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 EVIRONMENTAL 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

- FEBRUARY 2011 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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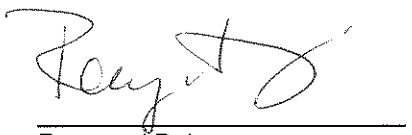

Raymond Dai
Environmental Team Leader

DATE:

9 March 2011

ENVIRON

Ref.: AACWBIECEM00_0_1081L.11

10 March 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 (February 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 February 2011 dated 9 March 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 – February 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 January 2011 to 27th February 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

- Piling Works.

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

- No major construction activity was undertaken in reporting month. Only preparation works was commenced in the reporting month.
- Condition survey / Instrumentation Manholes Survey
- Cable detection and excavation of trial pit
- Hoarding erection
- Erection of CLC
- Tree transplanting
- Trial installation of coupler in CR3

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

- No major construction activity was undertaken in 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

- No major construction activity was undertaken in reporting month.

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

- No major construction activity was undertaken in 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

- No major construction activity was undertaken in reporting month.

Noise Monitoring

iii. Noise monitoring during daytime was conducted at the International Finance Centre (eastern and western podium) on a weekly basis. No action and limit level exceedances were recorded in the reporting period.

iv. Noise monitoring during daytime was conducted at Victoria Center on a weekly basis. No action and limit level exceedances were recorded in the reporting period.

v. 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. Five continuous Limit Level exceedances were recorded on 4 February 2011 due to the shooting off the Lunar New Year Fireworks. It was concluded as non-project related exceedances.

Air Monitoring

vi. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at International Finance Centre (eastern and western podium) on every six days basis. No action and limit level exceedance were recorded in the reporting period.

vii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at Causeway Bay Community Center on every six days basis. No action and limit level exceedance were recorded in the reporting period.

Complaints, Notifications of Summons and Successful Prosecutions

viii. No complaint, notification of summons and prosecution was recorded in the reporting month.

Site Inspections and Audit

ix. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HY/2009/17 and 04/HY/2006 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

x. 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

- Piling Works

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

- No major construction activity was undertaken in next reporting month. Only preparation work was commenced.
- Condition survey / Instrumentation Manholes Survey
- Cable detection and excavation of trial pit
- Hoarding and project signboard erection
- Erection of CLC
- Tree transplanting
- Provision of site welfare facilities
- Trial installation of coupler in CR3

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

- No major construction activities are anticipated in coming 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

- No major construction activities are anticipated in coming reporting month.

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

- No major construction activity was undertaken in coming 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

- No major construction activity was undertaken in coming reporting month.

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 and FEP-06/364/2009/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 and FEP-06/364/2009/A during the period 28th January to 27th February 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, advance piling work at FEHD Whitfield Depot under Contract no. HY/2009/17 was commenced on 5 October 2010 and completed on 20 February 2011. The details of individual contracts are summarized in ***Table2.2***.

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	Anticipated to be commenced in February 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works	DP1, DP2	Pending
HK/2009/02	Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East(CWB Tunnel) (CWB Tunnel)	DP1	Pending
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP1	Pending
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	Pending

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
		Construction Manager / Sub Agent	Mr. Joe Tsang	9725-5874	
		Site Agent	Mr. Daniel Chan	9372 0495	
		Environmental Officer	Mr. Andy Mak	6461 3065	
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

Party	Role	Post	Name	Contact No.	Contact Fax
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	2634 1626
		Operation Manager	Mr. Ho Wing Tai	9306 1356	
		Construction Manager	Mr. David Wong	9653 8635	
		Construction Manager	Mr. Wilson Lau	5183 1270	
		Construction Manager	Mr. Alex Tsang	9194 9383	
		Environmental Officer (Compliance Manager)	Mr.Ho Wing Tai	9306 1356	
		Environmental Engineer	Mr. Ken Yang	9262 6791	
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. Eric Lam	3658-3048	
		Deputy Site Agent	Mr. Anthony Wu	3658-3004	
		Environmental Officer (Compliance Manager)	Mr. Barry Leung	3658 3031	
		Environmental Engineer	Ms. Flora Ng	3658-3064	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HY/2009/19	Pending	Pending	Pending	Pending
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	
		Quality & Env. Manager	Mr. Stephen Moc	2214 7720	
		Environmental Officer	Mr. Anfernee Chow	2214 7721	
		Environmental Supervisor	Mr. Dennis Yu	2214 7738	
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. Leung Kwok Yiu	9026 8808	
		Head of construction	Mr. Simon Tang	9022 6060	
		Construction Manager	Mr. C K Kwok	9779 2162	

Party	Role	Post	Name	Contact No.	Contact Fax
		Assistant Construction Manager (East)	Mr. Gene Cheung	6105 4880	
		Assistant Construction Manager (West)	Mr. Tony Chiu	9090 0606	
		Section Agent (East)	Mr. Jason Chan	9254 1635	
		Section Agent (West)	Mr. Tang Ka Tung	9473 4771	
		Environmental Manager	Ms. Anna Yu	9473 1945	
		Environmental Officer	Mr Kelven Yip	9669 5447	
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 the 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 in this reporting month 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

- Piling Works

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

- No major construction activity was undertaken in reporting month. Only preparation works was commenced in the reporting month.
- Condition survey / Instrumentation Manholes Survey
- Cable detection and excavation of trial pit
- Hoarding and project signboard erection
- Erection of CLC
- Tree transplanting
- Provision of site welfare facilities
- Trial installation of coupler in CR3

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

- No major construction activity was undertaken in 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

- No major construction activity was undertaken in reporting month.

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

- No major construction activity was undertaken in 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

- No major construction activity was undertaken in reporting month.

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 in this reporting month 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

- Piling Works.

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

- No major construction activity was undertaken in next reporting month. Only preparation works was commenced.
- Condition survey / Instrumentation Manholes and Intake Culvert Survey
- Cable detection and excavation of trial pit
- Hoarding and project signboard erection
- CLC construction works
- Tree transplanting
- Provision of site welfare facilities
- Trial installation of coupler in CR3
- Preparation of drainage diversion scheme

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

- No major construction activity is anticipated in coming 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

- No major construction activity is anticipated in coming reporting month.

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

- No major construction activity was undertaken in coming 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

- No major construction activity was undertaken in coming reporting month.

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 are shown 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 May 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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 June 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	11 June 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
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
Billing Account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
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
NIL	NIL	NIL

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
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
Billing Account under Waste Disposal Ordinance	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid

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

EP Condition	Submission	Date of Submission
NIL	NIL	NIL

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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 2.10	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
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid

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

EP Condition	Submission	Date of Submission
NIL	NIL	NIL

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

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

EP Condition	Submission	Date of Submission
NIL	NIL	NIL

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 ™ 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
CMA6a	WDII PRE Site Office *	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 January 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade and CMA6a - Future AECOM site office at Work Area were 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/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

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

5.1 Noise Monitoring Results

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

5.1.1. 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

5.1.2. 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

5.1.3. The proposed division of noise monitoring stations for Contract no. HY/2009/18 are summarized in ***Table 5.2*** below:

Table 5.2 Noise Monitoring Stations for Contract nos. 04/HY/2006 and HY/2009/18

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

5.1.4. No exceedance was recorded 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***.

5.1.5. The commencement of major construction works for Contract no. HY/2009/18 under FEP-05/364/2009A is pending. Only preparation works was commenced 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 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 and HK/2009/02 under FEP-02/364/2009 and FEP-01/364/2009 respectively are pending. The proposed division of noise monitoring stations are summarized in ***Table 5.3*** below.

Table 5.3 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

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

5.1.7. The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A is pending. 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

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

5.1.8. The commencement of construction works for Contract no. HY/2009/19 under FEP-07/364/2009/A is pending. 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

5.2 Real Time Noise Monitoring Results

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

5.2.1. 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

5.2.2. Five Limit Level exceedances were continuously recorded during restricted hour period on 4th February 2011. 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 .***

5.2.3. 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 is pending.

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

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. The proposed division of air monitoring stations are summarized in ***Table 5.9*** below.

Table 5.9 Air Monitoring Stations for Contract no. 04/HY/2006 and HY/2009/18

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

5.3.4. 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***.

5.3.5. The commencement of major construction works for Contract no. HY/2009/18 under FEP-05/364/2009A is pending. Only preparation works was commenced 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

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. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HK/2009/02 under FEP-01/364/2009. 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

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

5.3.8. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HY/2009/15 under FEP-06/364/2009/A. 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

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

5.3.9. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HY/2009/19 under FEP-07/364/2009/A. The proposed division of air monitoring stations are summarized in ***Table 5.13*** below.

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

5.4 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. Inert C&D waste was recycled in the reporting month. Details of the waste flow table are summarized in ***Table 5.12***

Table 5.12 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 5.13.***

Table 5.13 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	NIL	1288.5	Chai Wan and

Waste Type*	Quantity this month, m^3	Cumulative-to-Date. m^3	Disposal / Dumping Grounds
disposed			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 5.14***.

Table 5.14 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
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. No inert and no-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.15***.

Table 5.15 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	NIL	NIL	N/A
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

Waste Type*	Quantity this month, m^3	Cumulative-to-Date. m^3	Disposal / Dumping Grounds
Chemical waste disposed	NIL	NIL	N/A

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

5.4.5. 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. HY/2009/18

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	3.7	41.0	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	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. No inert and no-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.17***.

Table 5.17 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	NIL	NIL	N/A
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 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. No inert and no-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.18***.

Table 5.18 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	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

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 exceednace 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 exceedance was recorded 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. No noise monitoring was undertaken in the reporting month.

Contract nos. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works and HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel)

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

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

6.1.5. No noise monitoring was undertaken 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

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

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. Five Limit Level exceedances were continuously recorded during restricted hour period on 4th February 2011 due to the shooting off the Lunar New Year Fireworks. It was concluded as non-project related exceedances.

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 real time noise monitoring was undertaken 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 exceedance was recorded 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 air quality monitoring was undertaken in the reporting month.

Contract nos. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works and HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East(CWB Tunnel)

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

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

6.3.5. No air quality monitoring was undertaken 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

6.3.6. No air quality monitoring was undertaken in the reporting month.

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

6.3.1. 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.

6.3.2. No project-related non-compliance from monitoring was recorded in the reporting month.

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

6.4.1. There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

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) and Island Eastern Corridor Link projects (IECL).

7.0.2. From the Monthly EM&A report (January 2011) of Central Reclamation Phase III the key works in February 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
- Construction of cantilever slab at caisson
- Base slab, wall and roof construction at Culvert F
- Construction of storm and foul drainage and gullies in hinterlands for Road P2, Road D7, and Road D9
- Construction of GPO boundary wall
- Construction of PLA boundary wall
- Construction of Promenade enhancement works
- Construction of buildings at PLA berth
- Road P2 Underpass ramp structures
- Precasting for retaining wall (offsite)
- Installation of cooling mains discharge pipes in FRAE and FRAW
- Bulk excavation to formation level at CWB works
- Construction of CWB structure
- Disposal of material off-site to Government fill banks

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 filling works at North Point Reclamation Stage 1(NPR1), dredging works at Wan Chai Reclamation Stage 1(WCR1), Advanced piling works at FEHD Whitfield Depot and cross-harbour water mains in the reporting month. The major environmental impact was water quality impact at North Point and Wan Chai. Land-based construction activity was only advance piling works at FEHD Whitfield Depot in the reporting month.

7.0.4. The major environmental impacts generated from the Central Reclamation Phase III were located along the coastline of Central and Admiralty while advanced piling works at FEHD Whitfield Depot were undertaken in the reporting month. No significant air, noise impact were anticipated in the reporting month. Besides, no environmental monitoring exceedance was recorded from the Project in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.

8. Environmental Site Audit

8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/17 and 04/HY/2006. No non-conformance was identified during the site audits.

8.0.2. Four site inspections for Contract no. HY/2009/17 were 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/2009/17

Item	Date	Observations	Action taken by Contractor	Outcome
110216_01	16-Feb-11	The contractor was reminded to place drip tray underneath the air compressor at piling works area before use.	Place drip tray underneath the air compressor.	Completion as observed on 22-Feb-11
110216_02	16-Feb-11	Chemical label should be noticed on the oil drum	Notice chemical label on the oil drum	Completion as observed on 22-Feb-11

8.0.3. 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.

9. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.0.1. No complaint, notification of summons and prosecution was received in the reporting month. The details of cumulative complaint log and updated summary of complaints are presented in ***Appendix 9.1***.

9.0.2. 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
February 2011	0
Project-to-Date	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***.

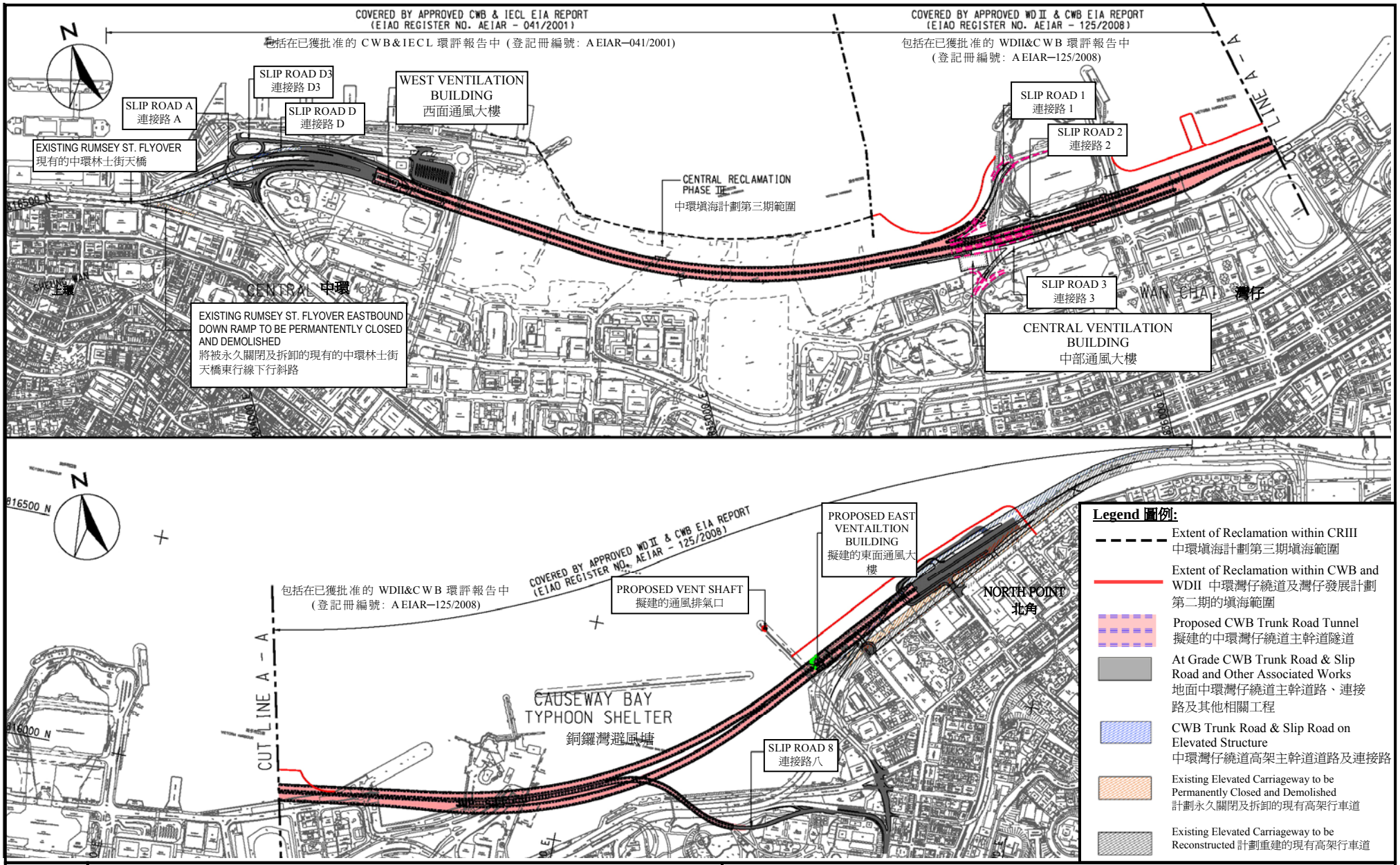
Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/17	• Drilling, installation steel H-Pile & grouting	• Noise barrier shall be implemented; • Watering any dust generating activities; and • Improvement of wheel washing facilities • Improvement and increasing the number of sedimentation tanks.

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. 工務計劃項目編號 579 TH K

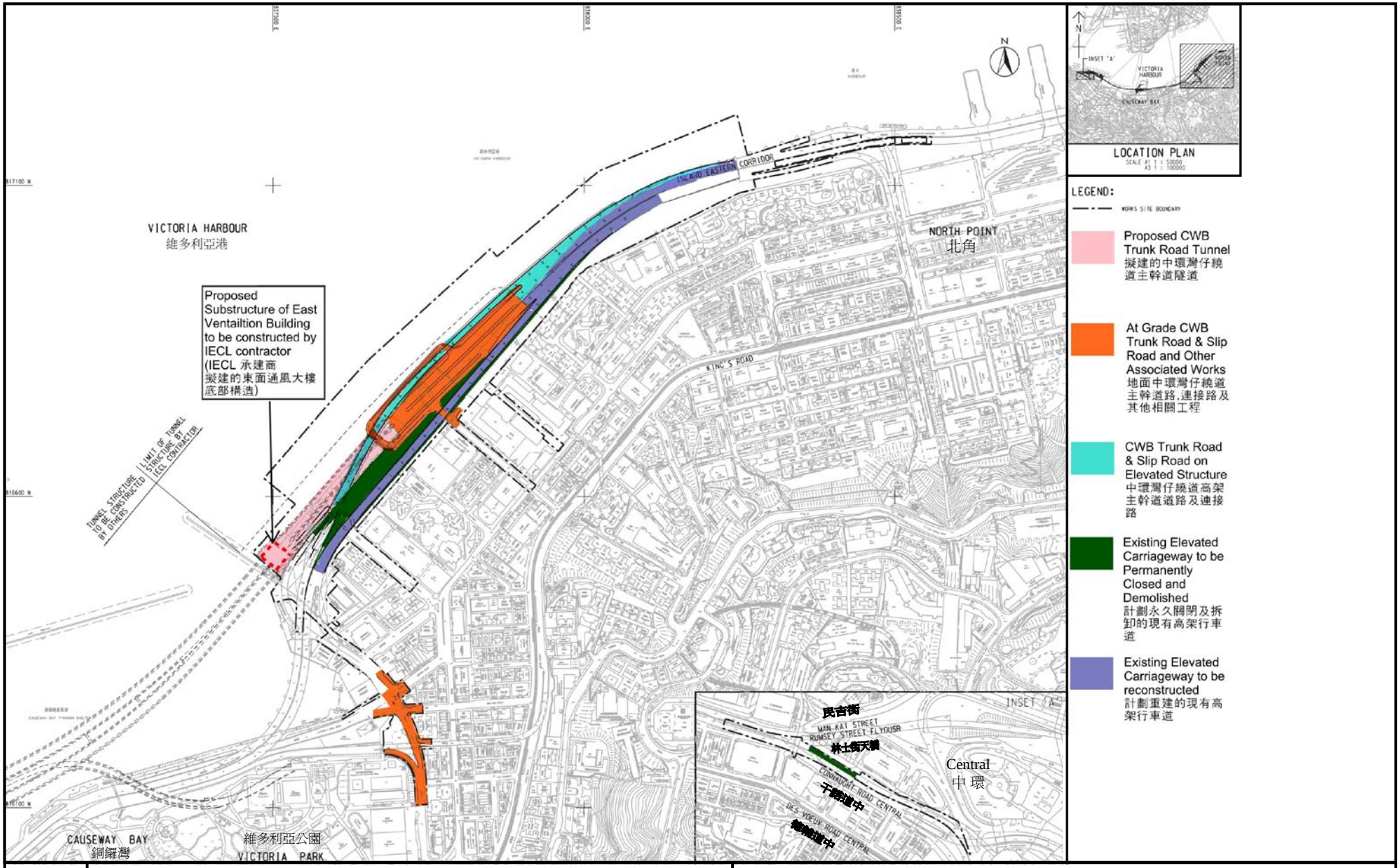
Project:
CENTRAL – WAN CHAI BYPASS –FEHD WHITFIELD DEPOT RE-PROVISIONING WORKS

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

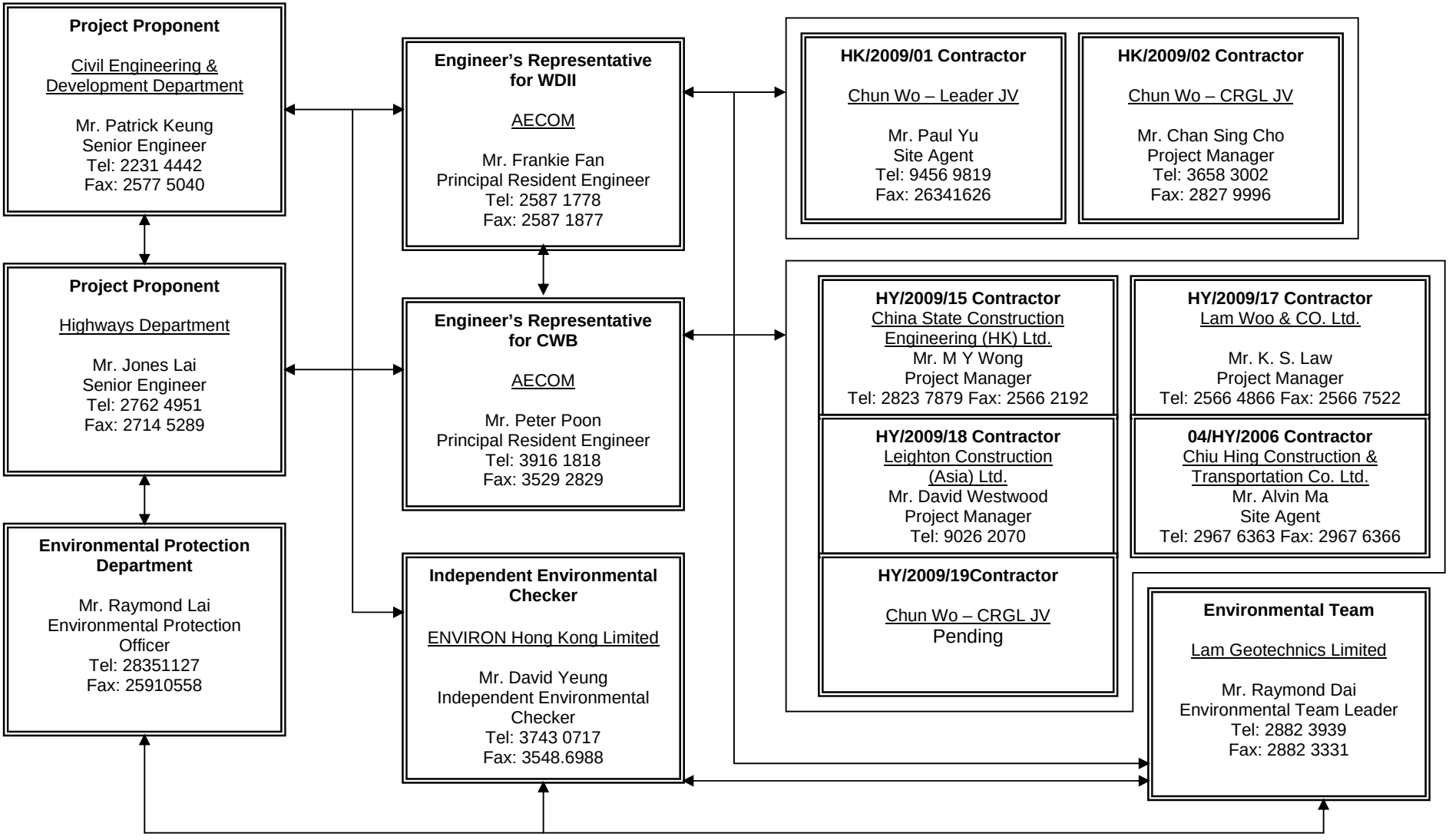
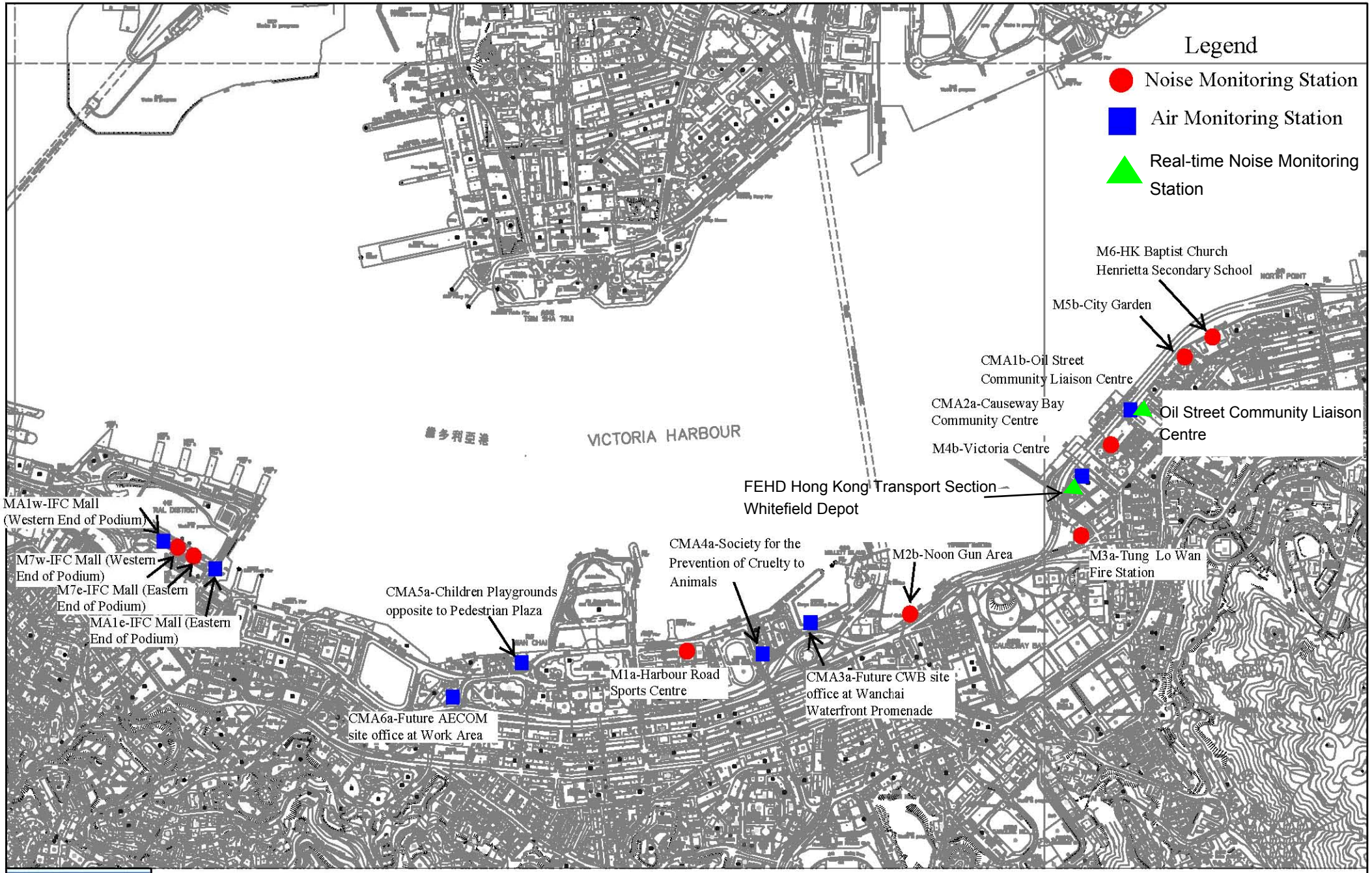


Figure 4.1

Locations of Monitoring Stations



Location plan of Environmental 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	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	√	√ #			
	• 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.	Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple	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	***Floating Refuse*** 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	*Good Site Practices* 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	*Waste Reduction Measures* 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	*General Refuse* 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	*Chemical Wastes* 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	*Construction and Demolition Material* 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	*Bentonite Slurry* 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)[Note 1]

Action and Limit Level for Real Time 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)[Note 2]
19:00 – 23:00 hours on normal weekdays and public holiday	When one documented complaint is received.	70 dB(A)[Note 3]
23:00 – 07:00 at next day on everyday	When one documented complaint is received.	65 db(A)

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.

Note 2:

- *70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.*

Note 3:

- *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 $\mu g/m^3$		24-hour TSP Level in $\mu g/m^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1a	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5	332.0	500	181.0	260
CMA6	300.1	500	187.3	260
MA1e	325.1	500	173.4	260
MA1w	325.1	500	173.4	260

-

Appendix 4.2

Copies of Calibration Certificates

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 96128 Page 1 of 2 Pages

Customer : Lam Environmental Services Ltd

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

Order No. : Q92434 **Date of receipt :** 24-Nov-09

Item Tested

Description : Sound Level Calibrator (EL469)

Manufacturer : ACO

Model : -- **Serial No. :** 050213

Test Conditions

Date of Test : 26-Nov-09 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification after adjustment.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Due Date	Traceable to
S014	Spectrum Analyzer	93091	18-Jun-10	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	93758	16-Jul-10	NIM-PRC & SCL-HKSAR
S041	Universal Counter	94005	6-Aug-10	SCL-HKSAR
S206	Sound Level Meter	93966	5-Aug-10	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: 27-Nov-09

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

Calibration Certificate

Results :

1. Level

UUT Nominal Value (dB)	Measured Value (dB)		IEC 942 Class 1 Spec.
	Before adjust.	After adjust.	
94	*93.52	94.11	± 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	1.016	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** : < 2.9 %
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 : 1010 hPa.
4. *Out of Specification.

---------- END ----------

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. **96127** Page 1 of 4 Pages

Customer : Lam Environmental Services Ltd

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

Order No. : Q92434 **Date of receipt :** 24-Nov-09

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ACO

Model : Type 6224 **Serial No. :** 30148

Test Conditions

Date of Test : 26-Nov-09 **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 & 804 Type I Specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Due Date	Traceable to
S017	Multi-Function Generator	C081456	18-Mar-10	SCL-HKSAR
S024	Sound Level Calibrator	93758	16-Jul-10	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: 27-Nov-09

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

Calibration Certificate

Results :

1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Time Const.		
20 – 100	L_A	Fast	94.03	94.3
		Slow		94.3
	L_C	Fast		94.3
30 – 120	L_A	Fast	94.03	94.5
		Slow		94.5
	L_C	Fast		94.5
30 – 120	L_A	Fast	113.97	114.2
		Slow		114.2
	L_C	Fast		114.2

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	114.6	+0.1	± 0.7 dB
130	104.0	104.7	+0.2	
120	94.0	94.5 (Ref.)	- -	
110	84.0	84.5	0.0	
100	74.0	74.2	-0.3	
90	64.0	64.0	-0.5	
80	54.0	54.0	-0.5	

Uncertainty : ± 0.1 dB

Calibration Certificate

3.2 Differential level linearity

UUT Range	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.4	-0.1	± 0.4
	94.0	94.5 (Ref.)	- -	
	95.0	95.5	0.0	± 0.2
	104.0	104.5	0.0	± 0.3
	105.0	105.5	0.0	± 1.0

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	-25.8	- 26.2 dB, ± 1.5 dB
125 Hz	-15.7	- 16.1 dB, ± 1 dB
250 Hz	-8.3	- 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	+1.2	+ 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	-5.9	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB

Calibration Certificate

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	40.1	
$1/10^3$	40.0	40.2	± 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 : 1 010 hPa.

---------- END ----------

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 03250A

Customer : Lam Geotechnics Limited

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

Order No. : Q01282 **Date of receipt :** 14-Jun-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ONO SOKKI

Model : LA-5110 **Serial No. :** 72302293

Test Conditions

Date of Test : 21-Jun-10 **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 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	93758	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-Oct-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.
Tel: 2425 8801 Fax: 2425 8646

Calibration Certificate

Results :

1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Level Range	Filter	Frequency Weighting	Dynamic Characteristic		
40 - 100 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	113.97	113.9
			SLOW		113.9
		C	FAST		113.9

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 Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
130	114.0	114.1	+0.1	± 0.7 dB
130	104.0	104.1	+0.1	
120	94.0	94.0 (Ref.)	- -	
110	84.0	84.0	0.0	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.0	0.0	

Uncertainty : ± 0.1 dB

Calibration Certificate

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
	94.0	94.0 (Ref.)	- -	
	95.0	95.0	0.0	± 0.2

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-40.5	- 39.4 dB, ± 1.5 dB
63 Hz	-26.9	- 26.2 dB, ± 1.5 dB
125 Hz	-16.9	- 16.1 dB, ± 1 dB
250 Hz	-9.1	- 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	+1.5	+ 1.2 dB, ± 1 dB
5 kHz	+1.2	+ 1.0 dB ,± 1 dB
8 kHz	-1.0	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	-7.0	- 6.6 dB, + 3 dB ~- ∞

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	40.0	--
1/10	40.0	40.0	± 0.5 dB
$1/10^2$	40.0	40.0	
$1/10^3$	40.0	40.1	± 1.0 dB
$1/10^4$	40.0	39.9	

Uncertainty : ± 0.1 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.
4. This certificate is supersede our former certificate no. 03250.

---------- END ----------

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. **03445** Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q01282 **Date of receipt :** 14-Jun-10

Item Tested

Description : Sound Level Calibrator (EL078)

Manufacturer : ONO SOKKI

Model : SC-2110 **Serial No. :** 00393

Test Conditions

Date of Test : 21-Jun-10 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z02.

Test Results

All results were within the IEC 942 Class 2 specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Due Date	Traceable to
S024	Sound Level Calibrator	93758	16-Jul-10	NIM-PRC & SCL-HKSAR
S041	Universal Counter	94005	6-Aug-10	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: 25-Jun-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.
Tel: 2425 8801 Fax: 2425 8646

Calibration Certificate

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 2 Spec.
94	94.05	± 0.5 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 942 Class 2 Spec.
1	0.998	± 4 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB
IEC 942 Class 2 Spec. : ± 1.2 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 1.2 %
IEC 942 Class 1 Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The above measured values are the mean of 3 measurements.
3. The uncertainty claimed is for a confidence probability of not less than 95%.
4. Atmospheric Pressure : 1 000 hPa.

---------- END ----------

Hong Kong Calibration Ltd.
香 港 校 正 有 限 公 司

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 ± 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 & 804 Type I Specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
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

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.
Tel: 2425 8801 Fax: 2425 8646

--

Calibration Certificate

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

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 ~ - ∞

Uncertainty : ± 0.1 dB

Calibration Certificate

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 ----------

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

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 ± 3)°C **Relative Humidity :** (50 ± 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:

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 : 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.
Tel: 2425 8801 Fax: 2425 8646

Calibration Certificate

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

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

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

For subsequent flow rate calculations:

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

TISCH ENVIROMENTAL, INC.
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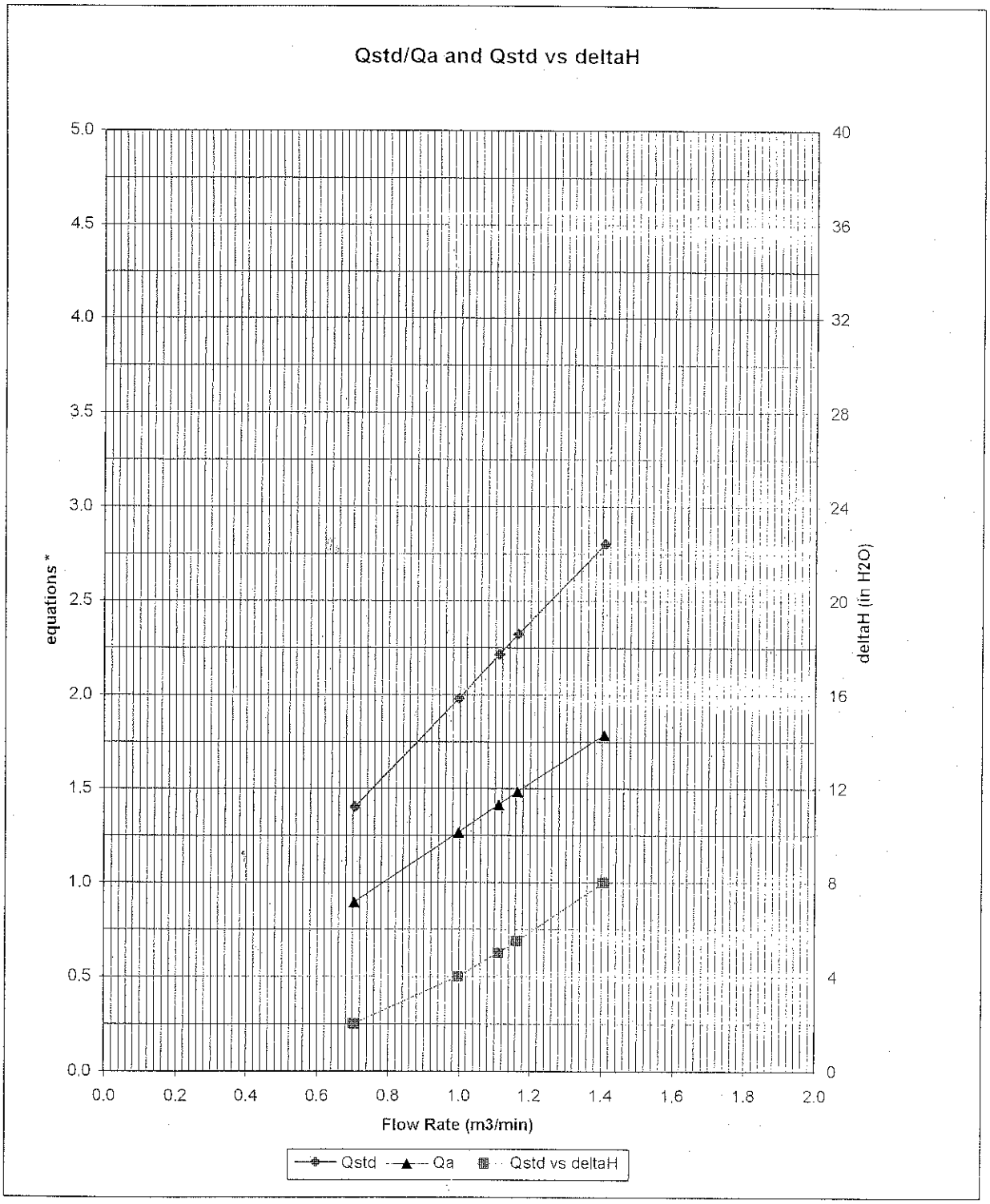
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

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

Qa series: $\sqrt{(\Delta H\ (Ta\ /\ Pa))}$

#0005

Brüel & Kjær

SPECTRIS CHINA LIMITED
思百吉中國有限公司

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100705-2 **Page** 1 **of** 2

Calibration of :

Description	:	Sound Level Meter	,	Microphone
Manufacture	:	Brüel & Kjær		
Type No.	:	2250	,	4950
Serial No.	:	2722311		2698703

Client :

Lam Geotechnics Limited
11/F, Centre Point
181-185 Gloucester Road
Wanchai
Hong Kong

Calibration Conditions :

Air Temperature	:	23	**°C**
Air Pressure	:	101.9	**kPa**
Relative Humidity	:	62	**%**

Test Specifications :

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of :
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result :

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration : 03 Aug, 2010
Calibrated By :

Dai Bin

Certificate issued : 03 Aug, 2010
Approved signatory :

Jacky Leung

Unit 706 7/F., Miramar Tower, 132 Nathan Road, Tsim Sha Tsui, Kowloon, Hong Kong
香港九龍尖沙咀彌敦道132號美麗華大廈7樓706室

Tel : (852) 2548 7486
Fax : (852) 2858 1168

spectris

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100705-2 **Page** 2 **of** 2

Results :

List of performed (sub) test with test status:
"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.
" - " Means the result of the (sub)test is Outside these tolerances.

Test :	Subtest :	Status :
Noise	A	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment :

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999

Description :	Make & Model :	Serial No. :	Last Cal. Date :	Traceable to:
Digital Multi-meter	Datron 1281	27361	30 Sept, 2009	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1843103	11 Aug 2009	NPL via B&K (DANAK)

Calibrated By : Date : 03 Aug 2010

Checked By : Date : 03 Aug, 2010

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	IFC-E	**Calbration Date**	:	28-Dec-10
Equipment no.	:	EL455	**Calbration Due Date**	:	28-Feb-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1020	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	1.99628	**Intercept, bc**	-0.06990
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

Calibration of RSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.3	6.3	12.6	1.8342	59	59.6977
2	5.0	5.0	10.0	1.6378	53	53.6267
3	3.9	3.9	7.8	1.4506	46	46.5439
4	2.6	2.6	5.2	1.1908	34	34.4020
5	1.6	1.6	3.2	0.9417	24	24.2838

By Linear Regression of Y on X

Slope, m = 40.5207 Intercept, b = -13.4648

Correlation Coefficient* = 0.9978

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	28-Dec-10	**Date**	:	28-Dec-10

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	IFC-W	**Calbration Date**	:	28-Dec-10
Equipment no.	:	EL080	**Calbration Due Date**	:	28-Feb-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1020	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	1.99628	**Intercept, bc**	-0.06990
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

Calibration of RSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.2	6.2	12.4	1.8198	55	55.6504
2	5.0	5.0	10.0	1.6378	49	49.5794
3	3.8	3.8	7.6	1.4323	40	40.4730
4	2.5	2.5	5.0	1.1684	30	30.3547
5	1.6	1.6	3.2	0.9417	21	21.2483

By Linear Regression of Y on X

Slope, m = 39.5777 Intercept, b = -15.9482

Correlation Coefficient* = 0.9995

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	28-Dec-10	**Date**	:	28-Dec-10

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	28-Dec-10
Equipment no.	:	EL449	**Calbration Due Date**	:	28-Feb-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1020	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	1.99628	**Intercept, bc**	-0.06990
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.5	6.5	13.0	1.8625	52	52.6149
2	5.2	5.2	10.4	1.6696	47	47.5558
3	4.0	4.0	8.0	1.4686	40	40.4730
4	2.6	2.6	5.2	1.1908	30	30.3547
5	1.5	1.5	3.0	0.9129	18	18.2128

By Linear Regression of Y on X

Slope, m	=	36.4116	Intercept, b	=	-13.8945
Correlation Coefficient*	=	0.9967			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	28-Dec-10	**Date**	:	28-Dec-10

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)

Environmental Monitoring Schedule
February 2011

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

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
March 2011

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

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
April 2011

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

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

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
   - Contract HK/2009/01: CMA5a (To be commenced when commencement of major works under FEP-02/364/2009 begun)
   - Contract HK/2009/02: CMA4a (To be commenced when commencement of major works under FEP-01/364/209 begun)
   - Contract HY/2009/15: CMA3a (To be commenced when commencement of major works under FEP-06/364/209/A begun)
   - Contract HY/2009/17: CMA2a
   - Contract HY/2009/18: MA1e and MA1w (To be commenced when commencement of major works under FEP-05/364/209/A begun)

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 Quality Monitoring Stations corresponding to active contracts are sub-divided below
   -Contract 04/HY/2006: M7e and M7w
   - Contract HK/2009/01 and HK/2009/02: M1a (To be commenced when commencement of major works under FEP-02/364/2009 & FEP-01/364/2009 begun)
   - Contract HY/2009/15: M2b (To be commenced when commencement of major works under FEP-06/364/209/A begun)
   - Contract HY/2009/17: M4b
   - Contract HY/2009/18: M7e and M7w (To be commenced when commencement of major works under FEP-05/364/209/A begun)
4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s)
5. Restricted hours noise (i.e. outside 07:00-19:00 of normal weekday) will be monitored for 3 nos. Leq(5min) as per the relevant Construction Noise Permit(s) in force for the followin contract(s): Contracts HY/2009/11 and HK/2009/02

Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

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)					
01/02/11	11:31	Cloudy	67.1	68.6	64.8	-	67	75
08/02/11	11:36	Fine	67.4	69.1	65.1	-	67	75
17/02/11	14:57	Cloudy	71.1	73.2	68.5	-	71	75
22/02/11	13:39	Cloudy	69.3	70.6	67.1	-	69	75

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

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

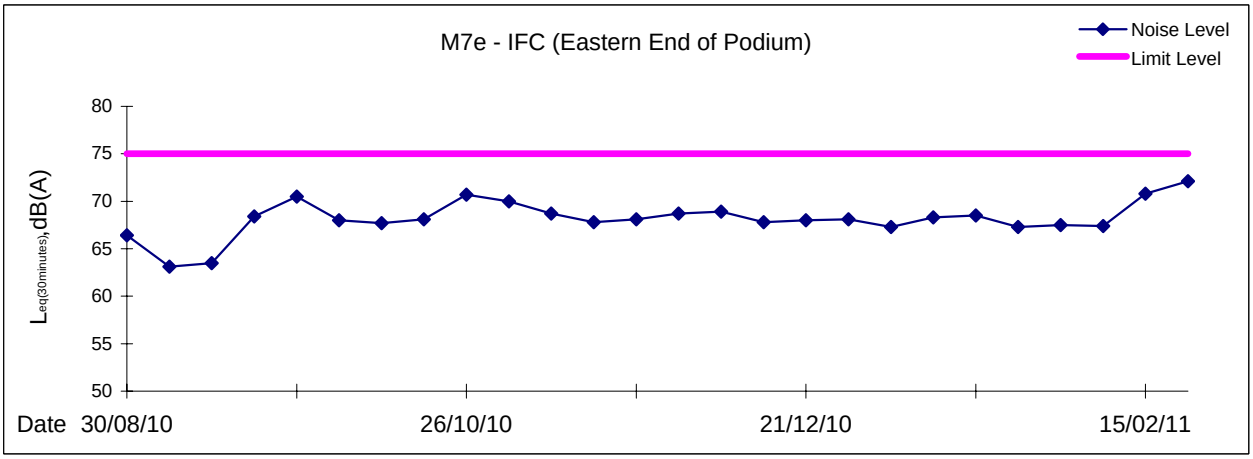
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
01/02/11	08:36	Cloudy	67.5	69.8	63.6	-	68	75
08/02/11	08:34	Fine	67.4	69.3	64.1	-	67	75
15/02/11	09:05	Cloudy	70.8	73.2	66.9	-	71	75
22/02/11	08:34	Cloudy	72.1	75.0	67.2	-	72	75

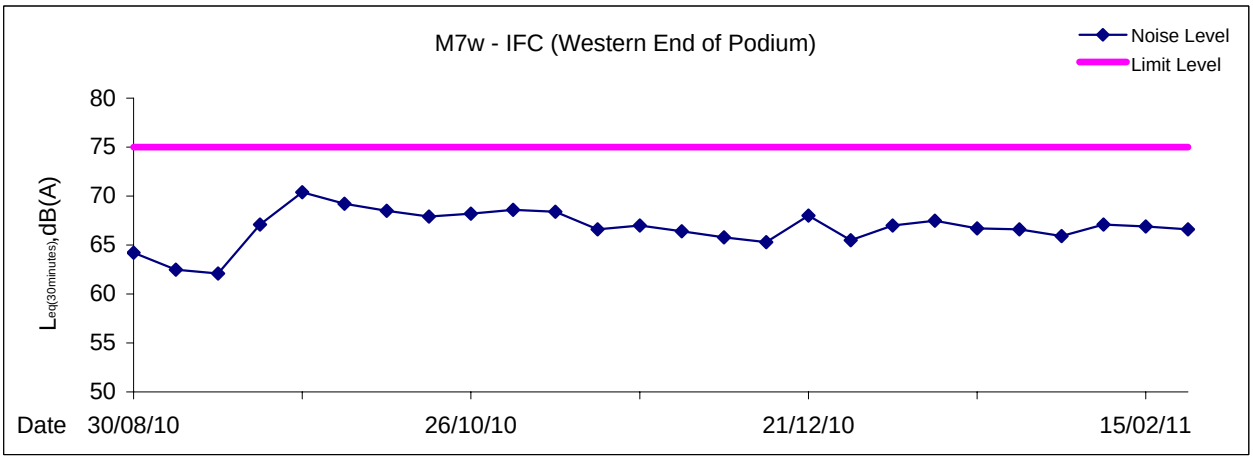
Location: M7w - International Finance Centre (Western End of Podium)

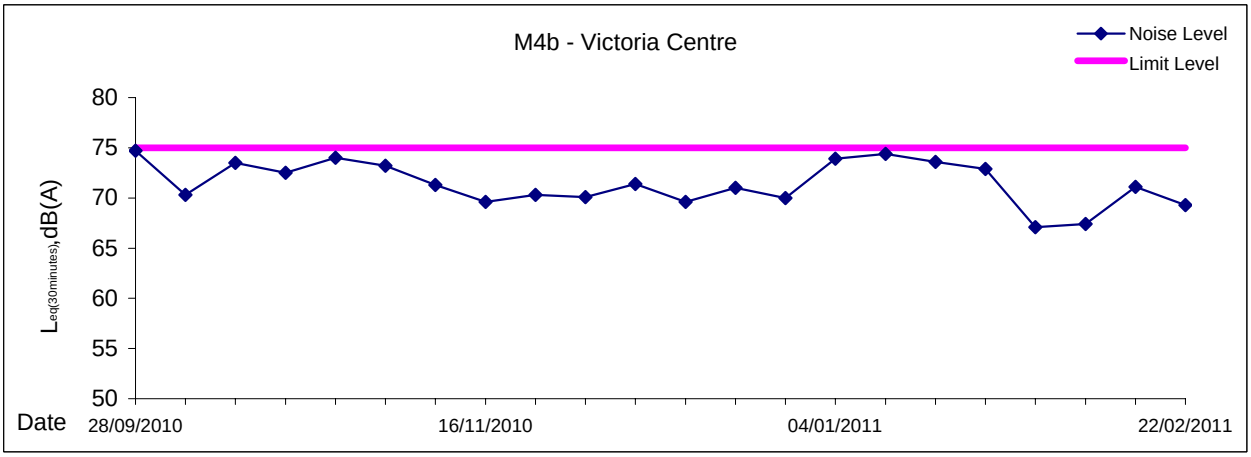
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
01/02/11	08:01	Cloudy	65.9	69.0	61.3	-	66	75
08/02/11	08:00	Fine	67.1	69.8	62.0	-	67	75
15/02/11	09:50	Cloudy	66.9	68.8	64.0	-	67	75
22/02/11	09:10	Cloudy	66.6	68.4	64.0	-	67	75

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)







Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring
Action Level (μg/m3) - 169.5
Limit Level (μg/m3) - 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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
01-Feb-11	08:00	Hazy	202028	2.8561	3.1615	13284.98	13308.98	24.00	1.51	1.51	1.51	2176	140
08-Feb-11	08:00	Hazy	202105	2.7714	3.0051	13311.98	13335.98	24.00	1.49	1.49	1.49	2148	109
14-Feb-11	08:00	Hazy	202129	2.7733	2.9387	13338.98	13362.97	23.99	1.48	1.48	1.48	2127	78
19-Feb-11	08:00	Hazy	202150	2.7892	2.8725	13365.97	13389.97	24.00	1.48	1.48	1.48	2129	39
25-Feb-11	08:00	Sunny	202195	2.7639	2.9770	13392.99	13416.99	24.00	1.49	1.49	1.49	2147	99

Report on 1-hour TSP monitoring
Action Level (μg/m3) - 323.4
Limit Level (μg/m3) - 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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jan-11	08:15	Hazy	202064	2.8522	2.8625	13257.99	13258.99	1.00	1.49	1.49	1.49	89	115
28-Jan-11	10:30	Hazy	202066	2.8622	2.8741	13258.99	13259.99	1.00	1.49	1.49	1.49	89	133
28-Jan-11	14:00	Hazy	202068	2.8652	2.8749	13259.99	13260.99	1.00	1.49	1.49	1.49	89	109
02-Feb-11	08:15	Hazy	202033	2.8553	2.8668	13308.98	13309.98	1.00	1.51	1.51	1.51	91	127
02-Feb-11	09:30	Hazy	202103	2.7779	2.7978	13309.98	13310.98	1.00	1.51	1.51	1.51	91	220
02-Feb-11	10:50	Hazy	202104	2.7458	2.7625	13310.98	13311.98	1.00	1.51	1.51	1.51	91	184
09-Feb-11	10:40	Hazy	202126	2.7605	2.7672	13335.98	13336.98	1.00	1.47	1.50	1.48	89	75
09-Feb-11	15:00	Hazy	202127	2.7251	2.7318	13336.98	13337.98	1.00	1.50	1.50	1.50	90	75
09-Feb-11	16:45	Hazy	202128	2.7971	2.8018	13337.98	13338.98	1.00	1.50	1.50	1.50	90	52
15-Feb-11	09:00	Hazy	202171	2.7253	2.7277	13362.97	13363.97	1.00	1.51	1.51	1.51	90	27
15-Feb-11	10:30	Hazy	202143	2.7815	2.7887	13363.97	13364.97	1.00	1.51	1.51	1.51	90	80
15-Feb-11	13:00	Hazy	202116	2.7386	2.7493	13364.97	13365.97	1.00	1.51	1.51	1.51	90	118
21-Feb-11	14:00	Hazy	202197	2.7600	2.7671	13389.97	13390.97	1.00	1.51	1.51	1.51	90	79
21-Feb-11	15:05	Hazy	202190	2.7478	2.7567	13390.97	13391.97	1.00	1.51	1.51	1.51	90	98
21-Feb-11	16:30	Hazy	202192	2.7426	2.7539	13391.97	13392.97	1.00	1.51	1.51	1.51	90	125
26-Feb-11	08:05	Sunny	202167	2.7243	2.7386	13416.99	13417.99	1.00	1.50	1.50	1.50	90	159
26-Feb-11	09:10	Sunny	202230	2.7902	2.8034	13417.99	13418.99	1.00	1.50	1.50	1.50	90	147
26-Feb-11	10:30	Sunny	202231	2.7878	2.8004	13418.99	13419.99	1.00	1.50	1.50	1.50	90	140

Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring
Action Level (μg/m3) - 173.4
Limit Level (μg/m3) - 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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
01-Feb-11	08:00	Hazy	202070	2.8635	3.1600	6380.46	6404.46	24.00	1.28	1.31	1.30	1865	159
08-Feb-11	08:00	Hazy	202074	2.8589	3.0761	6407.47	6431.47	24.00	1.27	1.27	1.27	1835	118
14-Feb-11	08:00	Hazy	202142	2.7706	2.8937	6434.47	6458.46	23.99	1.32	1.32	1.32	1902	65
19-Feb-11	08:00	Hazy	202180	2.7596	2.8347	6461.46	6485.46	24.00	1.30	1.30	1.30	1869	40
25-Feb-11	08:00	Sunny	202157	2.7411	2.9094	6488.46	6512.46	24.00	1.21	1.21	1.21	1741	97

Report on 1-hour TSP monitoring
Action Level (μg/m3) - 325.1
Limit Level (μg/m3) - 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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jan-11	08:05	Hazy	202023	2.8600	2.8693	6377.46	6378.46	1.00	1.29	1.29	1.29	77	120
28-Jan-11	09:15	Hazy	202092	2.8893	2.8968	6378.46	6379.46	1.00	1.29	1.29	1.29	77	97
28-Jan-11	10:30	Hazy	202085	2.8662	2.8759	6379.46	6380.46	1.00	1.29	1.29	1.29	77	126
02-Feb-11	08:05	Hazy	202075	2.8572	2.8715	6404.46	6405.46	1.00	1.35	1.35	1.35	81	177
02-Feb-11	09:10	Hazy	202076	2.8644	2.8818	6405.46	6406.46	1.00	1.35	1.35	1.35	81	215
02-Feb-11	10:20	Hazy	202090	2.8795	2.8957	6406.46	6407.46	1.00	1.35	1.35	1.35	81	200
09-Feb-11	08:50	Hazy	202139	2.7819	2.7927	6431.47	6432.47	1.00	1.27	1.27	1.27	76	141
09-Feb-11	10:00	Hazy	212140	2.7722	2.7794	6432.47	6433.47	1.00	1.27	1.27	1.27	76	94
09-Feb-11	11:00	Hazy	202141	2.7722	2.7794	6433.47	6434.47	1.00	1.27	1.27	1.27	76	94
15-Feb-11	09:00	Hazy	202117	2.7302	2.7342	6458.46	6459.46	1.00	1.28	1.28	1.28	77	52
15-Feb-11	10:05	Hazy	202133	2.7934	2.7955	6459.46	6460.46	1.00	1.28	1.28	1.28	77	27
15-Feb-11	13:00	Hazy	202146	2.7999	2.8040	6460.46	6461.46	1.00	1.28	1.28	1.28	77	53
21-Feb-11	08:05	Hazy	202154	2.7558	2.7621	6485.46	6486.46	1.00	1.28	1.28	1.28	77	82
21-Feb-11	09:08	Hazy	202155	2.7662	2.7724	6486.46	6487.46	1.00	1.28	1.28	1.28	77	81
21-Feb-11	10:12	Hazy	202156	2.7419	2.7471	6487.46	6488.46	1.00	1.28	1.28	1.28	77	68
26-Feb-11	08:10	Sunny	202203	2.7983	2.8053	6512.46	6513.46	1.00	1.27	1.27	1.27	76	92
26-Feb-11	09:15	Sunny	202220	2.8288	2.8367	6513.46	6514.46	1.00	1.27	1.27	1.27	76	103
26-Feb-11	10:25	Sunny	202206	2.8016	2.8072	6514.46	6515.46	1.00	1.27	1.27	1.27	76	73

Location: MA1w - International Finance Centre (Western Wing)

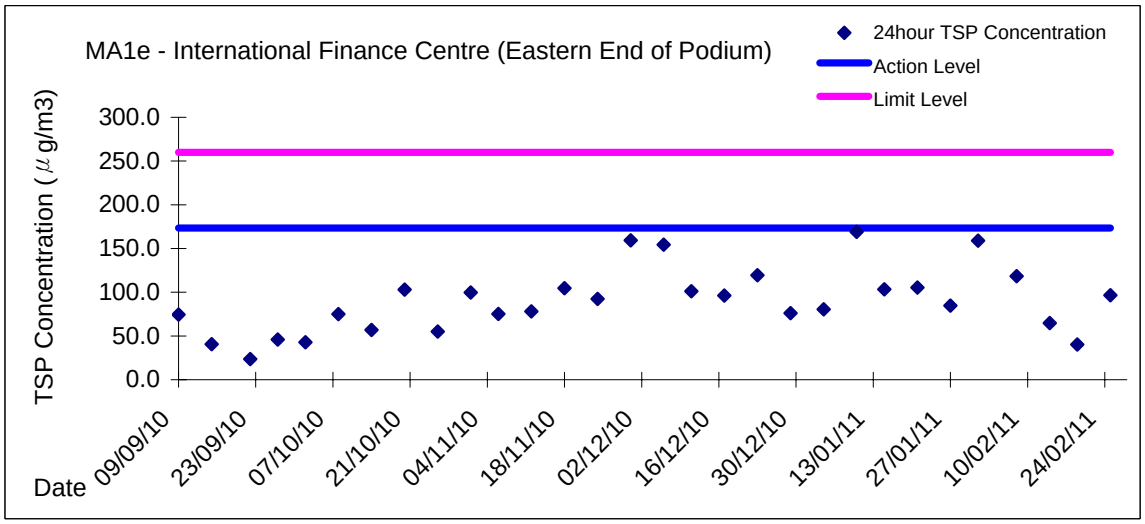
Report on 24-hour TSP monitoring
Action Level (μg/m3) - 173.4
Limit Level (μg/m3) - 260

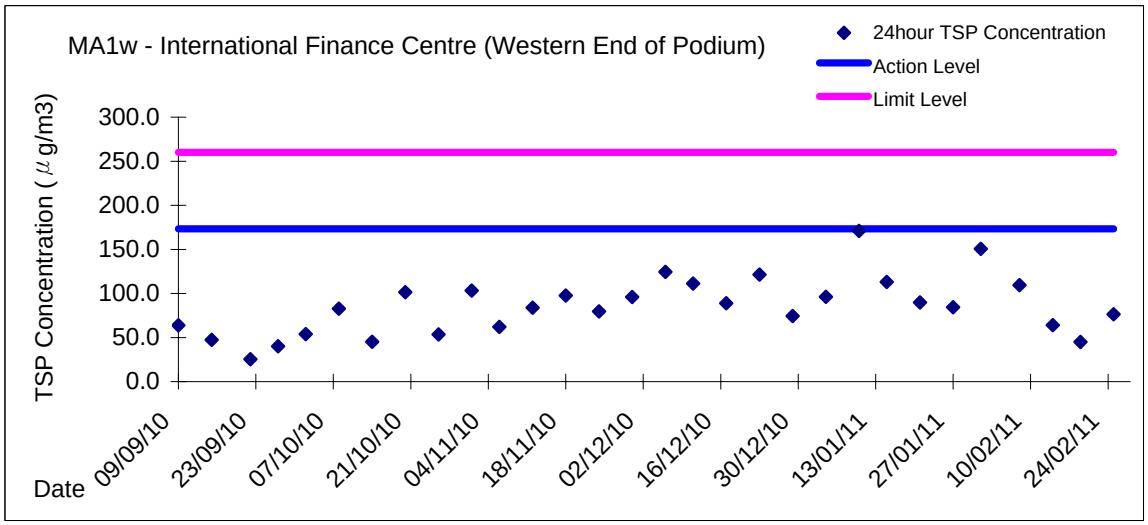
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
01-Feb-11	08:00	Hazy	202071	2.8718	3.1439	9525.31	9549.31	24.00	1.25	1.25	1.25	1807	151
09-Feb-11	15:00	Hazy	202138	2.7771	2.9770	9558.30	9582.30	24.00	1.27	1.27	1.27	1826	109
14-Feb-11	08:00	Hazy	202131	2.7628	2.8875	9582.30	9606.29	23.99	1.35	1.35	1.35	1946	64
17-Feb-11	08:00	Hazy	202181	2.7582	2.8458	9609.29	9633.29	24.00	1.35	1.35	1.35	1947	45
25-Feb-11	08:00	Sunny	202184	2.7590	2.9066	9636.29	9660.29	24.00	1.34	1.34	1.34	1932	76

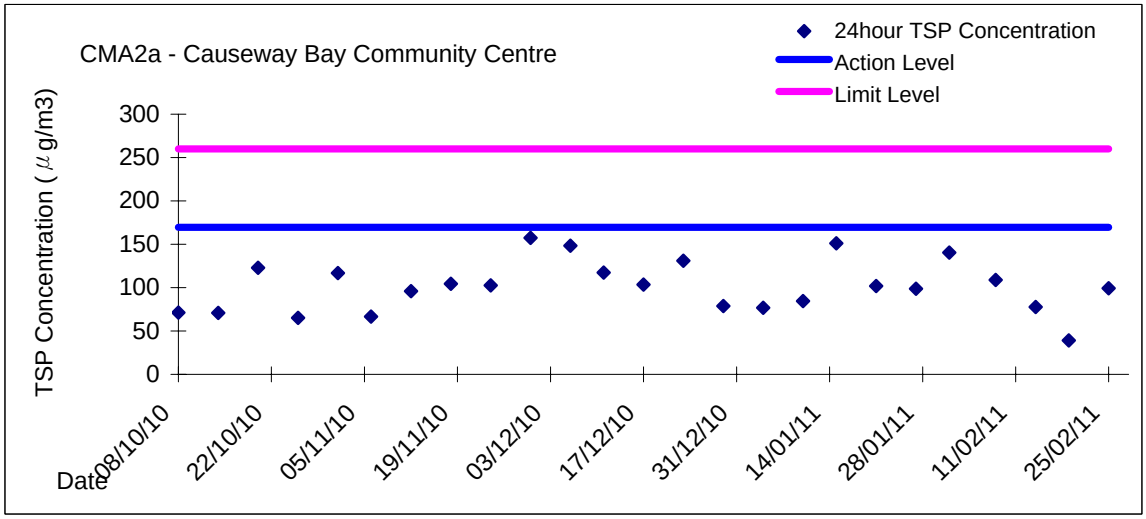
Report on 1-hour TSP monitoring
Action Level (μg/m3) - 325.1
Limit Level (μg/m3) - 500

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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Jan-11	08:15	Hazy	202045	2.8613	2.8700	9522.31	9523.31	1.00	1.37	1.37	1.37	82	106
28-Jan-11	09:25	Hazy	202089	2.8732	2.8811	9523.31	9524.31	1.00	1.37	1.37	1.37	82	96
28-Jan-11	10:50	Hazy	202036	2.8665	2.8747	9524.31	9525.31	1.00	1.37	1.37	1.37	82	100
02-Feb-11	08:10	Hazy	202035	2.8577	2.8713	9549.31	9550.31	1.00	1.25	1.25	1.25	75	181
02-Feb-11	09:15	Hazy	202072	2.8682	2.8829	9550.31	9551.31	1.00	1.25	1.25	1.25	75	195
02-Feb-11	10:40	Hazy	202073	2.8697	2.8832	9551.31	9552.31	1.00	1.25	1.25	1.25	75	179
09-Feb-11	09:50	Hazy	202135	2.7925	2.8008	9555.30	9556.30	1.00	1.31	1.31	1.31	78	106
09-Feb-11	10:55	Hazy	202136	2.8094	2.8180	9556.30	9557.30	1.00	1.31	1.31	1.31	78	110
09-Feb-11	13:00	Hazy	202137	2.7909	2.7993	9557.30	9558.30	1.00	1.31	1.31	1.31	78	107
15-Feb-11	09:10	Hazy	202134	2.7872	2.7996	9606.29	9607.29	1.00	1.39	1.47	1.43	86	145
15-Feb-11	10:20	Hazy	202132	2.7864	2.7950	9607.29	9608.29	1.00	1.39	1.47	1.43	86	100
15-Feb-11	13:00	Hazy	202147	2.7725	2.7778	9608.29	9609.29	1.00	1.38	1.46	1.42	85	62
21-Feb-11	08:10	Hazy	202151	2.7714	2.7808	9633.29	9634.29	1.00	1.39	1.47	1.43	86	110
21-Feb-11	09:15	Hazy	202152	2.7766	2.7852	9634.29	9635.29	1.00	1.39	1.47	1.43	86	100
21-Feb-11	10:20	Hazy	202153	2.7525	2.7595	9635.29	9636.29	1.00	1.39	1.47	1.43	86	82
26-Feb-11	08:13	Sunny	202204	2.8191	2.8260	9660.29	9661.29	1.00	1.38	1.34	1.36	82	85
26-Feb-11	09:22	Sunny	202205	2.8061	2.8149	9661.29	9662.29	1.00	1.38	1.34	1.36	82	108
26-Feb-11	10:30	Sunny	202207	2.8106	2.8197	9662.29	9663.29	1.00	1.38	1.34	1.36	82	112

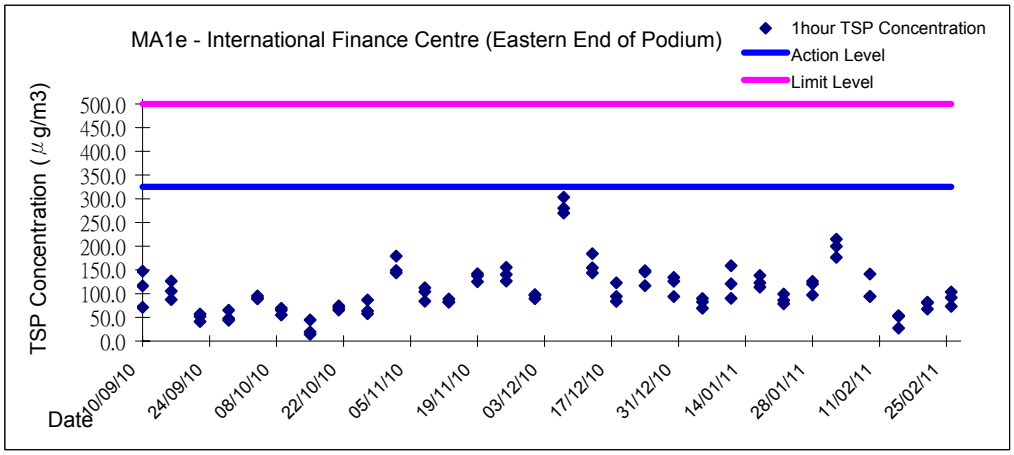
Graphic Presentation of 24 hour TSP Result

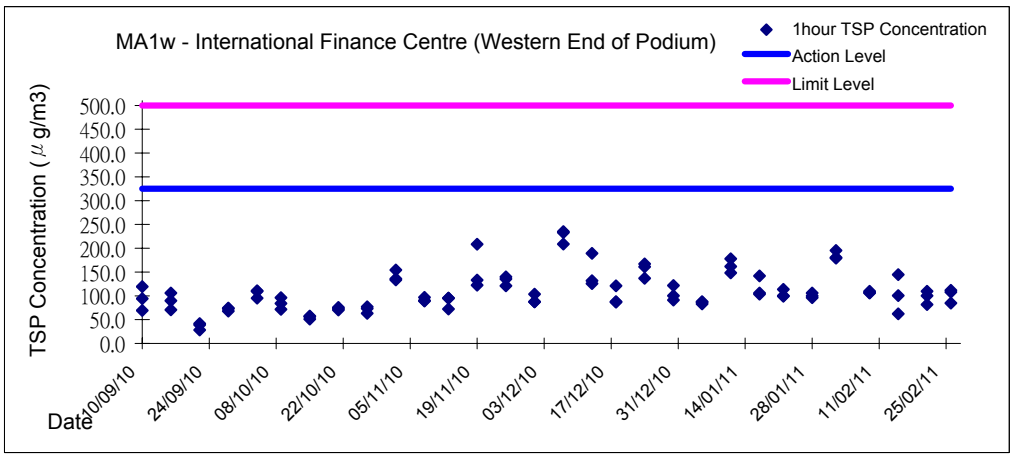


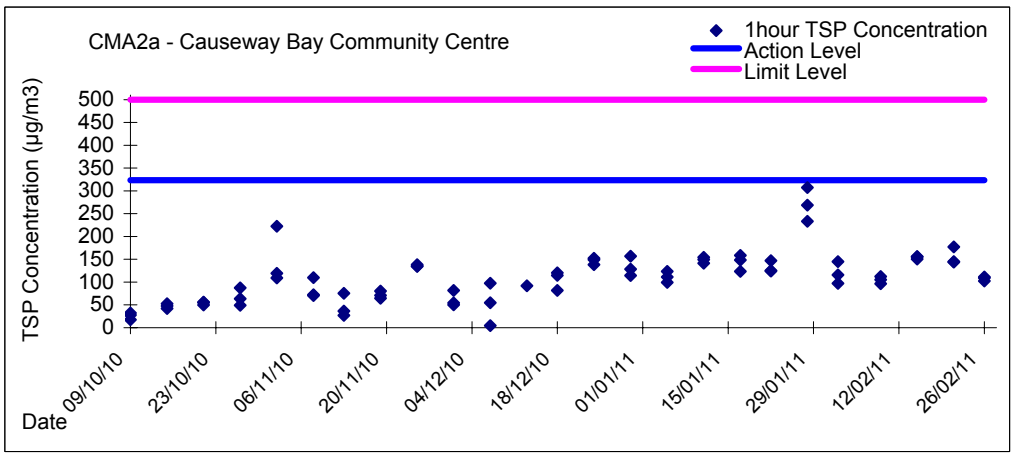




Graphic Presentation of 1 hour TSP Result







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

28/01/2011 07:01 65.2
28/01/2011 07:31 65.7
28/01/2011 08:01 70.6
28/01/2011 08:31 70.5
28/01/2011 09:01 70.5
28/01/2011 09:31 69.8
28/01/2011 10:01 69.9
28/01/2011 10:31 69.6
28/01/2011 11:01 67.6
28/01/2011 11:31 67.0
28/01/2011 12:01 66.7
28/01/2011 12:31 68.1
28/01/2011 13:01 67.6
28/01/2011 13:31 69.1
28/01/2011 14:01 68.2
28/01/2011 14:31 68.4
28/01/2011 15:01 68.6
28/01/2011 15:31 68.5
28/01/2011 16:01 70.3
28/01/2011 16:31 70.3
28/01/2011 17:01 71.0
28/01/2011 17:31 70.2
28/01/2011 18:01 67.6
28/01/2011 18:31 68.4
29/01/2011 07:01 61.8
29/01/2011 07:31 63.4
29/01/2011 08:01 64.5
29/01/2011 08:31 67.4
29/01/2011 09:01 70.2
29/01/2011 09:31 71.5
29/01/2011 10:01 70.6
29/01/2011 10:31 70.3
29/01/2011 11:01 69.9
29/01/2011 11:31 70.2
29/01/2011 12:01 70.9
29/01/2011 12:31 70.0
29/01/2011 13:01 68.4
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29/01/2011 14:01 71.7
29/01/2011 14:31 70.4
29/01/2011 15:01 70.9
29/01/2011 15:31 70.0
29/01/2011 16:01 69.3
29/01/2011 16:31 70.9
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29/01/2011 17:31 67.7
29/01/2011 18:01 67.1
29/01/2011 18:31 65.6
31/01/2011 07:01 61.8
31/01/2011 07:31 63.4
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31/01/2011 16:31 68.6
31/01/2011 17:01 67.6
31/01/2011 17:31 69.3
31/01/2011 18:01 72.9
31/01/2011 18:31 71.9
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01/02/2011 07:31 66.9
01/02/2011 08:01 66.9
01/02/2011 08:31 67.4
01/02/2011 09:01 67.0
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26/02/2011 18:31 64.3

Normal Day 19:00-23:00,
Sunday & Holiday 07:00-23:00

28/01/2011 19:01 64.7
28/01/2011 19:06 66.4
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

30/01/2011 07:41 65.9	30/01/2011 16:51 65.6	31/01/2011 22:01 64.2	03/02/2011 07:11 64.2	03/02/2011 16:21 63.6	04/02/2011 09:31 62.1
30/01/2011 07:46 66.6	30/01/2011 16:56 66.1	31/01/2011 22:06 64.9	03/02/2011 07:16 61.4	03/02/2011 16:26 63.6	04/02/2011 09:36 63.1
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30/01/2011 07:56 66.1	30/01/2011 17:06 66.4	31/01/2011 22:16 64.8	03/02/2011 07:26 64.5	03/02/2011 16:36 63.3	04/02/2011 09:46 63.1
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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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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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Night-time 23:00-07:00

28/01/2011 00:01 57.8
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

29/01/2011 00:31 57.2	30/01/2011 01:41 61.5	31/01/2011 02:51 57.8	01/02/2011 04:01 58.2	02/02/2011 05:11 60.8	03/02/2011 06:21 60.0
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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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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)

24/02/2011 04:31 58.1	25/02/2011 05:41 60.0	26/02/2011 06:51 57.4
24/02/2011 04:36 57.9	25/02/2011 05:46 59.7	26/02/2011 06:56 57.2
24/02/2011 04:41 58.6	25/02/2011 05:51 60.9	26/02/2011 23:01 60.3
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24/02/2011 05:06 58.5	25/02/2011 06:16 53.0	26/02/2011 23:26 60.3
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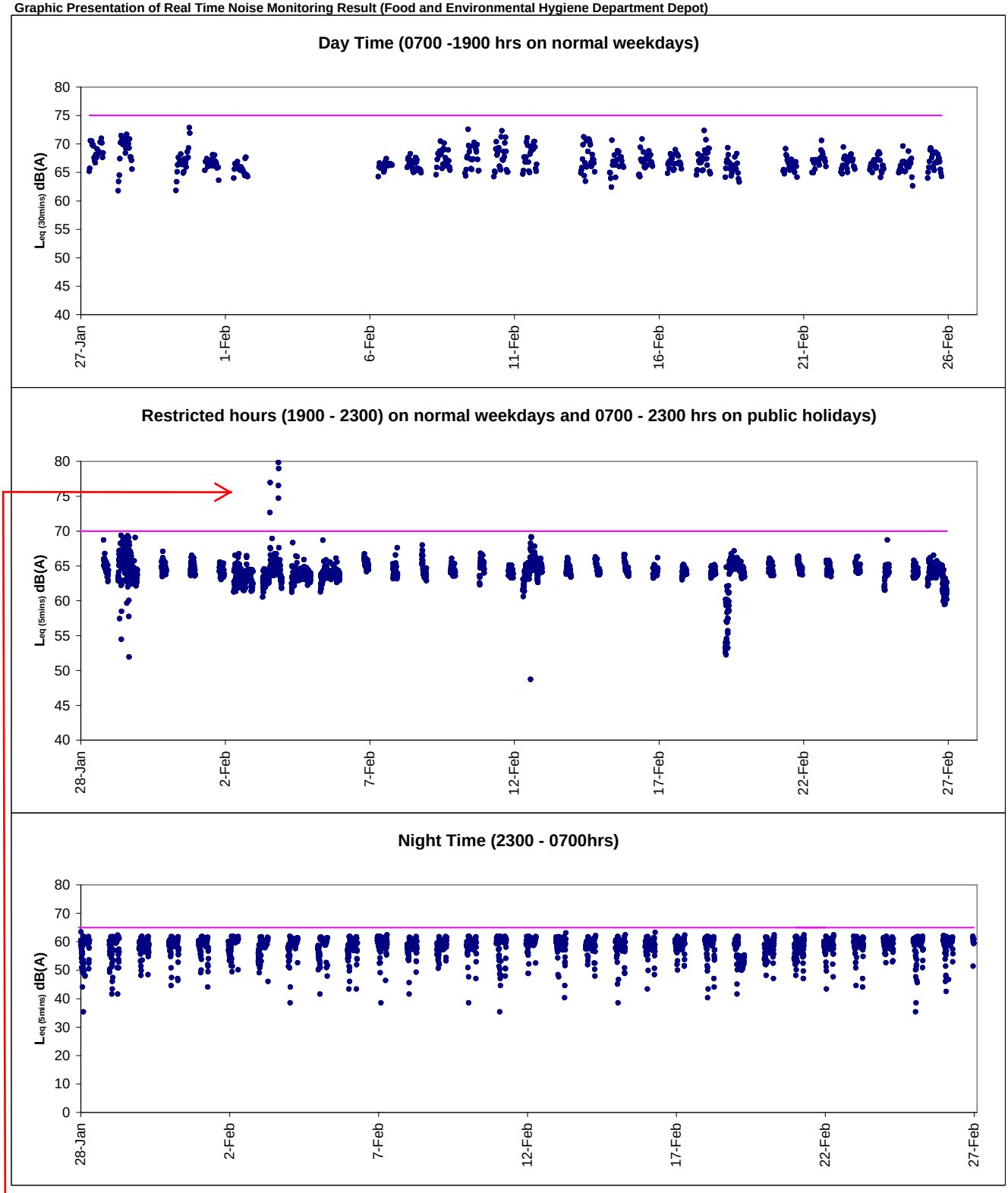
25/02/2011 03:41 58.4	26/02/2011 04:51 59.1	27/02/2011 06:01 60.0
25/02/2011 03:46 59.4	26/02/2011 04:56 59.5	27/02/2011 06:06 60.0
25/02/2011 03:51 59.3	26/02/2011 05:01 59.2	27/02/2011 06:11 60.8
25/02/2011 03:56 60.4	26/02/2011 05:06 58.7	27/02/2011 06:16 61.3
25/02/2011 04:01 58.9	26/02/2011 05:11 59.8	27/02/2011 06:21 60.0
25/02/2011 04:06 58.2	26/02/2011 05:16 60.8	27/02/2011 06:26 61.3
25/02/2011 04:11 57.9	26/02/2011 05:21 59.8	27/02/2011 06:31 60.7
25/02/2011 04:16 57.6	26/02/2011 05:26 59.7	27/02/2011 06:36 61.6
25/02/2011 04:21 58.2	26/02/2011 05:31 59.6	27/02/2011 06:41 61.3
25/02/2011 04:26 58.7	26/02/2011 05:36 60.2	27/02/2011 06:46 53.0
25/02/2011 04:31 57.7	26/02/2011 05:41 60.2	27/02/2011 06:51 57.4
25/02/2011 04:36 58.8	26/02/2011 05:46 59.9	27/02/2011 06:56 55.8
25/02/2011 04:41 58.2	26/02/2011 05:51 60.9	27/02/2011 23:01 61.2
25/02/2011 04:46 57.5	26/02/2011 05:56 61.3	27/02/2011 23:06 61.9
25/02/2011 04:51 59.0	26/02/2011 06:01 61.1	27/02/2011 23:11 51.4
25/02/2011 04:56 58.1	26/02/2011 06:06 61.0	27/02/2011 23:16 59.9
25/02/2011 05:01 57.6	26/02/2011 06:11 60.0	27/02/2011 23:21 61.2
25/02/2011 05:06 59.1	26/02/2011 06:16 61.8	27/02/2011 23:26 60.8
25/02/2011 05:11 59.2	26/02/2011 06:21 61.8	27/02/2011 23:31 60.5
25/02/2011 05:16 59.4	26/02/2011 06:26 60.7	27/02/2011 23:36 59.3
25/02/2011 05:21 58.7	26/02/2011 06:31 50.9	27/02/2011 23:41 59.5
25/02/2011 05:26 59.5	26/02/2011 06:36 61.9	27/02/2011 23:46 59.4
25/02/2011 05:31 59.4	26/02/2011 06:41 53.4	27/02/2011 23:51 59.6
25/02/2011 05:36 58.5	26/02/2011 06:46 57.0	27/02/2011 23:56 61.0

* Exceedance was recorded during monitoring

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



Five Limit Level Exceedances were continuously recorded on 4 February 2011 for 20 minutes during the 2011 Lunar New Year Fireworks Display.
In addition, no construction activity was conducted during the exceedance period. As such, the exceedance was non-project related.

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. 4. Identify source and investigate the cause of exceedance; 5. 5. Carry out analysis of Contractor's working procedures; 6. 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; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. 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 ET 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; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. 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 9.1

Complaint Log

Environmental Complaints Log

No environmental complaint was received in the reporting month.

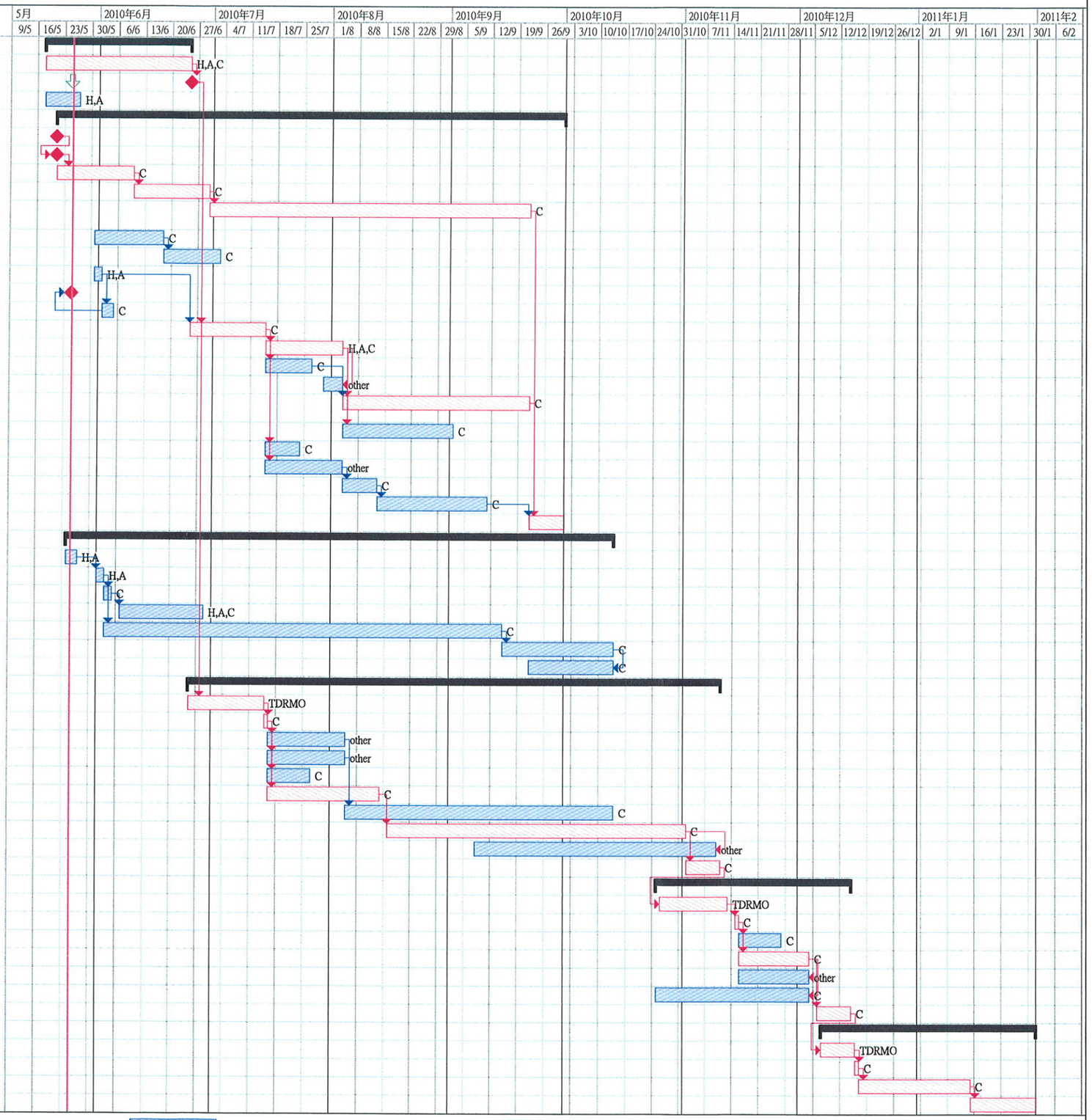
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
-	-	-	-	-	-	-

Appendix 10.1

Construction Programme of Individual Contracts

CHIU HING CONSTRUCTION & TRANSPORTATION CO. LTD.

識別碼		Task Name	工期	開始時間	完成時間	前置任務	資源名稱
1		**Planning & Approval**	**33 days**	**2010/5/18**	**2010/6/24**		
2		Planning of new bus terminus scheme	28 days	2010/5/18	2010/6/24		H,A,C
3		Approval of scheme	0 days	2010/6/24	2010/6/24	2	TD
4		Setting out data of final scheme	7 days	2010/5/18	2010/5/26		H,A
5		**Construction Works - Stage 1**	**114 days**	**2010/5/21**	**2010/9/30**		
6		Issue WO#1	0 days	2010/5/21	2010/5/21		H,A
7		Handling over of extg depot	0 days	2010/5/21	2010/5/21	6	H,A
8		Demolish of existing Depot (superstructure)	14 days	2010/5/21	2010/6/9	7	C
9		Demolish of existing Depot (substructure)	14 days	2010/6/10	2010/6/29	8	C
10		Convert the site depot area into C/W & Xonstruct F/P for Bay 4 (part 1)	60 days	2010/6/30	2010/9/21	9	C
11		Fence Off new RCP location	14 days	2010/5/31	2010/6/17		C
12		Relocation of existing RCP	11 days	2010/6/18	2010/7/2	11	C
13		XP (SSW) for trial trench	2 days	2010/5/31	2010/6/1		H,A
14		Issue WO#2	0 days	2010/5/25	2010/5/25	15SS-7 days	H,A
15		Trial trench to confirm UU (MK,MY)	3 days	2010/6/2	2010/6/4	13	C
16		TTA approval of task 17 t0 25	14 days	2010/6/25	2010/7/14	13,3	C
17		UU meeting & diversion	14 days	2010/7/15	2010/8/3	16	H,A,C
18		Transplant/fell extg trees	8 days	2010/7/15	2010/7/26	16	C
19		Relocate Koisk of Bus operator	3 days	2010/7/30	2010/8/3	17FF	other
20		Convert extg F/P to C/W along Man Kwong St & Yiu St (stage 1B)	35 days	2010/8/4	2010/9/21	17,18	C
21		Construct New Entrance for Bus Terminus	21 days	2010/8/4	2010/9/1	17	C
22		Transplant/fell extg trees at Bay A	7 days	2010/7/15	2010/7/23	16	C
23		Removal of Bus Shelter A	14 days	2010/7/15	2010/8/3	16	other
24		Relocate gullies	7 days	2010/8/4	2010/8/12	23	C
25		Convert Extg bus bay A into C/W	21 days	2010/8/13	2010/9/10	24	C
26		Allowable flow	8 days	2010/9/22	2010/9/30	25,10,20	
27		**Central Reserve of man Kwong St (stage 1C)**	**123 days**	**2010/5/24**	**2010/10/13**		
28		Issue W.O.	3 days	2010/5/24	2010/5/26		H,A
29		XP (SSW) for trial trench	2 days	2010/6/1	2010/6/2	28	H,A
30		Trial trench to confirm UU	2 days	2010/6/3	2010/6/4	29	C
31		UU meeting & diversion	16 days	2010/6/7	2010/6/28	30	H,A,C
32		Tree Transplantation / Removal	74 days	2010/6/3	2010/9/14	29	C
33		Convert verge into C/W	21 days	2010/9/15	2010/10/13	32	C
34		Cable duct & traffic aids	16 days	2010/9/22	2010/10/13	33FF	C
35		**Stage 2 - New Bus bay 1-3, 4a**	**119 days**	**2010/6/25**	**2010/11/10**		
36		Approval of TTA for Stage 2	14 days	2010/6/25	2010/7/14	3	TDRMO
37		Implement TTA	1 day	2010/7/15	2010/7/15	36	C
38		Relocate St lighting (Bay B-H)	14 days	2010/7/16	2010/8/4	37	other
39		Removal of Bus Shelter (B-H)	14 days	2010/7/16	2010/8/4	37	other
40		Tree Transplantation / Removal	7 days	2010/7/16	2010/7/26	37	C
41		Relocate extg gully pits	21 days	2010/7/16	2010/8/13	37	C
42		Convert Bus Bay (B-H) into C/W	50 days	2010/8/5	2010/10/13	38,39	C
43		Construct New Bus Terminal (Bay 1-3,4a)	56 days	2010/8/16	2010/11/1	41	C
44		Construct Bus Shelter(1-3, 4a)	45 days	2010/9/8	2010/11/9	43FF+7 days	other
45		Traffic aids & road marking	7 days	2010/11/2	2010/11/10	43	C
46		**Stage 3 - New Bus bay 4b**	**44 days**	**2010/10/25**	**2010/12/14**		
47		Approval of TTA for Stage 3	14 days	2010/10/26	2010/11/12	45FS-14 days	TDRMO
48		Implement TTA & relocate Bus stop	1 day	2010/11/15	2010/11/15	47	C
49		Relocate extg gully pits	9 days	2010/11/16	2010/11/26	48	C
50		Construct New Bus Terminal (Bay 4b)	14 days	2010/11/16	2010/12/3	48	C
51		Construct Bus Shelter 4b	14 days	2010/11/16	2010/12/3	50FF	other
52		Cable ducts/pits for signalised Junction	30 days	2010/10/25	2010/12/3	50FF	C
53		Traffic aids & road marking	7 days	2010/12/6	2010/12/14	50	C
54		**Stage 4 - New F/P & delinate new site area**	**48 days**	**2010/12/7**	**2011/1/31**		
55		Approval of TTA for Stage 4	7 days	2010/12/7	2010/12/15	53FS-7 days	TDRMO
56		Implement TTA & relocate Bus stop	1 day	2010/12/16	2010/12/16	55	C
57		Construction of new F/P	21 days	2010/12/17	2011/1/14	56	C
58		Allowable Flow	14 days	2011/1/15	2011/1/31	57	



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

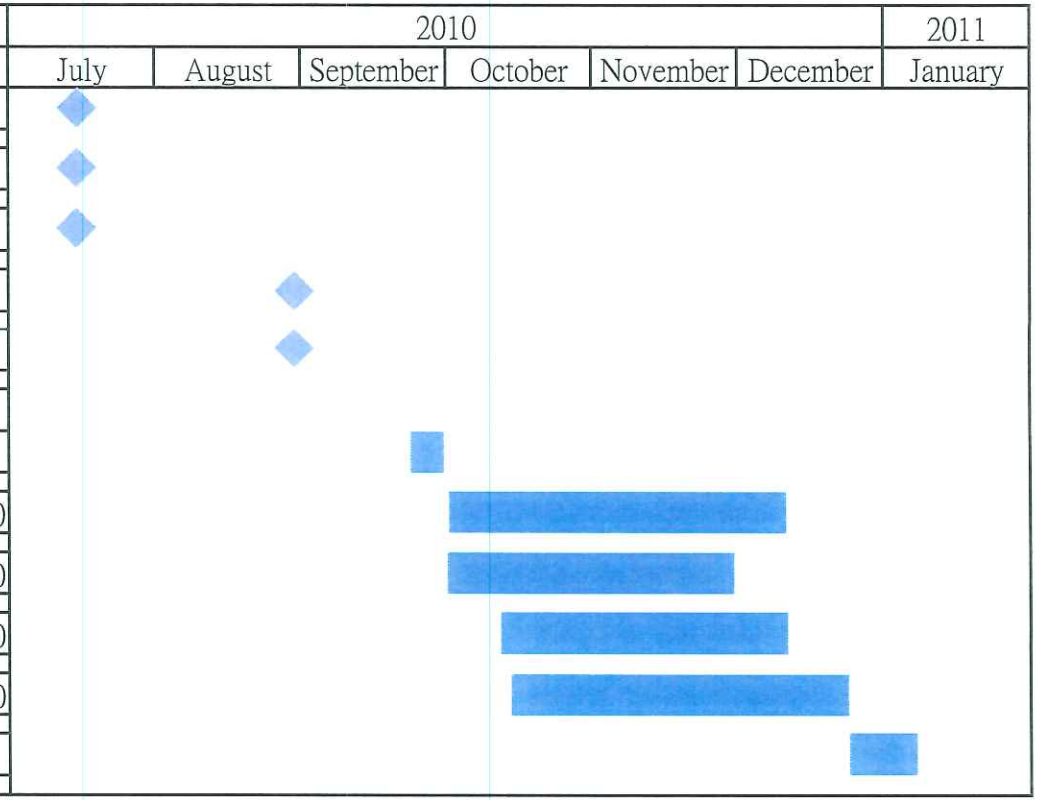
任務 | 任務進度 | 要徑任務 | 要徑任務進度 | 里程碑 | 摘要 | 上顯型任務 | 上顯型要徑任務 | 上顯型里程碑 | 上顯型進度 | 分割 | 外部任務 | 專案摘要 | 摘要群組 | 期限

Contract no. HY/2009/17

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

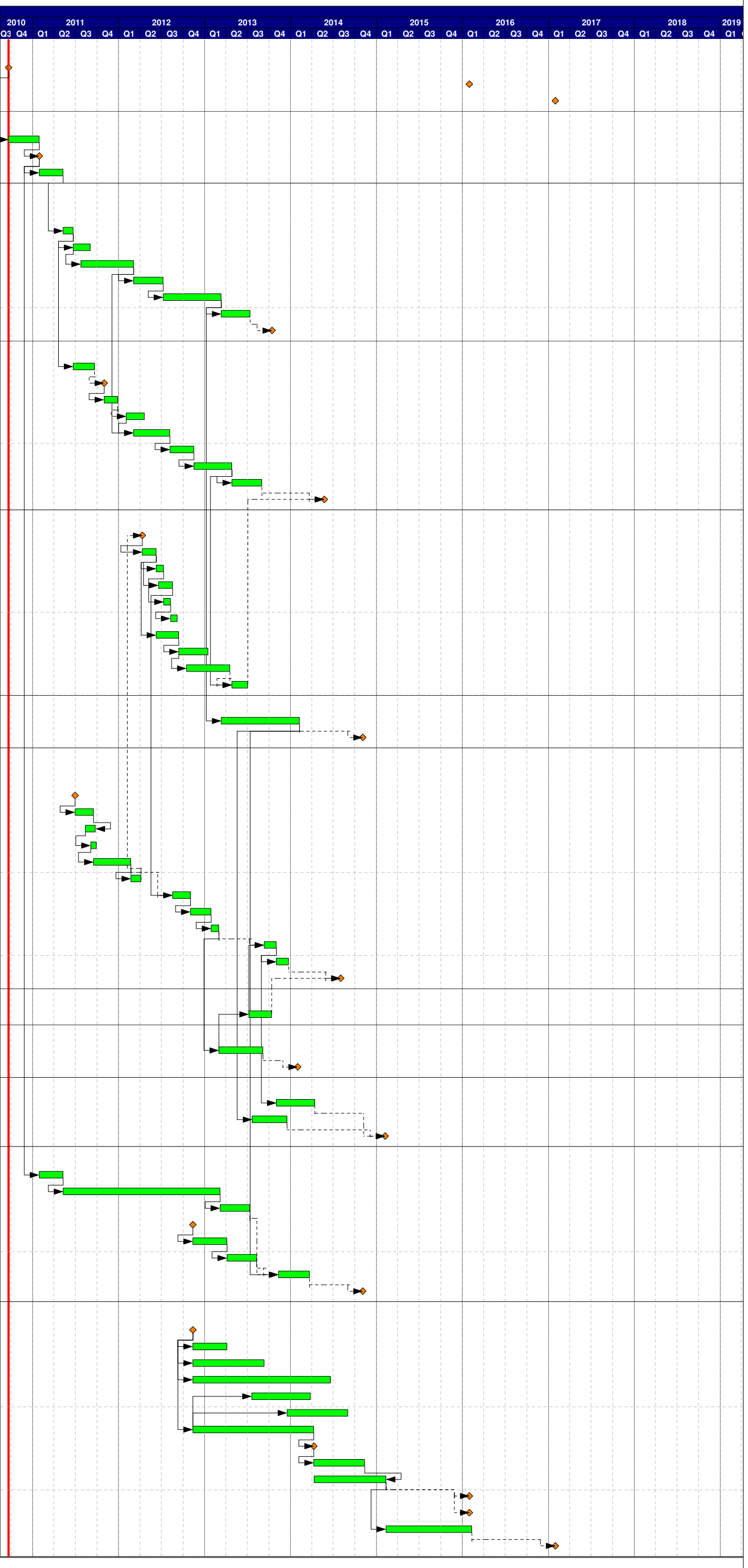
Works Schedule for the Advance Piling Works

ACTIVITY	Duration	START	FINISH
Submissions before Commencement of Piling Works			
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
Installation of Piles			
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



HY/2009/18
Central - Wan Chai Bypass (Central Interchange)

Description	Early Start	Early Finish
DATE FOR COMMENCEMENT & COMPLETION		
Contract Commencement	21SEP10	
Contract Construction Completion		30JAN16 *
Contract DLP and Establishment Works Completion		29JAN17 *
PRELIMINARIES		
Preliminary Submissions / Approvals	21SEP10	28JAN11
Commence Site Mobilisation	29JAN11	
Mobilise, Hoarding & Site Clearance	29JAN11	10MAY11
PORTION IV WORKS		
CWB Tunnel CH1480 to CH1580		
Site Investigation	11MAY11	22JUN11
Construct Guide Walls	23JUN11	03SEP11
Construct D-Wall / Barrettes	25JUL11	04MAR12
ELS Works	05MAR12	08JUL12
Construct CWB Tunnel & Ventilation Building	09JUL12	12MAR13
Works Inside CWB Tunnel	13MAR13	12JUL13
KD-8 Complete		13OCT13 *
CWB Tunnel CH1580 to CH1646		
Construction Diversion for Finance Street	23JUN11	20SEP11
East End of Finance St. Closed		31OCT11 *
Site Investigation	01NOV11	28DEC11
Construct Guide Walls	03FEB12	19APR12
Construct D-Wall / Barrettes	05MAR12	06AUG12
ELS Works	07AUG12	16NOV12
Construct CWB Tunnel	17NOV12	26APR13
Works Inside CWB Tunnel	27APR13	31AUG13
KD-7 Complete		23MAY14 *
CWB Tunnel CH1646 to CH1685		
Man Yiu St. Diverted (Possess Portion IIIA, B)		10APR12 *
Site Clearance & Divert Existing Utilities	11APR12	08JUN12
Site Investigation	09JUN12	10JUL12
Sheet Pile / Pipe Pile / Grouting	19JUN12	17AUG12
Construct Guide Walls	11JUL12	08AUG12
Construct Barrettes	09AUG12	06SEP12
Temporary Works to Support C/W Pipes	09JUN12	12SEP12
ELS Works	13SEP12	14JAN13
Demolish & Reconstruct CWB Tunnel	16OCT12	17APR13
Works Inside CWB Tunnel	27APR13	03JUL13
Surface Works		
Backfill, U/G Services, Roadworks & Landscaping	13MAR13	07FEB14
KD-6 Complete		03NOV14 *
PORTION III WORKS		
CWB Tunnel CH1685 to CH1704		
Access to CRIII Works Area	30JUN11 *	
Works Area within CRIII Preparation	30JUN11	16SEP11
Site Investigation	13AUG11	24SEP11
Construct Guide Walls	05SEP11	28SEP11
Construct D-Wall / Barrettes (thru old seawall)	17SEP11	22FEB12
Construct Man Yiu St. Temporary Diversion	23FEB12	05APR12
ELS Works	18AUG12	01NOV12
Construct CWB Tunnel (excl. roof slab)	02NOV12	28JAN13
Break into Existing CWB Tunnel	29JAN13	02MAR13
Construct CWB Tunnel Roof Slab	11SEP13	01NOV13
Works Inside CWB Tunnel	02NOV13	23DEC13
KD-4 Complete		01AUG14 *
CWB Tunnel CH1704 to CH1825		
Works Inside CWB Tunnel	08JUL13	12OCT13
CWB Tunnel CH1825 to CH2600		
Works Inside CWB Tunnel	03MAR13	05SEP13
KD-5 Complete		31JAN14 *
Surface Works		
Road P1 Roadworks & Landscaping	02NOV13	14APR14
Man Yiu St. Widening Roadworks & Landscaping	22JUL13	16DEC13
KD-3 Complete		06FEB15 *
PORTION V WORKS		
Mobilization, Set up, Utilities Diversion, Tree	29JAN11	10MAY11
Construct Trough B Structure	11MAY11	07MAR13
Works Inside Trough B	08MAR13	11JUL13
Portion VI Access Date	12NOV12 *	
Man Kwon St. W/B Widening	12NOV12	05APR13
Construct Retaining Wall D	06APR13	09AUG13
Remaining Roadworks & Landscaping	11NOV13	22MAR14
KD-9 Complete		03NOV14 *
PORTION VI WORKS		
Portion VI Access Date	12NOV12 *	
Man Kwong St. W/B Widening	12NOV12	05APR13
Retaining Walls F & G	12NOV12	10SEP13
Bridge B	12NOV12	19JUN14
Trough A	20JUL13	26MAR14
Elevated Layby at Rumsey St. Flyover	18DEC13	01SEP14
Bridge A	12NOV12	09APR14
Open Slip Road D / Man Po St.		09APR14
Retaining Walls A & B	10APR14	11NOV14
Remaining U/G Services, Roadworks & Landscaping	11APR14	10FEB15
KD-10 Complete		30JAN16 *
KD-16 Complete		30JAN16 *
Landscaping Establishment (Last Area)	11FEB15	10FEB16
KD-15 Complete		29JAN17 *



Leighton Contractors (Asia) Limited
High Level Programme
(Initial Works Programme IWP0)