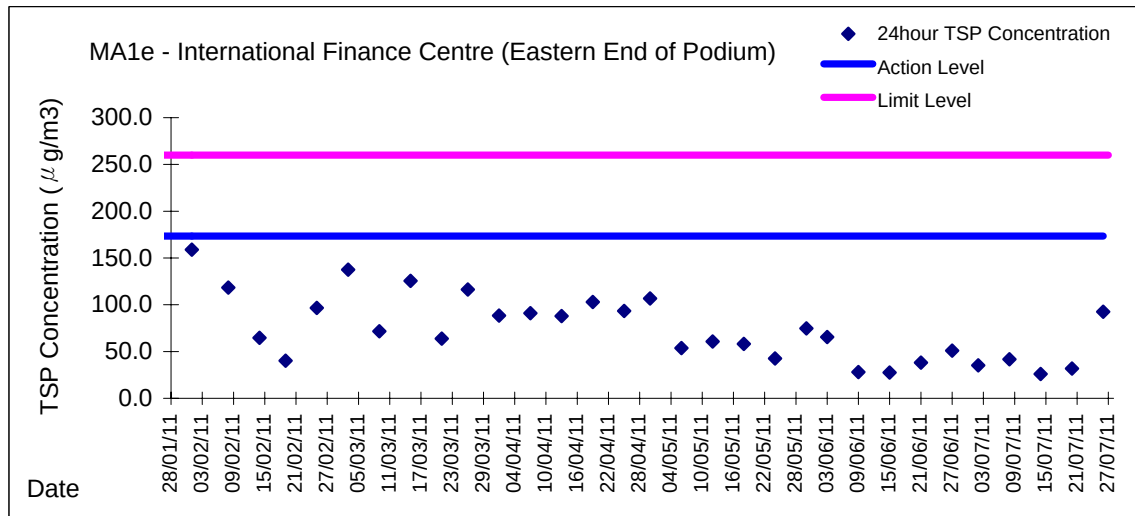
Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 325.1

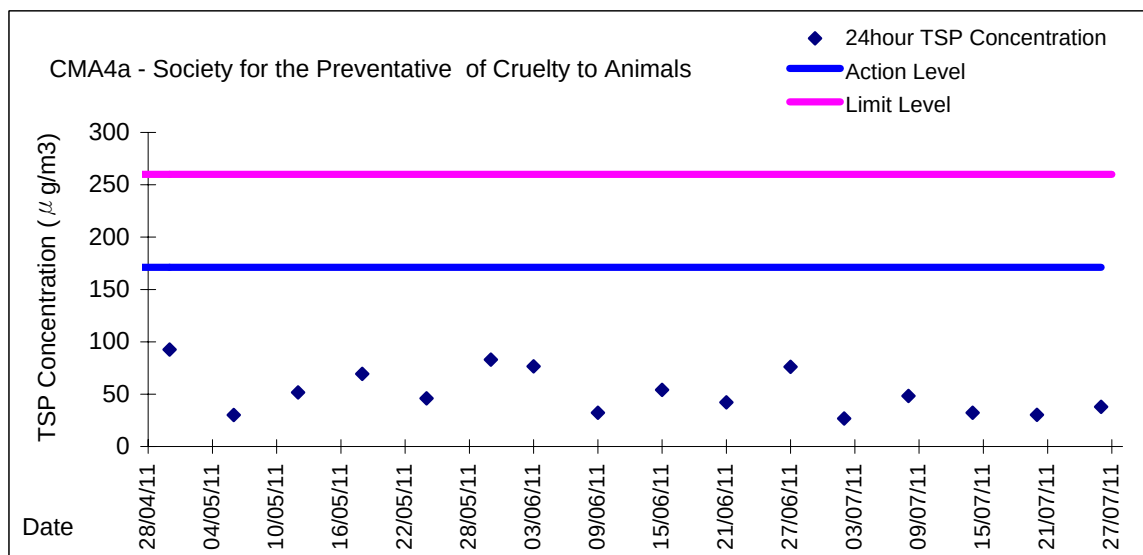
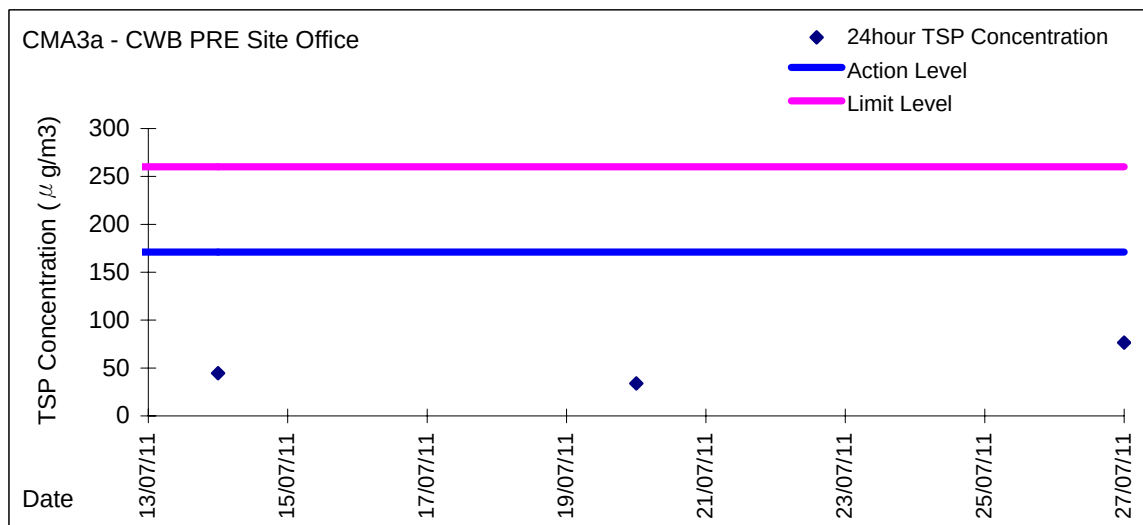
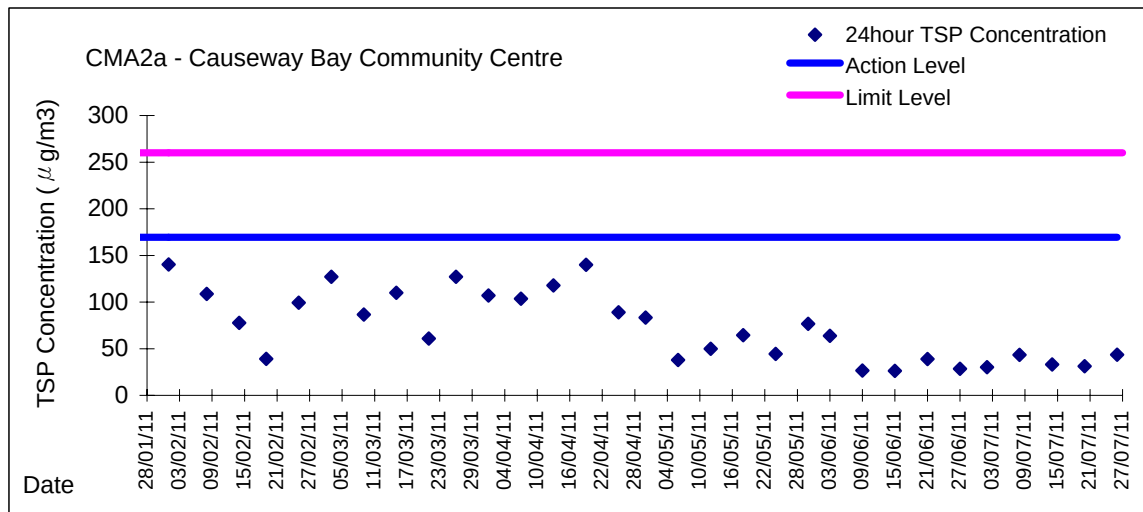
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

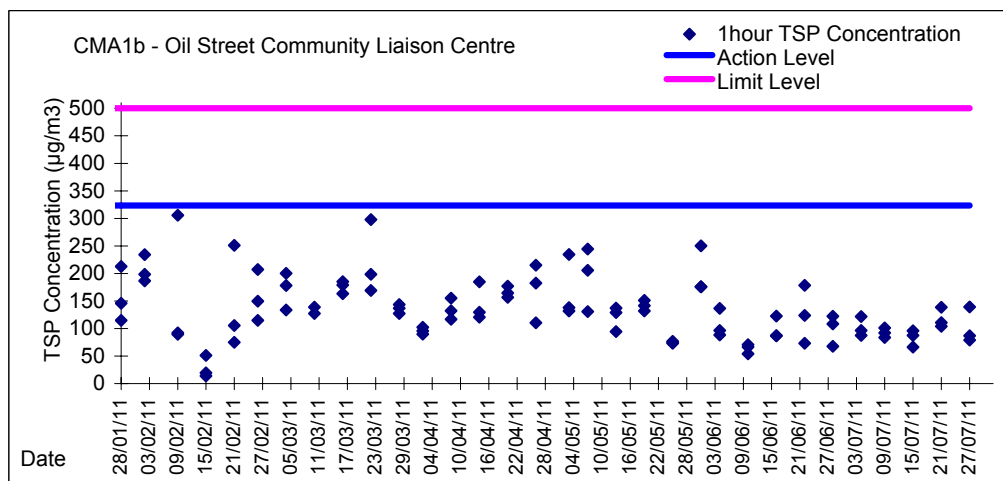
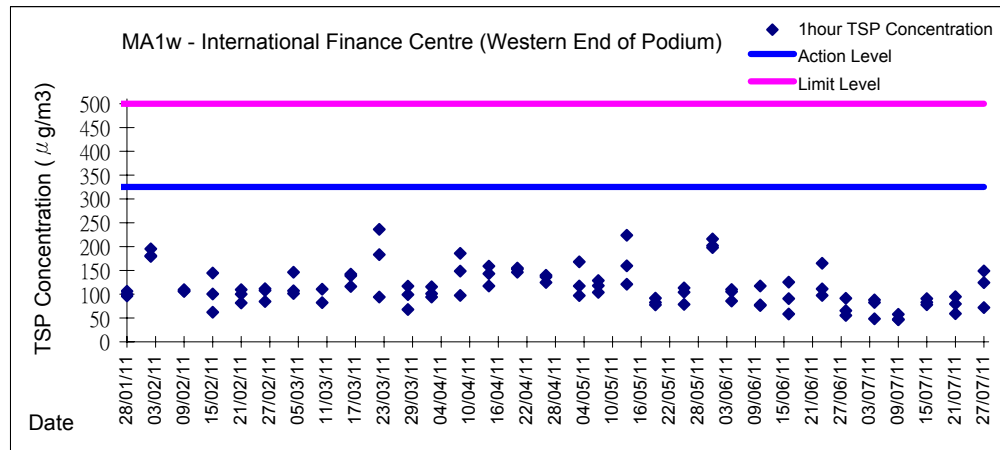
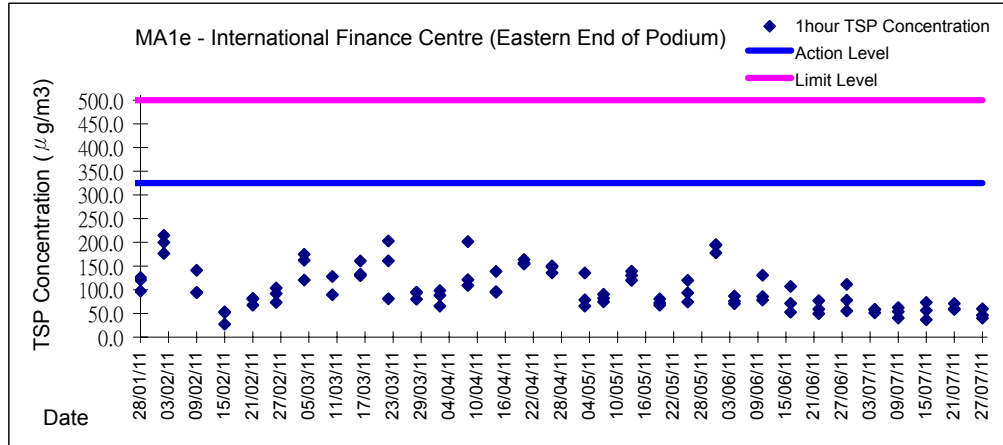
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jun-11	08:39	Cloudy	000796	2.7944	2.8033	7077.59	7078.59	1.00	1.33	1.33	1.33	80	111
28-Jun-11	09:48	Cloudy	000798	2.7830	2.7893	7078.59	7079.59	1.00	1.33	1.36	1.35	81	78
28-Jun-11	10:52	Cloudy	000800	2.7837	2.7882	7079.59	7080.59	1.00	1.36	1.36	1.36	81	55
04-Jul-11	08:04	Cloudy	000780	2.7891	2.7939	7104.59	7105.59	1.00	1.37	1.37	1.37	82	59
04-Jul-11	09:29	Cloudy	000781	2.7840	2.7882	7105.59	7106.59	1.00	1.37	1.37	1.37	82	51
04-Jul-11	10:33	Cloudy	000783	2.7915	2.7963	7106.59	7107.59	1.00	1.37	1.37	1.37	82	59
09-Jul-11	08:36	Sunny	000774	2.7863	2.7896	7131.59	7132.59	1.00	1.36	1.36	1.36	82	41
09-Jul-11	09:40	Sunny	000776	2.7979	2.8030	7132.59	7133.59	1.00	1.36	1.36	1.36	82	63
09-Jul-11	10:44	Sunny	000770	2.7879	2.7923	7133.59	7134.59	1.00	1.36	1.36	1.36	82	54
15-Jul-11	08:54	Cloudy	000920	2.8199	2.8229	7158.59	7159.59	1.00	1.36	1.36	1.36	82	37
15-Jul-11	10:28	Cloudy	000765	2.7598	2.7644	7159.59	7160.59	1.00	1.36	1.36	1.36	82	56
15-Jul-11	13:00	Cloudy	000919	2.8376	2.8436	7160.59	7161.59	1.00	1.36	1.36	1.36	82	73
21-Jul-11	08:33	Fine	000917	2.8205	2.8263	7185.59	7186.59	1.00	1.36	1.36	1.36	82	71
21-Jul-11	09:38	Fine	000915	2.8270	2.8318	7186.59	7187.59	1.00	1.36	1.36	1.36	82	59
21-Jul-11	11:00	Fine	000913	2.8455	2.8504	7187.59	7188.59	1.00	1.36	1.36	1.36	82	60
27-Jul-11	08:35	Sunny	000907	2.8355	2.8388	7212.60	7213.60	1.00	1.37	1.36	1.37	82	40
27-Jul-11	09:43	Sunny	000905	2.8429	2.8467	7213.60	7214.60	1.00	1.36	1.36	1.36	82	46
27-Jul-11	10:48	Sunny	000879	2.8267	2.8316	7214.60	7215.60	1.00	1.36	1.36	1.36	82	60

Graphic Presentation of 24 hour TSP Result

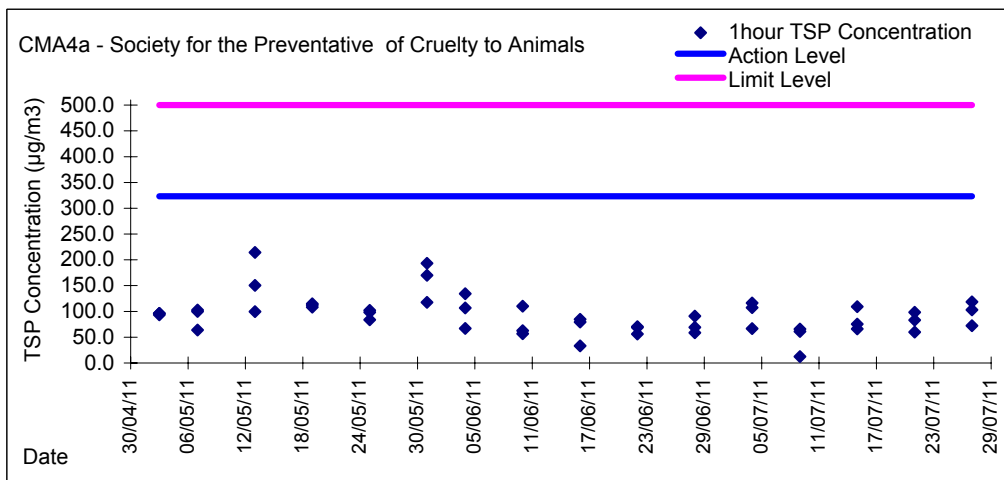
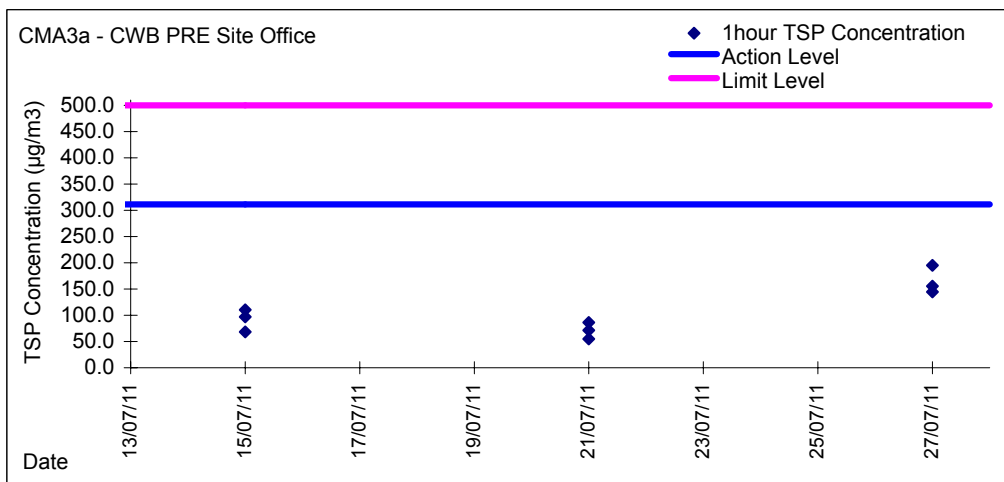
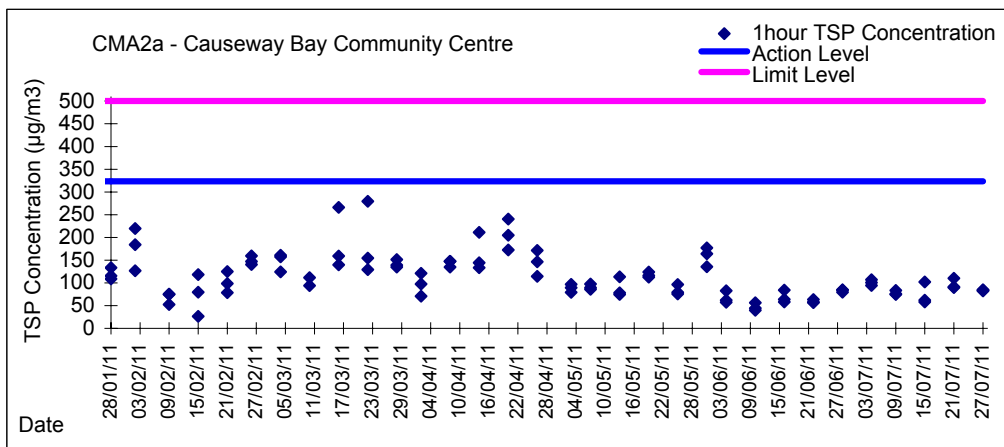


Graphical Presentation of 24 hour TSP Result



Graphic Presentation of 1 hour TSP Result


Graphic Presentation of 1 hour TSP Result





Appendix 5.4

Real Time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

Normal Day 07:00-19:00

28/06/2011 07:01 63.0
28/06/2011 07:31 63.5
28/06/2011 08:01 63.5
28/06/2011 08:31 64.0
28/06/2011 09:01 64.4
28/06/2011 09:31 64.2
28/06/2011 10:01 64.7
28/06/2011 10:31 65.7
28/06/2011 11:01 64.9
28/06/2011 11:31 64.4
28/06/2011 12:01 63.8
28/06/2011 12:31 64.0
28/06/2011 13:01 64.7
28/06/2011 13:31 65.3
28/06/2011 14:01 64.9
28/06/2011 14:31 64.3
28/06/2011 15:01 64.0
28/06/2011 15:31 66.5
28/06/2011 16:01 69.1
28/06/2011 16:31 72.8
28/06/2011 17:01 69.6
28/06/2011 17:31 67.9
28/06/2011 18:01 65.8
28/06/2011 18:31 64.6
29/06/2011 07:01 64.6
29/06/2011 07:31 67.2
29/06/2011 08:01 67.2
29/06/2011 08:31 66.2
29/06/2011 09:01 67.4
29/06/2011 09:31 66.8
29/06/2011 10:01 67.4
29/06/2011 10:31 70.5
29/06/2011 11:01 71.2
29/06/2011 11:31 69.2
29/06/2011 12:01 64.8
29/06/2011 12:31 66.3
29/06/2011 13:01 69.2
29/06/2011 13:31 71.0
29/06/2011 14:01 71.4
29/06/2011 14:31 69.6
29/06/2011 15:01 67.8
29/06/2011 15:31 71.6
29/06/2011 16:01 71.1
29/06/2011 16:31 68.3
29/06/2011 17:01 70.3
29/06/2011 17:31 65.3
29/06/2011 18:01 65.2
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29/06/2011 17:31 65.3
29/06/2011 18:01 65.2
29/06/2011 18:31 64.8
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30/06/2011 08:01 66.7
30/06/2011 08:31 67.1
30/06/2011 09:01 68.3
30/06/2011 09:31 71.1
30/06/2011 10:01 72.4
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02/07/2011 08:01 65.8
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02/07/2011 09:01 67.9
02/07/2011 09:31 60.5
02/07/2011 10:01 68.2
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04/07/2011 10:31 66.4
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04/07/2011 12:01 66.3
04/07/2011 12:31 66.5
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23/07/2011 07:01 64.

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

28/06/2011 21:41 64.7	30/06/2011 22:51 64.0	01/07/2011 16:01 62.7	02/07/2011 21:11 63.6	03/07/2011 14:21 63.9	04/07/2011 19:31 62.3
28/06/2011 21:46 64.4	30/06/2011 22:56 64.9	01/07/2011 16:06 63.1	02/07/2011 21:16 63.2	03/07/2011 14:26 64.4	04/07/2011 19:36 62.2
28/06/2011 21:51 65.4	01/07/2011 07:01 62.7	01/07/2011 16:11 63.3	02/07/2011 21:21 63.3	03/07/2011 14:31 64.1	04/07/2011 19:41 61.8
28/06/2011 21:56 64.8	01/07/2011 07:06 63.1	01/07/2011 16:16 63.8	02/07/2011 21:26 63.8	03/07/2011 14:36 63.2	04/07/2011 19:46 61.7
28/06/2011 22:01 64.7	01/07/2011 07:11 63.2	01/07/2011 16:21 64.0	02/07/2011 21:31 62.9	03/07/2011 14:41 63.9	04/07/2011 19:51 61.5
28/06/2011 22:06 64.2	01/07/2011 07:16 63.4	01/07/2011 16:26 64.1	02/07/2011 21:36 63.6	03/07/2011 14:46 63.8	04/07/2011 19:56 61.3
28/06/2011 22:11 65.2	01/07/2011 07:21 63.0	01/07/2011 16:31 64.3	02/07/2011 21:41 63.1	03/07/2011 14:51 64.1	04/07/2011 20:01 62.1
28/06/2011 22:16 64.5	01/07/2011 07:26 63.8	01/07/2011 16:36 64.4	02/07/2011 21:46 63.4	03/07/2011 14:56 63.4	04/07/2011 20:06 61.6
28/06/2011 22:21 64.9	01/07/2011 07:31 63.2	01/07/2011 16:41 64.3	02/07/2011 21:51 63.3	03/07/2011 15:01 63.7	04/07/2011 20:11 62.0
28/06/2011 22:26 63.9	01/07/2011 07:36 63.4	01/07/2011 16:46 64.1	02/07/2011 21:56 63.1	03/07/2011 15:06 64.3	04/07/2011 20:16 61.8
28/06/2011 22:31 64.3	01/07/2011 07:41 63.5	01/07/2011 16:51 63.9	02/07/2011 22:01 63.6	03/07/2011 15:11 63.5	04/07/2011 20:21 62.1
28/06/2011 22:36 64.7	01/07/2011 07:46 63.5	01/07/2011 16:56 64.2	02/07/2011 22:06 63.7	03/07/2011 15:16 64.2	04/07/2011 20:26 62.4
28/06/2011 22:41 63.4	01/07/2011 07:51 64.1	01/07/2011 17:01 63.3	02/07/2011 22:11 64.1	03/07/2011 15:21 63.3	04/07/2011 20:31 61.6
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29/06/2011 22:26 64.1	01/07/2011 11:36 64.9	01/07/2011 20:46 63.6	03/07/2011 09:56 64.5	03/07/2011 19:06 64.0	05/07/2011 20:16 64.0
29/06/2011 22:31 64.0	01/07/2011 11:41 64.8	01/07/2011 20:51 63.5	03/07/2011 10:01 64.0	03/07/2011 19:11 63.9	05/07/2011 20:21 65.7
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30/06/2011 19:21 63.1	01/07/2011 12:31 64.5	01/07/2011 21:41 63.6	03/07/2011 10:51 64.3	03/07/2011 20:01 63.8	05/07/2011 21:11 63.8
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30/06/2011 19:31 63.5	01/07/2011 12:41 65.0	01/07/2011 21:51 64.1	03/07/2011 11:01 64.9	03/07/2011 20:11 63.6	05/07/2011 21:21 63.8
30/06/2011 19:36 64.7	01/07/2011 12:46 65.3	01/07/2011 21:56 63.8	03/07/2011 11:06 63.7	03/07/2011 20:16 63.7	05/07/2011 21:26 63.6
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30/06/2011 19:46 64.0	01/07/2011 12:56 64.9	01/07/2011 22:06 63.9	03/07/2011 11:16 64.0	03/07/2011 20:26 63.6	05/07/2011 21:36 63.5
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30/06/2011 19:56 63.6	01/07/2011 13:06 64.1	01/07/2011 22:16 63.8	03/07/2011 11:26 63.0	03/07/2011 20:36 63.3	05/07/2011 21:46 63.7
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

06/07/2011 20:41 62.2	08/07/2011 21:51 63.8	10/07/2011 11:01 62.0	10/07/2011 20:11 62.5	12/07/2011 21:21 64.2	14/07/2011 22:31 64.4
06/07/2011 20:46 62.5	08/07/2011 21:56 64.2	10/07/2011 11:06 62.5	10/07/2011 20:16 63.0	12/07/2011 21:26 66.0	14/07/2011 22:36 64.0
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07/07/2011 20:21 64.9	09/07/2011 21:31 63.3	10/07/2011 14:41 63.2	11/07/2011 19:51 65.0	13/07/2011 21:01 63.9	15/07/2011 22:11 64.1
07/07/2011 20:26 64.5	09/07/2011 21:36 62.2	10/07/2011 14:46 63.8	11/07/2011 19:56 64.0	13/07/2011 21:06 64.2	15/07/2011 22:16 63.9
07/07/2011 20:31 65.1	09/07/2011 21:41 62.3	10/07/2011 14:51 62.3	11/07/2011 20:01 64.4	13/07/2011 21:11 65.2	15/07/2011 22:21 64.3
07/07/2011 20:36 64.3	09/07/2011 21:46 62.4	10/07/2011 14:56 63.0	11/07/2011 20:06 64.4	13/07/2011 21:16 64.0	15/07/2011 22:26 64.6
07/07/2011 20:41 64.1	09/07/2011 21:51 63.2	10/07/2011 15:01 62.8	11/07/2011 20:11 64.8	13/07/2011 21:21 64.3	15/07/2011 22:31 63.9
07/07/2011 20:46 64.0	09/07/2011 21:56 63.3	10/07/2011 15:06 63.5	11/07/2011 20:16 64.7	13/07/2011 21:26 64.7	15/07/2011 22:36 63.8
07/07/2011 20:51 65.1	09/07/2011 22:01 63.0	10/07/2011 15:11 63.1	11/07/2011 20:21 64.3	13/07/2011 21:31 64.2	15/07/2011 22:41 63.0
07/07/2011 20:56 64.6	09/07/2011 22:06 63.8	10/07/2011 15:16 62.6	11/07/2011 20:26 64.4	13/07/2011 21:36 64.3	15/07/2011 22:46 63.4
07/07/2011 21:01 64.8	09/07/2011 22:11 63.5	10/07/2011 15:21 63.2	11/07/2011 20:31 64.4	13/07/2011 21:41 65.0	15/07/2011 22:51 63.2
07/07/2011 21:06 64.0	09/07/2011 22:16 62.8	10/07/2011 15:26 63.0	11/07/2011 20:36 64.6	13/07/2011 21:46 65.5	15/07/2011 22:56 63.5
07/07/2011 21:11 64.4	09/07/2011 22:21 62.5	10/07/2011 15:31 65.0	11/07/2011 20:41 64.5	13/07/2011 21:51 64.7	16/07/2011 19:01 64.1
07/07/2011 21:16 64.3	09/07/2011 22:26 62.7	10/07/2011 15:36 63.3	11/07/2011 20:46 64.2	13/07/2011 21:56 64.1	16/07/2011 19:06 64.1
07/07/2011 21:21 64.9	09/07/2011 22:31 62.9	10/07/2011 15:41 63.5	11/07/2011 20:51 64.0	13/07/2011 22:01 64.6	16/07/2011 19:11 63.2
07/07/2011 21:26 64.3	09/07/2011 22:36 62.2	10/07/2011 15:46 63.0	11/07/2011 20:56 64.1	13/07/2011 22:06 63.9	16/07/2011 19:16 63.9
07/07/2011 21:31 64.4	09/07/2011 22:41 62.1	10/07/2011 15:51 63.8	11/07/2011 21:01 64.4	13/07/2011 22:11 64.2	16/07/2011 19:21 64.6
07/07/2011 21:36 64.4	09/07/2011 22:46 62.8	10/07/2011 15:56 63.4	11/07/2011 21:06 64.1	13/07/2011 22:16 64.3	16/07/2011 19:26 65.1
07/07/2011 21:41 64.0	09/07/2011 22:51 62.2	10/07/2011 16:01 64.4	11/07/2011 21:11 64.3	13/07/2011 22:21 64.5	16/07/2011 19:31 64.9
07/07/2011 21:46 64.5	09/07/2011 22:56 62.3	10/07/2011 16:06 62.8	11/07/2011 21:16 63.9	13/07/2011 22:26 65.5	16/07/2011 19:36 64.9
07/07/2011 21:51 66.0	10/07/2011 07:01 61.6	10/07/2011 16:11 62.9	11/07/2011 21:21 64.0	13/07/2011 22:31 64.1	16/07/2011 19:41 64.7
07/07/2011 21:56 64.4	10/07/2011 07:06 61.2	10/07/2011 16:16 63.4	11/07/2011 21:26 64.4	13/07/2011 22:36 64.8	16/07/2011 19:46 64.7
07/07/2011 22:01 64.7	10/07/2011 07:11 61.3	10/07/2011 16:21 62.8	11/07/2011 21:31 63.3	13/07/2011 22:41 64.5	16/07/2011 19:51 64.4
07/07/2011 22:06 63.9	10/07/2011 07:16 61.8	10/07/2011 16:26 63.2	11/07/2011 21:36 63.8	13/07/2011 22:46 64.2	16/07/2011 19:56 64.4
07/07/2011 22:11 63.9	10/07/2011 07:21 62.0	10/07/2011 16:31 63.6	11/07/2011 21:41 64.2	13/07/2011 22:51 64.0	16/07/2011 20:01 64.4
07/07/2011 22:16 64.4	10/07/2011 07:26 60.8	10/07/2011 16:36 63.4	11/07/2011 21:46 64.8	13/07/2011 22:56 64.8	16/07/2011 20:06 64.0
07/07/2011 22:21 63.9	10/07/2011 07:31 62.7	10/07/2011 16:41 65.1	11/07/2011 21:51 63.9	14/07/2011 19:01 65.0	16/07/2011 20:11 64.0
07/07/2011 22:26 63.9	10/07/2011 07:36 61.7	10/07/2011 16:46 63.5	11/07/2011 21:56 63.2	14/07/2011 19:06 66.8	16/07/2011 20:16 64.2
07/07/2011 22:31 64.2	10/07/2011 07:41 64.8	10/07/2011 16:51 62.8	11/07/2011 22:01 63.8	14/07/2011 19:11 66.2	16/07/2011 20:21 64.1
07/07/2011 22:36 63.7	10/07/2011 07:46 62.6	10/07/2011 16:56 63.2	11/07/2011 22:06 63.5	14/07/2011 19:16 64.9	16/07/2011 20:26 64.0
07/07/2011 22:41 64.0	10/07/2011 07:51 62.7	10/07/2011 17:01 62.9	11/07/2011 22:11 63.9	14/07/2011 19:21 65.3	16/07/2011 20:31 63.9
07/07/2011 22:46 64.4	10/07/2011 07:56 62.4	10/07/2011 17:06 63.6	11/07/2011 22:16 63.5	14/07/2011 19:26 66.0	16/07/2011 20:36 63.6
07/07/2011 22:51 64.0	10/07/2011 08:01 62.0	10/07/2011 17:11 63.3	11/07/2011 22:21 64.0	14/07/2011 19:31 65.4	16/07/2011 20:41 63.6
07/07/2011 22:56 65.1	10/07/2011 08:06 62.3	10/07/2011 17:16 63.0	11/07/2011 22:26 64.0	14/07/2011 19:36 63.9	16/07/2011 20:46 65.0
08/07/2011 19:01 63.5	10/07/2011 08:11 61.9	10/07/2011 17:21 62.8	11/07/2011 22:31 63.5	14/07/2011 19:41 65.1	16/07/2011 20:51 63

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

17/07/2011 07:41 63.5	17/07/2011 16:51 64.4	18/07/2011 22:01 63.3	21/07/2011 19:11 65.9	23/07/2011 20:21 64.1	24/07/2011 13:31 64.3
17/07/2011 07:46 68.6	17/07/2011 16:56 64.4	18/07/2011 22:06 63.5	21/07/2011 19:16 66.0	23/07/2011 20:26 64.3	24/07/2011 13:36 64.2
17/07/2011 07:51 66.7	17/07/2011 17:01 64.6	18/07/2011 22:11 64.9	21/07/2011 19:21 65.1	23/07/2011 20:31 63.6	24/07/2011 13:41 64.4
17/07/2011 07:56 65.6	17/07/2011 17:06 63.9	18/07/2011 22:16 63.3	21/07/2011 19:26 64.9	23/07/2011 20:36 63.5	24/07/2011 13:46 64.3
17/07/2011 08:01 65.2	17/07/2011 17:11 64.0	18/07/2011 22:21 65.7	21/07/2011 19:31 64.7	23/07/2011 20:41 63.6	24/07/2011 13:51 64.1
17/07/2011 08:06 64.8	17/07/2011 17:16 63.8	18/07/2011 22:26 63.9	21/07/2011 19:36 65.1	23/07/2011 20:46 63.6	24/07/2011 13:56 64.4
17/07/2011 08:11 64.6	17/07/2011 17:21 64.0	18/07/2011 22:31 64.3	21/07/2011 19:41 65.6	23/07/2011 20:51 63.6	24/07/2011 14:01 63.7
17/07/2011 08:16 65.1	17/07/2011 17:26 64.2	18/07/2011 22:36 62.9	21/07/2011 19:46 64.8	23/07/2011 20:56 63.3	24/07/2011 14:06 64.1
17/07/2011 08:21 65.1	17/07/2011 17:31 64.3	18/07/2011 22:41 63.5	21/07/2011 19:51 65.1	23/07/2011 21:01 63.3	24/07/2011 14:11 64.1
17/07/2011 08:26 64.9	17/07/2011 17:36 64.0	18/07/2011 22:46 63.1	21/07/2011 19:56 66.5	23/07/2011 21:06 63.8	24/07/2011 14:16 64.0
17/07/2011 08:31 64.2	17/07/2011 17:41 64.5	18/07/2011 22:51 62.7	21/07/2011 20:01 65.4	23/07/2011 21:11 63.8	24/07/2011 14:21 64.1
17/07/2011 08:36 63.8	17/07/2011 17:46 65.2	18/07/2011 22:56 62.6	21/07/2011 20:06 65.5	23/07/2011 21:16 63.2	24/07/2011 14:26 64.2
17/07/2011 08:41 64.2	17/07/2011 17:51 64.8	19/07/2011 19:01 64.1	21/07/2011 20:11 64.8	23/07/2011 21:21 63.4	24/07/2011 14:31 64.9
17/07/2011 08:46 64.4	17/07/2011 17:56 64.6	19/07/2011 19:06 64.0	21/07/2011 20:16 65.5	23/07/2011 21:26 62.9	24/07/2011 14:36 63.9
17/07/2011 08:51 64.4	17/07/2011 18:01 64.8	19/07/2011 19:11 63.1	21/07/2011 20:21 65.0	23/07/2011 21:31 64.0	24/07/2011 14:41 64.1
17/07/2011 08:56 64.0	17/07/2011 18:06 64.7	19/07/2011 19:16 62.3	21/07/2011 20:26 65.2	23/07/2011 21:36 63.2	24/07/2011 14:46 64.0
17/07/2011 09:01 64.0	17/07/2011 18:11 65.0	19/07/2011 19:21 61.1	21/07/2011 20:31 65.2	23/07/2011 21:41 62.8	24/07/2011 14:51 64.1
17/07/2011 09:06 63.9	17/07/2011 18:16 64.8	19/07/2011 19:26 61.8	21/07/2011 20:36 64.6	23/07/2011 21:46 63.8	24/07/2011 14:56 64.5
17/07/2011 09:11 64.3	17/07/2011 18:21 65.1	19/07/2011 19:31 62.3	21/07/2011 20:41 64.9	23/07/2011 21:51 63.5	24/07/2011 15:01 63.8
17/07/2011 09:16 65.1	17/07/2011 18:26 64.9	19/07/2011 19:36 62.2	21/07/2011 20:46 64.0	23/07/2011 21:56 63.4	24/07/2011 15:06 64.5
17/07/2011 09:21 65.1	17/07/2011 18:31 64.7	19/07/2011 19:41 61.2	21/07/2011 20:51 64.4	23/07/2011 22:01 63.6	24/07/2011 15:11 64.1
17/07/2011 09:26 65.6	17/07/2011 18:36 64.6	19/07/2011 19:46 61.3	21/07/2011 20:56 64.2	23/07/2011 22:06 63.5	24/07/2011 15:16 64.5
17/07/2011 09:31 65.7	17/07/2011 18:41 65.0	19/07/2011 19:51 61.3	21/07/2011 21:01 63.6	23/07/2011 22:11 63.4	24/07/2011 15:21 64.5
17/07/2011 09:36 65.4	17/07/2011 18:46 65.5	19/07/2011 19:56 61.0	21/07/2011 21:06 64.5	23/07/2011 22:16 63.4	24/07/2011 15:26 63.7
17/07/2011 09:41 65.1	17/07/2011 18:51 65.0	19/07/2011 20:01 61.1	21/07/2011 21:11 64.0	23/07/2011 22:21 63.6	24/07/2011 15:31 64.6
17/07/2011 09:46 65.4	17/07/2011 18:56 65.0	19/07/2011 20:06 62.9	21/07/2011 21:16 64.2	23/07/2011 22:26 63.3	24/07/2011 15:36 64.5
17/07/2011 09:51 66.7	17/07/2011 19:01 65.5	19/07/2011 20:11 63.1	21/07/2011 21:21 64.6	23/07/2011 22:31 63.1	24/07/2011 15:41 64.2
17/07/2011 09:56 66.0	17/07/2011 19:06 64.8	19/07/2011 20:16 63.8	21/07/2011 21:26 64.5	23/07/2011 22:36 63.6	24/07/2011 15:46 63.9
17/07/2011 10:01 66.0	17/07/2011 19:11 65.3	19/07/2011 20:21 63.6	21/07/2011 21:31 64.0	23/07/2011 22:41 63.6	24/07/2011 15:51 63.8
17/07/2011 10:06 66.5	17/07/2011 19:16 65.3	19/07/2011 20:26 64.1	21/07/2011 21:36 64.9	23/07/2011 22:46 63.7	24/07/2011 15:56 64.1
17/07/2011 10:11 66.2	17/07/2011 19:21 63.9	19/07/2011 20:31 64.3	21/07/2011 21:41 64.9	23/07/2011 22:51 63.4	24/07/2011 16:01 64.5
17/07/2011 10:16 66.3	17/07/2011 19:26 64.4	19/07/2011 20:36 64.4	21/07/2011 21:46 63.9	23/07/2011 22:56 64.4	24/07/2011 16:06 64.5
17/07/2011 10:21 66.1	17/07/2011 19:31 64.0	19/07/2011 20:41 64.1	21/07/2011 21:51 64.5	24/07/2011 07:01 62.2	24/07/2011 16:11 65.2
17/07/2011 10:26 65.4	17/07/2011 19:36 63.6	19/07/2011 20:46 64.3	21/07/2011 21:56 64.2	24/07/2011 07:06 65.6	24/07/2011 16:16 63.6
17/07/2011 10:31 66.2	17/07/2011 19:41 64.0	19/07/2011 20:51 64.5	21/07/2011 22:01 64.3	24/07/2011 07:11 62.6	24/07/2011 16:21 64.8
17/07/2011 10:36 66.1	17/07/2011 19:46 64.7	19/07/2011 20:56 64.7	21/07/2011 22:06 64.4	24/07/2011 07:16 62.6	24/07/2011 16:26 63.8
17/07/2011 10:41 66.4	17/07/2011 19:51 63.5	19/07/2011 21:01 64.4	21/07/2011 22:11 63.6	24/07/2011 07:21 62.2	24/07/2011 16:31 64.1
17/07/2011 10:46 65.9	17/07/2011 19:56 64.0	19/07/2011 21:06 64.3	21/07/2011 22:16 64.4	24/07/2011 07:26 63.5	24/07/2011 16:36 64.5
17/07/2011 10:51 66.5	17/07/2011 20:01 63.9	19/07/2011 21:11 64.2	21/07/2011 22:21 63.8	24/07/2011 07:31 62.4	24/07/2011 16:41 64.0
17/07/2011 10:56 67.6	17/07/2011 20:06 63.5	19/07/2011 21:16 64.1	21/07/2011 22:26 63.6	24/07/2011 07:36 62.2	24/07/2011 16:46 64.1
17/07/2011 11:01 67.2	17/07/2011 20:11 63.6	19/07/2011 21:21 64.3	21/07/2011 22:31 64.3	24/07/2011 07:41 63.0	24/07/2011 16:51 64.0
17/07/2011 11:06 66.6	17/07/2011 20:16 63.5	19/07/2011 21:26 64.3	21/07/2011 22:36 64.5	24/07/2011 07:46 63.3	24/07/2011 16:56 64.1
17/07/2011 11:11 66.1	17/07/2011 20:21 63.6	19/07/2011 21:31 64.6	21/07/2011 22:41 64.1	24/07/2011 07:51 62.9	24/07/2011 17:01 64.7
17/07/2011 11:16 65.6	17/07/2011 20:26 63.9	19/07/2011 21:36 63.8	21/07/2011 22:46 64.8	24/07/2011 07:56 63.5	24/07/2011 17:06 64.2
17/07/2011 11:21 64.9	17/07/2011 20:31 63.7	19/07/2011 21:41 64.1	21/07/2011 22:51 63.7	24/07/2011 08:01 63.4	24/07/2011 17:11 64.2
17/07/2011 11:26 66.1	17/07/2011 20:36 63.8	19/07/2011 21:46 64.2	21/07/2011 22:56 64.2	24/07/2011 08:06 63.9	24/07/2011 17:16 65.2
17/07/2011 11:31 65.6	17/07/2011 20:41 63.8	19/07/2011 21:51 63.8	22/07/2011 09:01 63.5	24/07/2011 08:11 63.5	24/07/2011 17:21 64.0
17/07/2011 11:36 65.7	17/07/2011 20:46 63.1	19/07/2011 21:56 64.2	22/07/2011 19:06 62.8	24/07/2011 08:16 63.6	24/07/2011 17:26 64.4
17/07/2011 11:41 63.9	17/07/2011 20:51 63.0	19/07/2011 22:01 64.4	22/07/2011 19:11 61.7	24/07/2011 08:21 64.1	24/07/2011 17:31 64.1
17/07/2011 11:46 64.9	17/07/2011 20:56 62.9	19/07/2011 22:06 63.6	22/07/2011 19:16 62.3	24/07/2011 08:26 63.4	24/07/2011 17:36 63.7
17/07/2011 11:51 65.0	17/07/2011 21:01 63.6	19/07/2011 22:11 63.6	22/07/2011 19:21 62.2	24/07/2011 08:31 63.3	24/07/2011 17:41 64.5
17/07/2011 11:56 65.1	17/07/2011 21:06 63.1	19/07/2011 22:16 64.2	22/07/2011 19:26 62.6	24/07/2011 08:36 63.8	24/07/2011 17:46 65.0
17/07/2011 12:01 66.9	17/07/2011 21:11 63.1	19/07/2011 22:21 63.9	22/07/2011 19:31 62.2	24/07/2011 08:41 64.0	24/07/2011 17:51 64.6
17/07/2011 12:06 68.0	17/07/2011 21:16 63.9	19/07/2011 22:26 63.9	22/07/2011 19:36 61.7	24/07/2011 08:46 65.1	24/07/2011 17:56 64.3
17/07/2011 12:11 67.3	17/07/2011 21:21 63.7	19/07/2011 22:31 63.9	22/07/2011 19:41 62.2	24/07/2011 08:51 63.8	24/07/2011 18:01 64.7
17/07/2011 12:16 66.9	17/07/2011 21:26 63.6	19/07/2011 22:36 63.3	22/07/2011 19:46 62.9	24/07/2011 08:56 64.5	24/07/2011 18:06 64.2
17/07/2011 12:21 66.4	17/07/2011 21:31 63.8	19/07/2011 22:41 64.3	22/07/2011 19:51 63.0	24/07/2011 09:01 64.0	24/07/2011 18:11 64.4
17/07/2011 12:26 67.0	17/07/2011 21:36 63.2	19/07/2011 22:46 63.7	22/07/2011 19:56 63.3	24/07/2011 09:06 63.6	24/07/2011 18:16 64.8
17/07/2011 12:31 66.4	17/07/2011 21:41 63.5	19/07/2011 22:51 63.3	22/07/2011 20:01 65.3	24/07/2011 09:11 64.7	24/07/2011 18:21 64.8
17/07/2011 12:36 65.7	17/07/2011 21:46 63.5	19/07/2011 22:56 63.5	22/07/2011 20:06 63.3	24/07/2011 09:16 64.6	24/07/2011 18:26 64.1
17/07/2011 12:41 65.4	17/07/2011 21:51 63.9	20/07/2011 19:01 65.1	22/07/2011 20:11 63.4	24/07/2011 09:21 64.6	24/07/2011 18:31 65.2
17/07/2011 12:46 65.2	17/07/2011 21:56 63.4	20/07/2011 19:06 65.3	22/07/2011 20:16 63.9	24/07/2011 09:26 63.8	24/07/2011 18:36 63.6
17/07/2011 12:51 65.9	17/07/2011 22:01 63.5	20/07/2011 19:11 65.7	22/07/2011 20:21 63.3	24/07/2011 09:31 64.6	24/07/2011 18:41 64.7
17/07/2011 12:56 65.4	17/07/2011 22:06 63.7	20/07/2011 19:16 65.5	22/07/2011 20:26 63.8	24/07/2011 09:36 63.9	24/07/2011 18:46 64.4
17/07/2011 13:01 65.2	17/07/2011 22:11 63.6	20/07/2011 19:21 64.5	22/07/2011 20:31 64.1	24/07/2011 09:41 64.2	24/07/2011 18:51 64.1
17/07/2011 13:06 65.1	17/07/2011 22:16 63.6	20/07/2011 19:26 64.9	22/07/2011 20:36 64.8	24/07/2011 09:46 65.0	24/07/2011 18:56 63.9
17/07/2011 13:11 65.3	17/07/2011 22:21 63.9	20/07/2011 19:31 64.5	22/07/2011 20:41 64.8	24/07/2011 09:51 65.2	24/07/2011 19:01 64.2
17/07/2011 13:16 65.4	17/07/2011 22:26 64.3	20/07/2011 19:36 64.5	22/07/2011 20:46 64.6	24/07/2011 09:56 64.3	24/07/2011 19:06 64.4
17/07/2011 13:21 64.6	17/07/2011 22:31 63.2	20/07/2011 19:41 64.7	22/07/2011 20:51 64.5	24/07/2011 10:01 64.9	24/07/2011 19:11 64.1
17/07/2011 13:26 64.9	17/07/2011 22:36 63.0	20/07/2011 19:46 64.4	22/07/2011 20:56 64.4	24/07/2011 10:06 64.4	24/07/2011 19:16 63.8
17/07/2011 13:31 65.0	17/07/2011 22:41 63.7	20/07/2011 19:51 64.6	22/07/2011 21:01 64.5	24/07/2011 10:11 64.1	24/07/2011 19:21 64.4
17/07/2011 13:36 64.2	17/07/2011 22:46 63.6	20/07/2011 19:56 64.5	22/07/2011 21:06 64.1	24/07/2011 10:16 64.7	24/07/2011 19:26 63.2
17/07/2011 13:41 63.8	17/07/2011 22:51 63.5	20/07/2011 20:01 64.5	22/07/2011 21:11 64.5	24/07/2011 10:21 64.1	24/07/2011 19:31 63.5
17/07/2011 13:46 63.7	17/07/2011 22:56 63.9	20/07/2011 20:06 64.9	22/07/2011 21:16 64.1	24/07/2011 10:26 63.9	24/07/2011 19:36 63.6
17/07/2011 13:51 63.7	18/07/2011 19:01 65.1	20/07/2011 20:11 64.5	22/07/2011 21:21 64.3	24/07/2011 10:31 64.3	24/07/2011 19:41 63.5
17/07/2011 13:56 63.4	18/07/2011 19:06 65.3	20/07/2011 20:16 64.6	22/07/2011 21:26 64.8	24/07/2011 10:36 64.5	24/07/2011 19:46 63.8
17/07/2011 14:01 63.5	18/07/2011 19:11 64.6	20/07/2011			

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

24/07/2011 22:41 63.8	27/07/2011 19:51 65.7	28/06/2011 05:51 61.8	29/06/2011 23:01 62.2	01/07/2011 00:11 58.3	02/07/2011 01:21 61.3
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24/07/2011 22:51 62.8	27/07/2011 20:01 65.0	28/06/2011 06:01 60.7	29/06/2011 23:11 58.9	01/07/2011 00:21 59.5	02/07/2011 01:31 61.5
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26/07/2011 19:31 64.4	28/06/2011 01:31 61.1	29/06/2011 02:41 59.6	30/06/2011 03:51 59.3	01/07/2011 05:01 60.4	02/07/2011 06:11 61.4
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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10/07/2011 23:01 49.3	12/07/2011 00:11 54.2	13/07/2011 01:21 49.3	14/07/2011 02:31 59.9	15/07/2011 03:41 59.9	16/07/2011 04:51 59.7
10/07/2011 23:06 47.1	12/07/2011 00:16 54.8	13/07/2011 01:26 50.3	14/07/2011 02:36 61.1	15/07/2011 03:46 59.2	16/07/2011 04:56 60.7
10/07/2011 23:11 47.7	12/07/2011 00:21 56.5	13/07/2011 01:31 61.8	14/07/2011 02:41 59.6	15/07/2011 03:51 58.8	16/07/2011 05:01 60.1
10/07/2011 23:16 51.2	12/07/2011 00:26 54.1	13/07/2011 01:36 61.0	14/07/2011 02:46 59.5	15/07/2011 03:56 59.4	16/07/2011 05:06 60.8
10/07/2011 23:21 53.8	12/07/2011 00:31 54.8	13/07/2011 01:41 61.0	14/07/2011 02:51 60.1	15/07/2011 04:01 59.0	16/07/2011 05:11 60.7
10/07/2011 23:26 47.7	12/07/2011 00:36 49.5	13/07/2011 01:46 57.7	14/07/2011 02:56 58.9	15/07/2011 04:06 58.0	16/07/2011 05:16 60.2
10/07/2011 23:31 61.7	12/07/2011 00:41 60.6	13/07/2011 01:51 61.5	14/07/2011 03:01 58.8	15/07/2011 04:11 57.9	16/07/2011 05:21 59.9
10/07/2011 23:36 61.8	12/07/2011 00:46 61.5	13/07/2011 01:56 60.4	14/07/2011 03:06 58.9	15/07/2011 04:16 58.6	16/07/2011 05:26 59.3
10/07/2011 23:41 61.8	12/07/2011 00:51 61.1	13/07/2011 02:01 60.8	14/07/2011 03:11 58.5	15/07/2011 04:21 58.2	16/07/2011 05:31 59.8
10/07/2011 23:46 61.8	12/07/2011 00:56 61.8	13/07/2011 02:06 60.6	14/07/2011 03:16 58.7	15/07/2011 04:26 59.2	16/07/2011 05:36 60.2
10/07/2011 23:51 61.8	12/07/2011 01:01 60.6	13/07/2011 02:11 60.6	14/07/2011 03:21 57.8	15/07/2011 04:31 59.1	16/07/2011 05:41 60

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

17/07/2011 00:31 56.1	18/07/2011 01:41 60.0	19/07/2011 02:51 59.2	20/07/2011 04:01 59.1	21/07/2011 05:11 59.4	22/07/2011 06:21 45.6
17/07/2011 00:36 56.5	18/07/2011 01:46 60.7	19/07/2011 02:56 59.0	20/07/2011 04:06 58.7	21/07/2011 05:16 59.6	22/07/2011 06:26 47.9
17/07/2011 00:41 53.2	18/07/2011 01:51 60.2	19/07/2011 03:01 58.2	20/07/2011 04:11 59.2	21/07/2011 05:21 60.0	22/07/2011 06:31 40.3
17/07/2011 00:46 42.5	18/07/2011 01:56 58.9	19/07/2011 03:06 58.2	20/07/2011 04:16 58.9	21/07/2011 05:26 59.7	22/07/2011 06:36 55.8
17/07/2011 00:51 61.8	18/07/2011 02:01 59.1	19/07/2011 03:11 58.5	20/07/2011 04:21 59.1	21/07/2011 05:31 59.7	22/07/2011 06:41 55.3
17/07/2011 00:56 48.9	18/07/2011 02:06 59.4	19/07/2011 03:16 58.4	20/07/2011 04:26 59.0	21/07/2011 05:36 60.3	22/07/2011 06:46 59.2
17/07/2011 01:01 61.8	18/07/2011 02:11 59.6	19/07/2011 03:21 58.3	20/07/2011 04:31 58.5	21/07/2011 05:41 60.6	22/07/2011 06:51 55.7
17/07/2011 01:06 61.4	18/07/2011 02:16 59.7	19/07/2011 03:26 58.8	20/07/2011 04:36 58.3	21/07/2011 05:46 59.9	22/07/2011 06:56 60.2
17/07/2011 01:11 61.4	18/07/2011 02:21 59.3	19/07/2011 03:31 58.4	20/07/2011 04:41 58.2	21/07/2011 05:51 61.4	22/07/2011 23:01 60.6
17/07/2011 01:16 61.1	18/07/2011 02:26 60.4	19/07/2011 03:36 57.9	20/07/2011 04:46 58.6	21/07/2011 05:56 61.4	22/07/2011 23:06 59.3
17/07/2011 01:21 61.7	18/07/2011 02:31 59.0	19/07/2011 03:41 59.0	20/07/2011 04:51 59.4	21/07/2011 06:01 61.6	22/07/2011 23:11 58.9
17/07/2011 01:26 61.4	18/07/2011 02:36 59.6	19/07/2011 03:46 58.4	20/07/2011 04:56 59.4	21/07/2011 06:06 61.5	22/07/2011 23:16 58.6
17/07/2011 01:31 61.2	18/07/2011 02:41 58.7	19/07/2011 03:51 58.0	20/07/2011 05:01 59.5	21/07/2011 06:11 61.7	22/07/2011 23:21 59.0
17/07/2011 01:36 61.2	18/07/2011 02:46 58.7	19/07/2011 03:56 58.7	20/07/2011 05:06 61.5	21/07/2011 06:16 51.8	22/07/2011 23:26 59.3
17/07/2011 01:41 61.3	18/07/2011 02:51 60.5	19/07/2011 04:01 58.3	20/07/2011 05:11 61.2	21/07/2011 06:21 61.6	22/07/2011 23:31 60.0
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17/07/2011 01:51 61.5	18/07/2011 03:01 58.4	19/07/2011 04:11 58.4	20/07/2011 05:21 60.1	21/07/2011 06:31 61.8	22/07/2011 23:41 57.1
17/07/2011 01:56 60.9	18/07/2011 03:06 58.7	19/07/2011 04:16 58.6	20/07/2011 05:26 59.0	21/07/2011 06:36 56.4	22/07/2011 23:46 59.0
17/07/2011 02:01 61.3	18/07/2011 03:11 58.3	19/07/2011 04:21 58.4	20/07/2011 05:31 60.2	21/07/2011 06:41 58.0	22/07/2011 23:51 59.2
17/07/2011 02:06 61.0	18/07/2011 03:16 58.2	19/07/2011 04:26 57.6	20/07/2011 05:36 60.5	21/07/2011 06:46 59.6	22/07/2011 23:56 60.4
17/07/2011 02:11 61.0	18/07/2011 03:21 59.4	19/07/2011 04:31 58.4	20/07/2011 05:41 60.1	21/07/2011 06:51 60.4	23/07/2011 00:01 59.0
17/07/2011 02:16 61.2	18/07/2011 03:26 58.9	19/07/2011 04:36 59.2	20/07/2011 05:46 60.2	21/07/2011 06:56 60.7	23/07/2011 00:06 58.9
17/07/2011 02:21 60.3	18/07/2011 03:31 58.6	19/07/2011 04:41 58.8	20/07/2011 05:51 60.7	21/07/2011 23:01 58.8	23/07/2011 00:11 57.7
17/07/2011 02:26 61.2	18/07/2011 03:36 57.8	19/07/2011 04:46 58.5	20/07/2011 05:56 60.8	21/07/2011 23:06 59.5	23/07/2011 00:16 58.6
17/07/2011 02:31 61.1	18/07/2011 03:41 59.2	19/07/2011 04:51 58.0	20/07/2011 06:01 61.5	21/07/2011 23:11 60.0	23/07/2011 00:21 59.3
17/07/2011 02:36 61.1	18/07/2011 03:46 58.2	19/07/2011 04:56 59.1	20/07/2011 06:06 61.5	21/07/2011 23:16 58.0	23/07/2011 00:26 61.0
17/07/2011 02:41 60.2	18/07/2011 03:51 58.7	19/07/2011 05:01 61.3	20/07/2011 06:11 61.9	21/07/2011 23:21 59.5	23/07/2011 00:31 60.2
17/07/2011 02:46 60.2	18/07/2011 03:56 58.5	19/07/2011 05:06 59.5	20/07/2011 06:16 61.9	21/07/2011 23:26 59.1	23/07/2011 00:36 58.4
17/07/2011 02:51 60.6	18/07/2011 04:01 58.3	19/07/2011 05:11 59.5	20/07/2011 06:21 44.6	21/07/2011 23:31 59.0	23/07/2011 00:41 57.8
17/07/2011 02:56 60.6	18/07/2011 04:06 58.8	19/07/2011 05:16 59.3	20/07/2011 06:26 50.8	21/07/2011 23:36 58.7	23/07/2011 00:46 59.0
17/07/2011 03:01 60.3	18/07/2011 04:11 59.4	19/07/2011 05:21 60.5	20/07/2011 06:31 53.1	21/07/2011 23:41 60.7	23/07/2011 00:51 58.0
17/07/2011 03:06 60.7	18/07/2011 04:16 58.8	19/07/2011 05:26 60.1	20/07/2011 06:36 52.0	21/07/2011 23:46 59.4	23/07/2011 00:56 58.6
17/07/2011 03:11 60.5	18/07/2011 04:21 58.5	19/07/2011 05:31 60.0	20/07/2011 06:41 53.8	21/07/2011 23:51 58.6	23/07/2011 01:01 58.9
17/07/2011 03:16 61.1	18/07/2011 04:26 59.2	19/07/2011 05:36 60.5	20/07/2011 06:46 59.5	21/07/2011 23:56 58.2	23/07/2011 01:06 58.1
17/07/2011 03:21 60.2	18/07/2011 04:31 58.9	19/07/2011 05:41 60.2	20/07/2011 06:51 69.0	22/07/2011 00:01 57.9	23/07/2011 01:11 49.3
17/07/2011 03:26 60.0	18/07/2011 04:36 57.8	19/07/2011 05:46 61.2	20/07/2011 06:56 61.4	22/07/2011 00:06 60.6	23/07/2011 01:16 55.4
17/07/2011 03:31 60.9	18/07/2011 04:41 59.3	19/07/2011 05:51 61.8	20/07/2011 23:01 60.2	22/07/2011 00:11 59.0	23/07/2011 01:21 46.7
17/07/2011 03:36 60.2	18/07/2011 04:46 59.2	19/07/2011 05:56 61.7	20/07/2011 23:06 59.3	22/07/2011 00:16 58.4	23/07/2011 01:26 51.8
17/07/2011 03:41 60.6	18/07/2011 04:51 59.4	19/07/2011 06:01 54.6	20/07/2011 23:11 60.8	22/07/2011 00:21 57.8	23/07/2011 01:31 54.6
17/07/2011 03:46 60.2	18/07/2011 04:56 59.1	19/07/2011 06:06 51.5	20/07/2011 23:16 59.5	22/07/2011 00:26 58.5	23/07/2011 01:36 54.7
17/07/2011 03:51 60.6	18/07/2011 05:01 59.8	19/07/2011 06:11 51.4	20/07/2011 23:21 57.2	22/07/2011 00:31 58.2	23/07/2011 01:41 57.0
17/07/2011 03:56 60.1	18/07/2011 05:06 59.3	19/07/2011 06:16 51.0	20/07/2011 23:26 59.9	22/07/2011 00:36 54.6	23/07/2011 01:46 61.2
17/07/2011 04:01 60.7	18/07/2011 05:11 58.7	19/07/2011 06:21 61.8	20/07/2011 23:31 58.8	22/07/2011 00:41 58.0	23/07/2011 01:51 61.9
17/07/2011 04:06 60.0	18/07/2011 05:16 59.1	19/07/2011 06:26 53.9	20/07/2011 23:36 59.3	22/07/2011 00:46 58.0	23/07/2011 01:56 61.4
17/07/2011 04:11 60.3	18/07/2011 05:21 58.3	19/07/2011 06:31 56.0	20/07/2011 23:41 58.6	22/07/2011 00:51 52.5	23/07/2011 02:01 61.6
17/07/2011 04:16 60.0	18/07/2011 05:26 60.1	19/07/2011 06:36 55.3	20/07/2011 23:46 58.1	22/07/2011 00:56 53.0	23/07/2011 02:06 61.5
17/07/2011 04:21 60.5	18/07/2011 05:31 60.2	19/07/2011 06:41 61.3	20/07/2011 23:51 57.8	22/07/2011 01:01 48.4	23/07/2011 02:11 61.6
17/07/2011 04:26 60.8	18/07/2011 05:36 59.5	19/07/2011 06:46 60.7	20/07/2011 23:56 57.9	22/07/2011 01:06 44.6	23/07/2011 02:16 61.9
17/07/2011 04:31 59.3	18/07/2011 05:41 60.3	19/07/2011 06:51 59.6	21/07/2011 00:01 55.9	22/07/2011 01:11 61.8	23/07/2011 02:21 60.9
17/07/2011 04:36 60.3	18/07/2011 05:46 60.9	19/07/2011 06:56 58.8	21/07/2011 00:06 56.9	22/07/2011 01:16 61.6	23/07/2011 02:26 46.0
17/07/2011 04:41 60.5	18/07/2011 05:51 61.0	19/07/2011 23:01 58.3	21/07/2011 00:11 52.2	22/07/2011 01:21 49.8	23/07/2011 02:31 61.6
17/07/2011 04:46 59.8	18/07/2011 05:56 60.8	19/07/2011 23:06 58.0	21/07/2011 00:16 55.2	22/07/2011 01:26 42.5	23/07/2011 02:36 61.0
17/07/2011 04:51 59.9	18/07/2011 06:01 61.4	19/07/2011 23:11 58.4	21/07/2011 00:21 54.6	22/07/2011 01:31 45.6	23/07/2011 02:41 60.9
17/07/2011 04:56 60.3	18/07/2011 06:06 61.2	19/07/2011 23:16 59.6	21/07/2011 00:26 54.4	22/07/2011 01:36 61.5	23/07/2011 02:46 60.6
17/07/2011 05:01 60.1	18/07/2011 06:11 35.4	19/07/2011 23:21 60.9	21/07/2011 00:31 49.3	22/07/2011 01:41 52.8	23/07/2011 02:51 43.3
17/07/2011 05:06 61.2	18/07/2011 06:16 52.3	19/07/2011 23:26 61.4	21/07/2011 00:36 57.7	22/07/2011 01:46 60.3	23/07/2011 02:56 60.3
17/07/2011 05:11 59.7	18/07/2011 06:21 51.9	19/07/2011 23:31 57.7	21/07/2011 00:41 52.3	22/07/2011 01:51 60.8	23/07/2011 03:01 60.6
17/07/2011 05:16 60.2	18/07/2011 06:26 57.0	19/07/2011 23:36 57.3	21/07/2011 00:46 61.9	22/07/2011 01:56 61.0	23/07/2011 03:06 61.4
17/07/2011 05:21 60.4	18/07/2011 06:31 56.7	19/07/2011 23:41 58.8	21/07/2011 00:51 52.4	22/07/2011 02:01 60.6	23/07/2011 03:11 60.7
17/07/2011 05:26 60.4	18/07/2011 06:36 59.0	19/07/2011 23:46 55.0	21/07/2011 00:56 61.4	22/07/2011 02:06 61.1	23/07/2011 03:16 61.0
17/07/2011 05:31 60.2	18/07/2011 06:41 59.7	19/07/2011 23:51 55.6	21/07/2011 01:01 61.8	22/07/2011 02:11 61.2	23/07/2011 03:21 60.7
17/07/2011 05:36 60.2	18/07/2011 06:46 60.5	19/07/2011 23:56 58.1	21/07/2011 01:06 61.1	22/07/2011 02:16 59.6	23/07/2011 03:26 60.7
17/07/2011 05:41 60.0	18/07/2011 06:51 61.2	20/07/2011 00:01 57.9	21/07/2011 01:11 60.6	22/07/2011 02:21 61.5	23/07/2011 03:31 60.7
17/07/2011 05:46 60.1	18/07/2011 06:56 62.0	20/07/2011 00:06 59.2	21/07/2011 01:16 61.6	22/07/2011 02:26 60.2	23/07/2011 03:36 61.4
17/07/2011 05:51 60.8	18/07/2011 23:01 54.4	20/07/2011 00:11 54.1	21/07/2011 01:21 61.3	22/07/2011 02:31 60.0	23/07/2011 03:41 61.8
17/07/2011 05:56 61.3	18/07/2011 23:06 58.9	20/07/2011 00:16 55.2	21/07/2011 01:26 61.6	22/07/2011 02:36 59.7	23/07/2011 03:46 61.1
17/07/2011 06:01 60.6	18/07/2011 23:11 57.0	20/07/2011 00:21 54.4	21/07/2011 01:31 60.9	22/07/2011 02:41 59.9	23/07/2011 03:51 60.4
17/07/2011 06:06 60.8	18/07/2011 23:16 55.8	20/07/2011 00:26 54.8	21/07/2011 01:36 60.7	22/07/2011 02:46 60.6	23/07/2011 03:56 61.0
17/07/2011 06:11 61.4	18/07/2011 23:21 55.0	20/07/2011 00:31 47.9	21/07/2011 01:41 61.2	22/07/2011 02:51 60.1	23/07/2011 04:01 60.8
17/07/2011 06:16 55.4	18/07/2011 23:26 59.4	20/07/2011 00:36 55.6	21/07/2011 01:46 61.4	22/07/2011 02:56 61.2	23/07/2011 04:06 60.5
17/07/2011 06:21 61.6	18/07/2011 23:31 58.0	20/07/2011 00:41 61.7	21/07/2011 01:51 60.7	22/07/2011 03:01 60.2	23/07/2011 04:11 61.0
17/07/2011 06:26 61.4	18/07/2011 23:36 58.2	20/07/2011 00:46 61.7	21/07/2011 01:56 61.4	22/07/2011 03:06 60.1	23/07/2011 04:16 60.2
17/07/2011 06:31 52.2	18/07/2011 23:41 57.5	20/07/2011 00:51 61.7	21/07/2011 02:01 59.9	22/07/2011 03:11 59.9	23/07/2011 04:21 60.3
17/07/2011 06:36 62.4	18/07/2011 23:46 57.5	20/07/2011 00:56 61.2	21/07/2011 02:06 60.0	22/07/2011 03:16 58.9	23/07/2011 04:26 59.7
17/07/2011 06:41 63.9	18/07/2011 23:51 52.8	20/07/2011 01:01 61.0	21/07/2011 02:11 60.3	22/07/2011 03:21 59.2	23/07/2011 04:31 60.4
17/07/2011 06:46 62.1	18/07/2011 23:56 57.2	20/07/2011 01:06 60.7	21/07/2011 02:16 60.0	22/07/2011 03:26 59.6	23/07/2011 04:36 60.5
17/07/2011 06:51 63.0	19/07/2011 00:01 55.8	20/07/2011 01:11 61.1	21/07/2011 02:21 60.1	22/07/2011 03:31 59.0	23/07/2011 04:41 60

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

23/07/2011 23:31 57.5	25/07/2011 00:41 61.3	26/07/2011 01:51 60.1	27/07/2011 03:01 60.7
23/07/2011 23:36 58.9	25/07/2011 00:46 61.6	26/07/2011 01:56 59.6	27/07/2011 03:06 58.9
23/07/2011 23:41 56.6	25/07/2011 00:51 60.1	26/07/2011 02:01 59.8	27/07/2011 03:11 59.5
23/07/2011 23:46 56.1	25/07/2011 00:56 61.0	26/07/2011 02:06 59.6	27/07/2011 03:16 59.2
23/07/2011 23:51 58.4	25/07/2011 01:01 60.9	26/07/2011 02:11 60.5	27/07/2011 03:21 58.0
23/07/2011 23:56 58.5	25/07/2011 01:06 60.4	26/07/2011 02:16 58.8	27/07/2011 03:26 58.7
24/07/2011 00:01 58.2	25/07/2011 01:11 61.4	26/07/2011 02:21 59.0	27/07/2011 03:31 59.0
24/07/2011 00:06 59.9	25/07/2011 01:16 60.5	26/07/2011 02:26 59.1	27/07/2011 03:36 59.2
24/07/2011 00:11 55.4	25/07/2011 01:21 60.2	26/07/2011 02:31 58.5	27/07/2011 03:41 58.5
24/07/2011 00:16 56.9	25/07/2011 01:26 60.3	26/07/2011 02:36 59.6	27/07/2011 03:46 58.7
24/07/2011 00:21 57.7	25/07/2011 01:31 60.6	26/07/2011 02:41 58.6	27/07/2011 03:51 59.1
24/07/2011 00:26 58.3	25/07/2011 01:36 59.8	26/07/2011 02:46 58.5	27/07/2011 03:56 58.3
24/07/2011 00:31 58.4	25/07/2011 01:41 59.3	26/07/2011 02:51 59.4	27/07/2011 04:01 58.4
24/07/2011 00:36 51.7	25/07/2011 01:46 59.1	26/07/2011 02:56 59.2	27/07/2011 04:06 59.0
24/07/2011 00:41 55.3	25/07/2011 01:51 59.5	26/07/2011 03:01 58.6	27/07/2011 04:11 58.4
24/07/2011 00:46 51.5	25/07/2011 01:56 59.5	26/07/2011 03:06 58.6	27/07/2011 04:16 58.9
24/07/2011 00:51 40.3	25/07/2011 02:01 58.5	26/07/2011 03:11 58.1	27/07/2011 04:21 59.0
24/07/2011 00:56 54.0	25/07/2011 02:06 58.8	26/07/2011 03:16 59.3	27/07/2011 04:26 59.0
24/07/2011 01:01 61.6	25/07/2011 02:11 59.8	26/07/2011 03:21 58.5	27/07/2011 04:31 59.6
24/07/2011 01:06 48.2	25/07/2011 02:16 59.0	26/07/2011 03:26 58.0	27/07/2011 04:36 59.7
24/07/2011 01:11 61.3	25/07/2011 02:21 59.8	26/07/2011 03:31 57.3	27/07/2011 04:41 58.5
24/07/2011 01:16 61.9	25/07/2011 02:26 59.0	26/07/2011 03:36 58.9	27/07/2011 04:46 58.8
24/07/2011 01:21 61.7	25/07/2011 02:31 58.9	26/07/2011 03:41 57.5	27/07/2011 04:51 59.4
24/07/2011 01:26 61.7	25/07/2011 02:36 58.0	26/07/2011 03:46 58.3	27/07/2011 04:56 59.2
24/07/2011 01:31 61.7	25/07/2011 02:41 58.8	26/07/2011 03:51 57.9	27/07/2011 05:01 58.9
24/07/2011 01:36 61.7	25/07/2011 02:46 58.2	26/07/2011 03:56 57.4	27/07/2011 05:06 59.7
24/07/2011 01:41 61.9	25/07/2011 02:51 58.0	26/07/2011 04:01 59.3	27/07/2011 05:11 59.7
24/07/2011 01:46 61.5	25/07/2011 02:56 58.3	26/07/2011 04:06 57.8	27/07/2011 05:16 60.3
24/07/2011 01:51 61.4	25/07/2011 03:01 58.8	26/07/2011 04:11 58.4	27/07/2011 05:21 59.6
24/07/2011 01:56 61.5	25/07/2011 03:06 58.3	26/07/2011 04:16 58.3	27/07/2011 05:26 60.0
24/07/2011 02:01 61.3	25/07/2011 03:11 57.8	26/07/2011 04:21 58.2	27/07/2011 05:31 59.4
24/07/2011 02:06 61.7	25/07/2011 03:16 58.0	26/07/2011 04:26 58.6	27/07/2011 05:36 59.9
24/07/2011 02:11 60.1	25/07/2011 03:21 58.3	26/07/2011 04:31 57.3	27/07/2011 05:41 61.1
24/07/2011 02:16 60.5	25/07/2011 03:26 58.4	26/07/2011 04:36 58.7	27/07/2011 05:46 61.3
24/07/2011 02:21 61.1	25/07/2011 03:31 58.9	26/07/2011 04:41 58.5	27/07/2011 05:51 61.1
24/07/2011 02:26 60.8	25/07/2011 03:36 58.7	26/07/2011 04:46 58.2	27/07/2011 05:56 61.5
24/07/2011 02:31 60.7	25/07/2011 03:41 58.1	26/07/2011 04:51 57.5	27/07/2011 06:01 60.2
24/07/2011 02:36 60.9	25/07/2011 03:46 58.6	26/07/2011 04:56 59.1	27/07/2011 06:06 61.5
24/07/2011 02:41 60.1	25/07/2011 03:51 58.4	26/07/2011 05:01 59.7	27/07/2011 06:11 61.3
24/07/2011 02:46 60.4	25/07/2011 03:56 58.5	26/07/2011 05:06 58.7	27/07/2011 06:16 35.4
24/07/2011 02:51 61.6	25/07/2011 04:01 57.8	26/07/2011 05:11 60.0	27/07/2011 06:21 48.7
24/07/2011 02:56 59.9	25/07/2011 04:06 57.8	26/07/2011 05:16 58.0	27/07/2011 06:26 54.7
24/07/2011 03:01 60.1	25/07/2011 04:11 58.5	26/07/2011 05:21 59.1	27/07/2011 06:31 44.0
24/07/2011 03:06 60.1	25/07/2011 04:16 58.9	26/07/2011 05:26 59.1	27/07/2011 06:36 54.4
24/07/2011 03:11 60.3	25/07/2011 04:21 58.2	26/07/2011 05:31 60.4	27/07/2011 06:41 58.3
24/07/2011 03:16 60.3	25/07/2011 04:26 57.6	26/07/2011 05:36 58.5	27/07/2011 06:46 58.1
24/07/2011 03:21 60.2	25/07/2011 04:31 57.7	26/07/2011 05:41 59.8	27/07/2011 06:51 59.8
24/07/2011 03:26 60.0	25/07/2011 04:36 58.3	26/07/2011 05:46 60.7	27/07/2011 06:56 59.9
24/07/2011 03:31 59.9	25/07/2011 04:41 59.0	26/07/2011 05:51 60.2	27/07/2011 23:01 59.0
24/07/2011 03:36 61.3	25/07/2011 04:46 58.1	26/07/2011 05:56 61.3	27/07/2011 23:06 59.4
24/07/2011 03:41 60.9	25/07/2011 04:51 58.5	26/07/2011 06:01 60.6	27/07/2011 23:11 59.0
24/07/2011 03:46 60.2	25/07/2011 04:56 59.3	26/07/2011 06:06 61.5	27/07/2011 23:16 57.8
24/07/2011 03:51 59.8	25/07/2011 05:01 58.2	26/07/2011 06:11 61.7	27/07/2011 23:21 59.5
24/07/2011 03:56 59.9	25/07/2011 05:06 58.3	26/07/2011 06:16 47.9	27/07/2011 23:26 58.4
24/07/2011 04:01 60.0	25/07/2011 05:11 58.8	26/07/2011 06:21 46.7	27/07/2011 23:31 53.9
24/07/2011 04:06 59.9	25/07/2011 05:16 60.0	26/07/2011 06:26 61.7	27/07/2011 23:36 55.9
24/07/2011 04:11 59.6	25/07/2011 05:21 59.4	26/07/2011 06:31 53.8	27/07/2011 23:41 58.0
24/07/2011 04:16 59.6	25/07/2011 05:26 59.8	26/07/2011 06:36 58.8	27/07/2011 23:46 57.1
24/07/2011 04:21 60.3	25/07/2011 05:31 59.8	26/07/2011 06:41 53.3	27/07/2011 23:51 53.8
24/07/2011 04:26 60.1	25/07/2011 05:36 60.0	26/07/2011 06:46 60.9	27/07/2011 23:56 57.2
24/07/2011 04:31 60.0	25/07/2011 05:41 60.6	26/07/2011 06:51 60.3	
24/07/2011 04:36 60.0	25/07/2011 05:46 61.0	26/07/2011 06:56 56.7	
24/07/2011 04:41 59.4	25/07/2011 05:51 61.1	26/07/2011 23:01 59.2	
24/07/2011 04:46 59.9	25/07/2011 05:56 61.5	26/07/2011 23:06 59.1	
24/07/2011 04:51 59.9	25/07/2011 06:01 61.0	26/07/2011 23:11 58.7	
24/07/2011 04:56 60.5	25/07/2011 06:06 49.3	26/07/2011 23:16 58.9	
24/07/2011 05:01 60.3	25/07/2011 06:11 46.4	26/07/2011 23:21 58.2	
24/07/2011 05:06 60.0	25/07/2011 06:16 61.8	26/07/2011 23:26 57.5	
24/07/2011 05:11 60.3	25/07/2011 06:21 51.3	26/07/2011 23:31 57.1	
24/07/2011 05:16 60.3	25/07/2011 06:26 55.9	26/07/2011 23:36 57.3	
24/07/2011 05:21 60.0	25/07/2011 06:31 54.4	26/07/2011 23:41 56.4	
24/07/2011 05:26 60.2	25/07/2011 06:36 58.0	26/07/2011 23:46 58.3	
24/07/2011 05:31 60.4	25/07/2011 06:41 58.7	26/07/2011 23:51 56.2	
24/07/2011 05:36 60.5	25/07/2011 06:46 58.9	26/07/2011 23:56 57.6	
24/07/2011 05:41 59.4	25/07/2011 06:51 57.9	27/07/2011 00:01 57.2	
24/07/2011 05:46 61.1	25/07/2011 06:56 62.2	27/07/2011 00:06 57.4	
24/07/2011 05:51 61.1	25/07/2011 23:01 57.4	27/07/2011 00:11 56.4	
24/07/2011 05:56 40.3	25/07/2011 23:06 56.7	27/07/2011 00:16 57.8	
24/07/2011 06:01 61.6	25/07/2011 23:11 55.4	27/07/2011 00:21 57.5	
24/07/2011 06:06 51.4	25/07/2011 23:16 57.7	27/07/2011 00:26 54.6	
24/07/2011 06:11 61.5	25/07/2011 23:21 57.1	27/07/2011 00:31 56.7	
24/07/2011 06:16 61.7	25/07/2011 23:26 56.5	27/07/2011 00:36 53.1	
24/07/2011 06:21 61.9	25/07/2011 23:31 54.9	27/07/2011 00:41 54.6	
24/07/2011 06:26 61.8	25/07/2011 23:36 55.9	27/07/2011 00:46 54.4	
24/07/2011 06:31 49.5	25/07/2011 23:41 54.0	27/07/2011 00:51 45.1	
24/07/2011 06:36 50.5	25/07/2011 23:46 55.2	27/07/2011 00:56 61.8	
24/07/2011 06:41 54.8	25/07/2011 23:51 54.2	27/07/2011 01:01 61.1	
24/07/2011 06:46 54.0	25/07/2011 23:56 61.9	27/07/2011 01:06 61.5	
24/07/2011 06:51 52.1	26/07/2011 00:01 53.8	27/07/2011 01:11 61.5	
24/07/2011 06:56 54.0	26/07/2011 00:06 56.9	27/07/2011 01:16 61.1	
24/07/2011 23:01 57.0	26/07/2011 00:11 53.1	27/07/2011 01:21 61.1	
24/07/2011 23:06 54.4	26/07/2011 00:16 49.5	27/07/2011 01:26 61.2	
24/07/2011 23:11 56.5	26/07/2011 00:21 61.8	27/07/2011 01:31 61.3	
24/07/2011 23:16 56.9	26/07/2011 00:26 53.0	27/07/2011 01:36 60.4	
24/07/2011 23:21 55.0	26/07/2011 00:31 61.9	27/07/2011 01:41 61.8	
24/07/2011 23:26 55.0	26/07/2011 00:36 44.6	27/07/2011 01:46 60.6	
24/07/2011 23:31 54.3	26/07/2011 00:41 61.2	27/07/2011 01:51 60.7	
24/07/2011 23:36 54.5	26/07/2011 00:46 47.7	27/07/2011 01:56 60.5	
24/07/2011 23:41 52.7	26/07/2011 00:51 61.0	27/07/2011 02:01 60.4	
24/07/2011 23:46 53.8	26/07/2011 00:56 61.2	27/07/2011 02:06 60.8	
24/07/2011 23:51 55.9	26/07/2011 01:01 61.2	27/07/2011 02:11 61.0	
24/07/2011 23:56 48.4	26/07/2011 01:06 61.4	27/07/2011 02:16 60.1	
25/07/2011 00:01 54.6	26/07/2011 01:11 60.7	27/07/2011 02:21 59.1	
25/07/2011 00:06 50.9	26/07/2011 01:16 60.0	27/07/2011 02:26 59.1	
25/07/2011 00:11 51.0	26/07/2011 01:21 60.9	27/07/2011 02:31 59.2	
25/07/2011 00:16 61.9	26/07/2011 01:26 60.4	27/07/2011 02:36 59.4	
25/07/2011 00:21 61.9	26/07/2011 01:31 60.1	27/07/2011 02:41 59.6	
25/07/2011 00:26 47.1	26/07/2011 01:36 59.8	27/07/2011 02:46 59.2	
25/07/2011 00:31 61.6	26/07/2011 01:41 60.0	27/07/2011 02:51 60.4	
25/07/2011 00:36 61.4	26/07/2011 01:46 60.3	27/07/2011 02:56 59.5	

*Exceedance recorded during monitoring compliance check with NCO

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

Normal Day 07:00-19:00	04/07/2011 13:31 67.3	09/07/2011 08:31 63.9	14/07/2011 15:31 68.3	20/07/2011 10:31 70.7	25/07/2011 17:31 66.0
28/06/2011 07:01 65.4	04/07/2011 14:01 66.6	09/07/2011 09:01 66.3	14/07/2011 16:01 68.3	20/07/2011 11:01 70.6	25/07/2011 18:01 66.0
28/06/2011 07:31 67.4	04/07/2011 14:31 67.3	09/07/2011 09:31 67.6	14/07/2011 16:31 68.2	20/07/2011 11:31 72.5	25/07/2011 18:31 66.0
28/06/2011 08:01 67.1	04/07/2011 15:01 66.9	09/07/2011 10:01 65.9	14/07/2011 17:01 68.2	20/07/2011 12:01 65.6	26/07/2011 07:01 63.8
28/06/2011 08:31 67.2	04/07/2011 15:31 66.4	09/07/2011 10:31 65.5	14/07/2011 17:31 67.9	20/07/2011 12:31 67.2	26/07/2011 07:31 63.8
28/06/2011 09:01 66.8	04/07/2011 16:01 66.6	09/07/2011 11:01 65.4	14/07/2011 18:01 67.3	20/07/2011 13:01 70.6	26/07/2011 08:01 66.3
28/06/2011 09:31 67.6	04/07/2011 16:31 69.5	09/07/2011 11:31 65.5	14/07/2011 18:31 66.8	20/07/2011 13:31 68.1	26/07/2011 08:31 66.6
28/06/2011 10:01 66.6	04/07/2011 17:01 70.6	09/07/2011 12:01 66.9	15/07/2011 07:01 66.7	20/07/2011 14:01 68.9	26/07/2011 09:01 66.6
28/06/2011 10:31 67.1	04/07/2011 17:31 68.3	09/07/2011 12:31 65.7	15/07/2011 07:31 67.9	20/07/2011 14:31 68.6	26/07/2011 09:31 66.2
28/06/2011 11:01 67.1	04/07/2011 18:01 66.8	09/07/2011 13:01 65.6	15/07/2011 08:01 69.0	20/07/2011 15:01 69.5	26/07/2011 10:01 66.2
28/06/2011 11:31 66.9	04/07/2011 18:31 66.7	09/07/2011 13:31 65.9	15/07/2011 08:31 66.8	20/07/2011 15:31 68.4	26/07/2011 10:31 67.7
28/06/2011 12:01 67.4	05/07/2011 07:01 63.0	09/07/2011 14:01 66.2	15/07/2011 09:01 67.8	20/07/2011 16:01 68.4	26/07/2011 11:01 68.2
28/06/2011 12:31 66.6	05/07/2011 07:31 63.8	09/07/2011 14:31 66.2	15/07/2011 09:31 68.7	20/07/2011 16:31 67.8	26/07/2011 11:31 69.1
28/06/2011 13:01 67.2	05/07/2011 08:01 66.8	09/07/2011 15:01 66.3	15/07/2011 10:01 67.6	20/07/2011 17:01 67.6	26/07/2011 12:01 66.3
28/06/2011 13:31 68.8	05/07/2011 08:31 70.1	09/07/2011 15:31 65.0	15/07/2011 10:31 67.4	20/07/2011 17:31 67.5	26/07/2011 12:31 65.8
28/06/2011 14:01 69.2	05/07/2011 09:01 70.4	09/07/2011 16:01 63.8	15/07/2011 11:01 67.5	20/07/2011 18:01 66.5	26/07/2011 13:01 66.5
28/06/2011 14:31 69.5	05/07/2011 09:31 68.5	09/07/2011 16:31 64.6	15/07/2011 11:31 67.8	20/07/2011 18:31 64.7	26/07/2011 13:31 66.8
28/06/2011 15:01 69.1	05/07/2011 10:01 65.9	09/07/2011 17:01 62.9	15/07/2011 12:01 67.2	21/07/2011 07:01 64.2	26/07/2011 14:01 66.7
28/06/2011 15:31 66.9	05/07/2011 10:31 67.4	09/07/2011 17:31 63.5	15/07/2011 12:31 67.6	21/07/2011 07:31 65.1	26/07/2011 14:31 67.1
28/06/2011 16:01 67.1	05/07/2011 11:01 67.5	09/07/2011 18:01 64.2	15/07/2011 13:01 67.4	21/07/2011 08:01 66.9	26/07/2011 15:01 66.8
28/06/2011 16:31 68.1	05/07/2011 11:31 67.4	09/07/2011 18:31 65.0	15/07/2011 13:31 67.8	21/07/2011 08:31 67.3	26/07/2011 15:31 67.5
28/06/2011 17:01 68.1	05/07/2011 12:01 67.4	11/07/2011 07:01 61.0	15/07/2011 14:01 67.5	21/07/2011 09:01 67.2	26/07/2011 16:01 67.3
28/06/2011 17:31 69.2	05/07/2011 12:31 67.8	11/07/2011 07:31 63.0	15/07/2011 14:31 67.9	21/07/2011 09:31 68.2	26/07/2011 16:31 67.5
28/06/2011 18:01 65.8	05/07/2011 13:01 70.3	11/07/2011 08:01 63.3	15/07/2011 15:01 67.5	21/07/2011 10:01 68.1	26/07/2011 17:01 66.8
28/06/2011 18:31 64.4	05/07/2011 13:31 70.0	11/07/2011 08:31 64.2	15/07/2011 15:31 67.3	21/07/2011 10:31 68.5	26/07/2011 17:31 67.4
29/06/2011 07:01 64.8	05/07/2011 14:01 71.2	11/07/2011 09:01 67.7	15/07/2011 16:01 68.6	21/07/2011 11:01 67.3	26/07/2011 18:01 67.3
29/06/2011 07:31 64.2	05/07/2011 14:31 69.9	11/07/2011 09:31 69.0	15/07/2011 16:31 68.3	21/07/2011 11:31 67.1	26/07/2011 18:31 66.4
29/06/2011 08:01 66.3	05/07/2011 15:01 69.9	11/07/2011 10:01 66.0	15/07/2011 17:01 68.2	21/07/2011 12:01 66.4	27/07/2011 07:01 63.0
29/06/2011 08:31 66.4	05/07/2011 15:31 70.2	11/07/2011 10:31 67.8	15/07/2011 17:31 69.2	21/07/2011 12:31 66.8	27/07/2011 07:31 64.6
29/06/2011 09:01 67.4	05/07/2011 16:01 70.3	11/07/2011 11:01 68.1	15/07/2011 18:01 65.6	21/07/2011 13:01 67.3	27/07/2011 08:01 66.1
29/06/2011 09:31 67.7	05/07/2011 16:31 68.8	11/07/2011 11:31 69.8	15/07/2011 18:31 63.7	21/07/2011 13:31 66.9	27/07/2011 08:31 65.6
29/06/2011 10:01 67.8	05/07/2011 17:01 66.7	11/07/2011 12:01 68.4	16/07/2011 07:01 63.9	21/07/2011 14:01 67.0	27/07/2011 09:01 66.0
29/06/2011 10:31 67.9	05/07/2011 17:31 66.9	11/07/2011 12:31 67.3	16/07/2011 07:31 67.9	21/07/2011 14:31 67.0	27/07/2011 09:31 66.1
29/06/2011 11:01 67.7	05/07/2011 18:01 66.3	11/07/2011 13:01 66.4	16/07/2011 08:01 69.0	21/07/2011 15:01 66.4	27/07/2011 10:01 67.0
29/06/2011 11:31 67.6	05/07/2011 18:31 64.9	11/07/2011 13:31 66.8	16/07/2011 08:31 67.2	21/07/2011 15:31 66.9	27/07/2011 10:31 66.7
29/06/2011 12:01 66.2	06/07/2011 07:01 63.0	11/07/2011 07:01 67.4	16/07/2011 09:01 67.5	21/07/2011 16:01 67.0	27/07/2011 11:01 66.5
29/06/2011 12:31 67.6	06/07/2011 07:31 64.7	11/07/2011 14:31 66.7	16/07/2011 09:31 67.4	21/07/2011 16:31 67.3	27/07/2011 11:31 66.1
29/06/2011 13:01 69.1	06/07/2011 08:01 65.5	11/07/2011 15:01 66.5	16/07/2011 10:01 67.0	21/07/2011 17:01 68.2	27/07/2011 12:01 65.6
29/06/2011 13:31 68.5	06/07/2011 08:31 65.8	11/07/2011 15:31 67.2	16/07/2011 10:31 66.7	21/07/2011 17:31 67.2	27/07/2011 12:31 65.8
29/06/2011 14:01 71.6	06/07/2011 09:01 67.1	11/07/2011 16:01 66.1	16/07/2011 11:01 68.7	21/07/2011 18:01 66.3	27/07/2011 13:01 65.9
29/06/2011 14:31 70.6	06/07/2011 09:31 66.3	11/07/2011 16:31 66.4	16/07/2011 11:31 67.1	21/07/2011 18:31 65.7	27/07/2011 13:31 66.3
29/06/2011 15:01 68.0	06/07/2011 10:01 66.2	11/07/2011 17:01 66.9	16/07/2011 12:01 67.3	22/07/2011 07:01 64.2	27/07/2011 14:01 66.4
29/06/2011 15:31 69.1	06/07/2011 10:31 66.4	11/07/2011 17:31 67.2	16/07/2011 12:31 66.7	22/07/2011 07:31 63.6	27/07/2011 14:31 67.3
29/06/2011 16:01 68.9	06/07/2011 11:01 66.3	11/07/2011 18:01 69.2	16/07/2011 13:01 66.6	22/07/2011 08:01 65.8	27/07/2011 15:01 68.2
29/06/2011 16:31 68.4	06/07/2011 11:31 66.1	11/07/2011 18:31 67.6	16/07/2011 13:31 67.2	22/07/2011 08:31 66.1	27/07/2011 15:31 66.6
29/06/2011 17:01 67.8	06/07/2011 12:01 65.6	12/07/2011 07:01 61.2	16/07/2011 14:01 67.1	22/07/2011 09:01 66.7	27/07/2011 16:01 66.8
29/06/2011 17:31 68.5	06/07/2011 12:31 65.2	12/07/2011 07:31 62.6	16/07/2011 14:31 65.8	22/07/2011 09:31 66.3	27/07/2011 16:31 68.0
29/06/2011 18:01 69.1	06/07/2011 13:01 66.4	12/07/2011 08:01 63.4	16/07/2011 15:01 66.1	22/07/2011 10:01 66.7	27/07/2011 17:01 67.8
29/06/2011 18:31 65.2	06/07/2011 13:31 66.5	12/07/2011 08:31 65.5	16/07/2011 15:31 66.8	22/07/2011 10:31 66.7	27/07/2011 17:31 66.9
30/06/2011 07:01 64.5	06/07/2011 14:01 66.2	12/07/2011 09:01 66.4	16/07/2011 16:01 66.1	22/07/2011 11:01 66.6	27/07/2011 18:01 66.3
30/06/2011 07:31 65.6	06/07/2011 14:31 66.3	12/07/2011 09:31 66.4	16/07/2011 16:31 66.1	22/07/2011 11:31 67.0	27/07/2011 18:31 64.3
30/06/2011 08:01 69.0	06/07/2011 15:01 67.4	12/07/2011 10:01 66.4	16/07/2011 17:01 66.7	22/07/2011 12:01 66.2	
30/06/2011 08:31 67.2	06/07/2011 15:31 67.1	12/07/2011 10:31 67.2	16/07/2011 17:31 66.4	22/07/2011 12:31 65.7	Normal Day 19:00-23:00
30/06/2011 09:01 66.8	06/07/2011 16:01 66.2	12/07/2011 11:01 67.8	16/07/2011 18:01 66.9	22/07/2011 13:01 66.1	Sunday & Holiday 07:00-23:00
30/06/2011 09:31 67.6	06/07/2011 16:31 66.1	12/07/2011 11:31 69.2	16/07/2011 18:31 65.3	22/07/2011 13:31 67.2	28/06/2011 19:01 63.6
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30/06/2011 10:31 67.7	06/07/2011 17:31 65.6	12/07/2011 12:31 67.0	18/07/2011 07:31 62.0	22/07/2011 14:31 66.5	28/06/2011 19:11 63.1
30/06/2011 11:01 67.6	06/07/2011 18:01 64.9	12/07/2011 13:01 68.9	18/07/2011 08:01 62.6	22/07/2011 15:01 66.3	28/06/2011 19:16 66.7
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30/06/2011 14:01 66.4	07/07/2011 09:01 66.3	12/07/2011 16:01 68.1	18/07/2011 11:01 62.9	22/07/2011 18:01 66.6	28/06/2011 19:46 61.6
30/06/2011 14:31 66.0	07/07/2011 09:31 65.3	12/07/2011 16:31 68.8	18/07/2011 11:31 62.8	22/07/2011 18:31 65.4	28/06/2011 19:51 62.0
30/06/2011 15:01 66.9	07/07/2011 10:01 66.2	12/07/2011 17:01 67.5	18/07/2011 12:01 62.5	23/07/2011 07:01 61.7	28/06/2011 19:56 63.0
30/06/2011 15:31 65.8	07/07/2011 10:31 66.2	12/07/2011 17:31 67.8	18/07/2011 12:31 64.8	23/07/2011 07:31 62.7	28/06/2011 20:01 63.8
30/06/2011 16:01 65.9	07/07/2011 11:01 66.2	12/07/2011 18:01 67.1	18/07/2011 13:01 63.3	23/07/2011 08:01 65.0	28/06/2011 20:06 63.8
30/06/2011 16:31 66.4	07/07/2011 11:31 66.0	12/07/2011 18:31 66.2	18/07/2011 13:31 64.5	23/07/2011 08:31 68.3	28/06/2011 20:11 63.9
30/06/2011 17:01 66.8	07/07/2011 12:01 65.8	13/07/2011 07:01 64.4	18/07/2011 14:01 65.5	23/07/2011 09:01 67.2	28/06/2011 20:16 64.3
30/06/2011 17:31 68.0	07/07/2011 12:31 64.8	13/07/2011 07:31 64.9	18/07/2011 14:31 64.8	23/07/2011 09:31 66.6	28/06/2011 20:21 63.6
30/06/2011 18:01 66.0	07/07/2011 13:01 66.4	13/07/2011 08:01 67.3	18/07/2011 15:01 63.9	23/07/2011 10:01 66.2	28/06/2011 20:26 64.1
30/06/2011 18:31 64.8	07/07/2011 13:31 66.3	13/07/2011 13:31 66.3	18/07/2011 15:31 63.2	23/07/2011 10:31 67.6	28/06/2011 20:31 64.0
02/07/2011 07:01 63.4	07/07/2011 14:01 67.5	13/07/2011 09:01 66.7	18/07/2011 16:01 63.9	23/07/2011 11:01 66.2	28/06/2011 20:36 63.6
02/07/2011 07:31 65.8	07/07/2011 14:31 66.0	13/07/2011 09:31 66.6	18/07/2011 16:31 68.2	23/07/2011 11:31 66.7	28/06/2011 20:41 64.0
02/07/2011 08:01 68.1	07/07/2011 15:01 66.4	13/07/2011 10:01 67.0	18/07/2011 17:01 62.6	23/07/2011 12:01 65.8	28/06/2011 20:46 64.1
02/07/2011 08:31 67.0					

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

29/06/2011 19:41 62.9	01/07/2011 08:51 62.7	01/07/2011 18:01 62.2	03/07/2011 07:11 62.6	03/07/2011 16:21 64.1	04/07/2011 21:31 61.6
29/06/2011 19:46 63.5	01/07/2011 08:56 62.5	01/07/2011 18:06 62.2	03/07/2011 07:16 61.7	03/07/2011 16:26 62.4	04/07/2011 21:36 61.3
29/06/2011 19:51 64.1	01/07/2011 09:01 62.5	01/07/2011 18:11 62.4	03/07/2011 07:21 61.6	03/07/2011 16:31 62.3	04/07/2011 21:41 61.5
29/06/2011 19:56 64.2	01/07/2011 09:06 63.2	01/07/2011 18:16 61.6	03/07/2011 07:26 61.2	03/07/2011 16:36 63.5	04/07/2011 21:46 62.4
29/06/2011 20:01 64.2	01/07/2011 09:11 62.6	01/07/2011 18:21 62.1	03/07/2011 07:31 61.6	03/07/2011 16:41 62.5	04/07/2011 21:51 61.0
29/06/2011 20:06 64.7	01/07/2011 09:16 65.9	01/07/2011 18:26 62.8	03/07/2011 07:36 62.9	03/07/2011 16:46 63.9	04/07/2011 21:56 61.7
29/06/2011 20:11 65.0	01/07/2011 09:21 63.4	01/07/2011 18:31 62.0	03/07/2011 07:41 64.6	03/07/2011 16:51 63.2	04/07/2011 22:01 61.5
29/06/2011 20:16 63.6	01/07/2011 09:26 61.8	01/07/2011 18:36 64.5	03/07/2011 07:46 63.9	03/07/2011 16:56 63.0	04/07/2011 22:06 60.5
29/06/2011 20:21 63.9	01/07/2011 09:31 62.6	01/07/2011 18:41 66.1	03/07/2011 07:51 65.5	03/07/2011 17:01 62.4	04/07/2011 22:11 59.8
29/06/2011 20:26 64.5	01/07/2011 09:36 62.2	01/07/2011 18:46 64.9	03/07/2011 07:56 62.4	03/07/2011 17:06 61.6	04/07/2011 22:16 60.2
29/06/2011 20:31 63.8	01/07/2011 09:41 61.4	01/07/2011 18:51 63.2	03/07/2011 08:01 63.2	03/07/2011 17:11 63.3	04/07/2011 22:21 60.7
29/06/2011 20:36 63.3	01/07/2011 09:46 62.8	01/07/2011 18:56 63.6	03/07/2011 08:06 63.1	03/07/2011 17:16 62.9	04/07/2011 22:26 60.6
29/06/2011 20:41 63.2	01/07/2011 09:51 62.2	01/07/2011 19:01 63.8	03/07/2011 08:11 62.9	03/07/2011 17:21 62.7	04/07/2011 22:31 60.4
29/06/2011 20:46 69.1	01/07/2011 09:56 62.9	01/07/2011 19:06 62.7	03/07/2011 08:16 63.7	03/07/2011 17:26 62.3	04/07/2011 22:36 60.0
29/06/2011 20:51 63.5	01/07/2011 10:01 62.8	01/07/2011 19:11 61.7	03/07/2011 08:21 63.7	03/07/2011 17:31 62.1	04/07/2011 22:41 60.1
29/06/2011 20:56 64.0	01/07/2011 10:06 62.7	01/07/2011 19:16 61.6	03/07/2011 08:26 64.2	03/07/2011 17:36 61.9	04/07/2011 22:46 60.6
29/06/2011 21:01 63.5	01/07/2011 10:11 62.4	01/07/2011 19:21 61.7	03/07/2011 08:31 64.7	03/07/2011 17:41 61.8	04/07/2011 22:51 60.4
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29/06/2011 21:11 63.1	01/07/2011 10:21 63.4	01/07/2011 19:31 61.6	03/07/2011 08:41 65.6	03/07/2011 17:51 62.7	05/07/2011 21:51 63.2
29/06/2011 21:16 63.0	01/07/2011 10:26 63.7	01/07/2011 19:36 60.9	03/07/2011 08:46 62.6	03/07/2011 17:56 65.1	05/07/2011 19:06 63.0
29/06/2011 21:21 63.4	01/07/2011 10:31 62.4	01/07/2011 19:41 61.5	03/07/2011 08:51 62.7	03/07/2011 18:01 62.2	05/07/2011 19:11 63.4
29/06/2011 21:26 63.2	01/07/2011 10:36 62.5	01/07/2011 19:46 61.7	03/07/2011 08:56 62.5	03/07/2011 18:06 62.2	05/07/2011 19:16 62.7
29/06/2011 21:31 63.4	01/07/2011 10:41 63.1	01/07/2011 19:51 62.0	03/07/2011 09:01 62.5	03/07/2011 18:11 62.4	05/07/2011 19:21 63.3
29/06/2011 21:36 62.8	01/07/2011 10:46 63.2	01/07/2011 19:56 61.1	03/07/2011 09:06 63.2	03/07/2011 18:16 61.6	05/07/2011 19:26 62.2
29/06/2011 21:41 64.2	01/07/2011 10:51 63.0	01/07/2011 20:01 61.4	03/07/2011 09:11 62.6	03/07/2011 18:21 62.1	05/07/2011 19:31 62.3
29/06/2011 21:46 64.0	01/07/2011 10:56 62.9	01/07/2011 20:06 61.3	03/07/2011 09:16 65.9	03/07/2011 18:26 62.8	05/07/2011 19:36 61.2
29/06/2011 21:51 63.3	01/07/2011 11:01 62.1	01/07/2011 20:11 61.9	03/07/2011 09:21 63.4	03/07/2011 18:31 62.0	05/07/2011 19:41 61.3
29/06/2011 21:56 64.0	01/07/2011 11:06 63.6	01/07/2011 20:16 61.6	03/07/2011 09:26 61.8	03/07/2011 18:36 64.5	05/07/2011 19:46 61.9
29/06/2011 22:01 64.1	01/07/2011 11:11 63.5	01/07/2011 20:21 61.4	03/07/2011 09:31 62.6	03/07/2011 18:41 66.1	05/07/2011 19:51 62.0
29/06/2011 22:06 62.7	01/07/2011 11:16 61.4	01/07/2011 20:26 61.5	03/07/2011 09:36 62.2	03/07/2011 18:46 64.9	05/07/2011 19:56 61.9
29/06/2011 22:11 62.7	01/07/2011 11:21 61.7	01/07/2011 20:31 62.1	03/07/2011 09:41 61.4	03/07/2011 18:51 63.2	05/07/2011 20:01 62.1
29/06/2011 22:16 63.4	01/07/2011 11:26 61.8	01/07/2011 20:36 61.6	03/07/2011 09:46 62.8	03/07/2011 18:56 63.6	05/07/2011 20:06 62.3
29/06/2011 22:21 62.7	01/07/2011 11:31 62.2	01/07/2011 20:41 61.6	03/07/2011 09:51 62.2	03/07/2011 19:01 63.8	05/07/2011 20:11 62.4
29/06/2011 22:26 62.3	01/07/2011 11:36 61.6	01/07/2011 20:46 61.5	03/07/2011 09:56 62.9	03/07/2011 19:06 62.9	05/07/2011 20:16 62.3
29/06/2011 22:31 62.6	01/07/2011 11:41 62.5	01/07/2011 20:51 61.0	03/07/2011 10:01 62.8	03/07/2011 19:11 61.7	05/07/2011 20:21 63.1
29/06/2011 22:36 62.9	01/07/2011 11:46 62.5	01/07/2011 20:56 61.2	03/07/2011 10:06 62.7	03/07/2011 19:16 61.6	05/07/2011 20:26 62.0
29/06/2011 22:41 63.0	01/07/2011 11:51 61.8	01/07/2011 21:01 61.3	03/07/2011 10:11 62.4	03/07/2011 19:21 61.7	05/07/2011 20:31 61.9
29/06/2011 22:46 62.5	01/07/2011 11:56 62.5	01/07/2011 21:06 61.2	03/07/2011 10:16 63.5	03/07/2011 19:26 61.2	05/07/2011 20:36 61.4
29/06/2011 22:51 62.7	01/07/2011 12:01 63.5	01/07/2011 21:11 61.1	03/07/2011 10:21 63.4	03/07/2011 19:31 61.6	05/07/2011 20:41 61.6
29/06/2011 22:56 62.8	01/07/2011 12:06 62.2	01/07/2011 21:16 61.1	03/07/2011 10:26 63.7	03/07/2011 19:36 60.9	05/07/2011 20:46 61.5
30/06/2011 19:01 63.3	01/07/2011 12:11 62.7	01/07/2011 21:21 61.0	03/07/2011 10:31 62.4	03/07/2011 19:41 61.5	05/07/2011 20:51 62.5
30/06/2011 19:06 62.6	01/07/2011 12:16 64.6	01/07/2011 21:26 61.4	03/07/2011 10:36 62.5	03/07/2011 19:46 61.7	05/07/2011 20:56 61.9
30/06/2011 19:11 62.6	01/07/2011 12:21 63.4	01/07/2011 21:31 61.4	03/07/2011 10:41 63.1	03/07/2011 19:51 62.0	05/07/2011 21:01 61.7
30/06/2011 19:16 62.8	01/07/2011 12:26 61.2	01/07/2011 21:36 61.1	03/07/2011 10:46 63.2	03/07/2011 19:56 61.1	05/07/2011 21:06 61.9
30/06/2011 19:21 63.0	01/07/2011 12:31 62.2	01/07/2011 21:41 62.2	03/07/2011 10:51 63.0	03/07/2011 20:01 61.4	05/07/2011 21:11 61.7
30/06/2011 19:26 63.0	01/07/2011 12:36 61.2	01/07/2011 21:46 61.2	03/07/2011 10:56 62.9	03/07/2011 20:06 61.3	05/07/2011 21:16 61.4
30/06/2011 19:31 67.0	01/07/2011 12:41 62.0	01/07/2011 21:51 61.4	03/07/2011 11:01 62.1	03/07/2011 20:11 61.9	05/07/2011 21:21 61.3
30/06/2011 19:36 63.1	01/07/2011 12:46 61.8	01/07/2011 21:56 60.9	03/07/2011 11:06 63.6	03/07/2011 20:16 61.6	05/07/2011 21:26 61.2
30/06/2011 19:41 62.6	01/07/2011 12:51 61.6	01/07/2011 22:01 61.3	03/07/2011 11:11 63.5	03/07/2011 20:21 61.4	05/07/2011 21:31 60.8
30/06/2011 19:46 62.2	01/07/2011 12:56 62.2	01/07/2011 22:06 60.6	03/07/2011 11:16 61.4	03/07/2011 20:26 61.5	05/07/2011 21:36 61.2
30/06/2011 19:51 62.4	01/07/2011 13:01 62.0	01/07/2011 22:11 61.4	03/07/2011 11:21 61.7	03/07/2011 20:31 62.1	05/07/2011 21:41 61.4
30/06/2011 19:56 62.2	01/07/2011 13:06 61.7	01/07/2011 22:16 61.0	03/07/2011 11:26 61.8	03/07/2011 20:36 61.6	05/07/2011 21:46 61.5
30/06/2011 20:01 62.6	01/07/2011 13:11 62.9	01/07/2011 22:21 61.3	03/07/2011 11:31 62.2	03/07/2011 20:41 61.6	05/07/2011 21:51 61.4
30/06/2011 20:06 62.3	01/07/2011 13:16 64.0	01/07/2011 22:26 61.9	03/07/2011 11:36 61.6	03/07/2011 20:46 61.5	05/07/2011 21:56 61.1
30/06/2011 20:11 62.2	01/07/2011 13:21 64.0	01/07/2011 22:31 61.3	03/07/2011 11:41 62.5	03/07/2011 20:51 61.0	05/07/2011 22:01 60.1
30/06/2011 20:16 62.4	01/07/2011 13:26 65.0	01/07/2011 22:36 61.1	03/07/2011 11:46 62.5	03/07/2011 20:56 61.2	05/07/2011 22:06 60.2
30/06/2011 20:21 62.3	01/07/2011 13:31 64.9	01/07/2011 22:41 61.5	03/07/2011 11:51 61.8	03/07/2011 21:01 61.3	05/07/2011 22:11 60.3
30/06/2011 20:26 62.7	01/07/2011 13:36 65.9	01/07/2011 22:46 61.0	03/07/2011 11:56 62.5	03/07/2011 21:06 62.1	05/07/2011 22:16 60.2
30/06/2011 20:31 62.4	01/07/2011 13:41 67.6	01/07/2011 22:51 61.4	03/07/2011 12:01 63.5	03/07/2011 21:11 61.1	05/07/2011 22:21 60.4
30/06/2011 20:36 61.9	01/07/2011 13:46 65.9	01/07/2011 22:56 60.4	03/07/2011 12:06 62.2	03/07/2011 21:16 61.1	05/07/2011 22:26 60.4
30/06/2011 20:41 62.2	01/07/2011 13:51 67.5	02/07/2011 19:01 63.3	03/07/2011 12:11 62.7	03/07/2011 21:21 61.0	05/07/2011 22:31 60.5
30/06/2011 20:46 62.0	01/07/2011 13:56 64.8	02/07/2011 19:06 62.6	03/07/2011 12:16 64.6	03/07/2011 21:26 61.4	05/07/2011 22:36 60.9
30/06/2011 20:51 62.5	01/07/2011 14:01 63.7	02/07/2011 19:11 62.6	03/07/2011 12:21 63.4	03/07/2011 21:31 61.4	05/07/2011 22:41 59.9
30/06/2011 20:56 62.5	01/07/2011 14:06 62.1	02/07/2011 19:16 62.8	03/07/2011 12:26 61.2	03/07/2011 21:36 61.1	05/07/2011 22:46 60.3
30/06/2011 21:01 62.3	01/07/2011 14:11 62.6	02/07/2011 19:21 63.0	03/07/2011 12:31 62.3	03/07/2011 21:41 62.2	05/07/2011 22:51 60.5
30/06/2011 21:06 62.3	01/07/2011 14:16 63.5	02/07/2011 19:26 63.0	03/07/2011 12:36 61.2	03/07/2011 21:46 61.2	05/07/2011 22:56 60.4
30/06/2011 21:11 61.7	01/07/2011 14:21 64.0	02/07/2011 19:31 67.0	03/07/2011 12:41 62.0	03/07/2011 21:51 61.4	06/07/2011 19:51 60.3
30/06/2011 21:16 62.0	01/07/2011 14:26 63.4	02/07/2011 19:36 63.1	03/07/2011 12:46 61.8	03/07/2011 21:56 60.9	06/07/2011 19:06 66.1
30/06/2011 21:21 61.9	01/07/2011 14:31 62.7	02/07/2011 19:41 62.6	03/07/2011 12:51 61.6	03/07/2011 22:01 61.3	06/07/2011 19:11 66.2
30/06/2011 21:26 61.4	01/07/2011 14:36 64.0	02/07/2011 19:46 62.2	03/07/2011 12:56 62.2	03/07/2011 22:06 60.6	06/07/2011 19:16 62.6
30/06/2011 21:31 62.0	01/07/2011 14:41 63.4	02/07/2011 19:51 62.4	03/07/2011 13:01 62.0	03/07/2011 22:11 61.4	06/07/2011 19:21 62.4
30/06/2011 21:36 61.6	01/07/2011 14:46 64.6	02/07/2011 19:56 62.2	03/07/2011 13:06 61.7	03/07/2011 22:16 61.0	06/07/2011 19:26 62.5
30/06/2011 21:41 61.8	01/07/2011 14:51 64.0	02/07/2011 20:01 62.6	03/07/2011 13:11 62.9	03/07/2011 22:21 61.3	06/07/2011 19:31 62.6
30/06/2011 21:46 61.8	01/07/2011 14:56 63.0	02/07/2011 20:06 62.3	03/07/2011 13:16 64.0	03/07/2011 22:26 61.9	06/07/2011 19:36 61.8
30/06/2011 21:51 61.9	01/07/2011 15:01 62.3	02/07/2011 20:11 62.2	03/07/2011 13:21 64.0	03/07/2011 22:31 61.3	06/07/2011 19:41 62.4
30/06/2011 21:56 61.6	01/07/2011 15:06 62.3	02/07/2011 20:16 62.4	03/07/2011 13:26 65.0	03/07/2011 22:36 61.1	06/07/2011 19:46 62.5
30/06/2011 22:01 61.7	01/07/2011 15:11 61.8	02/07/2011 20:21 62.3	03/07/2011 13:31 64.9	03/07/2011 22:41 61.5	06/07/2011 19:51 62.1</

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

06/07/2011 22:41 60.7	09/07/2011 19:51 64.2	10/07/2011 13:01 64.0	10/07/2011 22:11 61.6	13/07/2011 19:21 65.4	15/07/2011 20:31 66.2
06/07/2011 22:46 59.9	09/07/2011 19:56 62.6	10/07/2011 13:06 62.8	10/07/2011 22:16 61.5	13/07/2011 19:26 66.3	15/07/2011 20:36 66.1
06/07/2011 22:51 60.2	09/07/2011 20:01 62.1	10/07/2011 13:11 62.7	10/07/2011 22:21 62.4	13/07/2011 19:31 65.3	15/07/2011 20:41 65.7
06/07/2011 22:56 60.0	09/07/2011 20:06 64.0	10/07/2011 13:16 62.4	10/07/2011 22:26 63.0	13/07/2011 19:36 65.6	15/07/2011 20:46 65.8
07/07/2011 19:01 63.9	09/07/2011 20:11 62.3	10/07/2011 13:21 62.6	10/07/2011 22:31 63.3	13/07/2011 19:41 64.9	15/07/2011 20:51 65.9
07/07/2011 19:06 64.4	09/07/2011 20:16 63.0	10/07/2011 13:26 63.4	10/07/2011 22:36 63.9	13/07/2011 19:46 65.5	15/07/2011 20:56 66.2
07/07/2011 19:11 63.5	09/07/2011 20:21 62.3	10/07/2011 13:31 62.3	10/07/2011 22:41 63.5	13/07/2011 19:51 65.1	15/07/2011 21:01 65.5
07/07/2011 19:16 63.7	09/07/2011 20:26 62.3	10/07/2011 13:36 63.2	10/07/2011 22:46 63.6	13/07/2011 19:56 65.2	15/07/2011 21:06 65.3
07/07/2011 19:21 64.2	09/07/2011 20:31 62.7	10/07/2011 13:41 62.8	10/07/2011 22:51 63.3	13/07/2011 20:01 66.2	15/07/2011 21:11 65.3
07/07/2011 19:26 64.2	09/07/2011 20:36 62.6	10/07/2011 13:46 62.6	10/07/2011 22:56 63.6	13/07/2011 20:06 66.0	15/07/2011 21:16 65.3
07/07/2011 19:31 63.7	09/07/2011 20:41 62.9	10/07/2011 13:51 62.5	11/07/2011 19:01 67.9	13/07/2011 20:11 66.3	15/07/2011 21:21 65.2
07/07/2011 19:36 64.2	09/07/2011 20:46 62.4	10/07/2011 13:56 62.2	11/07/2011 19:06 66.8	13/07/2011 20:16 65.6	15/07/2011 21:26 65.2
07/07/2011 19:41 63.1	09/07/2011 20:51 62.3	10/07/2011 14:01 63.3	11/07/2011 19:11 65.9	13/07/2011 20:21 65.7	15/07/2011 21:31 65.2
07/07/2011 19:46 62.9	09/07/2011 20:56 61.9	10/07/2011 14:06 62.8	11/07/2011 19:16 64.4	13/07/2011 20:26 66.1	15/07/2011 21:36 65.6
07/07/2011 19:51 63.2	09/07/2011 21:01 62.2	10/07/2011 14:11 63.5	11/07/2011 19:21 63.7	13/07/2011 20:31 65.8	15/07/2011 21:41 64.3
07/07/2011 19:56 63.3	09/07/2011 21:06 61.9	10/07/2011 14:16 62.3	11/07/2011 19:26 64.9	13/07/2011 20:36 65.4	15/07/2011 21:46 62.6
07/07/2011 20:01 63.0	09/07/2011 21:11 62.4	10/07/2011 14:21 64.9	11/07/2011 19:31 64.1	13/07/2011 20:41 65.3	15/07/2011 21:51 63.3
07/07/2011 20:06 62.2	09/07/2011 21:16 63.1	10/07/2011 14:26 66.3	11/07/2011 19:36 63.2	13/07/2011 20:46 65.6	15/07/2011 21:56 62.7
07/07/2011 20:11 62.2	09/07/2011 21:21 62.1	10/07/2011 14:31 62.2	11/07/2011 19:41 63.1	13/07/2011 20:51 66.3	15/07/2011 22:01 62.4
07/07/2011 20:16 61.8	09/07/2011 21:26 62.8	10/07/2011 14:36 63.0	11/07/2011 19:46 63.4	13/07/2011 20:56 65.6	15/07/2011 22:06 63.0
07/07/2011 20:21 62.1	09/07/2011 21:31 62.9	10/07/2011 14:41 63.2	11/07/2011 19:51 62.2	13/07/2011 21:01 65.5	15/07/2011 22:11 65.4
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08/07/2011 21:01 62.8	10/07/2011 10:11 63.8	10/07/2011 19:21 62.4	12/07/2011 20:31 62.2	14/07/2011 21:41 65.8	16/07/2011 22:51 61.7</

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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17/07/2011 13:56 65.8	18/07/2011 19:06 64.0	20/07/2011 20:16 64.0	22/07/2011 21:26 61.8	24/07/2011 10:36 64.3	24/07/2011 19:46 61.3
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17/07/2011 14:06 65.0	18/07/2011 19:16 63.1	20/07/2011 20:26 63.5	22/07/2011 21:36 61.4	24/07/2011 10:46 64.5	24/07/2011 19:56 61.8
17/07/2011 14:11 66.5	18/07/2011 19:21 63.1	20/07/2011 20:31 63.6	22/07/2011 21:41 61.1	24/07/2011 10:51 62.4	24/07/2011 20:01 61.1
17/07/2011 14:16 65.4	18/07/2011 19:26 63.1	20/07/2011 20:36 63.3	22/07/2011 21:46 61.7	24/07/2011 10:56 62.5	24/07/2011 20:06 61.7
17/07/2011 14:21 66.4	18/07/2011 19:31 63.5	20/07/2011 20:41 63.3	22/07/2011 21:51 61.4	24/07/2011 11:01 62.7	24/07/2011 20:11 61.3
17/07/2011 14:26 65.8	18/07/2011 19:36 63.3	20/07/2011 20:46 63.5	22/07/2011 21:56 61.6	24/07/2011 11:06 62.4	24/07/2011 20:16 61.6
17/07/2011 14:31 65.8	18/07/2011 19:41 63.2	20/07/2011 20:51 63.0	22/07/2011 22:01 61.6	24/07/2011 11:11 62.9	24/07/2011 20:21 61.3
17/07/2011 14:36 66.0	18/07/2011 19:46 62.6	20/07/2011 20:56 63.4	22/07/2011 22:06 61.5	24/07/2011 11:16 63.1	24/07/2011 20:26 62.0
17/07/2011 14:41 65.4	18/07/2011 19:51 63.9	20/07/2011 21:01 63.6	22/07/2011 22:11 62.5	24/07/2011 11:21 63.0	24/07/2011 20:31 61.8
17/07/2011 14:46 65.0	18/07/2011 19:56 62.7	20/07/2011 21:06 64.1	22/07/2011 22:16 62.0	24/07/2011 11:26 62.5	24/07/2011 20:36 61.7
17/07/2011 14:51 64.7	18/07/2011 20:01 63.1	20/07/2011 21:11 64.8	22/07/2011 22:21 61.5	24/07/2011 11:31 63.1	24/07/2011 20:41 61.4
17/07/2011 14:56 65.1	18/07/2011 20:06 63.0	20/07/2011 21:16 63.1	22/07/2011 22:26 61.3	24/07/2011 11:36 63.2	24/07/2011 20:46 60.7
17/07/2011 15:01 65.0	18/07/2011 20:11 63.4	20/07/2011 21:21 63.4	22/07/2011 22:31 61.6	24/07/2011 11:41 62.9	24/07/2011 20:51 61.2
17/07/2011 15:06 64.9	18/07/2011 20:16 62.8	20/07/2011 21:26 63.5	22/07/2011 22:36 61.8	24/07/2011 11:46 62.8	24/07/2011 20:56 61.1
17/07/2011 15:11 65.1	18/07/2011 20:21 63.0	20/07/2011 21:31 64.1	22/07/2011 22:41 61.0	24/07/2011 11:51 63.2	24/07/2011 21:01 61.0
17/07/2011 15:16 65.4	18/07/2011 20:26 62.8	20/07/2011 21:36 63.4	22/07/2011 22:46 62.5	24/07/2011 11:56 64.6	24/07/2011 21:06 61.4
17/07/2011 15:21 65.3	18/07/2011 20:31 62.9	20/07/2011 21:41 62.8	22/07/2011 22:51 62.3	24/07/2011 12:01 63.7	24/07/2011 21:11 61.7
17/07/2011 15:26 65.0	18/07/2011 20:36 63.7	20/07/2011 21:46 63.2	22/07/2011 22:56 61.9	24/07/2011 12:06 62.3	24/07/2011 21:16 61.0
17/07/2011 15:31 65.0	18/07/2011 20:41 62.9	20/07/2011 21:51 62.9	23/07/2011 19:01 62.8	24/07/2011 12:11 61.7	24/07/2011 21:21 61.1
17/07/2011 15:36 65.2	18/07/2011 20:46 62.9	20/07/2011 21:56 63.0	23/07/2011 19:06 62.2	24/07/2011 12:16 62.1	24/07/2011 21:26 61.0
17/07/2011 15:41 64.8	18/07/2011 20:51 63.2	20/07/2011 22:01 63.1	23/07/2011 19:11 62.7	24/07/2011 12:21 62.0	24/07/2011 21:31 61.5
17/07/2011 15:46 64.4	18/07/2011 20:56 63.1	20/07/2011 22:06 63.3	23/07/2011 19:16 62.6	24/07/2011 12:26 63.5	24/07/2011 21:36 61.0
17/07/2011 15:51 65.5	18/07/2011 21:01 62.1	20/07/2011 22:11 63.4	23/07/2011 19:21 62.8	24/07/2011 12:31 62.3	24/07/2011 21:41 60.9
17/07/2011 15:56 67.2	18/07/2011 21:06 64.4	20/07/2011 22:16 63.1	23/07/2011 19:26 62.2	24/07/2011 12:36 61.8	24/07/2011 21:46 60.9
17/07/2011 16:01 66.8	18/07/2011 21:11 63.4	20/07/2011 22:21 62.8	23/07/2011 19:31 62.9	24/07/2011 12:41 61.7	24/07/2011 21:51 61.1</

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

25/07/2011 20:41 62.5	27/07/2011 21:51 61.0	28/06/2011 23:51 61.7	30/06/2011 01:01 55.2	01/07/2011 02:11 59.5	02/07/2011 03:21 55.8
25/07/2011 20:46 62.1	27/07/2011 21:56 61.7	28/06/2011 23:56 61.4	30/06/2011 01:06 52.4	01/07/2011 02:16 59.5	02/07/2011 03:26 55.0
25/07/2011 20:51 62.5	27/07/2011 22:01 61.2	29/06/2011 00:01 61.3	30/06/2011 01:11 55.2	01/07/2011 02:21 59.5	02/07/2011 03:31 56.9
25/07/2011 20:56 62.5	27/07/2011 22:06 62.7	29/06/2011 00:06 61.9	30/06/2011 01:16 51.9	01/07/2011 02:26 59.4	02/07/2011 03:36 56.0
25/07/2011 21:01 62.2	27/07/2011 22:11 61.9	29/06/2011 00:11 61.1	30/06/2011 01:21 53.7	01/07/2011 02:31 47.9	02/07/2011 03:41 55.8
25/07/2011 21:06 61.7	27/07/2011 22:16 62.4	29/06/2011 00:16 38.5	30/06/2011 01:26 61.4	01/07/2011 02:36 59.9	02/07/2011 03:46 56.2
25/07/2011 21:11 61.2	27/07/2011 22:21 61.3	29/06/2011 00:21 60.8	30/06/2011 01:31 61.3	01/07/2011 02:41 60.2	02/07/2011 03:51 54.7
25/07/2011 21:16 64.5	27/07/2011 22:26 61.2	29/06/2011 00:26 61.4	30/06/2011 01:36 60.8	01/07/2011 02:46 58.9	02/07/2011 03:56 55.5
25/07/2011 21:21 61.3	27/07/2011 22:31 61.4	29/06/2011 00:31 61.8	30/06/2011 01:41 61.0	01/07/2011 02:51 59.2	02/07/2011 04:01 55.7
25/07/2011 21:26 62.1	27/07/2011 22:36 61.0	29/06/2011 00:36 60.5	30/06/2011 01:46 60.3	01/07/2011 02:56 59.3	02/07/2011 04:06 55.1
25/07/2011 21:31 61.9	27/07/2011 22:41 61.3	29/06/2011 00:41 61.1	30/06/2011 01:51 59.5	01/07/2011 03:01 59.2	02/07/2011 04:11 55.8
25/07/2011 21:36 61.3	27/07/2011 22:46 60.9	29/06/2011 00:46 60.9	30/06/2011 01:56 60.6	01/07/2011 03:06 58.2	02/07/2011 04:16 56.3
25/07/2011 21:41 61.3	27/07/2011 22:51 60.7	29/06/2011 00:51 60.7	30/06/2011 02:01 60.0	01/07/2011 03:11 59.7	02/07/2011 04:21 56.7
25/07/2011 21:46 61.4	27/07/2011 22:56 61.1	29/06/2011 00:56 60.5	30/06/2011 02:06 59.4	01/07/2011 03:16 59.5	02/07/2011 04:26 58.0
25/07/2011 21:51 61.6		29/06/2011 01:01 60.5	30/06/2011 02:11 60.0	01/07/2011 03:21 59.1	02/07/2011 04:31 58.3
25/07/2011 21:56 61.1	Night-time 23:00-07:00	29/06/2011 01:06 59.9	30/06/2011 02:16 59.9	01/07/2011 03:26 59.5	02/07/2011 04:36 57.7
25/07/2011 22:01 61.1	28/06/2011 00:01 60.8	29/06/2011 01:11 59.7	30/06/2011 02:21 60.2	01/07/2011 03:31 59.2	02/07/2011 04:41 58.1
25/07/2011 22:06 60.9	28/06/2011 00:06 61.1	29/06/2011 01:16 60.0	30/06/2011 02:26 59.9	01/07/2011 03:36 59.1	02/07/2011 04:46 56.3
25/07/2011 22:11 61.3	28/06/2011 00:11 61.1	29/06/2011 01:21 60.4	30/06/2011 02:31 59.3	01/07/2011 03:41 59.4	02/07/2011 04:51 57.7
25/07/2011 22:16 61.1	28/06/2011 00:16 60.9	29/06/2011 01:26 59.5	30/06/2011 02:36 59.5	01/07/2011 03:46 59.2	02/07/2011 04:56 57.7
25/07/2011 22:21 62.3	28/06/2011 00:21 60.5	29/06/2011 01:31 60.2	30/06/2011 02:41 59.4	01/07/2011 03:51 58.7	02/07/2011 05:01 57.7
25/07/2011 22:26 61.6	28/06/2011 00:26 60.1	29/06/2011 01:36 59.7	30/06/2011 02:46 59.7	01/07/2011 03:56 58.8	02/07/2011 05:06 56.7
25/07/2011 22:31 61.1	28/06/2011 00:31 61.0	29/06/2011 01:41 60.0	30/06/2011 02:51 59.8	01/07/2011 04:01 60.0	02/07/2011 05:11 57.8
25/07/2011 22:36 61.9	28/06/2011 00:36 60.1	29/06/2011 01:46 59.5	30/06/2011 02:56 61.0	01/07/2011 04:06 58.8	02/07/2011 05:16 57.2
25/07/2011 22:41 60.6	28/06/2011 00:41 60.2	29/06/2011 01:51 59.6	30/06/2011 03:01 59.0	01/07/2011 04:11 58.7	02/07/2011 05:21 57.6
25/07/2011 22:46 60.8	28/06/2011 00:46 59.7	29/06/2011 01:56 60.2	30/06/2011 03:06 59.3	01/07/2011 04:16 58.8	02/07/2011 05:26 57.5
25/07/2011 22:51 61.1	28/06/2011 00:51 59.7	29/06/2011 02:01 59.8	30/06/2011 03:11 59.0	01/07/2011 04:21 58.9	02/07/2011 05:31 58.0
25/07/2011 22:56 60.6	28/06/2011 00:56 59.5	29/06/2011 02:06 59.3	30/06/2011 03:16 59.5	01/07/2011 04:26 59.9	02/07/2011 05:36 58.3
26/07/2011 19:01 64.7	28/06/2011 01:01 59.5	29/06/2011 02:11 59.2	30/06/2011 03:21 59.4	01/07/2011 04:31 59.7	02/07/2011 05:41 57.9
26/07/2011 19:06 67.6	28/06/2011 01:06 59.8	29/06/2011 02:16 59.8	30/06/2011 03:26 58.6	01/07/2011 04:36 60.0	02/07/2011 05:46 59.8
26/07/2011 19:11 63.8	28/06/2011 01:11 59.0	29/06/2011 02:21 58.6	30/06/2011 03:31 57.9	01/07/2011 04:41 59.8	02/07/2011 05:51 61.5
26/07/2011 19:16 63.6	28/06/2011 01:16 59.4	29/06/2011 02:26 59.6	30/06/2011 03:36 58.3	01/07/2011 04:46 59.6	02/07/2011 05:56 53.2
26/07/2011 19:21 62.8	28/06/2011 01:21 59.0	29/06/2011 02:31 59.1	30/06/2011 03:41 58.1	01/07/2011 04:51 59.6	02/07/2011 06:01 59.3
26/07/2011 19:26 63.5	28/06/2011 01:26 59.4	29/06/2011 02:36 59.6	30/06/2011 03:46 57.6	01/07/2011 04:56 59.9	02/07/2011 06:06 59.8
26/07/2011 19:31 62.7	28/06/2011 01:31 58.7	29/06/2011 02:41 59.2	30/06/2011 03:51 57.9	01/07/2011 05:01 59.3	02/07/2011 06:11 60.0
26/07/2011 19:36 64.4	28/06/2011 01:36 60.1	29/06/2011 02:46 59.1	30/06/2011 03:56 58.4	01/07/2011 05:06 59.4	02/07/2011 06:16 59.7
26/07/2011 19:41 64.0	28/06/2011 01:41 59.0	29/06/2011 02:51 59.7	30/06/2011 04:01 58.2	01/07/2011 05:11 61.5	02/07/2011 06:21 61.1
26/07/2011 19:46 63.9	28/06/2011 01:46 59.2	29/06/2011 02:56 58.8	30/06/2011 04:06 59.2	01/07/2011 05:16 59.5	02/07/2011 06:26 61.4
26/07/2011 19:51 63.1	28/06/2011 01:51 58.6	29/06/2011 03:01 58.4	30/06/2011 04:11 56.9	01/07/2011 05:21 59.6	02/07/2011 06:31 60.3
26/07/2011 19:56 62.9	28/06/2011 01:56 58.9	29/06/2011 03:06 58.1	30/06/2011 04:16 59.5	01/07/2011 05:26 58.8	02/07/2011 06:36 60.8
26/07/2011 20:01 63.0	28/06/2011 02:01 58.7	29/06/2011 03:11 58.9	30/06/2011 04:21 59.3	01/07/2011 05:31 59.5	02/07/2011 06:41 60.8
26/07/2011 20:06 64.1	28/06/2011 02:06 58.3	29/06/2011 03:16 59.0	30/06/2011 04:26 59.4	01/07/2011 05:36 61.5	02/07/2011 06:46 42.5
26/07/2011 20:11 63.5	28/06/2011 02:11 58.6	29/06/2011 03:21 58.0	30/06/2011 04:31 59.8	01/07/2011 05:41 59.4	02/07/2011 06:51 50.2
26/07/2011 20:16 63.0	28/06/2011 02:16 59.7	29/06/2011 03:26 57.9	30/06/2011 04:36 59.4	01/07/2011 05:46 55.8	02/07/2011 06:56 45.1
26/07/2011 20:21 62.7	28/06/2011 02:21 59.4	29/06/2011 03:31 58.7	30/06/2011 04:41 59.9	01/07/2011 05:51 61.1	02/07/2011 23:01 44.6
26/07/2011 20:26 62.6	28/06/2011 02:26 58.2	29/06/2011 03:36 58.0	30/06/2011 04:46 60.3	01/07/2011 05:56 61.5	02/07/2011 23:06 61.6
26/07/2011 20:31 62.2	28/06/2011 02:31 58.2	29/06/2011 03:41 58.9	30/06/2011 04:51 59.8	01/07/2011 06:01 61.1	02/07/2011 23:11 61.5
26/07/2011 20:36 63.0	28/06/2011 02:36 58.2	29/06/2011 03:46 57.9	30/06/2011 04:56 59.5	01/07/2011 06:06 60.1	02/07/2011 23:16 61.4
26/07/2011 20:41 62.3	28/06/2011 02:41 58.1	29/06/2011 03:51 58.6	30/06/2011 05:01 59.9	01/07/2011 06:11 60.4	02/07/2011 23:21 61.3
26/07/2011 20:46 62.4	28/06/2011 02:46 57.8	29/06/2011 03:56 58.1	30/06/2011 05:06 59.4	01/07/2011 06:16 61.3	02/07/2011 23:26 61.5
26/07/2011 20:51 62.3	28/06/2011 02:51 58.2	29/06/2011 04:01 58.6	30/06/2011 05:11 60.6	01/07/2011 06:21 60.5	02/07/2011 23:31 61.4
26/07/2011 20:56 62.4	28/06/2011 02:56 57.4	29/06/2011 04:06 58.8	30/06/2011 05:16 59.1	01/07/2011 06:26 61.2	02/07/2011 23:36 61.5
26/07/2011 21:01 62.3	28/06/2011 03:01 57.9	29/06/2011 04:11 59.4	30/06/2011 05:21 60.2	01/07/2011 06:31 61.0	02/07/2011 23:41 41.6
26/07/2011 21:06 62.0	28/06/2011 03:06 58.2	29/06/2011 04:16 57.9	30/06/2011 05:26 59.5	01/07/2011 06:36 60.2	02/07/2011 23:46 61.6
26/07/2011 21:11 62.5	28/06/2011 03:11 58.1	29/06/2011 04:21 58.6	30/06/2011 05:31 59.1	01/07/2011 06:41 61.1	02/07/2011 23:51 61.2
26/07/2011 21:16 62.1	28/06/2011 03:16 57.6	29/06/2011 04:26 57.4	30/06/2011 05:36 60.4	01/07/2011 06:46 61.0	02/07/2011 23:56 61.9
26/07/2011 21:21 61.9	28/06/2011 03:21 58.1	29/06/2011 04:31 59.4	30/06/2011 05:41 60.2	01/07/2011 06:51 60.2	03/07/2011 00:01 61.5
26/07/2011 21:26 62.3	28/06/2011 03:26 57.8	29/06/2011 04:36 59.7	30/06/2011 05:46 61.2	01/07/2011 06:56 61.0	03/07/2011 00:06 44.6
26/07/2011 21:31 61.6	28/06/2011 03:31 58.4	29/06/2011 04:41 59.5	30/06/2011 05:51 63.3	01/07/2011 23:01 61.2	03/07/2011 00:11 61.4
26/07/2011 21:36 63.5	28/06/2011 03:36 58.6	29/06/2011 04:46 59.2	30/06/2011 05:56 61.0	01/07/2011 23:06 60.7	03/07/2011 00:16 45.6
26/07/2011 21:41 62.5	28/06/2011 03:41 59.1	29/06/2011 04:51 59.5	30/06/2011 06:01 50.9	01/07/2011 23:11 60.1	03/07/2011 00:21 61.7
26/07/2011 21:46 62.4	28/06/2011 03:46 57.5	29/06/2011 04:56 60.1	30/06/2011 06:06 48.7	01/07/2011 23:16 60.6	03/07/2011 00:26 61.9
26/07/2011 21:51 62.6	28/06/2011 03:51 57.3	29/06/2011 05:01 58.9	30/06/2011 06:11 61.3	01/07/2011 23:21 60.7	03/07/2011 00:31 61.2
26/07/2011 21:56 62.5	28/06/2011 03:56 58.1	29/06/2011 05:06 59.4	30/06/2011 06:16 61.0	01/07/2011 23:26 61.3	03/07/2011 00:36 60.8
26/07/2011 22:01 61.9	28/06/2011 04:01 58.3	29/06/2011 05:11 58.9	30/06/2011 06:21 56.1	01/07/2011 23:31 60.4	03/07/2011 00:41 60.7
26/07/2011 22:06 62.6	28/06/2011 04:06 59.2	29/06/2011 05:16 59.1	30/06/2011 06:26 51.5	01/07/2011 23:36 60.8	03/07/2011 00:46 61.0
26/07/2011 22:11 61.9	28/06/2011 04:11 59.4	29/06/2011 05:21 60.2	30/06/2011 06:31 53.1	01/07/2011 23:41 60.6	03/07/2011 00:51 60.5
26/07/2011 22:16 61.7	28/06/2011 04:16 59.0	29/06/2011 05:26 60.6	30/06/2011 06:36 35.4	01/07/2011 23:46 60.3	03/07/2011 00:56 60.7
26/07/2011 22:21 62.9	28/06/2011 04:21 58.8	29/06/2011 05:31 60.3	30/06/2011 06:41 55.2	01/07/2011 23:51 60.0	03/07/2011 01:01 61.6
26/07/2011 22:26 61.4	28/06/2011 04:26 58.3	29/06/2011 05:36 60.0	30/06/2011 06:46 59.1	01/07/2011 23:56 59.4	03/07/2011 01:06 59.9
26/07/2011 22:31 61.7	28/06/2011 04:31 58.7	29/06/2011 05:41 61.0	30/06/2011 06:51 58.8	02/07/2011 00:01 59.7	03/07/2011 01:11 60.1
26/07/2011 22:36 61.5	28/06/2011 04:36 58.6	29/06/2011 05:46 61.7	30/06/2011 06:56 59.0	02/07/2011 00:06 59.7	03/07/2011 01:16 60.6
26/07/2011 22:41 61.8	28/06/2011 04:41 58.3	29/06/2011 05:51 60.5	30/06/2011 23:01 44.6	02/07/2011 00:11 60.6	03/07/2011 01:21 60.1
26/07/2011 22:46 61.5	28/06/2011 04:46 58.1	29/06/2011 05:56 60.1	30/06/2011 23:06 61.6	02/07/2011 00:16 60.0	03/07/2011 01:26 60.9
26/07/2011 22:51 61.3	28/06/2011 04:51 57.9	29/06/2011 06:01 53.7	30/06/2011 23:11 61.5	02/07/2011 00:21 60.5	03/07/2011 01:31 60.0
26/07/2011 22:56 61.9	28/06/2011 04:56 58.4	29/06/2011 06:06 61.7	30/06/2011 23:16 61.4	02/07/2011 00:26 60.2	03/07/2011 01:36 59.7
27/07/2011 19:01 64.9	28/06/2011 05:01 59.5	29/06/2011 06:11 52.8	30/06/2011 23:21 61.3	02/07/2011 00:31 59.2	03/07/2011 01:41 60.4
27/07/2011 19:06 64.7					

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

03/07/2011 04:31 59.7	04/07/2011 05:41 57.9	05/07/2011 06:51 53.2	07/07/2011 00:01 60.9	08/07/2011 01:11 58.6	09/07/2011 02:21 59.5
03/07/2011 04:36 60.0	04/07/2011 05:46 59.8	05/07/2011 06:56 42.5	07/07/2011 00:06 59.9	08/07/2011 01:16 59.3	09/07/2011 02:26 59.4
03/07/2011 04:41 59.8	04/07/2011 05:51 61.5	05/07/2011 07:01 59.8	07/07/2011 00:11 60.2	08/07/2011 01:21 58.8	09/07/2011 02:31 59.6
03/07/2011 04:46 59.6	04/07/2011 05:56 53.2	05/07/2011 23:06 60.5	07/07/2011 00:16 60.1	08/07/2011 01:26 58.7	09/07/2011 02:36 52.0
03/07/2011 04:51 59.6	04/07/2011 06:01 59.3	05/07/2011 23:11 59.9	07/07/2011 00:21 60.3	08/07/2011 01:31 57.7	09/07/2011 02:41 58.9
03/07/2011 04:56 59.9	04/07/2011 06:06 59.8	05/07/2011 23:16 60.4	07/07/2011 00:26 60.4	08/07/2011 01:36 59.1	09/07/2011 02:46 59.1
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

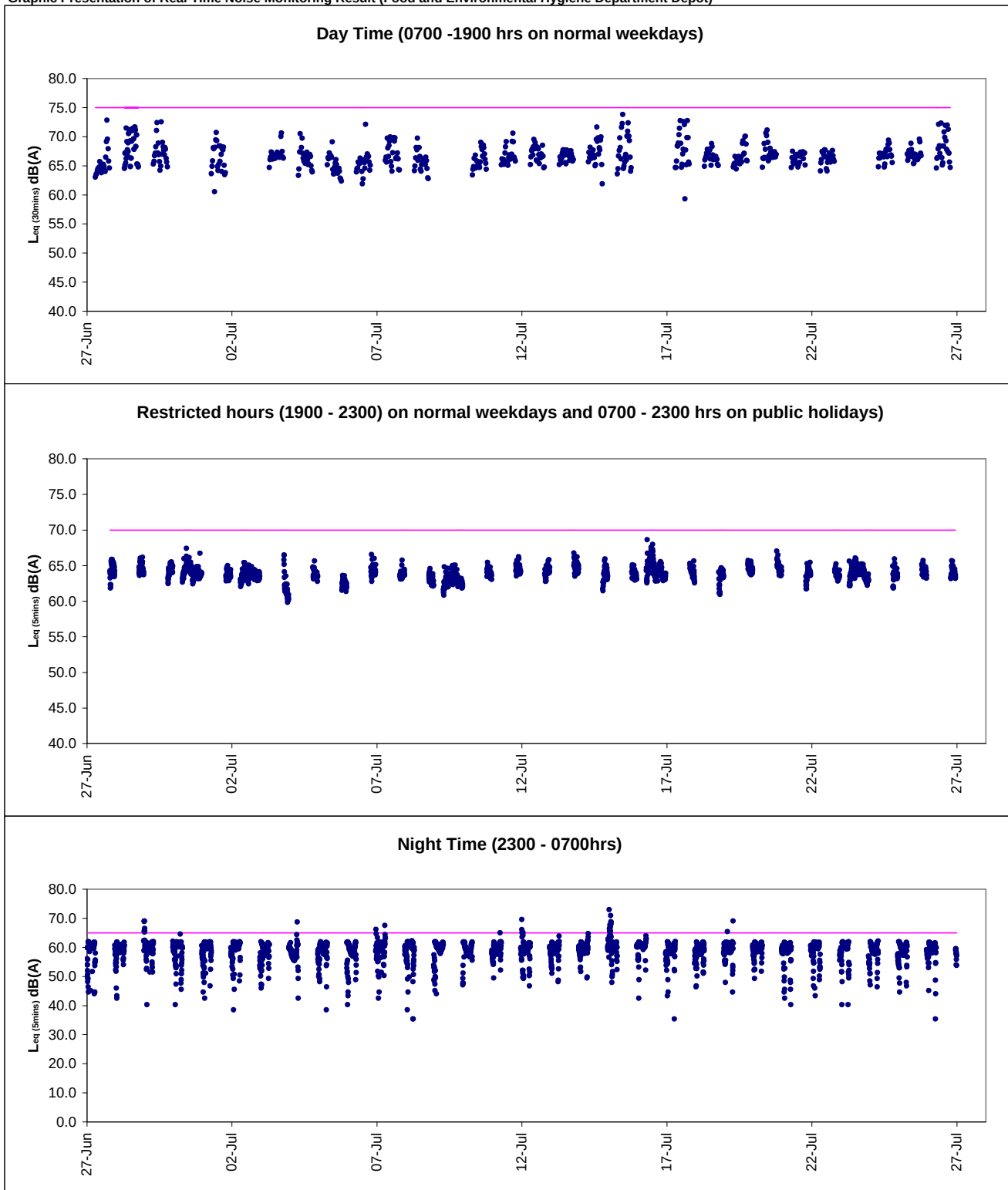
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18/07/2011 00:26 60.8	19/07/2011 01:36 58.7	20/07/2011 02:46 58.8	21/07/2011 03:56 59.0	22/07/2011 05:06 56.0	23/07/2011 06:16 61.9
18/07/2011 00:31 61.1	19/07/2011 01:41 58.2	20/07/2011 02:51 59.4	21/07/2011 04:01 59.6	22/07/2011 05:11 56.7	23/07/2011 06:21 60.3
18/07/2011 00:36 61.2	19/07/2011 01:46 58.2	20/07/2011 02:56 58.5	21/07/2011 04:06 59.0	22/07/2011 05:16 57.7	23/07/2011 06:26 60.3
18/07/2011 00:41 60.7	19/07/2011 01:51 58.5	20/07/2011 03:01 58.5	21/07/2011 04:11 59.0	22/07/2011 05:21 57.9	23/07/2011 06:31 61.2
18/07/2011 00:46 60.9	19/07/2011 01:56 58.4	20/07/2011 03:06 56.8	21/07/2011 04:16 59.5	22/07/2011 05:26 57.2	23/07/2011 06:36 60.4
18/07/2011 00:51 60.3	19/07/2011 02:01 57.5	20/07/2011 03:11 58.7	21/07/2011 04:21 58.9	22/07/2011 05:31 57.3	23/07/2011 06:41 60.4</

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

24/07/2011 01:31 59.6	25/07/2011 02:41 56.5	26/07/2011 03:51 55.2
24/07/2011 01:36 59.5	25/07/2011 02:46 55.5	26/07/2011 03:56 54.8
24/07/2011 01:41 59.4	25/07/2011 02:51 55.1	26/07/2011 04:01 56.6
24/07/2011 01:46 58.7	25/07/2011 02:56 55.9	26/07/2011 04:06 54.7
24/07/2011 01:51 58.9	25/07/2011 03:01 55.6	26/07/2011 04:11 55.8
24/07/2011 01:56 59.2	25/07/2011 03:06 56.0	26/07/2011 04:16 55.7
24/07/2011 02:01 59.7	25/07/2011 03:11 54.8	26/07/2011 04:21 55.3
24/07/2011 02:06 59.3	25/07/2011 03:16 55.6	26/07/2011 04:26 55.8
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24/07/2011 03:31 57.8	25/07/2011 04:41 56.2	26/07/2011 05:51 58.7
24/07/2011 03:36 57.4	25/07/2011 04:46 55.5	26/07/2011 05:56 60.1
24/07/2011 03:41 58.2	25/07/2011 04:51 57.5	26/07/2011 06:01 57.7
24/07/2011 03:46 58.3	25/07/2011 04:56 57.2	26/07/2011 06:06 61.6
24/07/2011 03:51 57.2	25/07/2011 05:01 57.3	26/07/2011 06:11 58.4
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24/07/2011 04:36 57.8	25/07/2011 05:46 59.1	26/07/2011 06:56 54.2
24/07/2011 04:41 57.0	25/07/2011 05:51 59.5	26/07/2011 23:01 61.3
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24/07/2011 04:51 57.2	25/07/2011 06:01 58.4	26/07/2011 23:11 61.7
24/07/2011 04:56 57.4	25/07/2011 06:06 68.1	26/07/2011 23:16 61.6
24/07/2011 05:01 57.5	25/07/2011 06:11 70.6	26/07/2011 23:21 61.1
24/07/2011 05:06 57.5	25/07/2011 06:16 58.9	26/07/2011 23:26 61.1
24/07/2011 05:11 57.6	25/07/2011 06:21 59.8	26/07/2011 23:31 61.0
24/07/2011 05:16 57.1	25/07/2011 06:26 60.6	26/07/2011 23:36 61.0
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24/07/2011 05:26 57.9	25/07/2011 06:36 50.5	26/07/2011 23:46 61.6
24/07/2011 05:31 57.9	25/07/2011 06:41 54.9	26/07/2011 23:51 61.3
24/07/2011 05:36 57.7	25/07/2011 06:46 63.0	26/07/2011 23:56 60.7
24/07/2011 05:41 68.9	25/07/2011 06:51 50.0	27/07/2011 00:01 60.8
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24/07/2011 06:06 60.4	25/07/2011 23:16 61.1	27/07/2011 00:26 60.2
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24/07/2011 06:56 61.0	26/07/2011 00:06 60.0	27/07/2011 01:16 58.8
24/07/2011 23:01 61.2	26/07/2011 00:11 60.4	27/07/2011 01:21 59.4
24/07/2011 23:06 60.6	26/07/2011 00:16 59.7	27/07/2011 01:26 59.0
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24/07/2011 23:16 60.4	26/07/2011 00:26 60.2	27/07/2011 01:36 58.3
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25/07/2011 00:26 60.0	26/07/2011 01:36 57.4	27/07/2011 02:46 57.7
25/07/2011 00:31 58.6	26/07/2011 01:41 57.7	27/07/2011 02:51 58.1
25/07/2011 00:36 58.8	26/07/2011 01:46 57.8	27/07/2011 02:56 58.6
25/07/2011 00:41 58.9	26/07/2011 01:51 57.8	27/07/2011 03:01 58.8
25/07/2011 00:46 59.5	26/07/2011 01:56 57.0	27/07/2011 03:06 57.2
25/07/2011 00:51 57.8	26/07/2011 02:01 57.3	27/07/2011 03:11 57.4
25/07/2011 00:56 58.8	26/07/2011 02:06 57.2	27/07/2011 03:16 57.5
25/07/2011 01:01 58.8	26/07/2011 02:11 57.1	27/07/2011 03:21 56.9
25/07/2011 01:06 58.9	26/07/2011 02:16 56.4	27/07/2011 03:26 57.7
25/07/2011 01:11 59.2	26/07/2011 02:21 56.3	27/07/2011 03:31 57.0
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25/07/2011 01:21 58.0	26/07/2011 02:31 55.6	27/07/2011 03:41 56.9
25/07/2011 01:26 58.1	26/07/2011 02:36 57.0	27/07/2011 03:46 57.6
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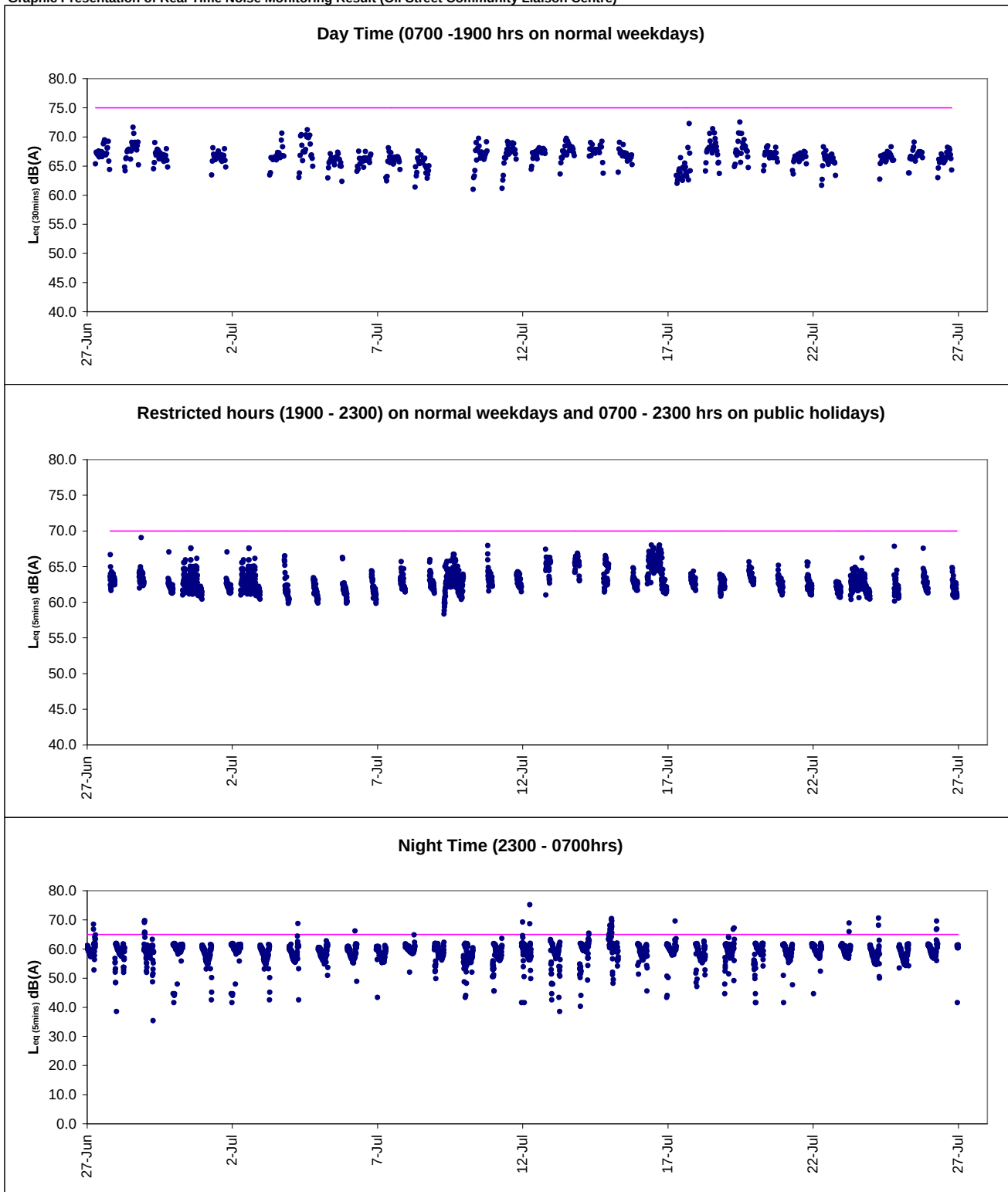
*Exceedance recorded during monitoring compliance check with NCO.

Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)



* Calibration and maintenance were conducted on 5 August 2011 during 0900 - 0930 hours

Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Centre)



* Calibration and maintenance were conducted on 7 August 2011 during 1600 - 1630 hours



Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit noise mitigation proposals to IEC and ER; 2. Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

**Event / Action Plan for Construction Air Quality**

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; 2. Repeat measurement to confirm finding; 3. Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; 2. Repeat measurement to confirm finding; 3. Increase monitoring frequency to daily; 4. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N061	19-Jul-11	16:13	M7w - IFC-Western End of Prodium	83	Leq(30-min)	when one documented complaint was received.	75	Possible reason: Sheet pilings were conducted during monitoring Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedance. The noise levels of the same location as below: 19 July 2011 16:45 77.8 dB (A) Investigation found that the repeat measurement was exceeded the limit level of construction noise criteria 75 dB (A). Notification of exceedance was immediate informed to Contractor of HY/2009/18, RE and IEC when the exceedances were recorded. During the noise monitoring on 19 July 2011, sheet piling work was observed through out the period of noise monitoring. In addition, two vibratory hammers were observed operating in the same time. Contractor had suspended the work after received the notification on the same day to review the plant operation. Contractor was advised to decrease the frequency of vibrator operation and decrease the number of plants operating in the same time to reduce the noise level. Additional monitoring was conducted on 21 July 2011 at 15:30. Sheet piling work conducted by one vibratory hammer with a lower frequency was observed during noise monitoring. No further exceedance was recorded after the mitigation measures were implemented. The noise levels of the same location as below: 21 July 2011 15:30 72 dB (A) Further investigation of the effectiveness of the mitigation measures of sheet piling was conducted intermittently on 4 August 2011 during day time no monitoring, a vibratory hammer which was operated for sheet piling works was observed during monitoring and no exceedance was recorded. The noise level of the same location as below: 4 August 2011 09:45 66.4 dB (A) Remarks / Other Obs: The limit level exceedance was related to high frequency of sheet piling work and too many plants worked on the same time.



Appendix 9.1

Complaint Log



Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed that the notice was prepared by Victoria Centre 'a Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm Monday to Saturday except Public Holidays and Sundays. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. 4) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	1) It was referred by AECOM to ET on 8 August 2011 2) The information for the complaint investigation is gathering. The complaint is under investigation and reporting next reporting month. 3) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	Under investigation
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of Central-Wanchai Bypass at noon rather than in morning at 7am.	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8m as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was	Closed

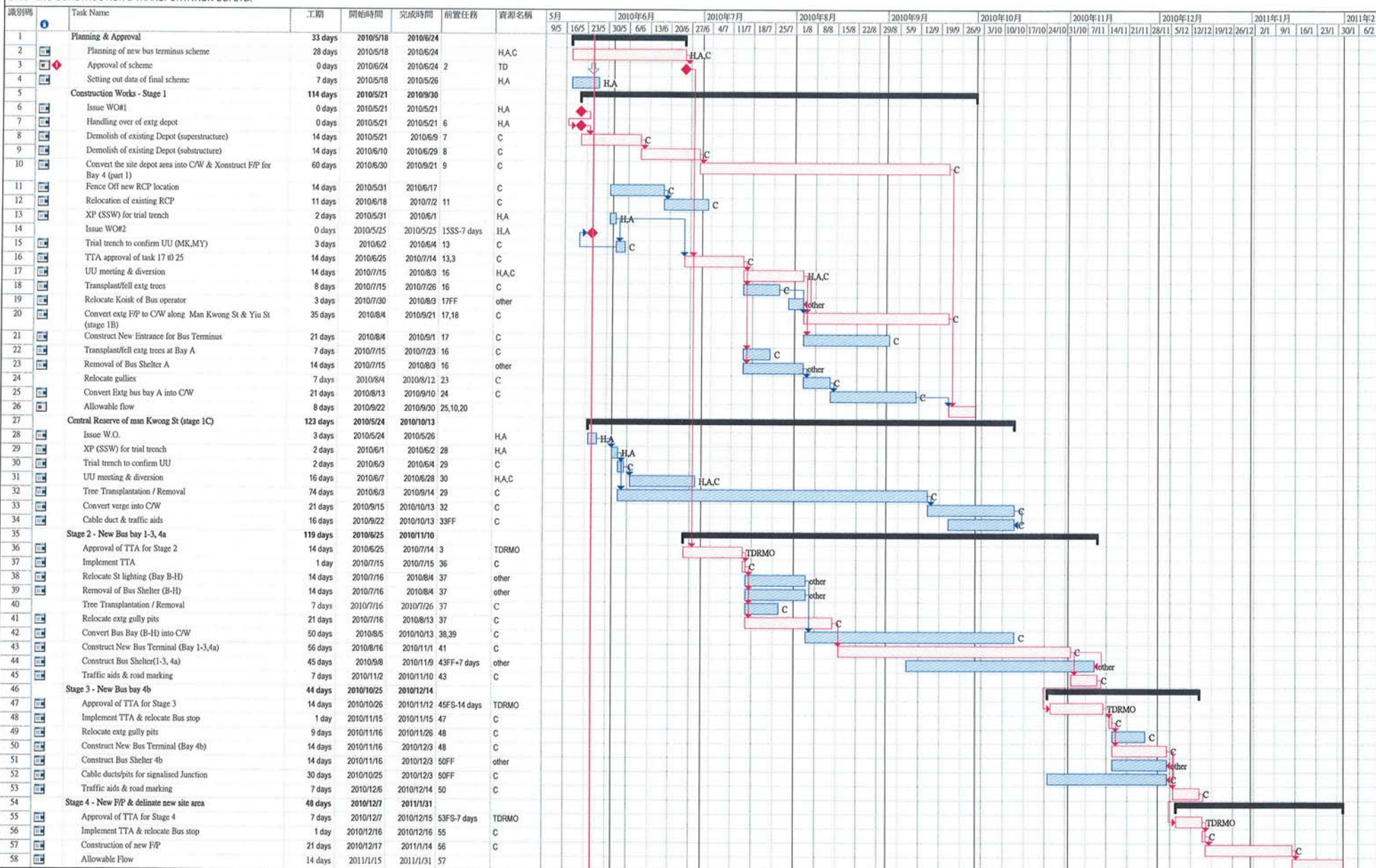


Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) The information for the complaint investigation is gathering. The complaint is under investigation and reporting next reporting month. 3) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring	Under investigation



Appendix 10.1

Construction Programme of Individual Contracts



Project: MAN KWONG ST., JO MAN YIU ST., BUS TERMINUS RELOCATION
Date: 2010/5/25
H= HIGHWAYS, A=AECOM, C=CHI HING



Contract no. HY/2009/17

Contract Title : Central - Wan Chai Bypass - FEHD Whitfield Depot Re-provisioning Works

Works Schedule for the Advance Piling Works

ACTIVITY	Duration	START	FINISH	2010							2011
				July	August	September	October	November	December	January	
<u>Submissions before Commencement of Piling Works</u>											
Notification of Commencement Date of Construction	1	16/7/2010	16/7/2010	◆							
Organization Chart of Environmental Management Team	1	16/7/2010	16/7/2010	◆							
Works Schedule	1	16/7/2010	16/7/2010	◆							
Location and Layout Plan	1	31/8/2010	31/8/2010			◆					
Construction Noise Management Plan	1	31/8/2010	31/8/2010			◆					
<u>Installation of Piles</u>											
Plants Set-up	7	24/9/2010	30/9/2010				■				
Installation of pipes E3b	70	2/10/2010	10/12/2010				■	■	■		
Installation of pipes E3a	60	2/10/2010	30/11/2010				■	■	■		
Installation of pipes E2a	60	12/10/2010	10/12/2010				■	■	■		
Installation of pipes E2b	70	14/10/2010	22/12/2010				■	■	■		
Testing	14	23/12/2010	6/1/2011							■	

DATE FOR COMMENCEMENT & COMPLETION		Early Start	Early Finish
Description	Early Start	Early Finish	
Contract Commencement	21 SEP 10	30 JUN 16 *	
Contract Construction Completion		29 JUN 17 *	
Contract DLP and Establishment Works Completion		29 JUN 17 *	
PRELIMINARIES			
Preliminary Submissions / Approvals	21 SEP 10	26 JUN 11	
Commence Site Mobilisation	29 JUN 11	29 JUN 11	
Mobilise Hoarding & Site Clearance	29 JUN 11	10 MAY 11	
PORTION IV WORKS			
CWB Tunnel CH1480 to CH1580			
Site Investigation	11 MAY 11	22 JUN 11	
Construct Guide Walls	23 JUN 11	03 SEP 11	
Construct D-Wall / Barrettes	25 JUL 11	04 MAY 12	
ELS Works	05 MAR 12	06 JUL 12	
Construct CWB Tunnel & Ventilation Building	09 JUL 12	12 MAR 13	
Works inside CWB Tunnel	13 MAR 13	12 JUL 13	
KD-8 Complete		13 OCT 13 *	
CWB Tunnel CH1580 to CH1646			
Construction Diversion for Finance Street	23 JUN 11	10 SEP 11	
East End of Finance St Closed		31 OCT 11 *	
Site Investigation	01 NOV 11	28 DEC 11	
Construct Guide Walls	03 FEB 12	19 APR 12	
Construct D-Wall / Barrettes	05 MAR 12	06 AUG 12	
ELS Works	07 AUG 12	16 NOV 12	
Construct CWB Tunnel	17 NOV 12	26 APR 13	
Works inside CWB Tunnel	27 APR 13	31 AUG 13	
KD-7 Complete		23 MAY 14 *	
CWB Tunnel CH1646 to CH1685			
Man Yiu St. Diverted (Possess Portion 11A, B)		10 APR 12 *	
Site Clearance & Divert Existing Utilities	11 APR 12	08 JUN 12	
Site Investigation	09 JUN 12	10 JUL 12	
Sheet Pile / Pipe Pile / Grouting	19 JUN 12	17 AUG 12	
Construct Guide Walls	11 JUL 12	08 AUG 12	
Construct Barrettes	09 AUG 12	06 SEP 12	
Temporary Works to Support C/W Pipes	09 JUN 12	12 SEP 12	
ELS Works	13 SEP 12	14 JUN 13	
Demolish & Reconstruct CWB Tunnel	16 OCT 12	17 APR 13	
Works inside CWB Tunnel	27 APR 13	03 JUL 13	
Surface Works			
Backfill, U/G Services, Roadworks & Landscaping	13 MAR 13	07 FEB 14	
KD-6 Complete		03 NOV 14 *	
PORTION III WORKS			
CWB Tunnel CH1685 to CH1704			
Access to CRILL Works Area		30 JUN 11 *	
Works Area within CRILL Preparation		16 SEP 11	
Site Investigation	30 JUN 11	24 SEP 11	
Construct Guide Walls	05 SEP 11	28 SEP 11	
Construct D-Wall / Barrettes (thru old seawall)	17 SEP 11	22 FEB 12	
Construct Man Yiu St. Temporary Diversion	23 FEB 12	05 APR 12	
ELS Works	18 AUG 12	01 NOV 12	
Construct CWB Tunnel (excl. road slab)	02 NOV 12	26 JUN 13	
Break into Existing CWB Tunnel	29 JUN 13	02 MAY 13	
Construct CWB Tunnel Road Slab	11 SEP 13	01 NOV 13	
Works inside CWB Tunnel	02 NOV 13	23 DEC 13	
KD-4 Complete		01 AUG 14 *	
CWB Tunnel CH1704 to CH1825			
Works inside CWB Tunnel	06 JUL 13	12 OCT 13	
CWB Tunnel CH1825 to CH2600			
Works inside CWB Tunnel	03 MAR 13	05 SEP 13	
KD-5 Complete		31 JUN 14 *	
Surface Works			
Road P1 Roadworks & Landscaping	02 NOV 13	14 APR 14	
Man Yiu St. Widening Roadworks & Landscaping	22 JUL 13	16 DEC 13	
KD-3 Complete		06 FEB 15 *	
PORTION V WORKS			
Mobilization, Set up, Utilities Diversion, Tree	29 JUN 11	10 MAY 11	
Construct Trough B Structure	11 MAY 11	07 MAR 13	
Works inside Trough B	08 MAR 13	11 JUL 13	
Portion VI Access Date	12 NOV 12 *		
Man Kwong St. W/B Widening			
Retaining Walls F & G	12 NOV 12	10 SEP 13	
Bridge B	12 NOV 12	19 JUN 14	
Trough A	20 JUL 13	26 MAR 14	
Elevated Lorry at Runney St. Flyover	18 DEC 13	01 SEP 14	
Bridge A	12 NOV 12	09 APR 14	
Open Slip Road D / Man Po St.	10 APR 14	11 NOV 14	
Retaining Walls A & B	11 APR 14	10 FEB 15	
Remaining U/G Services, Roadworks & Landscaping			
KD-10 Complete		30 JUN 16 *	
KD-16 Complete			
Landscaping Establishment (Last Area)	11 FEB 15	10 FEB 16	
KD-15 Complete		29 JUN 17 *	

Activity ID		Activity Name		Rem Dur	Start	Finish	2011																																		
							July					August				September				October																					
							0	27	04	11	18	25	01	08	15	22	29	05	12	19	26	03	10	17																	
3MRP - Jul 2011 to Oct 2011																																									
1 - CONTRACT DATES																																									
1.1 - Conditions																																									
G01_POS_00280		PMI for Section 1 of the Works		0		04-Oct-11	◆ PMI for Section 1 of																																		
1.2 - Possession of Site																																									
G01_POS_00020		Possession to Portion VIIA		0	04-Aug-11*		◆ Possession to Portion VIIA																																		
G01_POS_00030		Possession to Portion VIIB		0	04-Aug-11*		◆ Possession to Portion VIIB																																		
G01_POS_00040		Possession to Portion VIIC		0	04-Aug-11*		◆ Possession to Portion VIIC																																		
G01_POS_00050		Possession to Portion VIID		0	04-Aug-11*		◆ Possession to Portion VIID																																		
G01_POS_00060		Possession to Portion XI		0	05-Oct-11*		◆ Possession to Port																																		
1.5 - Period of Site Possession for each Portion																																									
G04_POS_00010		Portion VI		2164	20-Jan-11 A	22-Jun-17																																			
G04_POS_00020		Portion VIIA		2122	04-Aug-11	25-May-17																																			
G04_POS_00030		Portion VIIB		930	04-Aug-11	18-Feb-14																																			
G04_POS_00040		Portion VIIC		1309	04-Aug-11	04-Mar-15																																			
G04_POS_00050		Portion VIID		930	04-Aug-11	18-Feb-14																																			
G04_POS_00060		Portion XI		703	05-Oct-11	06-Sep-13																																			
2 - PRE-CONSTRUCTION WORKS																																									
2.1 - Permit & Licence Application																																									
P01_PLA_000040		Apply for XP from HyD		8	20-Jan-11 A	28-Jul-11	Apply for XP from HyD																																		
P01_PLA_000050		XP issued by HyD		0		28-Jul-11	◆ XP issued by HyD																																		
P01_PLA_000200		Dumping Permit from CEDD		128	10-Mar-11 A	25-Nov-11																																			
2.2 - Contractor's Submission																																									
P02_SUB_000360		Detailed Works Programme - Review & Comment by ER		0	08-Jun-11 A	07-Jul-11 A	Detailed Works Programme - Review & Comment by ER																																		
P02_SUB_000370		Revise Detailed Works Programme		9	08-Jul-11 A	29-Jul-11	Revise Detailed Works Programme																																		
P02_SUB_000380		Detailed Works Programme - Approval from ER		28	30-Jul-11	26-Aug-11	Detailed Works Programme - Approval from ER																																		
P02_SUB_000430		Temp. Drainage Management Plan Preparation		14	21-Jul-11	03-Aug-11	Temp. Drainage Management Plan Preparation																																		
P02_SUB_000440		Temp. Drainage Management Plan - Review & Comment by ER		28	04-Aug-11	31-Aug-11	Temp. Drainage Management Plan - Review & Comment by ER																																		
P02_SUB_000450		Revise temp. drainage management plan		14	01-Sep-11	14-Sep-11	Revise temp. drainage management plan																																		
P02_SUB_000460		Temp. Drainage Management Plan - Approval from ER		28	15-Sep-11	12-Oct-11	Temp. D																																		
P02_SUB_000470		Concrete Ready Mix/Design Mix - Submission		0	21-May-11 A	24-Jun-11 A	Concrete Ready Mix/Design Mix - Submission																																		
P02_SUB_000480		Concrete Ready Mix/Design Mix - ER Review & Comment		0	25-Jun-11 A	02-Jul-11 A	Concrete Ready Mix/Design Mix - ER Review & Comment																																		
P02_SUB_000490		Concrete Ready Mix/Design Mix - Resubmission		3	04-Jul-11 A	23-Jul-11	Concrete Ready Mix/Design Mix - Resubmission																																		
P02_SUB_000500		Concrete Ready Mix/Design Mix - ER Approval		21	24-Jul-11	13-Aug-11	Concrete Ready Mix/Design Mix - ER Approval																																		
P02_SUB_000510		Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval		45	14-Aug-11	27-Sep-11	Concrete Ready Mix/Design M																																		
P02_SUB_000700		D-Wall Construction Materials - Submission		9	14-Jun-11 A	29-Jul-11	D-Wall Construction Materials - Submission																																		
P02_SUB_000710		D-Wall Construction Materials - ER Review/Comment		28	30-Jul-11	26-Aug-11	D-Wall Construction Materials - ER Review/Comment																																		
P02_SUB_000720		D-Wall Construction Materials - Resubmission		7	27-Aug-11	02-Sep-11	D-Wall Construction Materials - Resubmission																																		
P02_SUB_000730		D-Wall Construction Materials - ER Approval		21	03-Sep-11	23-Sep-11	D-Wall Construction Materials - ER																																		
P02_SUB_000740		D-Wall Construction Materials - Procurement & Delivery		12	24-Sep-11	05-Oct-11	D-Wall Constructio																																		
P02_SUB_000920		Bored Piles/H-piles Materials - Resubmission		3	21-Jun-11 A	23-Jul-11	Bored Piles/H-piles Materials - Resubmission																																		
P02_SUB_000930		Bored Piles/H-piles Materials - ER Approval		21	24-Jul-11	13-Aug-11	Bored Piles/H-piles Materials - ER Approval																																		
P02_SUB_000940		Bored Piles/H-piles Materials - Procurement & Delivery		45	14-Aug-11	27-Sep-11	Bored Piles/H-piles Materials -																																		
P02_SUB_001010		Bridge Bearing - Submission		60	17-Sep-11	15-Nov-11																																			
Remaining Level of Effort Actual Level of Effort Actual Work Remaining Work Critical Remaining Work ◆ Milestone																Contract HY/2009/19 Three Month Rolling Programme (21 July to 20 October 2011)																3MRP 3MRP - Jul 2011 to Oct 2011 Page 1 of 4									

Activity ID		Activity Name	Rem Dur	Start	Finish	2011																			
						July					August					September					October				
						0	27	04	11	18	25	01	08	15	22	29	05	12	19	26	03	10	17		
2.3 - Method Statement / Shop Drawings																									
P03_SUB_000110	MS Marine Piling - Submission		12	11-Jul-11 A	01-Aug-11	MS Marine Piling - Submission																			
P03_SUB_000120	MS Marine Piling - ER Review & Comment		9	05-Jul-11 A	10-Aug-11	MS Marine Piling - ER Review & Comment																			
P03_SUB_000130	MS Marine Piling - Resubmission		14	11-Aug-11	24-Aug-11	MS Marine Piling - Resubmission																			
P03_SUB_000140	MS Marine Piling - ER Approval		14	25-Aug-11	07-Sep-11	MS Marine Piling - ER Approval																			
P03_SUB_000160	MS Dolphin Demolition - ER Review & Comment		0	23-Jun-11 A	02-Jul-11 A	MS Dolphin Demolition - ER Review & Comment																			
P03_SUB_000170	MS Dolphin Demolition - Resubmission		7	04-Jul-11 A	27-Jul-11	MS Dolphin Demolition - Resubmission																			
P03_SUB_000180	MS Dolphin Demolition - ER Approval		14	28-Jul-11	10-Aug-11	MS Dolphin Demolition - ER Approval																			
P03_SUB_000210	MS Ground Piling - Submission		0	15-Jun-11 A	30-Jun-11 A	MS Ground Piling - Submission																			
P03_SUB_000220	MS Ground Piling - ER Review & Comment		7	01-Jul-11 A	27-Jul-11	MS Ground Piling - ER Review & Comment																			
P03_SUB_000230	MS Ground Piling - Resubmission		21	28-Jul-11	17-Aug-11	MS Ground Piling - Resubmission																			
P03_SUB_000240	MS Ground Piling - ER Approval		14	18-Aug-11	31-Aug-11	MS Ground Piling - ER Approval																			
P03_SUB_000310	MS Diaphragm Wall - Submission		9	15-Jun-11 A	29-Jul-11	MS Diaphragm Wall - Submission																			
P03_SUB_000320	MS Diaphragm Wall - ER Review & Comment		14	30-Jul-11	12-Aug-11	MS Diaphragm Wall - ER Review & Comment																			
P03_SUB_000330	MS Diaphragm Wall - Resubmission		7	13-Aug-11	19-Aug-11	MS Diaphragm Wall - Resubmission																			
P03_SUB_000340	MS Diaphragm Wall - ER Approval		14	20-Aug-11	02-Sep-11	MS Diaphragm Wall - ER Approval																			
P03_SUB_000410	MS Cut & Cover Tunnel - Submission		28	17-Sep-11	14-Oct-11	MS Cut & Cover Tunnel - Submission																			
P03_SUB_000420	MS Cut & Cover Tunnel - ER Review & Comment		28	15-Oct-11	11-Nov-11	MS Cut & Cover Tunnel - ER Review & Comment																			
P03_SUB_000610	MS Pre-cast Segment Bridge - Submission		28	17-Oct-11	13-Nov-11	MS Pre-cast Segment Bridge - Submission																			
2.4 - Contractor's Design and Build Items																									
P04_D&B_000010	Temp Bridge "TA" & "TD" Design - Prep & Submit		45	21-May-11 A	03-Sep-11	Temp Bridge "TA" & "TD" Design - Prep & Submit																			
P04_D&B_000020	Temp Bridge "TA" & "TD" Design - ER review and comment		30	04-Sep-11	03-Oct-11	Temp Bridge "TA" & "TD" Design - ER review and comment																			
P04_D&B_000030	Temp Bridge "TA" & "TD" Design - Resubmission		60	04-Oct-11	02-Dec-11	Temp Bridge "TA" & "TD" Design - Resubmission																			
2.5 - Bridge Segment/Beam Precast Unit Production																									
P05_PCU_000010	Propose, approve and set-up Factory for Pre-cast Unit		120	21-Jul-11	17-Nov-11	Propose, approve and set-up Factory for Pre-cast Unit																			
P05_PCU_000020	Geometric Design of the Bridge Segments/Beams		60	19-Sep-11	17-Nov-11	Geometric Design of the Bridge Segments/Beams																			
3 - CONSTRUCTION WORKS																									
3.1 - Site Set-up																									
3.1.1 - General																									
SET_000125	Set up for D Wall / Barrette Construction		24	04-Aug-11	31-Aug-11	Set up for D Wall / Barrette Construction																			
3.1.3 - Interface Works																									
SET_000400	Develop Interface Management Plan with adjacent Contractors/Others		63	06-Apr-11 A	04-Oct-11	Develop Interface Management Plan with adjacent Contractors/Others																			
3.3 - Section 2 & 2A Works																									
3.3.2 - Cut & Cover Tunnel - Part 2																									
S02_TUN_020600	Preparation Works for D Wall Constrction		24	28-Jul-11	24-Aug-11	Preparation Works for D Wall Constrction																			
S02_TUN_020610	SI for North D Wall (N52-N58) at VIIC (7no) (share w/ VIIA)		24	04-Aug-11	31-Aug-11	SI for North D Wall (N52-N58) at VIIC (7no) (share w/ VIIA)																			
S02_TUN_020620	SI for North D Wall (N59-N106) at VIIA (48no) (4 set)		42	04-Aug-11	22-Sep-11	SI for North D Wall (N59-N106) at VIIA (48no) (4 set)																			
S02_TUN_020625	North D Wall (N52-N58) at VIID (share w/ VIIB)		42	01-Sep-11	22-Oct-11	North D Wall (N52-N58) at VIID (share w/ VIIB)																			
S02_TUN_020630	North D Wall (N59-N106) at VIIB (4set)		83	06-Oct-11	10-Jan-12	North D Wall (N59-N106) at VIIB (4set)																			
3.9 - Section X Works																									
3.9.1 - Bridge - Eastbound - Pier F3-F15																									
0X-00023-10	Erect platform pier F7 - Install silt curtain		1	30-Jul-11	30-Jul-11	Erect platform pier F7 - Install silt curtain																			
0X-00023-20	Erect platform pier F7 - Pitching temp. piles		4	01-Aug-11	04-Aug-11	Erect platform pier F7 - Pitching temp. piles																			
0X-00023-30	Erect platform pier F7 - Install platform Type 2A from F3		3	05-Aug-11	08-Aug-11	Erect platform pier F7 - Install platform Type 2A from F3																			
Remaining Level of Effort Actual Level of Effort Actual Work Remaining Work Critical Remaining Work Milestone						Contract HY/2009/19 Three Month Rolling Programme (21 July to 20 October 2011)																		3MRP 3MRP - Jul 2011 to Oct 2011 Page 2 of 4	

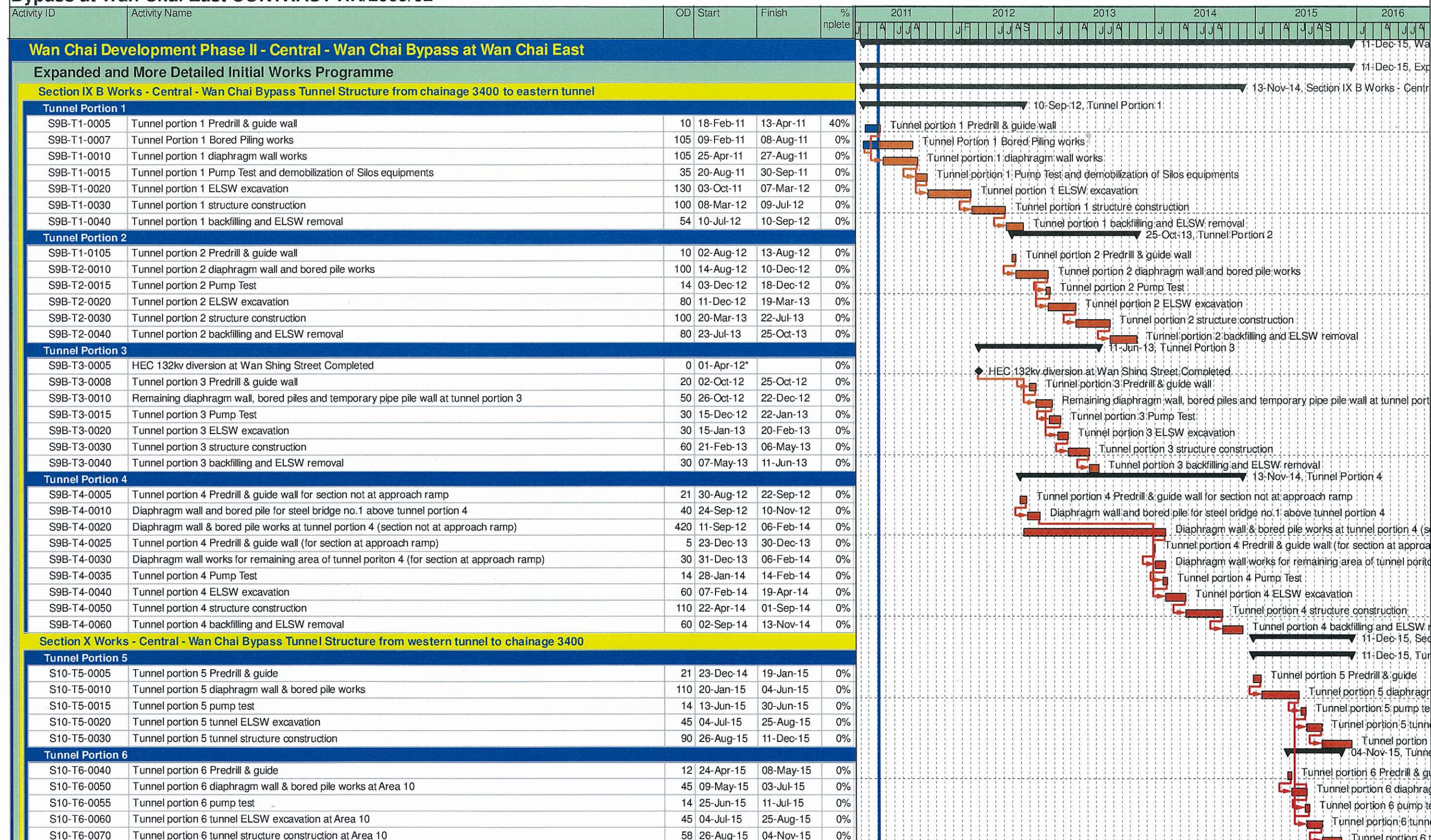
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 Remaining Level of Effort  Actual Level of Effort  Actual Work Remaining Work  Critical Remaining Work  Milestone	Contract HY/2009/19 Three Month Rolling Programme (21 July to 20 October 2011)	3MRP 3MRP - Jul 2011 to Oct 2011 Page 3 of 4
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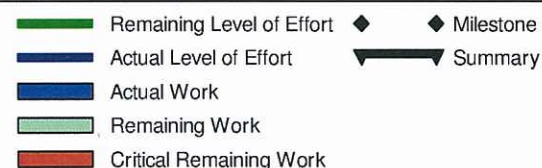
Activity ID	Activity Name	Rem Dur	Start	Finish	2011																				
					July							August					September					October			
					0	27	04	11	18	25	01	08	15	22	29	05	12	19	26	03	10	17			
S02_BRE_020010	Set-up for Piling Works on Ground at VIIB (possession VIIB on 03Aug11)	6	04-Aug-11	10-Aug-11								Set-up for Piling Works on Ground at VIIB (possession VIIB on 03Aug11)													
S02_BRE_020015	Pre-drilling for 18 nos Piling at VIIB (2set)	33	01-Sep-11	12-Oct-11								Pre-drilling													
S02_BRE_020020	Bored Piles at E1, D5 to D7 (18 nos) at VIIB (2 set)	162	13-Oct-11	25-Apr-12																					
3.12 - Section 14 Works																									
3.12.1 - Soft Landscape																									
S11_LAN_110010	Transplant. of ex. Trees to Nursery & upkeep	1860	04-Aug-11*	12-Oct-17																					
VO No. 1																									
V001-020	Prepare Sampling and Testing Plan	0	17-May-11 A	23-Jun-11 A	Prepare Sampling and Testing Plan																				
V001-030	EPD Approve Sampling and Testing Plan	9	24-Jun-11 A	30-Jul-11								EPD Approve Sampling and Testing Plan													
V001-040	Excavate Trial Pit/Ground Investigation	48	01-Aug-11	26-Sep-11								Excavate Trial Pit/Ground Inves													
V001-050	Testing of Soil Samples	48	27-Sep-11	23-Nov-11																					

Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East CONTRACT HK/2009/02

CHUN WO - CRGL JV



俊和 - 中國中鐵聯營
CHUN WO - CRGL JOINT VENTURE



CEDD CONTRACT NO. HK/2009/02
Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai East (Contract 2)

Revised Programme dated 7 April 2011

Date	Revision	Checked	Approved
07-Apr-11		KT	KY