



Lam Geotechnics Limited

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

CONTRACT NO: HK/2009/05

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

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

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- DECEMBER 2011 -

CLIENTS:

Civil Engineering and Development
Department

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

18 January 2012

Ref.: AACWBIECEM00_0_2336L.12

18 January 2012

By Post and Fax (2691 2649)

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

Attention: Mr. Kelvin CHENG

Dear Sir,

**Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Monthly Environmental Monitoring and Audit Report (December 2011)
for EP-364/2009/A, FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009,
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 December 2011 dated 18 January 2012.

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 – December 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 November 2011 to 27th December 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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work
- Site investigation and pre-drilling works
- Diaphragm wall construction
- Hoarding erection
- Roadworks
- Grout curtain
- Tree purning

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

- Diaphragm wall construction works for CWB (stage 1).
- Pre-drilling works for CWB (stage 2).
- Pre-bored H pilling works for CWB (stage 1).

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

- Tunnel bored pile works at WCR1 area
- Toe grout at WCR1 area.
- Shear pin at WCR1 area.
- Pumping test at WCR1 area.
- King Post at WCR1 area.
- West bulkhead capping beam.
- Steel deck support for cooling main.

- Working deck B at WCR1.
- Deep excavation of CWB at the eastern area of working deck B.

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

- Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4
- Diaphragm wall construction at TS1 and TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Preparation works and concreting of marine piles
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- D-wall Construction
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T

Noise Monitoring

- iii. Noise monitoring during daytime was conducted at M1a - Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Center; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w – International Finance Centre Eastern and Western End of Podium on a weekly basis. [A limit level exceedance was recorded at M7e on 20 December 2011 during day time. Moreover, two limit level exceedances were recorded at M1a on 29 November and 6 December 2011 during restricted hour.](#) All exceedances were considered non-project related.
- iv. One action level exceedance was recorded referring Contract No. HY/2009/17 and HY/2009/19 regarding one noise complaint regarding to noise were received on 20 December 2011.
- v. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitefield Depot for the piling works in FEHD Whitfield Depot and RTN2 – Tunnel (North Point Section) and Island Eastern Corridor Link. No project related action and limit level exceedance was recorded in the reporting period.

Air Monitoring

- vi. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b - Oil Street Community Liaison Centre; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5a - Children Garden opposite to Pedestrian Plaza; MA1e and MA1w –

International Finance Centre eastern and western wing on every six days basis. No action and limit level exceedance were recorded in the reporting period.

Complaints, Notifications of Summons and Successful Prosecutions

- vii. There were two environmental complaints regarding visual, and air and noise received [on 12 and 20 December 2011, respectively](#). No further complaint was received after follow-up action and investigation in this reporting month.

Site Inspections and Audit

- viii. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/15, HY/2009/17, HY/2009/18, HY/2009/19, HK/2009/01 and HK/2009/02 in this reporting period. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

- ix. 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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work at Man Yiu Street
- Site investigation and pre-drilling works at CR3
- Diaphragm wall construction
- Hoarding erection
- Roadworks at CR3
- Grout curtain
- Sheet-piling
- Tree pruning

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

- Diaphragm Wall construction works for both CWB within HKCEC 1
- Pre-drilling works for CWB at Stage 2.
- Pilling works for CWB at Stage 2.
- Excavation and installation of shoring system for CWB top slab.

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

- Deep excavation works below +1mPD for western tunnel portion and below +4mPD for eastern tunnel portion.
- Toe grout, Shear pile, and Pumping test at WCR1 area.

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

- Diaphragm wall construction at TS4
- ELS works at TS1
- Pumping test and ELS preparation works at TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Remove existing dolphin
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Construction
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T
- Marine Piling

1 INTRODUCTION

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-364/2009A and Further Environmental permit nos. FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009, FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and “*Environmental Monitoring and Audit Requirements*” under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/A, Further Environmental Permit (FEP) nos. FEP-01-364/2009, FEP-02/364/2009, FEP-03/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A during the period 28th November to 27th December 2011. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

- Section 1** ***Introduction*** – details the scope and structure of the report.
- Section 2** ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3** ***Status of Regulatory Compliance*** – summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4** ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5** ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.
- Section 6** ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.



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

2 PROJECT BACKGROUND

2.1 Background

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

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

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

2.2 Scope of the Project and Site Description

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

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

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

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

Table 2.1 Schedule 2 Designated Projects under this Project

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

2.3 Division of the Project Responsibility

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

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

Table 2.2 Details of Individual Contracts under the Project

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

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

2.4 Project Organization and Contact Personnel

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

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

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer for CWB	Principal Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
Lam Woo & CO., LTD.	Contractor under Contract no. HY/2009/17	Project Manager	Mr. K. S. Law	9090 1378	2566 7522
		Site Agent	Mr. Tony Au	9725 5874	2566 7522
		Sub Agent	Mr. Johnny Wong	9725 5870	2566 7522
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	2634 1626
		Operation Manager	Mr. Lau Yee Ching	9466 3918	
		Construction Manager	Mr Jerry Siu	9493 3664	
		Construction Manager	Mr Ricky Lai	9487 6549	
		Construction Manager	Mr KK Yuen	3498 1213	



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
		Environmental Supervisor	Ms. Kiwi Chan	6227 8840	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Chan Sing Cho	3658-3002	2827 9996
		Site Agent	Mr. Mak Kam Wing	3658-3044	
		Deputy Site Agent	Mr. Anthony Wu	3658-3004	
		Quality & Environmental Manager	Mr. C.P. Ho	3658-3000	
		Environmental Officer	Ms Flora Ng	3658-3064	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013
		Site Agent	Mr. Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Mr. Simon Wong	9281 4346	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
Leighton Contractors (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Brian Gillon	2214 7700	2140 6799
		Deputy Site Agent	Mr. Desmond Sze	2214 7703	
		Environmental Officer	Mr. Anfernee Chow	2214 7721	
		Environmental Supervisor	Mr. Dennis Yu	2214 7738	
		Environmental Supervisor	Ryan Tsui	2214 7705	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Manager	Mr. M Y Wong	2823 7879	2566 2192
		Site Agent	Mr. P J Fan	3557 6368	
		Head of construction	Mr. Roger Cheung	3557 6371	
		Environmental Officer	Mr. Daniel Sin	3557 6215	
		Environmental Supervisor	Mr. Kelven Yip	3557 6347	
		Environmental Supervisor	Mr. Tim Fung	3557 6349	

Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Supervisor	Mr. Hilda Lau	3557 6378	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

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

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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work
- Site investigation and pre-drilling works
- Diaphragm wall construction
- Hoarding erection
- Roadworks
- Grout curtain
- Tree pruning

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

- Diaphragm wall construction works for CWB (stage 1).
- Pre-drilling works for CWB (stage 2).
- Pre-bored H piling works for CWB (stage 1).

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

- Tunnel bored pile works at WCR1 area
- Toe grout at WCR1 area.
- Shear pin at WCR1 area.
- Pumping test at WCR1 area.
- King Post at WCR1 area.
- West bulkhead capping beam.
- Steel deck support for cooling main.
- Working deck B at WCR1.

- Deep excavation of CWB at the eastern area of working deck B.

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

- Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4
- Diaphragm wall construction at TS1 and TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Preparation works and concreting of marine piles
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- D-wall Construction
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T

2.4.4. 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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work at Man Yiu Street
- Site investigation and pre-drilling works at CR3
- Diaphragm wall construction
- Hoarding erection
- Roadworks at CR3
- Grout curtain
- Sheet-piling
- Tree purning

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

- Diaphragm Wall construction works for both CWB within HKCEC 1
- Pre-drilling works for CWB at Stage 2.

- Pilling works for CWB at Stage 2.
- Excavation and installation of shoring system for CWB top slab.

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

- Deep excavation works below +1mPD for western tunnel portion and below +4mPD for eastern tunnel portion.
- Toe grout, Shear pile, and Pumping test at WCR1 area.

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

- Diaphragm wall construction at TS4
- ELS works at TS1
- Pumping test and ELS preparation works at TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Remove existing dolphin
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Construction
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T
- Marine Piling

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	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Valid

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

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

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

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

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

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

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

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

- 3.1.4. The construction works was completed, and the FEP was surrendered by the Contractor on 11 February 2011.

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 3.4** and **Table 3.5**

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0680-11	22 Jul 2011	24 Jul 2011 to 19 Jan 2012	Valid
	GW-RS0689-11	28 Jul 2011	29 Jul 2011 to 28 Jan 2012	Cancelled
	GW-RS0832-11	7 Sep 2011	03 Sep 2011 to 02 Mar 2012	Valid
	GW-RS0850-11	12 Sept 2011	14 Sept 2011 to 13 Mar 2012	Valid
	GW-RS0851-11	12 Sept 2011	16 Sept 2011 to 15 Mar 2012	Valid
	GW-RE0683-11	16 Sept 2011	20 Sept 2011 to 19 Oct 2012	Valid
	GW-RE0716-11	28 Sept 2011	07 Oct 2011 to 29 Mar 2012	Valid
	GW-RS1031-11	02 Nov 2011	07 Nov 2011 to 05 May 2012	Valid
	GW-RS1094-11	23 Nov 2011	27 Nov 2011 to 26 May 2012	Valid
Discharge Licence	WT00006220- 2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641- 2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134- C3585-01	21 Jan 2010	N/A	Valid

Table 3.5 Summary of submission status under FEP-02/364/2009

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

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

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

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0011-11	27 April 2011	1 June 2011 to 30 Nov 2011	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0579-11	22 June 2011	17 July 2011 to 16 Jan 2012	Valid
	GW-RS0649-11	22 July 2011	1 Aug 2011 to 31 Jan 2012	Valid
	GW-RS0716-11	2 Aug 2011	12 Aug 2011 to 11 Feb 2012	Valid
	GW-RS0723-11	12 Aug 2011	15 Aug 2011 to 14 Feb 2012	Valid
	GW-RS0833-11	8 Sept 2011	10 Sept 2011 to 4 Mar 2012	Valid
	GW-RE0710-11	30 Sept 2011	1 Nov 2011 to 30 Apr 2012	Valid
	GW-RS0918-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0930-11	11 Oct 2011	1 Nov 2011 to 30 Apr 2012	Valid
	GW-RS0931-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0941-11	20 Oct 2011	23 Nov 2011 to 22 May 2012	Valid
	GW-RS0955-11	14 Oct 2011	23 Nov 2011 to 22 May 2012	Valid
	GW-RS0968-11	20 Oct 2011	18 Nov 2011 to 17 May 2012	Valid
	GW-RS0983-11	24 Oct 2011	26 Oct 2011 to 23 April 2012	Valid
	GW-RS0984-11	25 Oct 2011	30 Oct 2011 to 27 April 2012	Valid
	GW-RS1028-11	3 Nov 2011	7 Dec 2011 to 6 June 2012	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1052-11	18 Nov 2011	21 Nov 2011 to 18 May 2012	Valid
	GW-RS1116-11	28 Nov 2011	13 Dec 2011 to 12 June 2012	Valid
	GW-RS1111-11	28 Nov 2011	29 Nov 2011 to 28 May 2012	Valid
	GW-RS1116-11	28 Nov 2011	13 Dec 2011 to 12 June 2012	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid

Table 3.7 Summary of submission status under FEP-01/364/2009

EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.7 & 2.8	Works Schedule and Location Plan	14 Jun 2011
Special Conditions, Clause 2.6	Environmental Management Organization Chart	14 Jun 2011
Special Conditions, Clause 2.6	Commencement Date of Works	21 Jun 2011
Special Conditions, Clause 2.9	Noise Management Plan	28 Jun 2011

EP Condition	Submission	Date of Submission
Condition 2.11	Landscape Plan	23 Aug 2011
Condition 2.9	Noise Management Plan (Rev.A)	28-Sep-11

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 3.8 and Table 3.9.

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Permit issued	Valid
Notification of Works Under APCO	322293	07 Oct 2010	Notified	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0993-11	28 Oct 2011	28 Oct 2011 – 25 Apr 2012	Valid
Discharge Licence	WT00008229-2011	13 Jan 2011	31 Jan 2016	Valid
Registration as a Waste Producer	WPN: 8335-121-L1048-04	17 Dec 2010	N/A	Registration completed
Billing Account under Waste Disposal Ordinance (Land)	Account No.: 7011587	11 Oct 2010	Account approved	Valid

Table 3.9 Summary of submission status under FEP-05/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	01 March 2011
Condition 2.10	Landscape Plan (Rev. 4)	3 August 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 3.10** and **Table 3.11**

Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0749-11	11 Aug 2011	15 Aug 2011 to 7 Feb 2012	Valid
	GW-RS1021-11	4 Nov 2011	10 Nov 2011 to 9 May 2012	Valid
	GW-RS0847-11	14 Sep 2011	19 Sep 2011 to 16 Mar 2012	Canceled
	GW-RS1153-11	9 Dec 2011	12 Dec 2011 to 16 Mar 2012	Valid
	GW-RS0858-11	16 Sep 2011	18 Sep 2011 to 16 Mar 2012	Valid
	GW-RS1211-11	22 Dec 2011	24 Dec 2011 to 21 Jun 2012	Valid
	GW-RS0883-11	4 Oct 2011	5 Oct 2011 to 4 Apr 2012	Valid
	GW-RS0820-11	5 Sep 2011	8 Sep 2011 to 7 Mar 2012	Valid
	GW-RS1149-11	7 Dec 2011	8 Dec 2011 to 7 Jun 2012	Valid
	GW-RS1138-11	7 Dec 2011	8 Dec 2011 to 21 May 2012	Valid
	GW-RS1190-11	30 Dec 2011	22 Dec 2011 to 21 Jun 2012	Valid
Construction Noise Permit (CNP) for Loading Works at Siu Ho Wan	GW-RS0997-11	2 Nov 2011	2 Nov 2011 to 2 May 2012	Valid
Construction Noise Permit (CNP) for Dredging and Filling	GW-RS1021-11	4 Nov 2011	10 Nov 2011 to 9 May 2012	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	28 Apr 2011	1 May 2011 to 30 Oct 2011	Valid
Water Discharge Licence (Discharge at Portion VII)	WT00008780-2011	22 Mar 2011	22 Mar 2011 to 31 Mar 2016	Valid
Water Discharge Licence (Discharge at Hung Hing Road)	WT00010482-2011	30 Sep 2011	30 Sep 2011 to 30 Sep 2013	Valid
Water Discharge Licence (Discharge at TPCWAE)	WT00011322-2011	15 Dec 2011	15 Dec 2011 to 31 Dec 2013	Valid

Table 3.11 Summary of submission status under FEP-06/364/2009/A

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

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

- 3.1.9. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-07/364/2009/A for contract no. HY/2009/19 are shown in **Table 3.12** and **Table 3.13**.

Table 3.12 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19

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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Application for Vessel Disposal	7012306	21 July 2011	N/A	Valid
Construction Noise Permit (CNP)	GW-RS1097-11	22-Nov-11	07-May-12	Valid
Water Discharge Licence	WT00010093-2011	31-Aug-11	30-Sep-16	Valid
	WT00010865-2011	3-Nov-11	30-Nov-16	Valid

Table 3.13 Summary of submission status under FEP-07/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	02 Jun 2011
Condition 2.13	Landscape Plan	7 July 2011
Condition 2.9	Noise Management Plan(Rev.2)	28-Oct-11

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. Review of feasibility on the real time noise monitoring stations was conducted in July with IEC. Station, RTN1a, Tung Lo Wan fireboat Station was found not appropriate to be a monitoring station for monitoring the IECL Piling works and Demolition after visited.
- 4.1.3. 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

- 4.1.4. 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.

- 4.1.5. 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.
- 4.1.6. 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.
- 4.1.7. 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

- 4.1.8. As referred to in the Technical Memorandum TM issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.9. 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.
- 4.1.10. 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
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Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point (Re-commenced on 14 November 2011)
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Garden opposite to Pedestrian Plaza	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (western End of Podium)	Central

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

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

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

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.

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

LABORATORY MEASUREMENT / ANALYSIS

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

4.2.8. Filter paper of size 8" x 10" shall be labelled 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.**

5.0 MONITORING RESULTS

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

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

- Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A
- Contract no. HY/2009/17 – Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works under FEP-03/364/2009
- Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A
- Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009
- Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre
- Contract no. HK/2009/02 Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai East

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

5.1 Noise Monitoring Results

5.1.1. The noise monitoring at stations were M1a and M5b during day time, M3a, M4b, M5b and M6 during restricted hour were rescheduled on 13 October 2011 due to rain.

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

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

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

Station	Description
M4b	Victoria Centre

5.1.3. One action level exceedance was recorded regarding one noise complaint regarding to noise were received on 20 December 2011.

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

- 5.1.5. Noise monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 22 April 2011. The proposed division of noise monitoring stations for Contract no. HY/2009/18 are summarized in **Table 5.2** below:

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

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

- 5.1.6. One non-project related limit level exceedance was recorded on 20 December 2011 at M7e during day time. Since traffic noise contributed in front of car park of IFC. It was considered the exceedance was not project related.
- 5.1.7. 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.** Details of the Notification of Exceedance can be referred in **Appendix 6.2.**

Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention 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

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

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

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.9. Two limit level exceedances were recorded at M1a on 29 November and 6 December 2011 during restricted hour for the contractor of HK/2009/02. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool and contractor complied with the requirement in valid CNP during restricted hours noise monitoring.

- 5.1.10. 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**. Details of the Notification of Exceedance can be referred in **Appendix 6.2**.

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

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

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

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

- 5.1.12. No action level and limit level 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**

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

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

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

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

- 5.1.14. One action level exceedance was recorded regarding one noise complaint regarding to noise were received on 20 December 2011.

- 5.1.15. No limit level 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**

5.2 Real Time Noise Monitoring Results

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

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

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

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

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

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

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

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

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

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

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

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

5.3 Air Monitoring Results

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

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

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

Station	Description
CMA1b	Oil Street Community Liaison Centre

CMA2a	Causeway Bay Community Centre
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5.3.2 Due to lack of electricity supply, 24hr-TSP at CMA2a was rescheduled from 12 December 2011 to 13 December 2011

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

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

5.3.4 Air monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 21 April 2011. The proposed division of air monitoring stations are summarized in **Table 5.9** below.

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

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

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

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

5.3.6 The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011. Air quality monitoring was commenced on 25 August 2011. 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

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

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

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

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

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

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

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

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

Station	Description
CMA3a	CWB PRE Site Office

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

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

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

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

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

- 5.3.12 24-hr TSP monitoring at CMA2a was re-scheduled from 12 Dec to 13 Dec 11.
- 5.3.13 No exceedance was recorded at CMA2a in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in **Appendix 5.3**.

5.4 Waste Monitoring Results

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

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

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

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

Contract 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

- 5.4.2. Inert and non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.15**.

Table 5.15 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	536.10	5764.18	TKO137, TM38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	29.72	168.98	SENT Landfill
Non-inert C&D materials recycled	8560	19023	N/A
Chemical waste disposed	220	1520	Kwun Kee (Chemical Waste Collector)

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

- 5.4.3. Inert C&D & non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.16**.

Table 5.16 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	5,239	62,689	TKO137, TM 38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	35	126	SENT Landfill

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

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

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

Table 5.17 Details of Waste Disposal for Contract no. HY/2009/18

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	1381	10751.1	T.K.O. 137
Inert C&D materials recycled	NIL	58.5	N/A
Non-inert C&D materials disposed	5	202.6	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

- 5.4.5. Inert & Non-inert C&D wastes were 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/2009/15

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	310.4	2770	TKO137 FB
	3881.7	19,162.8	Tuen Mun Area 38
Inert C&D materials recycled	NIL	413	N/A
Non-inert C&D materials disposed	10.8	88	SENT Landfill
Non-inert C&D materials recycled	150	211.3	N/A
Chemical waste disposed	2,200	6,000	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

- 5.4.6. Only Non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.19**.

Table 5.19 Details of Waste Disposal for Contract no. HY/2009/19

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	630.954	N/A
Non-inert C&D materials disposed	6.99	20.341	SENT Landfill
Non-inert C&D materials recycled	0.09	0.09	N/A
Chemical waste disposed	NIL	0.1	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. One action level exceedance was recorded regarding one noise complaint regarding to noise were received on 20 December 2011.

6.1.2. No limit level 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. One non-project related limit level exceedance was recorded on 20 December 2011 during day time at M7e. Since traffic noise contributed in front of car park of IFC during monitoring. It was considered the exceedance was not project related.

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

6.1.4. No exceedance was recorded in the reporting month.

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

6.1.5. No action level and two limit level exceedances were recorded at M1a on 29 November and 6 December 2011 during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring and contractor complied with the requirement in valid CNP during restricted hours noise monitoring.

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

6.1.6. No exceedance was recorded in the reporting month.

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

6.1.7. One action level exceedance was recorded regarding one noise complaint regarding to noise were received on 20 December 2011.

6.1.8. No limit level exceedance was recorded in the reporting month.

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

6.1.9. No exceedance was recorded in the reporting month.

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

6.1.10. No exceedance was recorded in the reporting month.

6.2 Air Monitoring

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

6.2.1. 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

6.2.2. No exceedance was recorded in the reporting month.

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

6.2.3. No exceedance was recorded in the reporting month.

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

6.2.4. No exceedance was recorded in the reporting month.

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

6.2.5. No exceedance was recorded in the reporting month.

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

6.2.1. No exceedance was recorded in the reporting month.

6.3 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.

6.4 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), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel).

7.0.2. From the Monthly EM&A report (November 2011) of Central Reclamation Phase III the key works in December 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 GPO boundary wall
- Construction of PLA boundary wall
- Construction of Promenade enhancement works
- Construction of buildings at PLA berth
- Installation of cooling mains discharge pipes in FRAE and FRAW
- Backfilling of CWB structure
- Importation of fill material

7.0.3. According to the construction programme of Central Reclamation Phase III, Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Central Reclamation Phase III were general filling works in IRAE; Wan Chai Development Phase II was marine works at HKCEC areas, cross-harbour Watermains, Fresh Watermains, Cooling Watermains and Salt Watermains Installations, tunnel works at Wan Chai East, seawall block construction, reclamation work and diaphragm wall construction at TS4; Diaphragm wall construction at TS1 and TPCWAE TCBR1W. Advanced piling works at FEHD Whitfield Depot, Central Interchange, and diaphragm wall construction at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activity were advance filling works at TS4, Diaphragm wall construction at TS1 and TPCWAE TCBR1W, piling works at FEHD Whitfield Depot, Diaphragm wall at Central and North Point and tunnel works at Wan Chai East in the reporting month.

7.0.4. The major environmental impacts generated from CRIII advanced piling works at FEHD Whitfield Depot were undertaken and Diaphragm wall construction at Central and tunnel works at Wan Chai East, IECL and Causeway Bay typhoon shelter in the reporting month. No significant air, noise impact were anticipated in the reporting month. Besides, no Project-related exceedance was recorded during the environmental monitoring events 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/2009/15, HY/2009/17, HY/2009/18, HY/2009/19, HK/2009/01 and HK/2009/02. No non-conformance was identified during the site audits.

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

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

Item	Date	Observations	Action taken by Contractor	Outcome
111129_01	29-Nov-11	Silty water was observed slightly leaking outside the silt curtain for the protection of seawall collapsed. Investigation found that the seabed was distributed by compressed air for the rectification works. The contractor should review the silt curtain and deploy suitable silt curtain for the operation.	Review the silt curtain and deploy suitable silt curtain for the operation	Completion as observed on 6-Dec-11
111129_02	29-Nov-11	Milky water was discharged at the discharge point after treatment. The contractor was reminded to review the efficiency of the system (TS1).	Review the efficiency of the waste water treatment system	Completion as observed on 6-Dec-11
111206_01	6-Dec-11	Drip tray shall be provided for chemical storage (Ex-TPCWA).	Provide drip tray for chemical storage	Completion as observed on 13-Dec-11
111206_02	6-Dec-11	Packed cement bags shall be covered by tarpaulin (Ex-TCPWA).	covered packed cement bags by tarpaulin	Completion as observed on 13-Dec-11
111213_01	13-Dec-11	Oil leakage from an oil drum was observed at TS1. The contractor was reminded to provide drip tray and proper label. Moreover, the oil stains needed to be treated with proper treatment.	Provide drip tray and proper label. Moreover, the oil needed to be treated with proper treatment.	Completion as observed on 20-Dec-11
111220_01	20-Dec-11	Drip tray shall be provided for chemical storage (TS1, ExTCPWA).	Drip tray provided for chemical storage	Completion as observed on 29-Dec-11
111220_02	20-Dec-11	Floating refuse shall be collected (TS1, TS4).	Collect floating refuses	Completion as observed on 29-Dec-11
111220_03	20-Dec-11	Waste water from site cleaning shall be collected and treated properly prior discharge (Entrance of CWB PRE site office).	Treat and collect the surface runoff outside site boundary.	Completion as observed on 29-Dec-11
111220_04	20-Dec-11	Sloping seawall shall be properly protected by geotextile (TS4).	Protect the sloping seawall properly	In progress

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

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

Item	Date	Observations	Action taken by Contractor	Outcome
111201_01	1-Dec-11	Idle stockpiles shall be covered by tarpaulin (C1, CR3).	Cover idle stockpile by tarpaulin	Completion as observed on 8-Dec-11
111208_01	8-Dec-11	Contractor was reminded to provide drip tray for any chemical containers.	provide drip tray for any chemical containers	Completion as observed on 22-Dec-11
111222_01	22-Dec-11	Surface runoff outside the site boundary at Man Yiu Street shall be collected. Also, the gaps shall be blocked.	Treat and collect the surface runoff outside site boundary.	Completion as observed on 29-Dec-11
111222_02	22-Dec-11	Drip tray shall be provided for chemical storage. (Man Yiu street footpath)	provide drip tray for any chemical containers	Completion as observed on 29-Dec-11

- 8.0.4. Four site inspections for Contract no. HY/2009/19 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.3**.

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

Item	Date	Observations	Action taken by Contractor	Outcome
111130_01	30-Nov-11	The contractor was reminded to repair the plants that were leaking oil during operation as far as practicable. Otherwise, proper protections for the oil spillage should be provided (temp. platform F4 in front of city garden).	Provide protection for the oil leakage plants	Completion as observed on 7-Dec-11
111207_01	7-Dec-11	The silt curtain at temporary works platform shall be improved.	Improve the silt curtain for temporary works platform	Completion as observed on 14-Dec-11
111214_01	14-Dec-11	The contractor was reminded to review the wheel washing procedures at Watson Road until the wheel washing facilities can be installed.	Review the wheel washing procedures at Watson Road	Completion as observed on 19-Dec-11

- 8.0.5. Four site inspections for Contract no. HK/2009/01 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.4**.

Table 8.4 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by Contractor	Outcome
111130_01	30-Nov-11	Oil stain on the bare ground at HKCEC3w shall be proper cleared up and disposed as	Proper cleared up and disposed the oil strain as	Completion as observed on 7-DEC-11

Item	Date	Observations	Action taken by Contractor	Outcome
		chemical waste.	chemical waste	
111130_02	30-Nov-11	Sand bags along the site access at north-bound up of HKCEC shall be enhanced to avoid spillage of wastewater out of site boundary.	Replace the new sandbags	Completion as observed on 7-DEC-11
111207_01	7-Dec-11	Excavator located Convention Avenue shall be repaired to avoid oil leakage. Beside, the drip try next to the excavator shall be repaired.	Repair the plant and drip tray	Completion as observed on 30-DEC-11
111207_02	7-Dec-11	The tress at TST shall be regularly watered.	Water the tree	Completion as observed on 14-DEC-11
111214_01	14-Dec-11	Oil leakage from crawler crane was found at HKCEC1. Maintenance work for this plant shall be provided. The contaminated soil on the base ground shall be removed and disposed with proper procedure.	Repair the plant and collect the contaminated soil and disposed with proper procedure	Completion as observed on 23-Nov-11
111221_01	21-Dec-11	Contaminated soil at HKCEC1 shall be removed and handled as chemical waste.	Collect the contaminated soil and disposed with proper procedure	Completion as observed on 30-DEC-11
111221_02	21-Dec-11	The edge of soil screen at HKCEC1 shall be maintained and improved.	maintained and improved the edge of soil screen	Completion as observed on 30-DEC-11
111221_03	21-Dec-11	The deployed silt curtain adjacent to VIP drop off area shall be improved.	Improve the silt curtain	Completion as observed on 30-DEC-11
111221_04	21-Dec-11	The soil found at the edge of TST shall be trimmed-off.	Trimmed-off the soil at the edge	Completion as observed on 30-DEC-11

8.0.6. Four site inspections for Contract no. HK/2009/02 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.5**.

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
111201_01	1-Dec-11	Oil leakage from an excavator was found at Wan Shing Street. Contractor shall provide the maintenance work to the plant and remove contaminated soil as chemical waste.	Provide the maintenance work to the plant and remove contaminated soil as chemical waste.	Completion as observed on 8-Dec-11
111201_02	1-Dec-11	Worn sandbags located at seafront near Sun Hung Kei intakes shall be replaced.	Replace the new sandbags	Completion as observed on 8-Dec-11
111201_03	1-Dec-11	Drip tray shall be placed underneath the oil containers	Provide drip tray for chemical	Completion as observed on 8-Dec-

Item	Date	Observations	Action taken by Contractor	Outcome
		at ex-pet Garden.	storage	11
111201_04	1-Dec-11	Contractor was reminded that no wastewater shall be leaking from the truck during transportation.	Ensure the soil is dry enough before transport	Completion as observed on 8-Dec-11
111208_01	8-Dec-11	Oil leakage was found from the crawler crane at ex-Pet Garden. Plants maintenance shall be provided be contaminated soil shall be handle as chemical waste with proper procedure.	Repair the plant and collect the contaminated soil and disposed with proper procedure	Completion as observed on 15-Dec-11
111208_02	8-Dec-11	Ponding water shall be avoided to accumulate at the site near western seawall.	Review and maintain a proper site drain	Completion as observed on 15-Dec-11
111208_03	8-Dec-11	Floating fine particle near western seawall shall be removed.	Remove the fine particle	Completion as observed on 15-Dec-11
111215_01	15-Dec-11	Permanent protective measures shall be provided for the oil leakage plants if the leakages could not be prevented. (Ex Pet Garden)	Provide permanent protective measures to the oil leakage plants	Completion as observed on 19-Dec-11
111215_02	15-Dec-11	C & D materials inside drip tray shall be collected (Ex-Pet Garden).	Collect the C&D materials.	Completion as observed on 19-Dec-11
111219_01	19-Dec-11	Maintenance work shall be provided to the derrick barge (城堡 3) to avoid dark smoke emission.	Provide maintenance work to the derrick barge	Completion as observed on 29-Dec-11
111219_02	19-Dec-11	Oil drum located at Wan Shing Street shall be placed underneath the drip tray.	Provide drip tray for chemical storage	Completion as observed on 29-Dec-11

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

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. Two environmental complaints were received on 12 and 20 December 2011 in the reporting month.
- 9.0.2. A visual impact complaint from hotline 1823 was received by ET on 9 January 2012 (ICC Ref. No.: ICC#1-333037096 dated on 12 December 2011). The complaint, Mr Tsui reported that visual nuisance caused by lighting in the construction site regarding HY/2009/18 during night time. A joint inspection was conducted by Mr. Tsui and contractor on that night to see whether there is any improvement.
- 9.0.3. Due to safety reason, igniting enough lights should not be avoided in construction site. However, the light sources were not directed away from pointing to the sensitive receiver and results in visual glare to the complaint
- 9.0.4. Confirmed with the Resident Site Staff the complainant was satisfied the new arrangement of the lights with contractor after the joint inspection. No further complaint received after that.
- 9.0.5. The second complaint was raised from the complainant, Ms. Poon complained via hotline 1823 (Ref no.: 1-334683841) regarding the construction air and noise nuisance generated that many trucks carrying construction materials driving along Watson Road and Oil Street relevant to the contractor no. HY/2009/17 and HY/2009/19 and possibly entering/leaving the construction site near the Island Eastern Corridor during 0800 to 1900 hours on 20 December 2011.
- 9.0.6. The dominant construction air and noise nuisances were emitted from the trucks along Oil Street and Waston Road, however, this is the public road for all vehicules. Reviewing the air quality monitoring and noise monitoring results. No exceedance was recorded during this period.
- 9.0.7. Since The complainant cannot identify whether the trucks were working under the CWB project or not, CWB RSS provided a contact no. for any future enquiries regarding CWB project to the complainant and she was satisfied on the arrangement and no further complaint was received after that.
- 9.0.8. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.9. 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
December 2011	2
Sep 10 to November 11	13
Total	15



Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10. CONCLUSION

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

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

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	• Diaphragm wall construction at TS4 • ELS works at TS1 • Pumping test and ELS preparation works at TPCWAE • Night time protection works at CHT • Construction of dewatering well at Hung Hing Road and POC • Precautionary works at Abutment A	• Watering any dust generating activities • Checking all drip trays frequently and clear any stagnant water and mud inside it. • Noise control measures shall be provided during restricted hours.
HY/2009/17	• ELS works for basement construction for pile cap construction.	• Noise barrier shall be implemented; and • Watering any dust generating activities
HY/2009/18	• Instrumentation works for Manholes and Intake Culvert Survey • Excavation of trial pit • Drainage work at Man Yiu Street • Site investigation and pre-drilling works at CR3 • Diaphragm wall construction • Hoarding erection • Roadworks at CR3 • Grout curtain • Sheet-piling • Tree purning	• Noise barrier shall be implemented; and • Noise level shall be controlled by reducing piling rate and no. of plants working in parallel. • Dust control during dust generating works

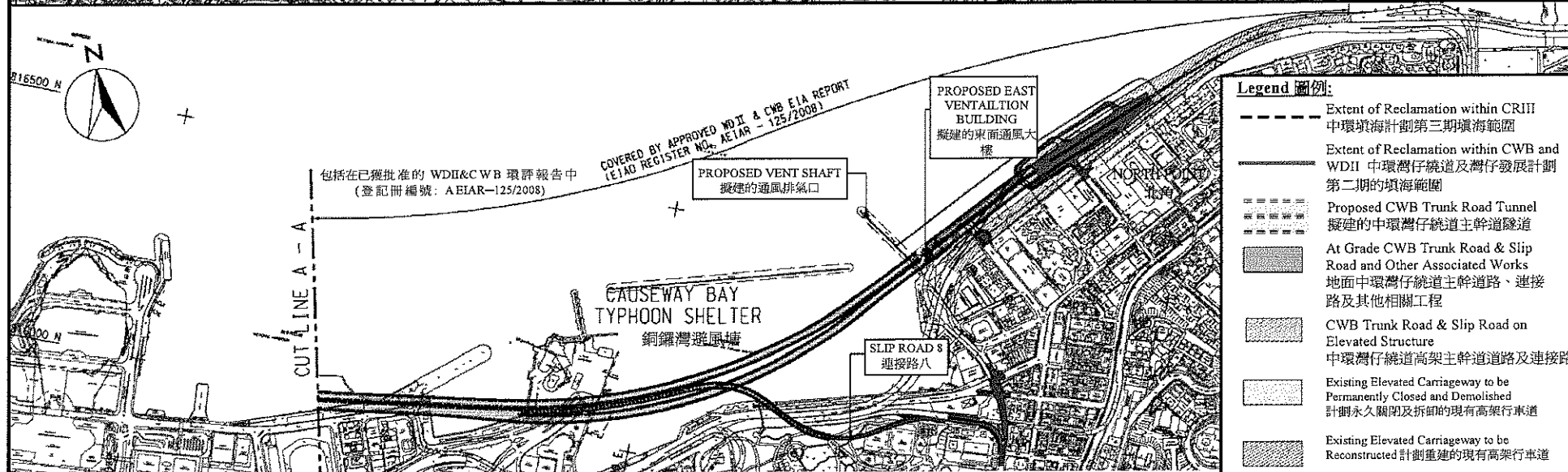
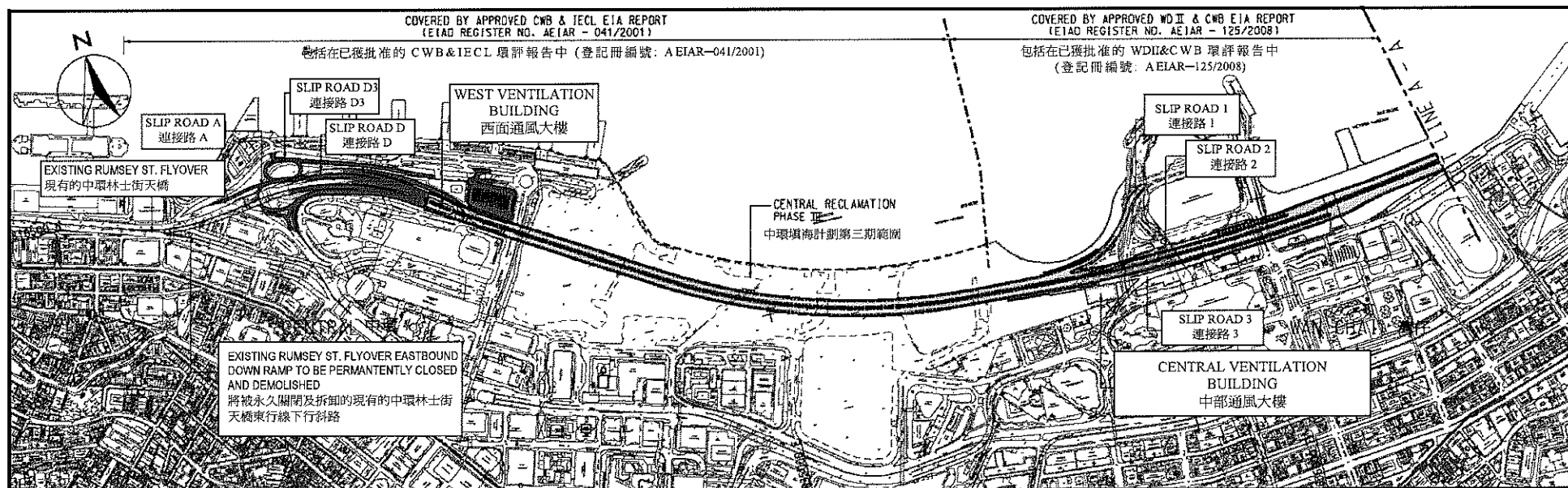
HY2009/19	- Remove existing dolphin - Road works at Watson Road - Fabrication of bored piling platform - Bored piling - Ground contamination assessment - Pre-drilling works for bored pile and Diaphragm wall - D-wall Construction - Sheet piling for Box Culvert T - Construction works for Box Culvert T - Marine Piling	- Noise level shall be controlled by reducing the operation rate. - Noise barrier shall be deployed for dolphin pier removal.
HK2009/01	- Diaphragm Wall construction works for both CWB within HKCEC 1 - Pre-drilling works for CWB at Stage 2. - Pilling works for CWB at Stage 2. - Excavation and installation of shoring system for CWB top slab.	- Noise level shall be controlled by reducing pilling rate. - Well maintain the enclosures for grouting and bentonite mixing plants.
HK/2009/02	- Deep excavation works below +1mPD for western tunnel portion and below +4mPD for eastern tunnel portion. - Toe grout, Shear pile, and Pumping test at WCR1 area.	- Noise level shall be controlled by reducing pilling rate. - Well maintain the enclosures for grouting and bentonite mixing plants.

10.0.3. The construction works of Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A was completed, and the FEP was surrendered by the Contractor on 11 February 2011.



Figure 2.1

Project Layout



Legend 圖例:

- Extent of Reclamation within CRIII 中環填海計劃第三期填海範圍
- Extent of Reclamation within CWB and WDII 中環灣仔繞道及灣仔發展計劃第二期的填海範圍
- Proposed CWB Trunk Road Tunnel 擬建的中環灣仔繞道主幹道隧道
- At Grade CWB Trunk Road & Slip Road and Other Associated Works 地面中環灣仔繞道主幹道路、連接路及其他相關工程
- CWB Trunk Road & Slip Road on Elevated Structure 中環灣仔繞道高架主幹道路及連接路
- Existing Elevated Carriageway to be Permanently Closed and Demolished 計劃永久關閉及拆卸的現有高架行車道
- Existing Elevated Carriageway to be Reconstructed 計劃重建的現有高架行車道

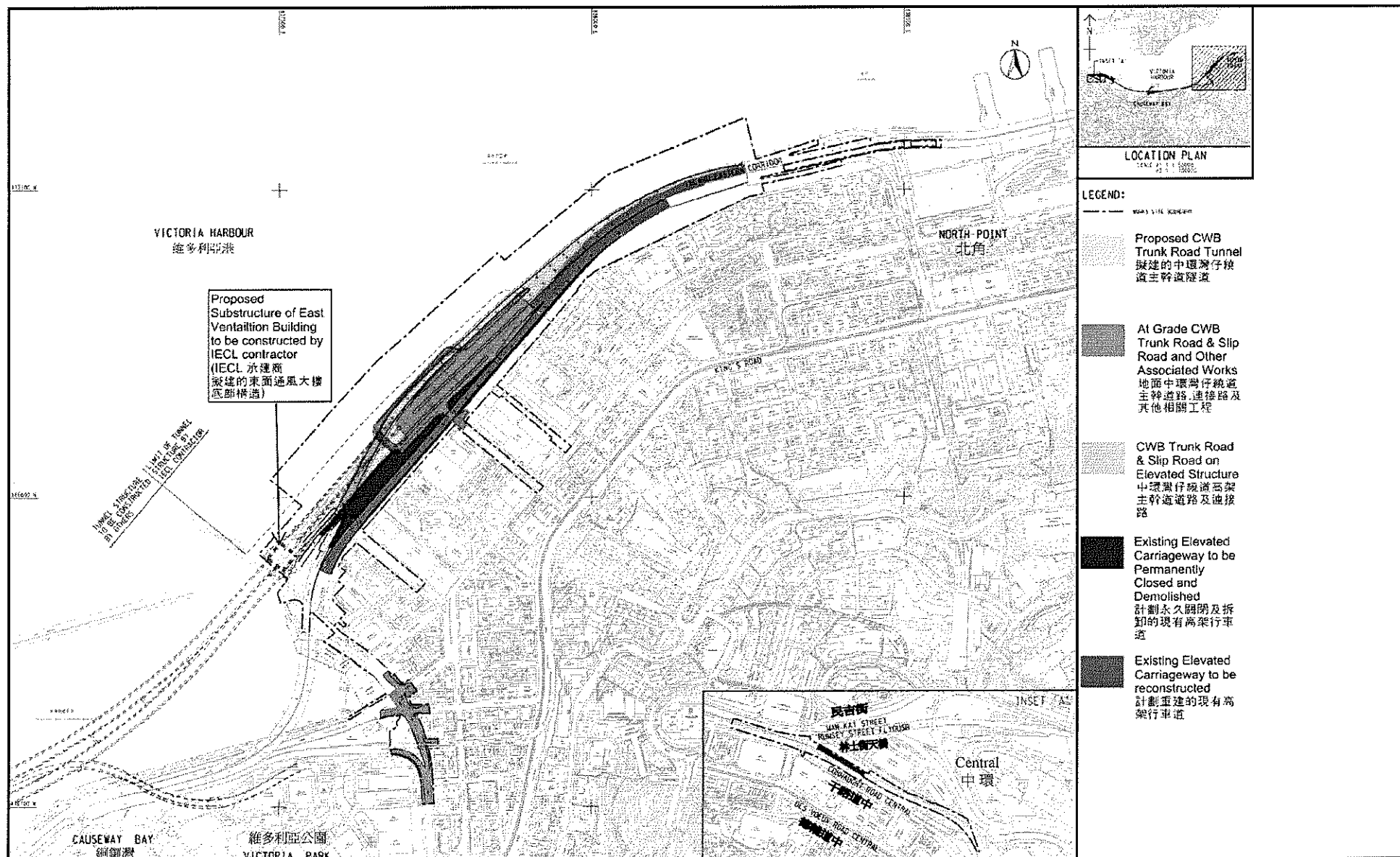


Project Title: Central-Wanchai Bypass (CWB) Including Its Road Tunnel and Slip Roads
 工程項目名稱：中環灣仔繞道包括其行車隧道及連接路

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))



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

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

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



Figure 2.2

Project Organization Chart



Project Organization Chart

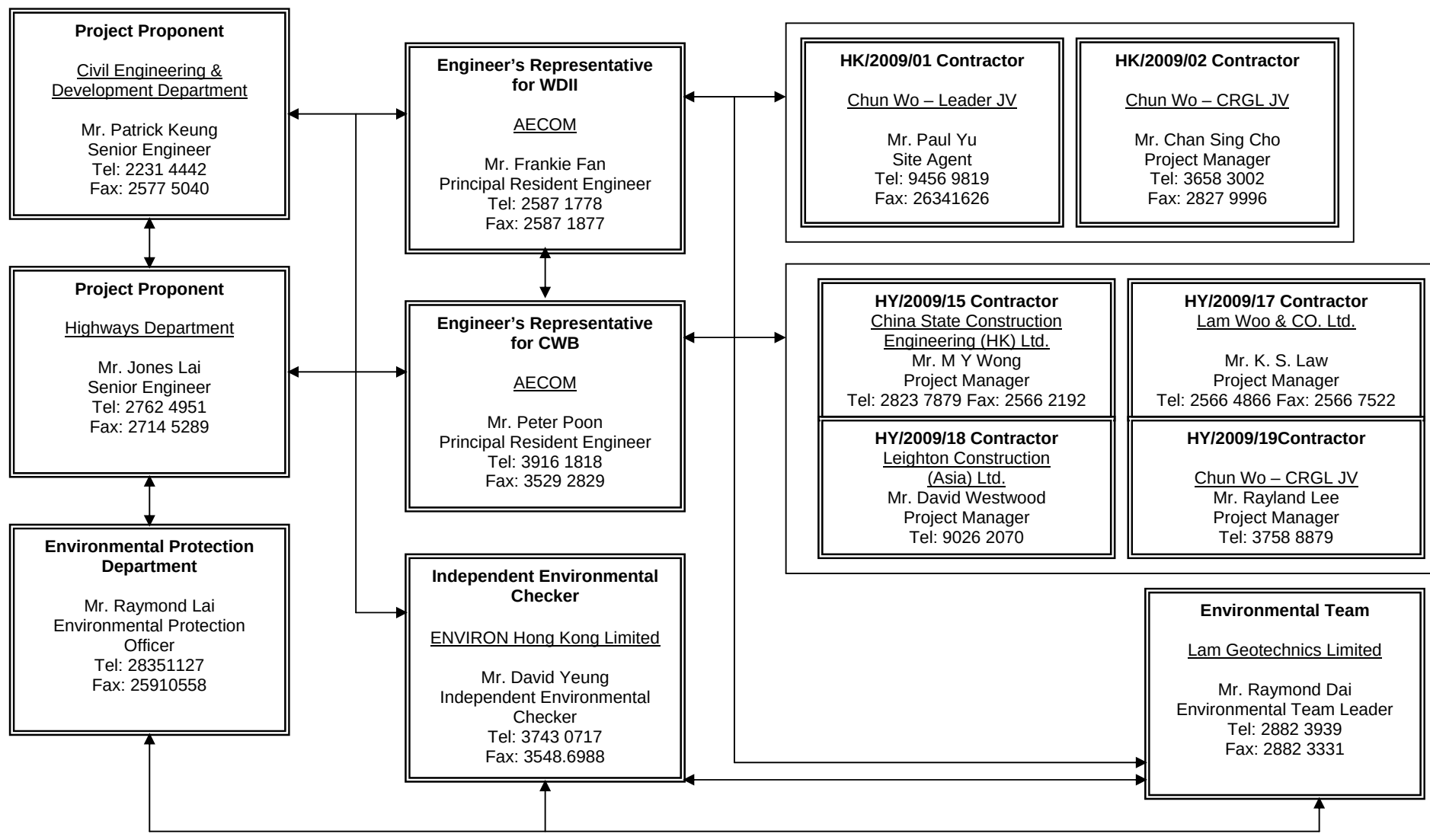
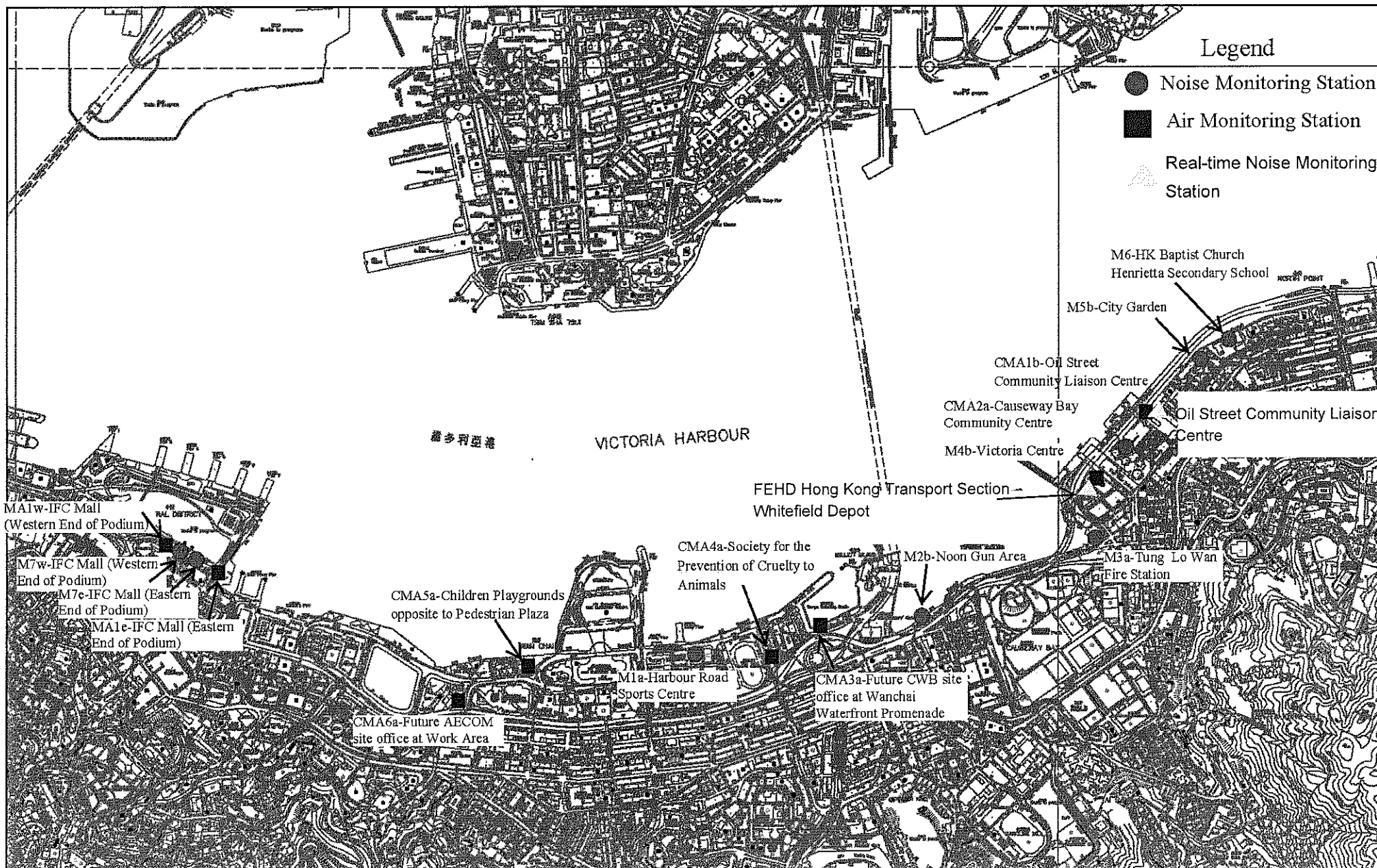




Figure 4.1

Locations of Monitoring Stations





Appendix 3.1

Environmental Mitigation Implementation Schedule

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

Table A.1 Implementation Schedule for Air Quality Control

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

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

Table A.2 Implementation Schedule for Noise Control

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

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

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

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

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

Table A.4 Implementation Schedule for Waste Management

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

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

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

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

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

Table A.5 Implementation Schedule for Land Contamination

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

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

Table A.7 Implementation Schedule for Landscape and Visual

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

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



Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Note 1:

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

Action and Limit Level for Air Monitoring

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



Appendix 4.2

Copies of Calibration Certificates



Calibration Certificate

Certificate No. 12888

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982

Date of receipt : 25-May-11

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-14

Serial No. : 10303242

Test Conditions

Date of Test : 26-May-11

Supply Voltage : --

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

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

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

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

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

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

Calibrated by :


P. F. Wong

Approved by :


Alan Chu

Date: 26-May-11

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. 12888

Page 2 of 4 Pages

Results :

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.1 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB



Calibration Certificate

Certificate No. 12888

Page 3 of 4 Pages

3. Linearity

3.1 Level Linearity

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

Uncertainty : ± 0.1 dB

3.2 Differential level linearity

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

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

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

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 12888

Page 4 of 4 Pages

5. Time Averaging

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

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

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

3. Atmospheric Pressure : 1 004 hPa.

4. *Out of Specification

----- END -----



Calibration Certificate

Certificate No. 12889

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982

Date of receipt : 25-May-11

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73

Serial No. : 10465798

Test Conditions

Date of Test : 26-May-11

Supply Voltage : --

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

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

Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

Test Results

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

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

Main Test equipment used:

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

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

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

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

Calibrated by :

P. F. Wong

Approved by :

Alan Chu

Date: 26-May-11

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

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Calibration Certificate

Certificate No. 12889

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

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

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

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

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.5 %

Mfr's Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

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

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

4. Atmospheric Pressure : 1 004 hPa

5. *Out of Specification

----- END -----



TISCH ENVIRONMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVELAND, 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 - Jul 11, 2011 Rootmeter S/N 0438320 Ta (K) - 298
Operator Tisch Orifice I.D. - 0005 Pa (mm) - 749.3

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

DATA TABULATION

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

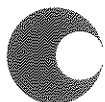
CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Calibration Certificate

Certificate No. 13784

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q11569

Date of receipt : 6-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250

Serial No. : 2722311

Test Conditions

Date of Test : 6-Jul-11

Supply Voltage : --

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

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

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

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

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

Calibrated by :

P. F. Wong

Approved by :

Dorothy Cheuk

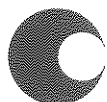
This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

Date: 6-Jul-11



Calibration Certificate

Certificate No. **13784**

Page 2 of 4 Pages

Results :

1. SPL

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

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

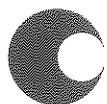
Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

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

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13784

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

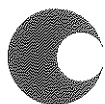
Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.8	- 39.4 dB, ± 1.5 dB
63 Hz	-26.5	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.1	+ 1.2 dB, ± 1 dB
4 kHz	+1.1	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	-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

Uncertainty : ± 0.1 dB

5. Time Averaging

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

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13784

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

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

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test

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

3. Atmospheric pressure : 996 hPa.

----- END -----



Calibration Certificate

Certificate No. 13813

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q11569

Date of receipt : 7-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250

Serial No. : 2722310

Test Conditions

Date of Test : 8-Jul-11

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

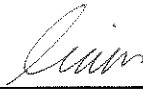
Main Test equipment used:

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

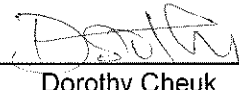
The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling,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

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

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

Calibrated by : 

P. F. Wong

Approved by : 

Dorothy Cheuk

Date: 8-Jul-11

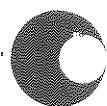
This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. **13813**

Page 2 of 4 Pages

Results :

1. SPL

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

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

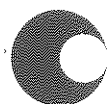
Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

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

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13813

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

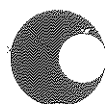
Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 1.5 dB
63 Hz	-26.6	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.4	+ 1.2 dB, ± 1 dB
4 kHz	+1.2	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	-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

Uncertainty : ± 0.1 dB

5. Time Averaging

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

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13813

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

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

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test

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

3. Atmospheric pressure : 1 000 hPa.

----- END -----



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1w

Equipment no. : EL080

Calibration Date : 25-Oct-11

Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	305	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std}	Continuous Flow	IC
	H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.1	6.1	12.2	1.7296	54	53.2897
2	4.9	4.9	9.8	1.5522	48	47.3687
3	3.8	3.8	7.6	1.3693	40	39.4739
4	2.4	2.4	4.8	1.0922	30	29.6054
5	1.5	1.5	3.0	0.8676	20	19.7369

By Linear Regression of Y on X

Slope, m = 38.8795 Intercept, b = -13.5104

Correlation Coefficient* = 0.9992

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Oct-11

Checked by : Cherry Mak

Date : 25-Oct-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1e

Equipment no. : EL080

Calibration Date : 25-Oct-11

Calibration Due Date : 25-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		Y-axis
1	6.2	6.2	12.4	1.7637	61	60.9006
2	4.9	4.9	9.8	1.5701	56	55.9087
3	3.9	3.9	7.8	1.4029	47	46.9234
4	2.8	2.8	5.6	1.1917	36	35.9413
5	1.5	1.5	3.0	0.8775	25	24.9593

By Linear Regression of Y on X

Slope, m = 42.5234 Intercept, b = -12.9545

Correlation Coefficient* = 0.9946

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Oct-11

Checked by : Cherry Mak

Date : 25-Oct-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA5a

Equipment no. : EL380

Calibration Date : 25-Oct-11

Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	298	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		Y-axis
1	6.2	6.2	12.4	1.7637	56	55.9087
2	4.9	4.9	9.8	1.5701	51	50.9169
3	3.8	3.8	7.6	1.3850	44	43.9283
4	2.5	2.5	5.0	1.1271	35	34.9430
5	1.5	1.5	3.0	0.8775	26	25.9576

By Linear Regression of Y on X

Slope, m = 34.3328 Intercept, b = -3.8356

Correlation Coefficient* = 0.9987

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Oct-11

Checked by : Cherry Mak

Date : 25-Oct-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA4a

Equipment no. : EL390

Calibration Date : 25-Oct-11

Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	298	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		Y-axis
1	5.8	5.8	11.6	1.7065	58	57.9055
2	4.6	4.6	9.2	1.5219	50	49.9185
3	3.7	3.7	7.4	1.3669	44	43.9283
4	2.3	2.3	4.6	1.0819	31	30.9495
5	1.5	1.5	3.0	0.8775	24	23.9609

By Linear Regression of Y on X

Slope, m = 41.4483 Intercept, b = -13.0036

Correlation Coefficient* = 0.9992

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Oct-11

Checked by : Cherry Mak

Date : 25-Oct-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA3a
Equipment no. : EL888

Calibration I : 25-Oct-11
Calibration I : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition				
Temperature, T_a	298	Kelvin	Pressure, P_a	1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading H (inches of water)			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM) Y-axis	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$
	(up)	(down)	(difference)			
1	5.6	5.6	11.2	1.6771	47	46.9234
2	4.5	4.5	9.0	1.5055	41	40.9332
3	3.5	3.5	7.0	1.3300	35	34.9430
4	2.2	2.2	4.4	1.0586	26	25.9576
5	1.4	1.4	2.8	0.8484	16	15.9739
By Linear Regression of Y on X Slope, m = 36.5792 Intercept, b = -14.0184 Correlation Coefficient* = 0.9976 Calibration Accepted = Yes/No**						

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

Remarks : _____

Calibrated by : Sam Lam
Date : 25-Oct-11

Checked by : Cherry Mak
Date : 25-Oct-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA2a

Equipment no. : EL449

Calibration Date : 25-Oct-11

Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	298	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		Y-axis
1	5.9	5.9	11.8	1.7209	50	49.9185
2	4.8	4.8	9.6	1.5542	43	42.9299
3	3.5	3.5	7.0	1.3300	37	36.9397
4	2.5	2.5	5.0	1.1271	29	28.9527
5	1.4	1.4	2.8	0.8484	17	16.9723

By Linear Regression of Y on X

Slope, m = 36.8863 Intercept, b = -13.4049

Correlation Coefficient* = 0.9968

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam

Date : 25-Oct-11

Checked by : Cherry Mak

Date : 25-Oct-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA1b
 Equipment no. : EL452

Calibration Date : 12-Nov-11
 Calibration Due Date : 12-Jan-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	297	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$\left(\frac{H \times P_a}{1013.3 \times 298 / T_a} \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

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	6.1	6.1	12.2	1.7524	60	60.0030
2	4.8	4.8	9.6	1.5568	52	52.0026
3	3.8	3.8	7.6	1.3873	45	45.0022
4	2.5	2.5	5.0	1.1290	34	34.0017
5	1.5	1.5	3.0	0.8790	24	24.0012
By Linear Regression of Y on X						
Slope, m		=	41.3859	Intercept, b		= -12.4919
Correlation Coefficient*		=	1.0000			
Calibration Accepted		=	Yes/No**			

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

Remarks : _____

Calibrated by : Sam Lam
 Date : 12-Nov-11

Checked by : Cherry Mak
 Date : 12-Nov-11



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

Environmental Monitoring Schedule
December 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec	3-Dec
		Noise (Day time) Noise (Restricted hr) 1900-2300 (M1a, M2b, M7e, M7w)	24hr TSP	1hr TSP x 3 Noise (Restricted hr) 1900-2300 (M3a, M4b, M5b)		
4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
		24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2300 (M1a, M2b, M7e, M7w)	1hr TSP x 3	Noise (Restricted hr) 1900-2300 (M3a, M4b, M5b)		
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
	24hr TSP	24hr TSP (CMA2a) 1hr TSP x 3 Noise (Restricted hr) 1900-2300		Noise (Restricted hr) 1900-2300 (M1a, M2b, M3a, M4b, M5b)	Noise (Day time) Noise (Restricted hr) 1900-2300 (M7e, M7w)	24hr TSP
18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec
	1hr TSP x 3	Noise (Day time) Noise (Restricted hr) 1900-2300 (M1a, M2b, M7e, M7w)	Noise (Restricted hr) 1900-2300 (M3a, M4b, M5b)		24hr TSP	1hr TSP x 3
25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec

Contract No. HK/2011/07
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 2)

Tentative Environmental Monitoring Schedule
January 2012

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

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 HK/2009/01: CMA5a
- Contract HK/2009/02: CMA4a
- Contract HY/2009/15: CMA3a
- Contract HY/2009/17: CMA2a
- Contract HY/2009/18: MA1e and MA1w
- Contract HY/2009/19: CMA1b and CMA2a '

Remarks (Noise)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Noise Monitoring Stations corresponding to active contracts are sub-divided below:
 - Contract HK/2009/01 M1a
 - Contract HK/2009/02: M1a
 - Contract HY/2009/15: M2b
 - Contract HY/2009/17: M4b
 - Contract HY/2009/18: M7e and M7w
 - Contract HY/2009/19: M3a, M4b, M5b, M6
4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/11	10:04	Fine	73.9	76.6	69.9	69.2	72	75
06/12/11	10:02	Cloudy	75.1	77.7	70.8	69.2	74	75
16/12/11	10:56	Fine	74.5	77.7	69.5	69.2	73	75
20/12/11	16:11	Cloudy	73.5	76.7	68.6	69.2	71	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/11	10:51	Fine	69.9	70.9	67.9	-	70	75
06/12/11	10:45	Cloudy	70.4	71.6	69.0	-	70	75
16/12/11	10:45	Fine	73.2	75.0	68.5	-	73	75
20/12/11	8:25	Cloudy	74.8	77.6	70.2	-	75	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/11	13:00	Fine	68.4	70.3	66.2	-	68	75
06/12/11	11:25	Cloudy	67.7	69.7	65.1	-	68	75
16/12/11	13:38	Fine	67.3	69.3	64.6	-	67	75
20/12/11	9:15	Cloudy	70.1	73.1	67.7	-	70	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/11/11	13:43	Fine	69.4	71.1	66.8	-	69	75
06/12/11	13:00	Cloudy	70.5	72.4	67.8	-	71	75
16/12/11	14:26	Fine	70.9	72.6	68.5	-	71	75
20/12/11	9:57	Cloudy	71.7	73.1	69.7	-	72	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/11/11	15:14	Fine	74.0	77.2	69.8	-	74	75
06/12/11	14:08	Cloudy	72.7	74.4	69.9	-	73	75
16/12/11	11:30	Fine	68.2	70.0	64.5	-	68	75
20/12/11	13:02	Cloudy	70.9	73.1	65.4	-	71	75

Location: M6 - HK baptist Church henrietta Secondary School

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/11	14:31	Fine	72.7	73.9	70.9	70.7	68	70
06/12/11	14:50	Cloudy	72.6	74.1	70.7	70.7	68	70
16/12/11	15:50	Fine	73.0	74.7	69.7	70.7	69	70
20/12/11	11:15	Cloudy	73.6	75.0	71.6	70.7	70	70

Bolded values representing the noise Limit Level exceedance(s).



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)					
29/11/11	08:31	Fine	69.2	70.6	67.3	-	69	75
06/12/11	08:37	Cloudy	68.9	70.0	67.5	-	69	75
16/12/11	08:30	Fine	75.3	76.4	73.5	-	75	75
20/12/11	14:38	Cloudy	76.2	77.6	74.6	-	76	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)					
29/11/11	09:06	Fine	65.7	66.7	63.4	-	66	75
06/12/11	16:22	Cloudy	64.5	65.7	62.7	-	65	75
16/12/11	10:03	Fine	68.4	70.3	66.3	-	68	75
20/12/11	14:00	Cloudy	68.7	70.3	67.0	-	69	75

Bolded values representing the noise Limit Level exceedance(s).



Noise Monitoring Result

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

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
01/12/11	19:01	Cloudy	66.8	68.0	65.2	66.3	-	66	70
	19:06		66.1	66.7	65.0				
	19:12		66.0	66.8	65.1				
08/12/11	19:56	Fine	66.5	68.3	64.2	66.8	-	67	70
	20:01		67.0	68.9	64.7				
	20:07		66.8	68.3	64.9				
15/12/11	19:48	Fine	65.9	67.5	64.0	66.0	-	66	70
	19:53		66.1	67.7	64.2				
	19:59		66.0	67.5	64.4				
21/12/11	21:00	Fine	65.5	66.9	63.3	64.5	-	65	70
	21:05		64.1	65.6	61.8				
	21:11		63.8	65.2	61.6				

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
01/12/11	20:13	Cloudy	65.4	67.1	63.5	65.7	-	66	70
	20:18		65.3	66.7	63.4				
	20:24		66.2	68.2	63.3				
08/12/11	20:24	Fine	66.5	68.6	63.4	66.8	-	67	70
	20:29		66.8	68.9	63.8				
	20:35		67.2	69.3	63.3				
15/12/11	20:02	Fine	67.6	67.8	65.3	67.8	-	68	70
	20:07		68.6	69.3	65.3				
	20:12		67.1	68.6	65.0				
21/12/11	19:52	Fine	66.3	68.1	64.4	66.2	-	66	70
	20:00		66.4	68.4	64.0				
	20:07		65.8	67.5	63.4				

Location: M1a - Harbour Road Sports Center

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
29/11/11	20:10	Fine	75.0	78.0	69.9	74.8	61.1	75	70
	20:15		75.3	78.8	70.1				
	20:20		74.0	76.9	68.5				
06/12/11	20:15	Fine	74.0	76.6	67.8	73.4	61.1	73	70
	20:20		72.8	76.1	67.3				
	20:25		73.4	76.6	67.6				
15/12/11	21:01	Fine	70.0	73.7	62.8	69.1	61.1	68	70
	21:06		67.4	70.6	62.0				
	21:12		69.6	72.7	63.0				
20/12/11	21:00	Cloudy	70.4	74.6	65.8	70.3	61.1	70	70
	21:05		70.0	73.0	65.1				
	21:10		70.5	73.7	63.8				

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
29/11/11	20:54	Fine	69.7	72.5	65.9	69.0	-	69	70
	20:59		68.8	70.5	66.6				
	21:04		68.3	69.8	66.4				
06/12/11	21:00	Fine	67.2	68.8	64.8	67.2	-	67	70
	21:05		67.2	68.7	64.8				
	21:10		67.1	68.9	64.9				
15/12/11	19:21	Fine	66.8	68.6	64.8	67.1	-	67	70
	19:26		67.4	69.5	64.8				
	19:31		67.1	68.7	65.0				
20/12/11	21:29	Cloudy	69.3	71.6	65.5	68.1	-	68	70
	21:34		67.8	69.8	65.3				
	21:39		67.0	68.9	63.8				

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
01/12/11	19:32	Cloudy	66.8	68.4	64.3	67.0	-	67	70
	19:37		67.0	69.2	64.1				
	19:43		67.1	68.6	65.5				
08/12/11	19:25	Fine	65.9	68.2	63.3	65.9	-	66	70
	19:30		65.4	67.9	62.3				
	19:36		66.3	68.3	63.7				
15/12/11	19:13	Fine	64.5	67.0	61.2	65.2	-	65	70
	19:18		65.7	68.0	61.5				
	19:24		65.2	67.7	61.3				
21/12/11	20:23	Fine	68.1	70.5	64.9	67.4	-	67	70
	20:28		67.0	68.8	64.2				
	20:35		67.1	68.9	64.9				

Bolded values representing the noise Limit Level exceedance(s).



Noise Monitoring Result

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

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

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
29/11/11	07:25	Fine	67.6	68.9	65.8	68.3	-	68	70
	07:30		68.9	71.3	66.0				
	07:35		68.4	70.2	66.0				
06/12/11	19:37	Fine	67.7	69.1	65.7	67.7	-	68	70
	19:42		68.0	70.1	65.8				
	19:47		67.3	68.8	65.8				
16/12/11	07:18	Fine	68.9	72.1	66.7	69.6	-	70	70
	07:23		67.7	69.0	66.1				
	07:28		71.4	74.8	69.2				
20/12/11	19:46	Cloudy	70.1	71.6	69.8	70.3	-	70	70
	19:51		70.3	71.5	70.0				
	19:56		70.5	71.3	69.7				

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

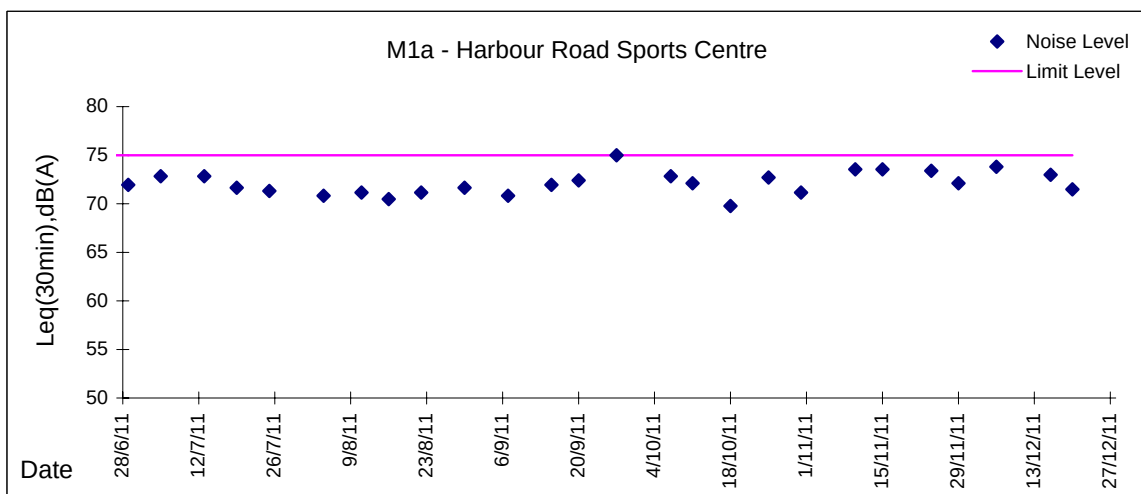
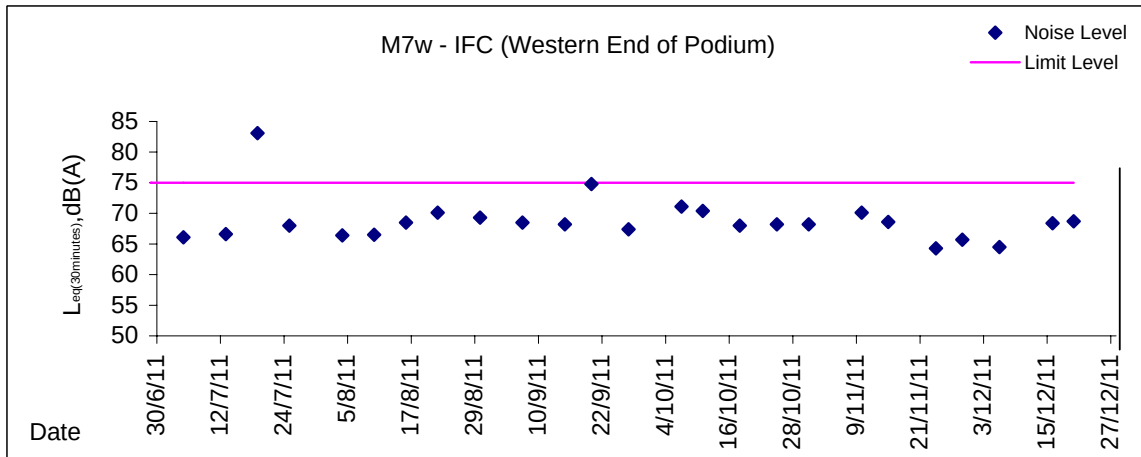
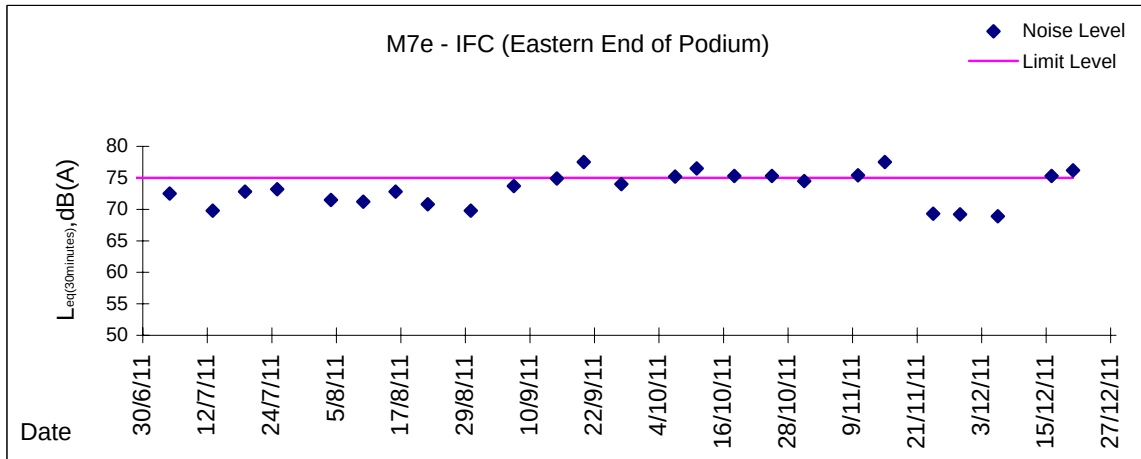
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
29/11/11	07:09	Fine	62.1	65.1	60.8	62.9	-	63	70
	07:14		63.1	65.4	59.9				
	07:19		63.3	66.1	60.6				
06/12/11	19:06	Fine	63.7	64.5	62.2	63.5	-	64	70
	19:11		63.2	64.0	62.7				
	19:16		63.6	64.7	62.5				
16/12/11	19:00	Fine	69.9	72.4	66.6	68.7	-	69	70
	19:05		68.2	69.3	66.4				
	19:11		67.7	69.0	66.1				
20/12/11	19:17	Cloudy	68.4	69.0	66.4	68.1	-	68	70
	19:22		67.9	69.2	66.3				
	19:27		68.0	69.9	65.9				

Bolded values representing the noise Limit Level exceedance(s).



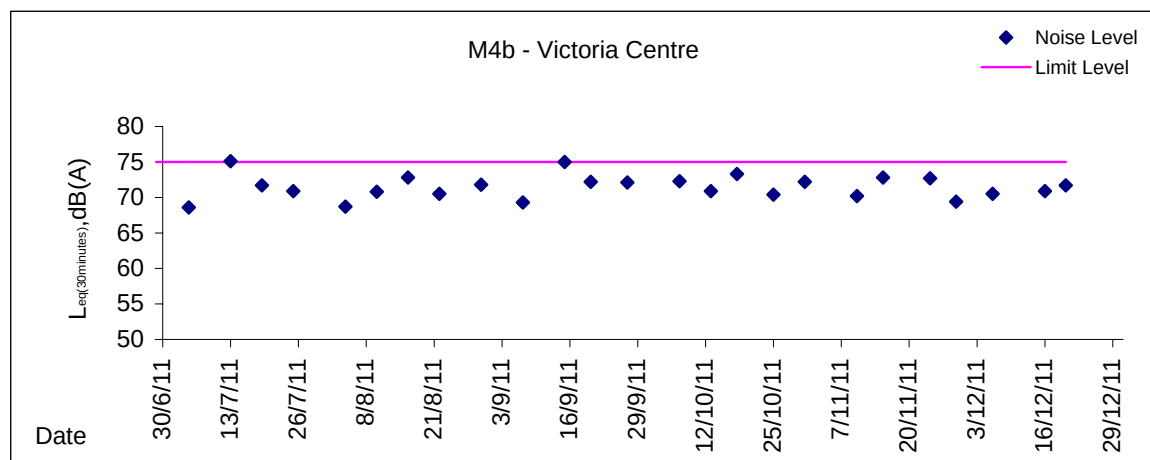
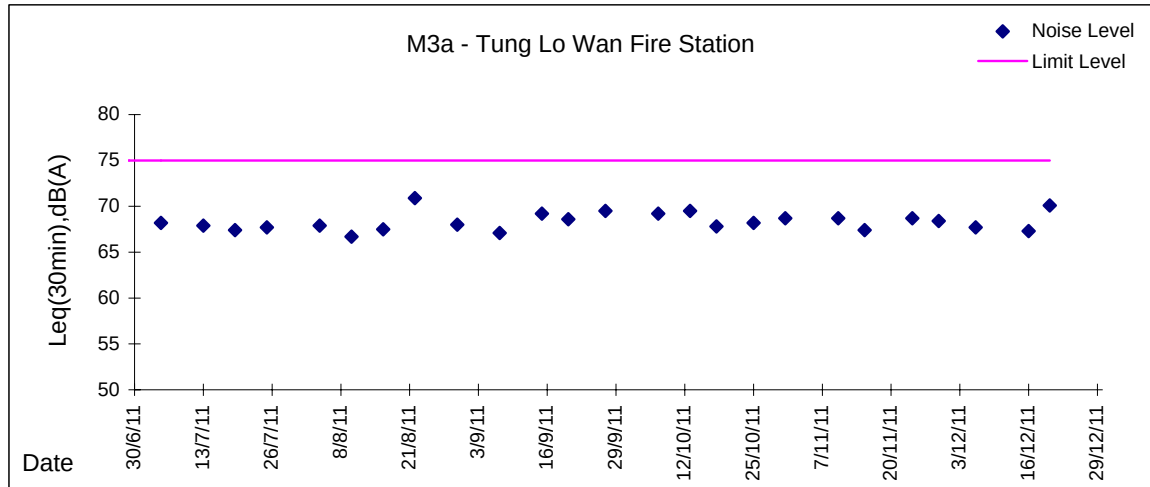
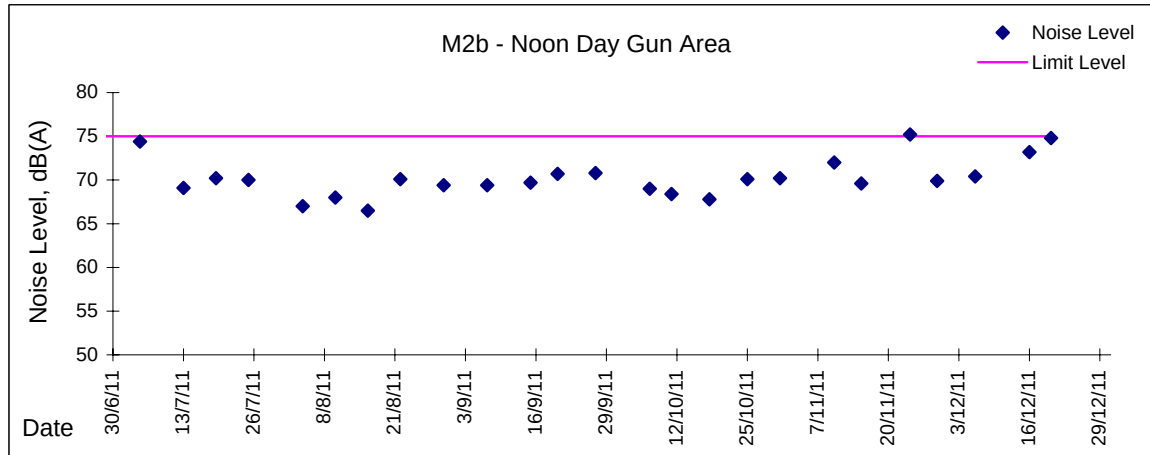
Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)



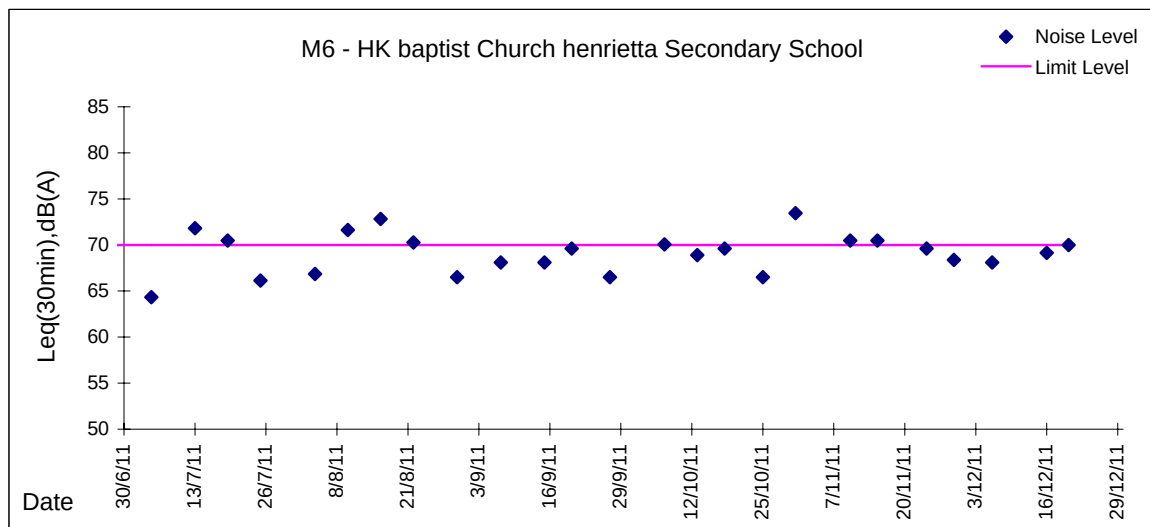
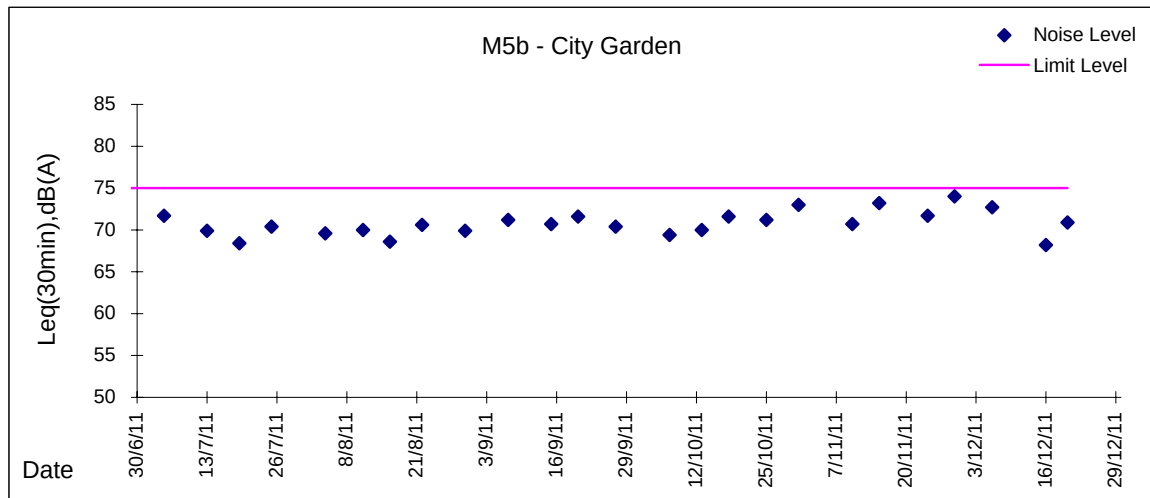


Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)





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





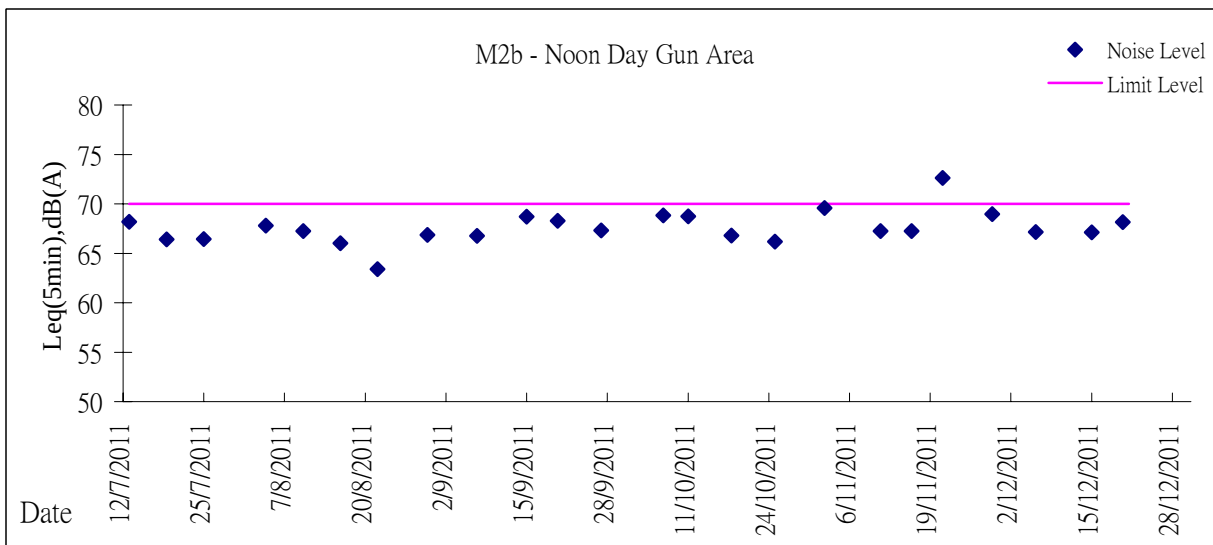
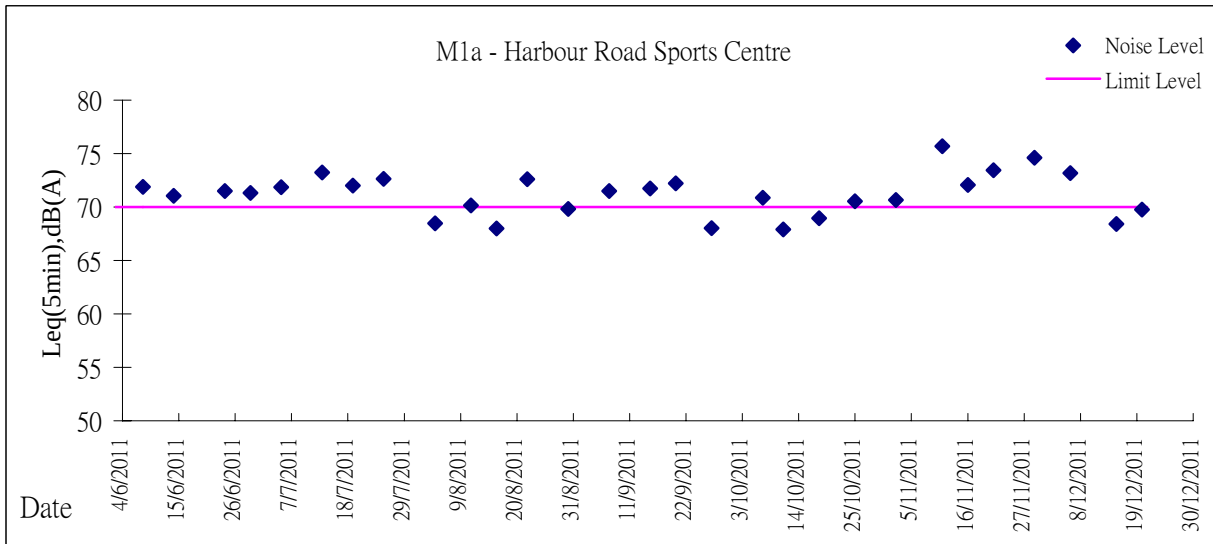
Contract no. HK/2009/05

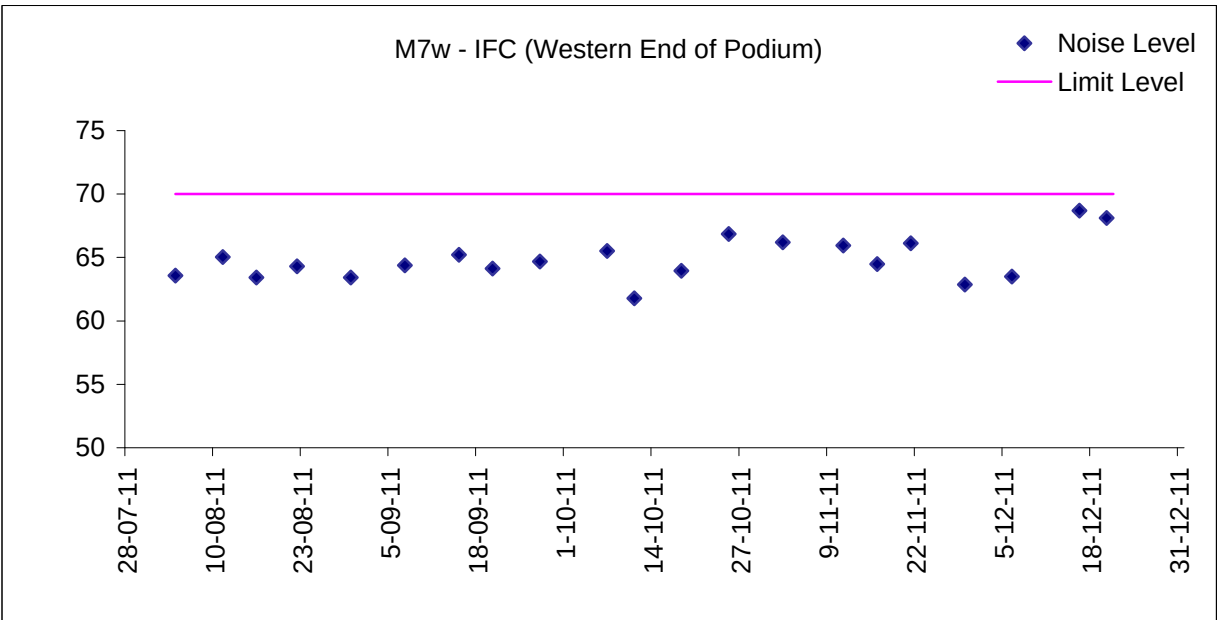
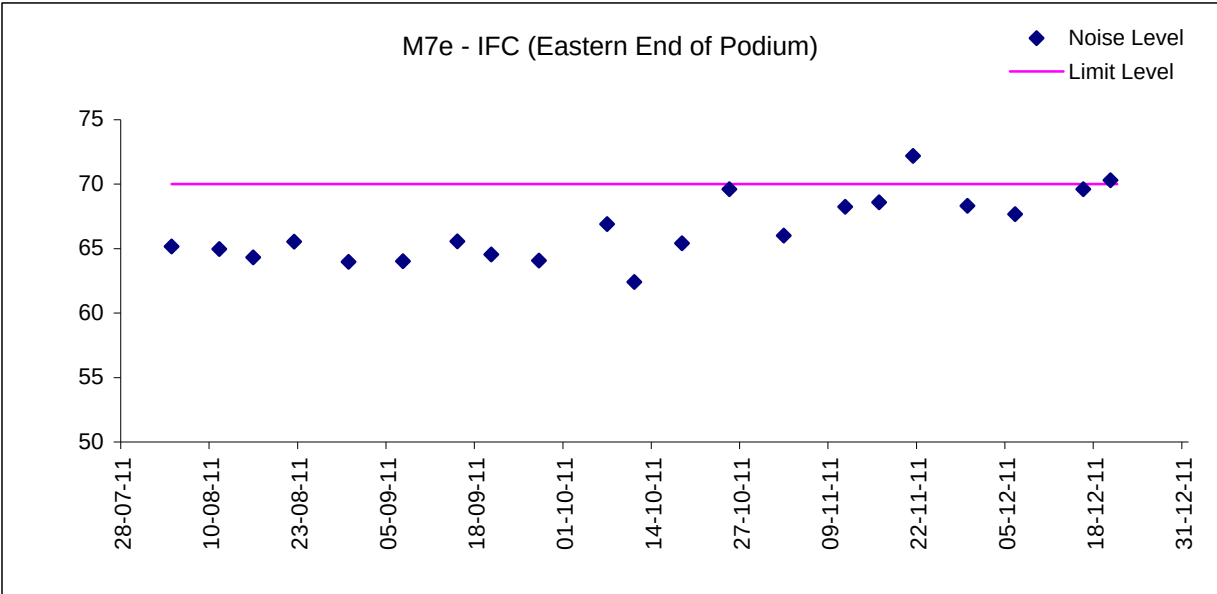
Wanchai Development Phase II and Central Wanchai Bypass

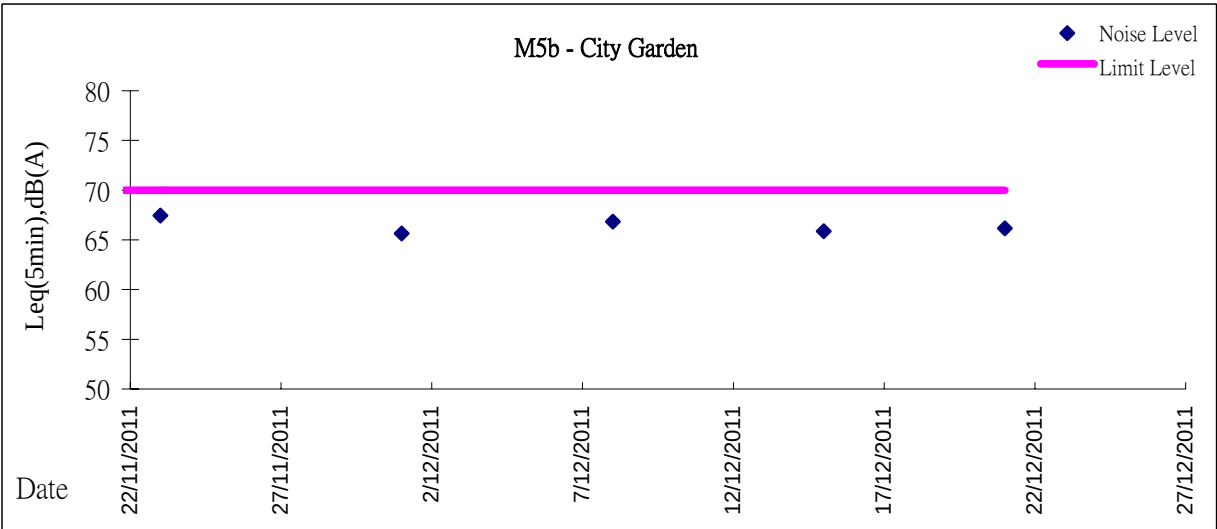
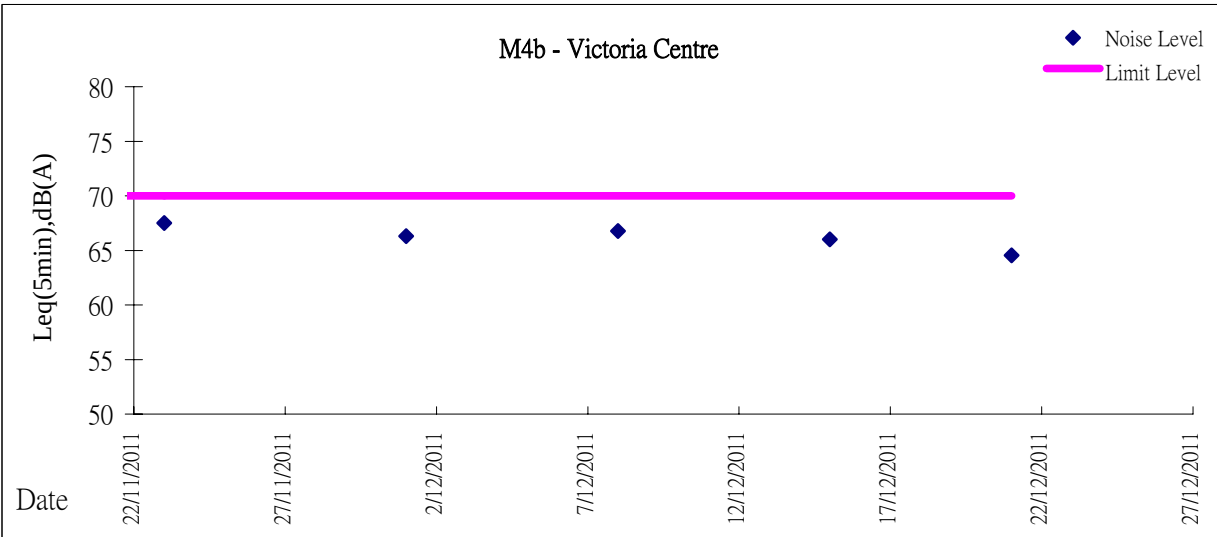
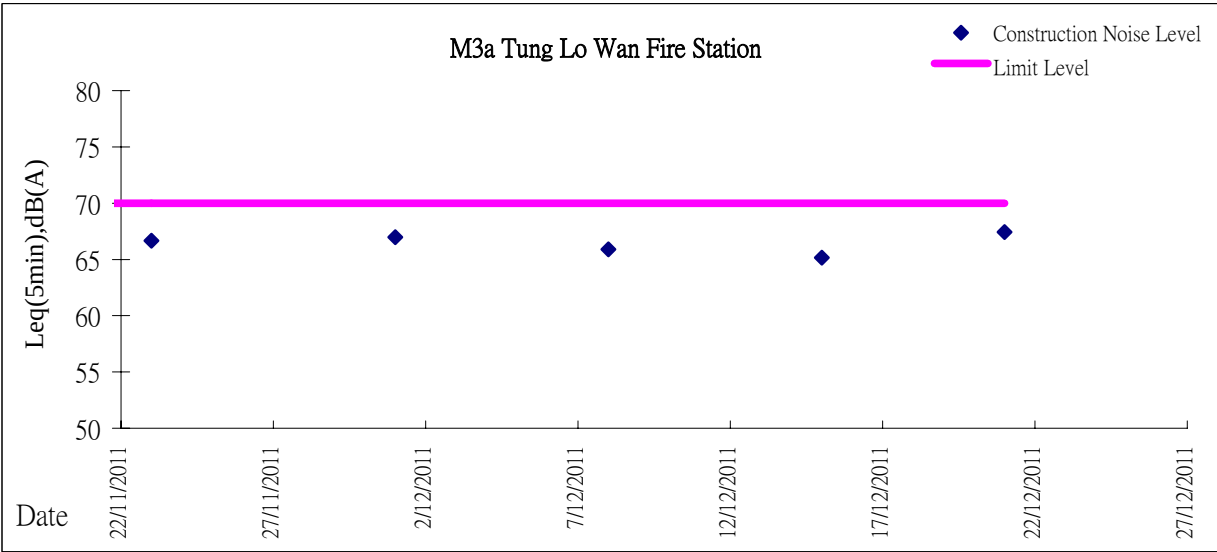
Sampling, Field Measurement and Testing Works (Stage 1)

Graphic Presentation of Noise Monitoring Result

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









Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations, and odour Patrol Results



Location: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001638	2.7561	2.9760	128.08	152.08	24.00	1.19	1.19	1.19	1714	128
6-Dec-11	8:00	Fine	001708	2.7453	2.8985	155.08	179.08	24.00	1.22	1.21	1.21	1749	88
12-Dec-11	8:00	Fine	001698	2.7617	3.0281	182.08	206.08	24.00	1.20	1.20	1.20	1727	154
17-Dec-11	8:00	Fine	001726	2.7825	3.0740	209.07	233.09	24.02	1.20	1.20	1.20	1732	168
23-Dec-11	8:00	Fine	001793	2.7520	3.0197	236.08	260.08	24.00	1.20	1.21	1.20	1733	154

Report on 1-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:45	Fine	001682	2.7235	2.7347	152.08	153.08	1.00	1.33	1.33	1.33	80	141
1-Dec-11	10:40	Fine	001714	2.7651	2.7766	153.08	154.08	1.00	1.37	1.37	1.37	82	139
1-Dec-11	13:00	Fine	001712	2.7567	2.7737	154.08	155.08	1.00	1.37	1.37	1.37	82	206
7-Dec-11	8:55	Fine	001652	2.7541	2.7615	179.08	180.08	1.00	1.32	1.32	1.32	79	93
7-Dec-11	10:00	Fine	001653	2.7372	2.7437	180.08	181.08	1.00	1.37	1.37	1.37	82	79
7-Dec-11	13:00	Fine	001655	2.7677	2.7885	181.08	182.08	1.00	1.34	1.34	1.34	81	258
13-Dec-11	13:00	Fine	001668	2.7685	2.7747	206.07	207.07	1.00	1.20	1.20	1.20	72	86
13-Dec-11	14:00	Fine	001729	2.7633	2.7694	207.07	208.07	1.00	1.24	1.24	1.24	75	82
13-Dec-11	15:00	Fine	001727	2.7676	2.7746	208.07	209.07	1.00	1.24	1.24	1.24	75	94
19-Dec-11	13:00	Fine	001741	2.7589	2.7741	233.09	234.09	1.00	1.20	1.20	1.20	72	211
19-Dec-11	14:00	Fine	001796	2.7566	2.7712	234.09	235.09	1.00	1.25	1.25	1.25	75	195
19-Dec-11	15:00	Fine	001794	2.7497	2.7649	235.07	236.07	1.00	1.25	1.25	1.25	75	203
24-Dec-11	8:50	Fine	001749	2.7532	2.7755	260.08	261.08	1.00	1.25	1.25	1.25	75	297
24-Dec-11	10:55	Fine	001777	2.7841	2.7962	261.08	262.08	1.00	1.21	1.21	1.21	72	167
24-Dec-11	13:00	Fine	001813	2.7708	2.7890	262.08	263.08	1.00	1.25	1.25	1.25	75	242



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001639	2.7363	2.9248	9954.86	9978.86	24.00	1.33	1.34	1.33	1921	98
6-Dec-11	8:00	Fine	001684	2.7682	2.9096	9981.86	10005.86	24.00	1.42	1.41	1.41	2035	69
13-Dec-11*	15:00	Fine	001728	2.7705	2.9945	10011.88	10035.88	24.00	1.43	1.42	1.42	2050	109
17-Dec-11	8:00	Fine	001759	2.7600	3.0628	10035.90	10059.90	24.00	1.45	1.45	1.45	2092	145
23-Dec-11	8:00	Fine	001812	2.7638	3.0468	10065.90	10089.90	24.00	1.43	1.43	1.43	2056	138

*The 24-hr TSP for CMA2a has been re-scheduled to 13 Dec 2011 from 12 Dec 2011 due to the power failure

Report on 1-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:35	Fine	001681	2.7657	2.7756	9978.86	9979.86	1.00	1.39	1.39	1.39	83	119
1-Dec-11	10:30	Fine	001715	2.7763	2.7901	9979.86	9980.86	1.00	1.39	1.39	1.39	83	165
1-Dec-11	13:00	Fine	001713	2.7622	2.7758	9980.86	9981.86	1.00	1.42	1.42	1.42	85	160
7-Dec-11	8:46	Fine	001651	2.7507	2.7563	10005.88	10006.88	1.00	1.41	1.41	1.41	85	66
7-Dec-11	9:51	Fine	001685	2.7585	2.7672	10006.88	10007.88	1.00	1.41	1.41	1.41	85	103
7-Dec-11	10:57	Fine	001654	2.7552	2.7680	10007.88	10008.88	1.00	1.41	1.41	1.41	85	151
13-Dec-11	8:00	Fine	001699	2.7486	2.7685	10008.88	10009.88	1.00	1.39	1.39	1.39	84	238
13-Dec-11	9:45	Fine	001723	2.7768	2.7901	10009.88	10010.88	1.00	1.39	1.39	1.39	84	159
13-Dec-11	13:10	Fine	001730	2.7872	2.7963	10010.88	10011.88	1.00	1.42	1.42	1.42	85	107
19-Dec-11	8:00	Fine	001798	2.7551	2.7698	10059.90	10060.90	1.00	1.40	1.40	1.40	84	175
19-Dec-11	9:45	Fine	001797	2.7477	2.7609	10060.90	10061.90	1.00	1.40	1.40	1.40	84	157
19-Dec-11	13:10	Fine	001795	2.7681	2.7804	10061.90	10062.90	1.00	1.43	1.43	1.43	86	144
24-Dec-11	8:41	Fine	001792	2.7430	2.7641	10062.90	10063.90	1.00	1.46	1.46	1.46	87	241
24-Dec-11	10:55	Fine	001788	2.7478	2.7607	10063.90	10064.90	1.00	1.27	1.27	1.27	76	169
24-Dec-11	13:00	Fine	001814	2.7867	2.8045	10064.90	10065.90	1.00	1.46	1.46	1.46	87	204



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 171

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001608	2.7548	3.0437	10522.41	10546.41	24.00	1.44	1.45	1.44	2076	139
6-Dec-11	8:00	Fine	001551	2.7722	2.9455	10549.41	10573.41	24.00	1.52	1.52	1.52	2194	79
12-Dec-11	8:00	Fine	001680	2.7591	3.0525	10576.41	10600.41	24.00	1.53	1.53	1.53	2207	133
17-Dec-11	8:00	Fine	001738	2.7456	3.1088	10603.41	10627.41	24.00	1.53	1.51	1.52	2191	166
23-Dec-11	8:00	Fine	001735	2.7733	3.1101	10630.42	10654.42	24.00	1.53	1.54	1.54	2214	152

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 311.3

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	10:10	Fine	001630	2.7789	2.8003	10546.41	10547.41	1.00	1.47	1.47	1.47	88	242
1-Dec-11	13:00	Fine	001683	2.7479	2.7606	10547.41	10548.41	1.00	1.39	1.39	1.39	84	152
1-Dec-11	14:35	Fine	001553	2.7698	2.7892	10548.41	10549.41	1.00	1.50	1.50	1.50	90	216
7-Dec-11	10:20	Fine	001700	2.7506	2.7628	10573.41	10574.41	1.00	1.47	1.47	1.47	88	139
7-Dec-11	14:00	Fine	001676	2.7748	2.7935	10574.41	10575.41	1.00	1.47	1.47	1.47	88	213
7-Dec-11	15:15	Fine	001678	2.7739	2.7958	10575.41	10576.41	1.00	1.39	1.39	1.39	83	263
13-Dec-11	9:24	Fine	001662	2.7587	2.7725	10600.41	10601.41	1.00	1.48	1.48	1.48	89	156
13-Dec-11	10:54	Fine	001666	2.7879	2.8012	10601.41	10602.41	1.00	1.40	1.40	1.40	84	159
13-Dec-11	13:00	Fine	001669	2.7836	2.7950	10602.41	10603.41	1.00	1.50	1.50	1.50	90	127
19-Dec-11	8:25	Fine	001799	2.7649	2.7857	10627.41	10628.41	1.00	1.48	1.48	1.48	89	234
19-Dec-11	13:00	Fine	001613	2.7465	2.7624	10628.41	10629.41	1.00	1.40	1.40	1.40	84	189
19-Dec-11	14:05	Fine	001612	2.7565	2.7728	10629.41	10630.41	1.00	1.51	1.51	1.51	91	180
24-Dec-11	9:55	Fine	001775	2.7813	2.8050	10654.42	10655.42	1.00	1.49	1.49	1.49	89	266
24-Dec-11	11:00	Fine	001787	2.7524	2.7756	10655.42	10656.42	1.00	1.41	1.41	1.41	84	275
24-Dec-11	13:00	Fine	001805	2.7560	2.7743	10656.42	10657.42	1.00	1.51	1.51	1.51	91	202



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001607	2.7610	2.9639	14173.30	14197.30	24.00	1.15	1.16	1.15	1662	122
6-Dec-11	8:00	Fine	001552	2.7672	2.8791	14200.30	14224.30	24.00	1.16	1.15	1.15	1663	67
12-Dec-11	8:00	Fine	001679	2.7582	2.9618	14227.30	14251.30	24.00	1.16	1.16	1.16	1675	122
17-Dec-11	8:00	Fine	001766	2.7771	3.0328	14254.30	14278.30	24.00	1.16	1.17	1.16	1677	152
23-Dec-11	8:00	Fine	001736	2.7683	2.9677	14281.31	14305.31	24.00	1.16	1.17	1.17	1680	119

Report on 1-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	9:55	Fine	001631	2.7609	2.7706	14197.30	14198.30	1.00	1.16	1.16	1.16	69	140
1-Dec-11	13:00	Fine	001711	2.7419	2.7519	14198.30	14199.30	1.00	1.16	1.16	1.16	69	144
1-Dec-11	14:22	Fine	001554	2.7755	2.7839	14199.30	14200.30	1.00	1.16	1.16	1.16	69	121
7-Dec-11	10:05	Fine	001701	2.7508	2.7574	14224.30	14225.30	1.00	1.15	1.15	1.15	69	95
7-Dec-11	13:50	Fine	001675	2.7849	2.7984	14225.30	14226.30	1.00	1.15	1.15	1.15	69	195
7-Dec-11	15:07	Fine	001677	2.7542	2.7684	14226.30	14227.30	1.00	1.15	1.15	1.15	69	205
13-Dec-11	9:38	Fine	001663	2.7497	2.7594	14251.30	14252.30	1.00	1.16	1.16	1.16	70	139
13-Dec-11	10:40	Fine	001664	2.7752	2.7835	14252.30	14253.30	1.00	1.16	1.16	1.16	70	119
13-Dec-11	15:07	Fine	001671	2.7537	2.7620	14253.30	14254.30	1.00	1.16	1.16	1.16	70	119
19-Dec-11	8:15	Fine	001800	2.7757	2.7858	14278.30	14279.30	1.00	1.17	1.19	1.18	71	143
19-Dec-11	13:00	Fine	001661	2.7386	2.7468	14279.30	14280.30	1.00	1.19	1.19	1.19	71	115
19-Dec-11	14:24	Fine	001611	2.7490	2.7583	14280.30	14281.30	1.00	1.19	1.19	1.19	71	130
24-Dec-11	9:53	Fine	001790	2.7675	2.7745	14305.31	14306.31	1.00	1.17	1.17	1.17	70	100
24-Dec-11	11:00	Fine	001786	2.7699	2.7800	14306.31	14307.31	1.00	1.17	1.17	1.17	70	144
24-Dec-11	13:00	Fine	001806	2.7680	2.7775	14307.31	14308.31	1.00	1.17	1.17	1.17	70	136

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 181
Limit Level ($\mu\text{g}/\text{m}^3$) - 260

181
260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001604	2.7509	2.9644	15156.17	15180.17	24.00	1.18	1.19	1.18	1703	125
9-Dec-11	8:00	Fine	001658	2.7405	2.9017	15196.82	15220.89	24.07	1.23	1.23	1.23	1770	91
12-Dec-11	8:00	Fine	001657	2.7503	2.9596	15220.89	15244.89	24.00	1.22	1.22	1.22	1760	119
17-Dec-11	8:00	Fine	001765	2.7708	3.0481	15247.89	15271.89	24.00	1.22	1.23	1.22	1764	157
23-Dec-11	8:00	Fine	001733	2.7579	2.9812	15274.90	15298.90	24.00	1.22	1.23	1.23	1767	126

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 332
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:10	Fine	001716	2.7526	2.7630	15180.17	15181.17	1.00	1.22	1.22	1.22	73	143
1-Dec-11	9:40	Fine	001632	2.7530	2.7654	15181.17	15182.17	1.00	1.22	1.22	1.22	73	170
1-Dec-11	13:00	Fine	001650	2.7505	2.7618	15182.17	15183.17	1.00	1.22	1.22	1.22	73	155
7-Dec-11	8:15	Fine	001703	2.7445	2.7507	15193.82	15194.82	1.00	1.21	1.21	1.21	73	85
7-Dec-11	9:20	Fine	001686	2.7525	2.7594	15194.82	15195.82	1.00	1.21	1.21	1.21	73	95
7-Dec-11	13:00	Fine	001656	2.7541	2.7677	15195.82	15196.82	1.00	1.21	1.21	1.21	73	187
13-Dec-11	10:57	Fine	001752	2.7475	2.7589	15244.89	15245.89	1.00	1.22	1.22	1.22	73	156
13-Dec-11	13:00	Fine	001769	2.7825	2.7894	15245.89	15246.89	1.00	1.22	1.22	1.22	73	94
13-Dec-11	14:10	Fine	001767	2.7688	2.7821	15246.89	15247.89	1.00	1.22	1.22	1.22	73	182
19-Dec-11	8:00	Fine	001739	2.7470	2.7564	15271.89	15272.89	1.00	1.23	1.23	1.23	74	128
19-Dec-11	9:30	Fine	001743	2.7533	2.7633	15272.89	15273.89	1.00	1.23	1.23	1.23	74	136
19-Dec-11	10:48	Fine	001744	2.7428	2.7529	15273.89	15274.89	1.00	1.23	1.23	1.23	74	137
24-Dec-11	8:03	Fine	001771	2.7776	2.7923	15298.90	15299.90	1.00	1.23	1.23	1.23	74	199
24-Dec-11	9:08	Fine	001773	2.7663	2.7811	15299.90	15300.90	1.00	1.23	1.23	1.23	74	201
24-Dec-11	10:10	Fine	001789	2.7541	2.7693	15300.90	15301.90	1.00	1.23	1.23	1.23	74	206



Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001562	2.7517	2.9782	7796.25	7820.25	24.00	1.23	1.24	1.24	1782	127
6-Dec-11	8:00	Fine	001647	2.7419	2.8602	7823.25	7847.25	24.00	1.24	1.24	1.24	1783	66
12-Dec-11	8:00	Fine	001674	2.7716	3.0110	7851.25	7875.25	24.00	1.27	1.27	1.27	1829	131
17-Dec-11	8:00	Fine	001721	2.7725	3.0362	7905.27	7929.27	24.00	1.27	1.27	1.27	1833	144
23-Dec-11	8:00	Fine	001417	2.7709	3.0282	7929.27	7953.27	24.00	1.27	1.28	1.27	1835	140

Report on 1-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:24	Fine	001641	2.7647	2.7748	7820.25	7821.25	1.00	1.26	1.26	1.26	76	133
1-Dec-11	9:29	Fine	001643	2.7712	2.7808	7821.25	7822.25	1.00	1.26	1.26	1.26	76	127
1-Dec-11	10:32	Fine	001645	2.7604	2.7711	7822.25	7823.25	1.00	1.26	1.26	1.26	76	141
7-Dec-11	8:33	Fine	001609	2.7683	2.7748	7847.25	7848.25	1.00	1.24	1.24	1.24	74	88
7-Dec-11	11:00	Fine	001594	2.7791	2.7865	7848.25	7849.25	1.00	1.24	1.24	1.24	74	100
7-Dec-11	13:00	Fine	001596	2.7629	2.7729	7849.25	7850.25	1.00	1.24	1.24	1.24	74	135
13-Dec-11	8:26	Fine	001692	2.7577	2.7688	7902.27	7903.27	1.00	1.27	1.27	1.27	76	146
13-Dec-11	9:44	Fine	001690	2.7697	2.7815	7903.27	7904.27	1.00	1.27	1.27	1.27	76	155
13-Dec-11	10:47	Fine	001688	2.7280	2.7434	7904.27	7905.27	1.00	1.27	1.27	1.27	76	203
19-Dec-11	8:26	Fine	001672	2.7680	2.7835	7929.27	7930.27	1.00	1.27	1.27	1.27	76	203
19-Dec-11	9:44	Fine	001696	2.7547	2.7643	7930.27	7931.27	1.00	1.27	1.27	1.27	76	126
19-Dec-11	10:47	Fine	001617	2.7687	2.7771	7931.27	7932.27	1.00	1.27	1.27	1.27	76	110
24-Dec-11	8:32	Fine	001732	2.7518	2.7656	7953.27	7954.27	1.00	1.28	1.28	1.28	77	180
24-Dec-11	9:36	Fine	001693	2.7429	2.7574	7954.27	7955.27	1.00	1.28	1.28	1.28	77	189
24-Dec-11	10:40	Fine	001801	2.7548	2.7661	7955.27	7956.27	1.00	1.28	1.28	1.28	77	148



Location: MA1w - International Finance Centre (Western Wing)

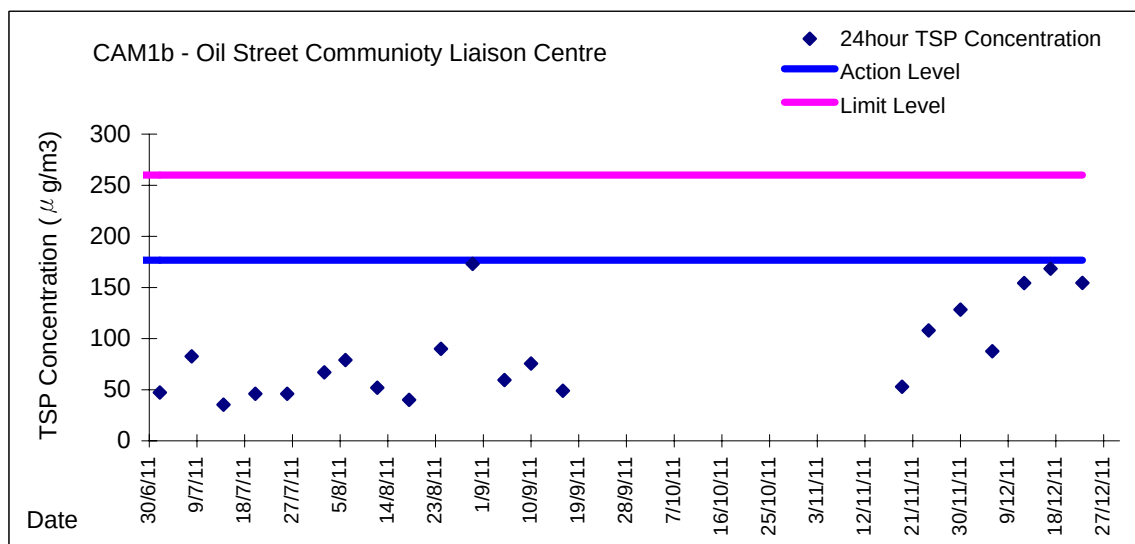
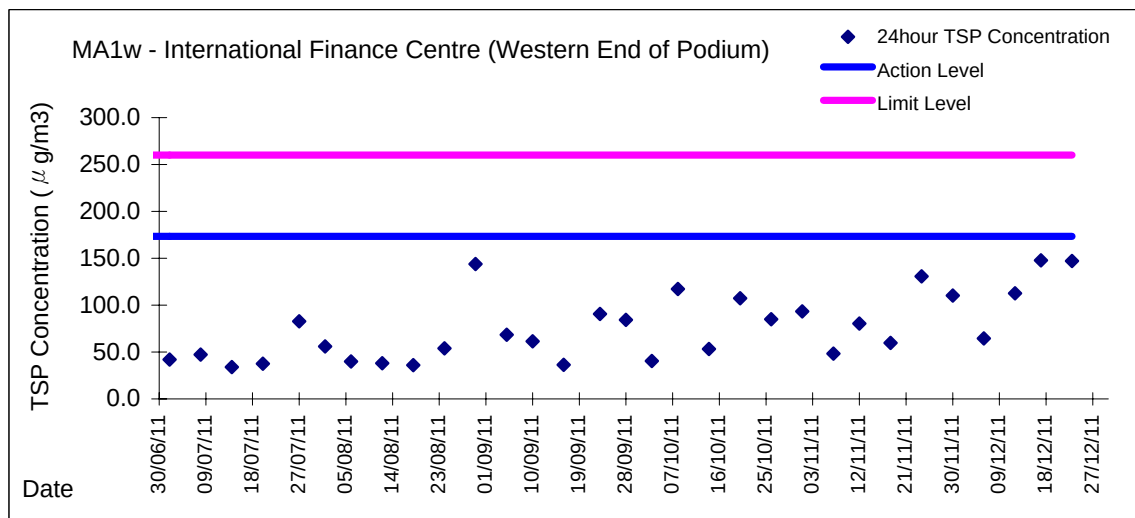
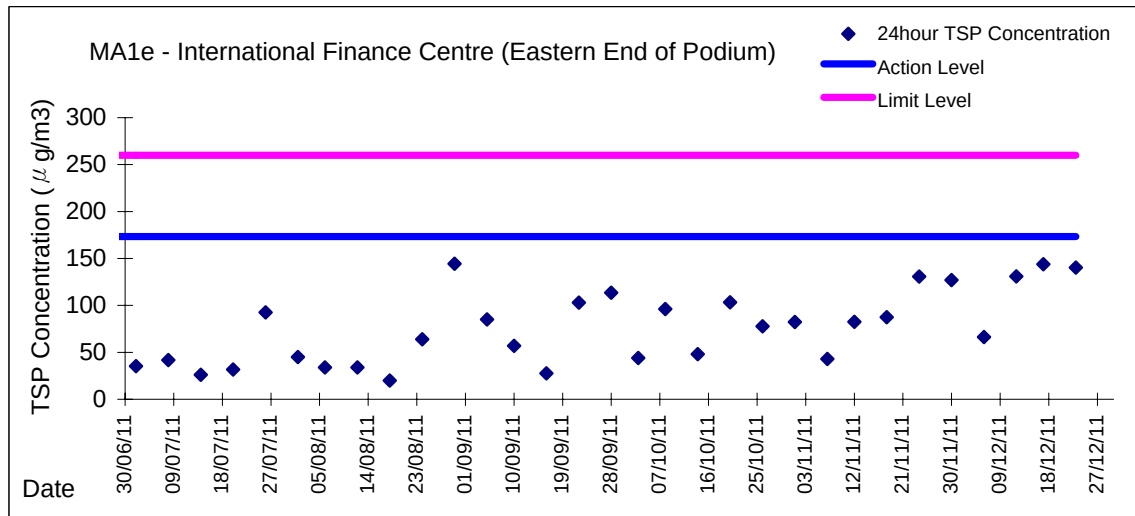
Report on 24-hour TSP monitoring
Action Level ($\mu\text{g}/\text{m}^3$) - 173.4
Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001561	2.7673	2.9924	10973.66	10997.66	24.00	1.41	1.42	1.42	2042	110
6-Dec-11	8:00	Fine	001648	2.7381	2.8698	11000.66	11024.66	24.00	1.42	1.42	1.42	2043	64
12-Dec-11	8:00	Fine	001673	2.7635	3.0033	11027.66	11051.66	24.00	1.48	1.48	1.48	2130	113
17-Dec-11	8:00	Fine	001722	2.7761	3.0864	11054.66	11078.66	24.00	1.46	1.46	1.46	2099	148
23-Dec-11	8:00	Fine	001614	2.7611	3.0754	11081.67	11105.67	24.00	1.48	1.49	1.48	2137	147

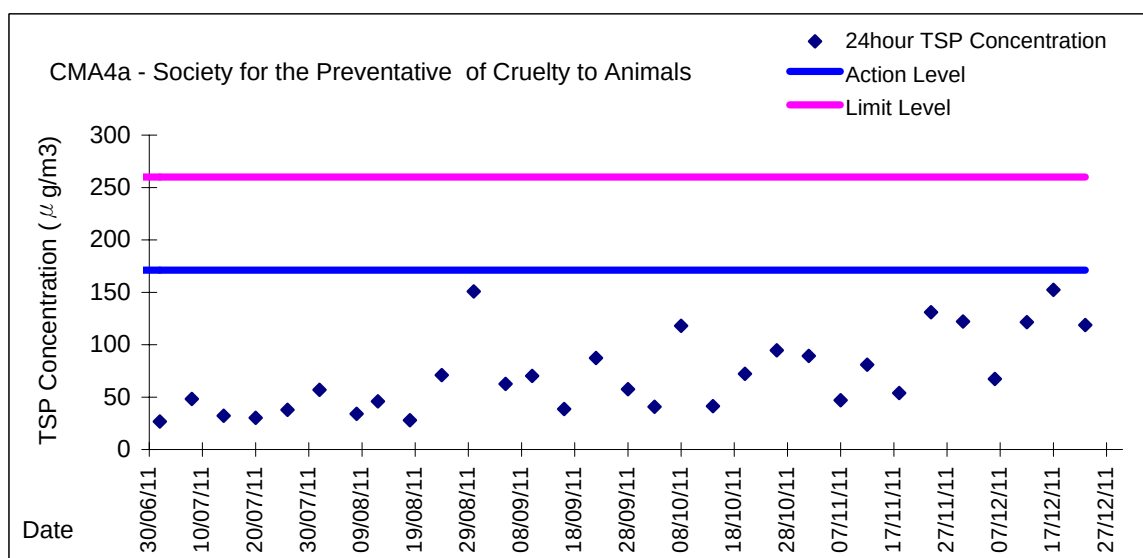
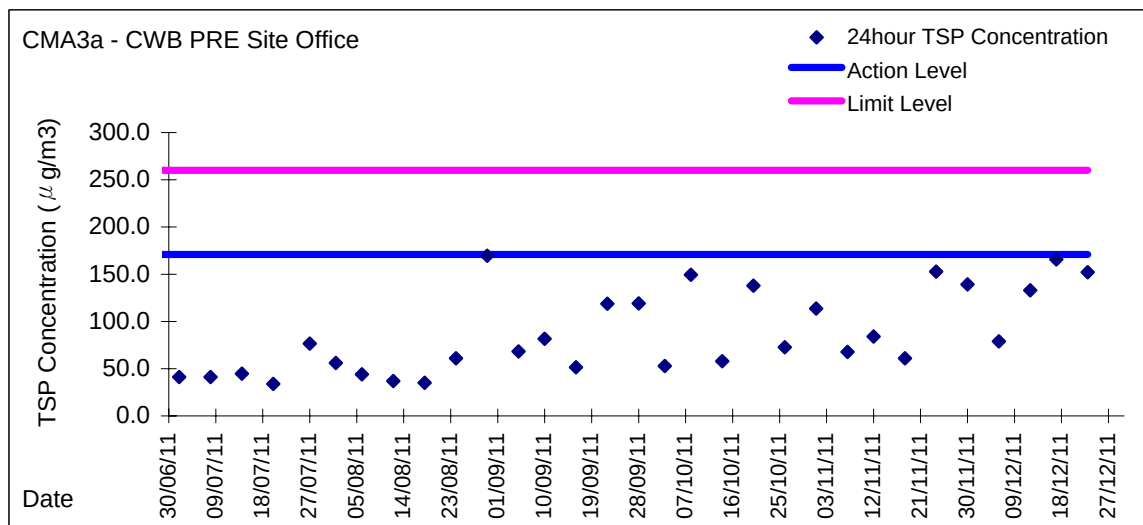
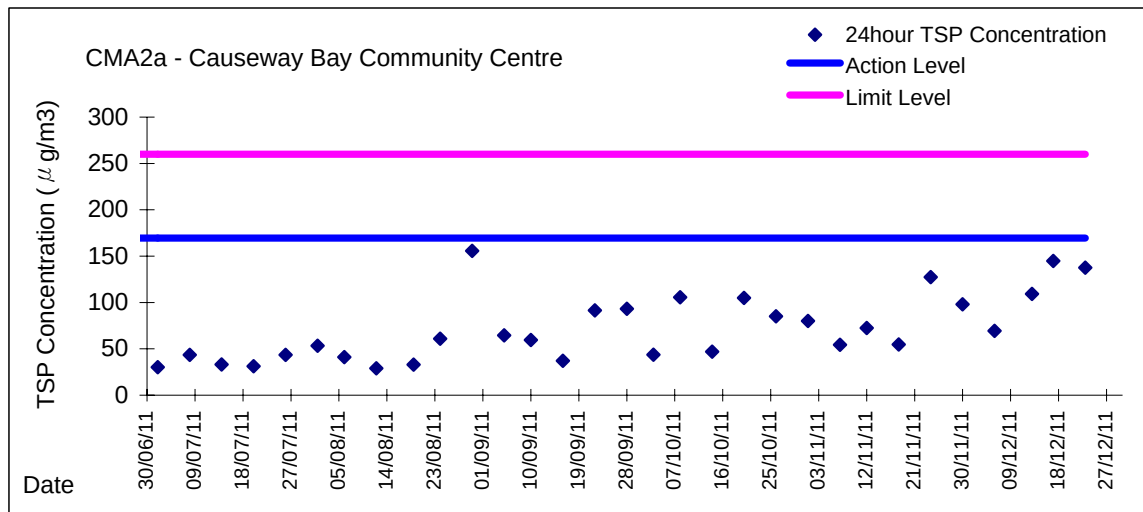
Report on 1-hour TSP monitoring
Action Level ($\mu\text{g}/\text{m}^3$) - 325.1
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:32	Fine	001642	2.7396	2.7473	10997.66	10998.66	1.00	1.37	1.37	1.37	82	94
1-Dec-11	9:35	Fine	001644	2.7510	2.7585	10998.66	10999.66	1.00	1.30	1.30	1.30	78	96
1-Dec-11	10:38	Fine	001646	2.7794	2.7885	10999.66	11000.66	1.00	1.32	1.32	1.32	79	115
7-Dec-11	8:41	Fine	001610	2.7531	2.7591	11024.66	11025.66	1.00	1.44	1.44	1.44	86	69
7-Dec-11	10:00	Fine	001593	2.7756	2.7832	11025.66	11026.66	1.00	1.42	1.42	1.42	85	89
7-Dec-11	11:00	Fine	001595	2.7718	2.7803	11026.66	11027.66	1.00	1.42	1.42	1.42	85	100
13-Dec-11	13:50	Fine	001691	2.7430	2.7544	11051.66	11052.66	1.00	1.37	1.37	1.37	82	138
13-Dec-11	15:00	Fine	001689	2.7555	2.7739	11052.66	11053.66	1.00	1.50	1.50	1.50	90	204
13-Dec-11	16:10	Fine	001717	2.7767	2.7932	11053.66	11054.66	1.00	1.48	1.48	1.48	89	186
19-Dec-11	8:34	Fine	001670	2.7835	2.7978	11078.66	11079.66	1.00	1.48	1.48	1.48	89	161
19-Dec-11	9:49	Fine	001697	2.7394	2.7509	11079.66	11080.66	1.00	1.48	1.48	1.48	89	129
19-Dec-11	10:52	Fine	001616	2.7474	2.7574	11080.66	11081.66	1.00	1.48	1.48	1.48	89	112
24-Dec-11	8:40	Fine	001731	2.7631	2.7780	11105.67	11106.67	1.00	1.39	1.39	1.39	83	179
24-Dec-11	9:43	Fine	001695	2.7710	2.7850	11106.67	11107.67	1.00	1.31	1.31	1.31	79	178
24-Dec-11	10:46	Fine	001802	2.7609	2.7742	11107.67	11108.67	1.00	1.33	1.33	1.33	80	166

Graphic Presentation of 24 hour TSP Result

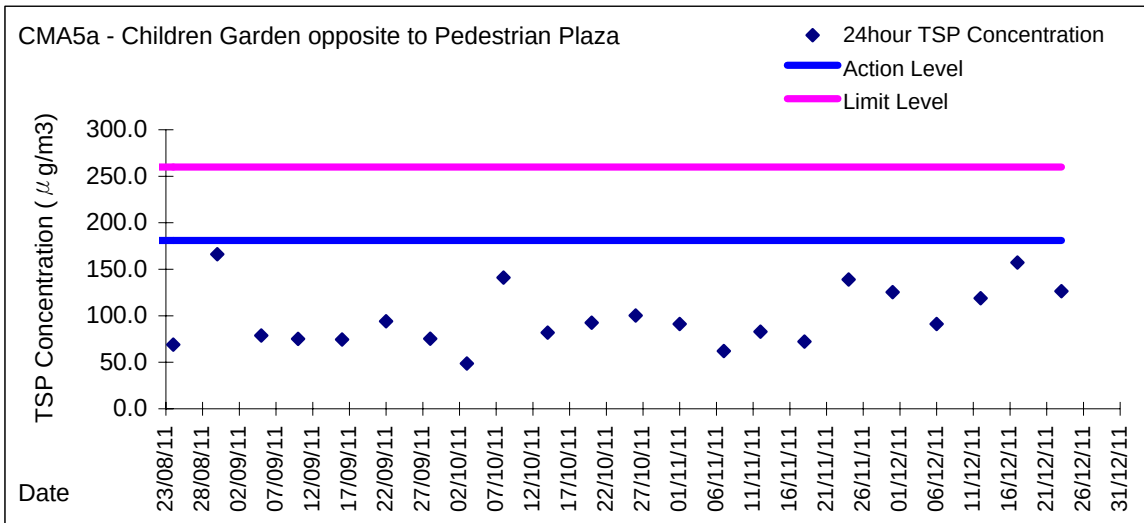


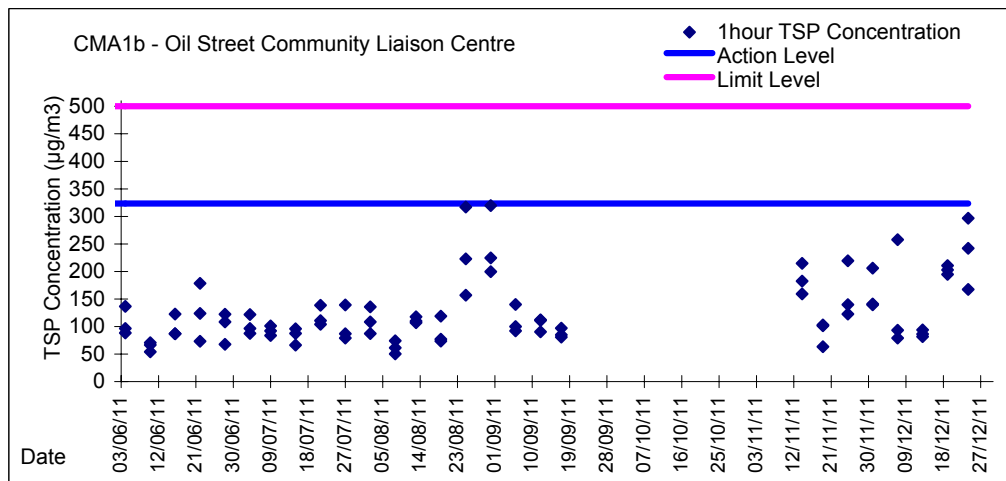
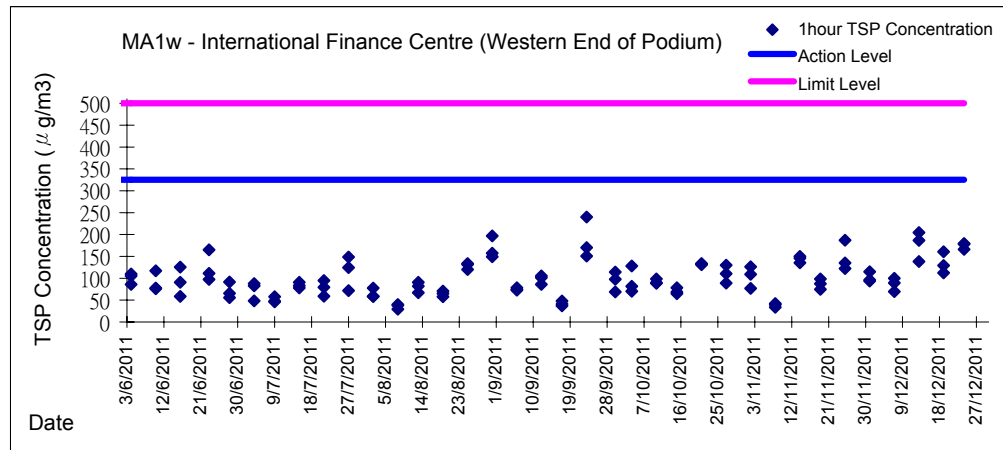
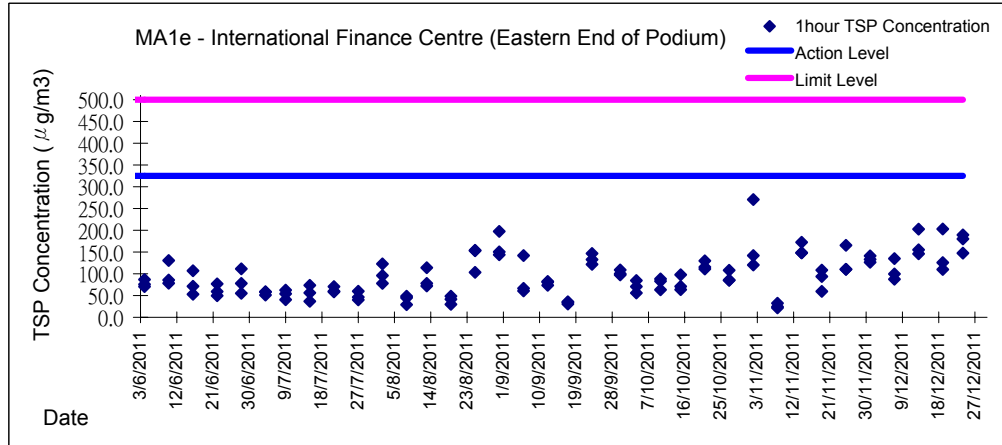
Graphic Presentation of 24 hour TSP Result

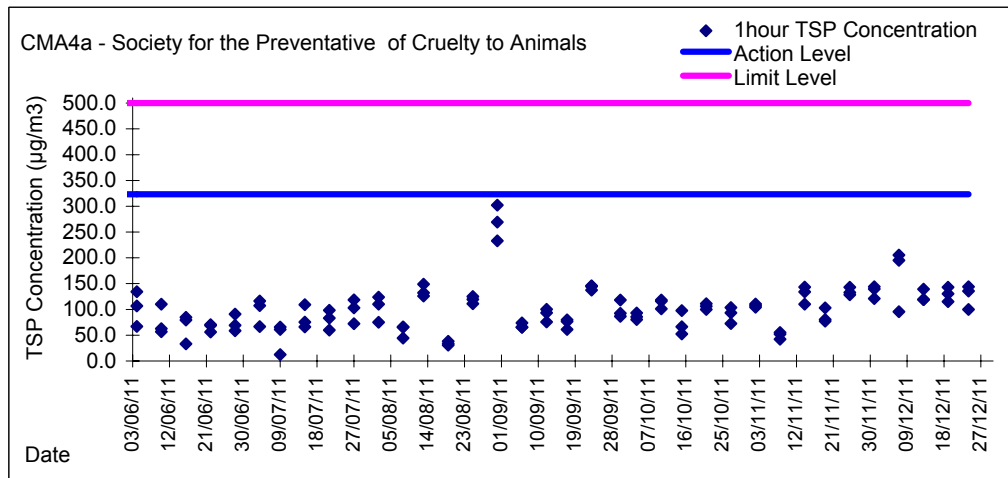
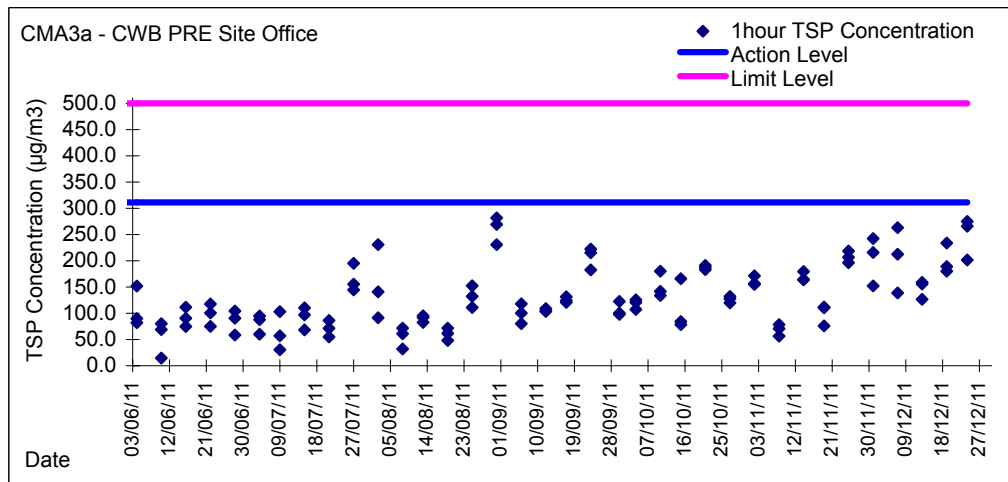
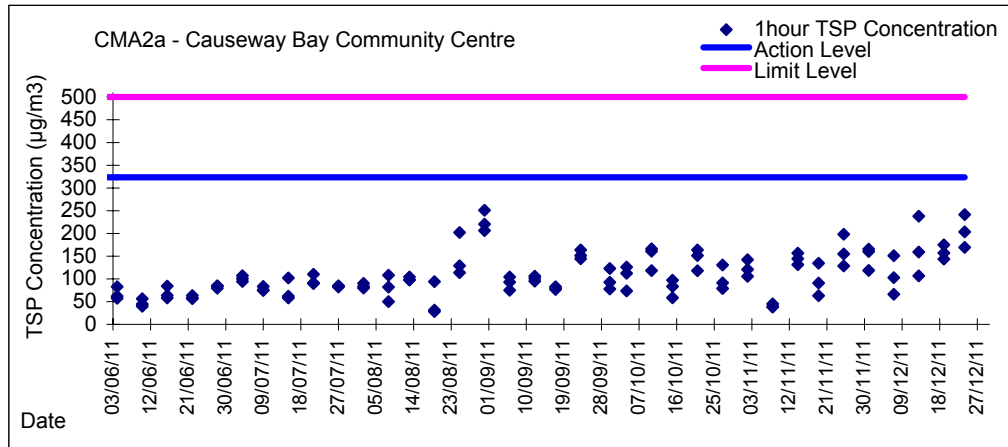




Graphic Presentation of 24 hour TSP Result

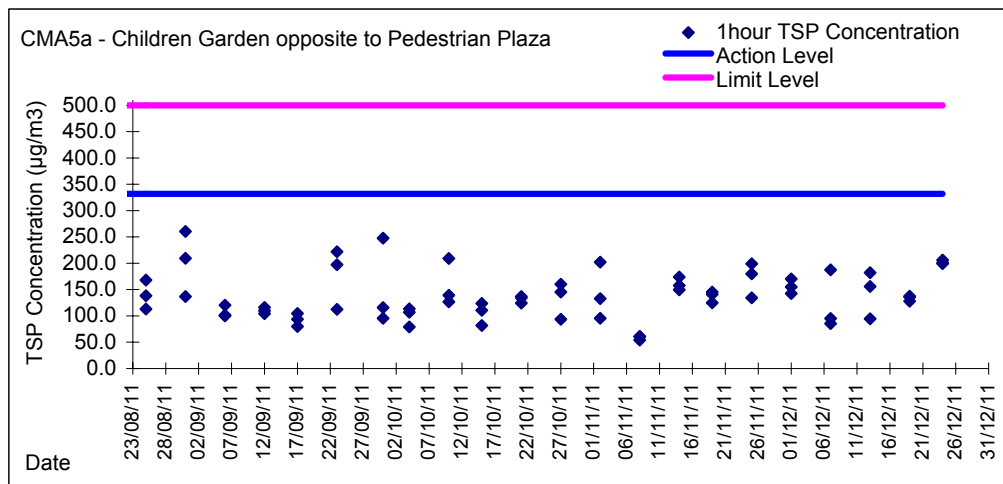


Graphic Presentation of 1 hour TSP Result


Graphic Presentation of 1 hour TSP Result




Graphic Presentation of 1 hour TSP Result





Appendix 5.4

Real Time Noise Monitoring Results and Graphical Presentations

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

Normal Day 07:00-19:00	2/12/2011 13:31 71.4	8/12/2011 8:31 67.4	13/12/2011 15:31 66.5	19/12/2011 10:31 69.1	23/12/2011 17:31 67.0
28/11/2011 7:01 64.9	2/12/2011 14:01 63.5	8/12/2011 9:01 67.8	13/12/2011 16:01 67.3	19/12/2011 11:01 69.4	23/12/2011 18:01 66.4
28/11/2011 7:31 65.4	2/12/2011 14:31 72.1	8/12/2011 9:31 68.1	13/12/2011 16:31 66.6	19/12/2011 11:31 67.4	23/12/2011 18:31 65.5
28/11/2011 8:01 66.5	2/12/2011 15:01 70.6	8/12/2011 10:01 68.9	13/12/2011 17:01 66.6	19/12/2011 12:01 66.0	24/12/2011 7:01 65.4
28/11/2011 8:31 67.7	2/12/2011 15:31 67.4	8/12/2011 11:01 69.4	13/12/2011 17:31 65.7	19/12/2011 12:31 65.7	24/12/2011 7:31 66.7
28/11/2011 9:01 68.7	2/12/2011 16:01 71.9	8/12/2011 11:31 69.7	13/12/2011 18:01 65.3	19/12/2011 13:01 67.3	24/12/2011 8:01 67.5
28/11/2011 9:31 68.4	2/12/2011 16:31 58.3	8/12/2011 11:31 67.3	13/12/2011 18:31 64.0	19/12/2011 13:31 68.4	24/12/2011 8:31 68.2
28/11/2011 10:01 68.6	2/12/2011 17:01 72.8	8/12/2011 12:01 65.9	14/12/2011 7:01 65.1	19/12/2011 14:01 69.5	24/12/2011 9:01 68.2
28/11/2011 10:31 69.4	2/12/2011 17:31 66.8	8/12/2011 12:31 66.5	14/12/2011 7:31 66.1	19/12/2011 14:31 67.6	24/12/2011 9:31 68.7
28/11/2011 11:01 70.2	2/12/2011 18:01 65.3	8/12/2011 13:01 68.5	14/12/2011 8:01 65.2	19/12/2011 15:01 67.6	24/12/2011 10:01 68.8
28/11/2011 11:31 67.9	2/12/2011 18:31 64.5	8/12/2011 13:31 69.2	14/12/2011 8:31 66.7	19/12/2011 15:31 66.3	24/12/2011 10:31 68.4
28/11/2011 12:01 65.6	3/12/2011 7:01 64.4	8/12/2011 14:01 68.4	14/12/2011 9:01 68.6	19/12/2011 16:01 70.0	24/12/2011 11:01 67.7
28/11/2011 12:31 66.0	3/12/2011 7:31 66.5	8/12/2011 14:31 69.2	14/12/2011 9:31 68.5	19/12/2011 16:31 68.6	24/12/2011 11:31 66.5
28/11/2011 13:01 68.3	3/12/2011 8:01 71.2	8/12/2011 15:01 68.5	14/12/2011 10:01 67.5	19/12/2011 17:01 67.6	24/12/2011 12:01 65.0
28/11/2011 13:31 68.6	3/12/2011 8:31 73.1	8/12/2011 15:31 66.6	14/12/2011 10:31 68.1	19/12/2011 17:31 65.7	24/12/2011 12:31 64.3
28/11/2011 14:01 68.2	3/12/2011 9:01 73.3	8/12/2011 16:01 68.8	14/12/2011 11:01 67.9	19/12/2011 18:01 64.3	24/12/2011 13:01 67.3
28/11/2011 14:31 68.7	3/12/2011 9:31 72.9	8/12/2011 16:31 68.2	14/12/2011 11:31 67.2	19/12/2011 18:31 63.3	24/12/2011 13:31 68.6
28/11/2011 15:01 68.7	3/12/2011 10:01 69.7	8/12/2011 17:01 68.9	14/12/2011 12:01 66.0	20/12/2011 7:01 65.5	24/12/2011 14:01 68.5
28/11/2011 15:31 66.9	3/12/2011 10:31 68.8	8/12/2011 17:31 66.8	14/12/2011 12:31 64.2	20/12/2011 7:31 67.0	24/12/2011 14:31 68.3
28/11/2011 16:01 67.2	3/12/2011 11:01 69.0	8/12/2011 18:01 67.2	14/12/2011 13:01 68.5	20/12/2011 8:01 66.3	24/12/2011 15:01 67.8
28/11/2011 16:31 69.7	3/12/2011 11:31 72.7	8/12/2011 18:31 66.9	14/12/2011 13:31 68.1	20/12/2011 8:31 67.0	24/12/2011 15:31 67.1
28/11/2011 17:01 71.5	3/12/2011 12:01 71.1	9/12/2011 7:01 66.1	14/12/2011 14:01 68.1	20/12/2011 9:01 68.7	24/12/2011 16:01 66.5
28/11/2011 17:31 66.6	3/12/2011 12:31 71.6	9/12/2011 7:31 67.1	14/12/2011 14:31 67.0	20/12/2011 9:31 68.3	24/12/2011 16:31 66.9
28/11/2011 18:01 65.7	3/12/2011 13:01 72.1	9/12/2011 8:01 67.5	14/12/2011 15:01 68.2	20/12/2011 10:01 68.6	24/12/2011 17:01 67.3
28/11/2011 18:31 64.6	3/12/2011 13:31 73.0	9/12/2011 8:31 68.3	14/12/2011 15:31 69.2	20/12/2011 10:31 67.9	24/12/2011 17:31 65.3
29/11/2011 7:01 65.0	3/12/2011 14:01 72.4	9/12/2011 9:01 68.8	14/12/2011 16:01 68.3	20/12/2011 11:01 68.3	24/12/2011 18:01 65.6
29/11/2011 7:31 67.2	3/12/2011 14:31 72.0	9/12/2011 9:31 69.7	14/12/2011 16:31 68.6	20/12/2011 11:31 66.4	24/12/2011 18:31 65.8
29/11/2011 8:01 67.2	3/12/2011 15:01 67.2	9/12/2011 10:01 68.8	14/12/2011 17:01 67.1	20/12/2011 12:01 64.4	
29/11/2011 8:31 66.2	3/12/2011 15:31 66.9	9/12/2011 10:31 69.4	14/12/2011 17:31 64.7	20/12/2011 12:31 65.4	Normal Day 19:00-23:00
29/11/2011 9:01 67.4	3/12/2011 16:01 69.0	9/12/2011 11:01 68.9	14/12/2011 18:01 64.8	20/12/2011 13:01 68.0	Sunday & Holiday 07:00-23:00
29/11/2011 9:31 66.8	3/12/2011 16:31 68.8	9/12/2011 11:31 65.8	14/12/2011 18:31 65.1	20/12/2011 13:31 69.5	28/11/2011 19:01 64.5
29/11/2011 10:01 67.4	3/12/2011 17:01 67.6	9/12/2011 12:01 65.0	15/12/2011 7:01 65.3	20/12/2011 14:01 68.0	28/11/2011 19:06 64.3
29/11/2011 10:31 71.1	3/12/2011 17:31 65.0	9/12/2011 12:31 65.1	15/12/2011 7:31 65.9	20/12/2011 14:31 67.5	28/11/2011 19:11 64.2
29/11/2011 11:01 71.4	3/12/2011 18:01 64.0	9/12/2011 13:01 68.4	15/12/2011 8:01 65.5	20/12/2011 15:01 68.6	28/11/2011 19:16 64.4
29/11/2011 11:31 69.2	3/12/2011 18:31 63.9	9/12/2011 13:31 68.8	15/12/2011 8:31 67.6	20/12/2011 15:31 66.7	28/11/2011 19:21 64.1
29/11/2011 12:01 66.1	5/12/2011 7:01 65.3	9/12/2011 14:01 68.2	15/12/2011 9:01 68.2	20/12/2011 16:01 69.0	28/11/2011 19:26 63.6
29/11/2011 12:31 65.8	5/12/2011 7:31 65.5	9/12/2011 14:31 67.9	15/12/2011 9:31 67.7	20/12/2011 16:31 69.2	28/11/2011 19:31 64.5
29/11/2011 13:01 70.3	5/12/2011 8:01 67.1	9/12/2011 15:01 70.3	15/12/2011 10:01 68.7	20/12/2011 17:01 68.4	28/11/2011 19:36 65.5
29/11/2011 13:31 70.8	5/12/2011 8:31 67.7	9/12/2011 15:31 69.1	15/12/2011 10:31 68.4	20/12/2011 17:31 66.4	28/11/2011 19:41 65.4
29/11/2011 14:01 71.2	5/12/2011 9:01 68.8	9/12/2011 16:01 68.6	15/12/2011 11:01 69.0	20/12/2011 18:01 65.6	28/11/2011 19:46 65.3
29/11/2011 14:31 70.6	5/12/2011 9:31 69.2	9/12/2011 16:31 69.1	15/12/2011 11:31 68.0	20/12/2011 18:31 64.7	28/11/2011 19:51 65.1
29/11/2011 15:01 69.8	5/12/2011 10:01 67.1	9/12/2011 17:01 68.4	15/12/2011 12:01 64.8	21/12/2011 7:01 66.2	28/11/2011 19:56 64.9
29/11/2011 15:31 67.6	5/12/2011 10:31 69.1	9/12/2011 17:31 66.0	15/12/2011 12:31 64.8	21/12/2011 7:31 67.2	28/11/2011 20:01 65.6
29/11/2011 16:01 71.4	5/12/2011 11:01 68.3	9/12/2011 18:01 65.6	15/12/2011 13:01 67.3	21/12/2011 8:01 68.7	28/11/2011 20:06 65.0
29/11/2011 16:31 71.5	5/12/2011 11:31 67.3	9/12/2011 18:31 64.6	15/12/2011 13:31 72.2	21/12/2011 8:31 68.9	28/11/2011 20:11 65.5
29/11/2011 17:01 71.1	5/12/2011 12:01 65.2	10/12/2011 7:01 65.6	15/12/2011 14:01 69.1	21/12/2011 9:01 68.9	28/11/2011 20:16 65.3
29/11/2011 17:31 67.3	5/12/2011 12:31 65.4	10/12/2011 7:31 67.1	15/12/2011 14:31 68.7	21/12/2011 9:31 68.7	28/11/2011 20:21 65.2
29/11/2011 18:01 65.9	5/12/2011 13:01 69.0	10/12/2011 8:01 69.0	15/12/2011 15:01 71.5	21/12/2011 10:01 67.6	28/11/2011 20:26 65.3
29/11/2011 18:31 64.9	5/12/2011 13:31 68.6	10/12/2011 8:31 69.6	15/12/2011 15:31 67.9	21/12/2011 10:31 68.0	28/11/2011 20:31 65.5
30/11/2011 7:01 65.3	5/12/2011 14:01 67.6	10/12/2011 9:01 69.7	15/12/2011 16:01 69.7	21/12/2011 11:01 71.0	28/11/2011 20:36 65.5
30/11/2011 7:31 66.1	5/12/2011 14:31 68.7	10/12/2011 9:31 69.6	15/12/2011 16:31 72.0	21/12/2011 11:31 70.2	28/11/2011 20:41 65.1
30/11/2011 8:01 68.0	5/12/2011 15:01 68.1	10/12/2011 10:01 69.4	15/12/2011 17:01 71.5	21/12/2011 12:01 64.1	28/11/2011 20:46 65.0
30/11/2011 8:31 70.9	5/12/2011 15:31 67.1	10/12/2011 10:31 69.2	15/12/2011 17:31 68.9	21/12/2011 12:31 64.6	28/11/2011 20:51 65.5
30/11/2011 9:01 71.3	5/12/2011 16:01 68.3	10/12/2011 11:01 69.3	15/12/2011 18:01 66.8	21/12/2011 13:01 67.4	28/11/2011 20:56 65.2
30/11/2011 9:31 70.7	5/12/2011 16:31 67.8	10/12/2011 11:31 67.0	15/12/2011 18:31 65.0	21/12/2011 13:31 67.1	28/11/2011 21:01 65.3
30/11/2011 10:01 72.0	5/12/2011 17:01 67.4	10/12/2011 12:01 65.8	16/12/2011 7:01 65.6	21/12/2011 14:01 67.6	28/11/2011 21:06 65.5
30/11/2011 10:31 70.4	5/12/2011 17:31 67.1	10/12/2011 12:31 65.7	16/12/2011 7:31 67.0	21/12/2011 14:31 66.6	28/11/2011 21:11 65.4
30/11/2011 11:01 70.2	5/12/2011 18:01 64.7	10/12/2011 13:01 68.5	16/12/2011 8:01 68.5	21/12/2011 15:01 66.8	28/11/2011 21:16 65.1
30/11/2011 11:31 70.1	5/12/2011 18:31 65.0	10/12/2011 13:31 68.9	16/12/2011 8:31 69.5	21/12/2011 15:31 66.3	28/11/2011 21:21 65.3
30/11/2011 12:01 66.2	6/12/2011 7:01 65.4	10/12/2011 14:01 68.1	16/12/2011 9:01 70.6	21/12/2011 16:01 68.0	28/11/2011 21:26 65.0
30/11/2011 12:31 66.0	6/12/2011 7:31 65.8	10/12/2011 14:31 68.4	16/12/2011 9:31 68.9	21/12/2011 16:31 68.2	28/11/2011 21:31 65.0
30/11/2011 13:01 73.4	6/12/2011 8:01 65.5	10/12/2011 15:01 68.9	16/12/2011 10:01 69.3	21/12/2011 17:01 69.1	28/11/2011 21:36 65.0
30/11/2011 13:31 67.9	6/12/2011 8:31 67.6	10/12/2011 15:31 67.5	16/12/2011 10:31 68.9	21/12/2011 17:31 67.1	28/11/2011 21:41 65.1
30/11/2011 14:01 70.6	6/12/2011 9:01 67.9	10/12/2011 16:01 68.4	16/12/2011 11:01 68.1	21/12/2011 18:01 65.4	28/11/2011 21:46 65.1
30/11/2011 14:31 73.5	6/12/2011 9:31 68.5	10/12/2011 16:31 68.6	16/12/2011 11:31 67.1	21/12/2011 18:31 64.6	28/11/2011 21:51 65.5
30/11/2011 15:01 70.7	6/12/2011 10:01 68.7	10/12/2011 17:01 68.6	16/12/2011 12:01 64.2	22/12/2011 7:01 65.9	28/11/2011 21:56 65.2
30/11/2011 15:31 67.2	6/12/2011 10:31 68.3	10/12/2011 17:31 67.0	16/12/2011 12:31 64.3	22/12/2011 7:31 67.3	28/11/2011 22:01 65.0
30/11/2011 16:01 69.2	6/12/2011 11:01 69.2	10/12/2011 18:01 66.4	16/12/2011 13:01 66.7	22/12/2011 8:01 67.2	28/11/2011 22:06 64.9
30/11/2011 16:31 68.5	6/12/2011 11:31 67.8	10/12/2011 18:31 65.7	16/12/2011 13:31 67.6	22/12/2011 8:31 68.0	28/11/2011 22:11 65.0
30/11/2011 17:01 70.8	6/12/2011 12:01 66.4	12/12/2011 7:01 65.7	16/12/2011 14:01 68.2	22/12/2011 9:01 72.0	28/11/2011 22:16 65.0
30/11/2011 17:31 67.1	6/12/2011 12:31 65.7	12/12/2011 7:31 66.9	16/12/2011 14:31 67.8	22/12/2011 9:31 67.6	28/11/2011 22:21 65.1
30/11/2011 18:01 65.6	6/12/2011 13:01 67.8	12/12/2011 8:01 67.6	16/12/2011 15:01 66.3	22/12/2011 10:01 67.2	28/11/2011 22:26 64.3
30/11/2011 18:31 65.4	6/12/2011 13:31 68.3	12/12/2011 8:31 68.5	16/12/2011 15:31 65.9	22/12/2011 10:31 67.3	28/11/2011 22:31 64.7
1/12/2011 7:01 66.1	6/12/2011 14:01 67.6	12/12/2011 9:01 68.7	16/12/2011 16:01 68.1	22/12/2011 11:01 68.0	28/11/2011 22:36 64.7
1/12/2011 7:31 66.9	6/12/2011 14:31 68.3	12/12/2011 9:31 69.1	16/12/2011 16:31 68.7	22/12/2011 11:31 67.9	28/11/2011 22:41 64.2
1/12/2011 8:01 67.0	6/12/2011 15:01 68.6	12/12/2011 10:01 69.2	16/12/2011 17:01 68.1	22/12/2011 12:01 65.4	28/11/2011 22:46 64.4
1/12/2011 8:31 69.7	6/12/2011 15:31 67.2	12/12/2011 10:31 69.4	16/12/2011 17:31 65.6	22/12/2011 12:31 65.5	28/11/2011 22:51 64.2
1/12/2011 9:01 69.1	6/12/2011 16:01 68.4	12/12/2011 11:01 69.4	16/12/2011 18:01 65.4	22/12/2011 13:01 68.9	28/11/2011 22:56 63.9
1/12/2011 9:31 67.5	6/12/2011 16:31 68.5	12/12/2011 11:31 66.8	16/12/2011 18:31 64.2		

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

29/11/2011 21:41 65.1	1/12/2011 22:51 64.1	4/12/2011 8:01 63.4	4/12/2011 17:11 65.1	5/12/2011 22:21 64.0	8/12/2011 19:31 65.0
29/11/2011 21:46 65.2	1/12/2011 22:56 64.5	4/12/2011 8:06 63.6	4/12/2011 17:16 65.6	5/12/2011 22:26 63.2	8/12/2011 19:36 65.2
29/11/2011 21:51 65.6	2/12/2011 19:01 63.3	4/12/2011 8:11 64.0	4/12/2011 17:21 65.0	5/12/2011 22:31 63.3	8/12/2011 19:41 65.6
29/11/2011 21:56 64.8	2/12/2011 19:06 63.0	4/12/2011 8:16 64.7	4/12/2011 17:26 64.7	5/12/2011 22:36 63.1	8/12/2011 19:46 64.9
29/11/2011 22:01 65.2	2/12/2011 19:11 63.1	4/12/2011 8:21 65.0	4/12/2011 17:31 65.1	5/12/2011 22:41 63.9	8/12/2011 19:51 65.0
29/11/2011 22:06 64.8	2/12/2011 19:16 63.0	4/12/2011 8:26 65.9	4/12/2011 17:36 65.2	5/12/2011 22:46 63.5	8/12/2011 19:56 65.2
29/11/2011 22:11 64.7	2/12/2011 19:21 62.8	4/12/2011 8:31 64.2	4/12/2011 17:41 65.3	5/12/2011 22:51 64.4	8/12/2011 20:01 65.8
29/11/2011 22:16 64.5	2/12/2011 19:26 62.5	4/12/2011 8:36 64.8	4/12/2011 17:46 65.6	5/12/2011 22:56 62.8	8/12/2011 20:06 66.5
29/11/2011 22:21 64.8	2/12/2011 19:31 63.2	4/12/2011 8:41 65.0	4/12/2011 17:51 65.3	6/12/2011 19:01 63.9	8/12/2011 20:11 67.0
29/11/2011 22:26 64.0	2/12/2011 19:36 64.0	4/12/2011 8:46 65.3	4/12/2011 17:56 65.1	6/12/2011 19:06 63.8	8/12/2011 20:16 66.9
29/11/2011 22:31 64.5	2/12/2011 19:41 64.2	4/12/2011 8:51 65.4	4/12/2011 18:01 64.5	6/12/2011 19:11 64.1	8/12/2011 20:21 66.3
29/11/2011 22:36 64.3	2/12/2011 19:46 63.9	4/12/2011 8:56 65.0	4/12/2011 18:06 64.9	6/12/2011 19:16 64.9	8/12/2011 20:26 67.1
29/11/2011 22:41 64.1	2/12/2011 19:51 63.3	4/12/2011 9:01 64.8	4/12/2011 18:11 64.6	6/12/2011 19:21 64.7	8/12/2011 20:31 66.6
29/11/2011 22:46 64.1	2/12/2011 19:56 63.5	4/12/2011 9:06 65.5	4/12/2011 18:16 64.9	6/12/2011 19:26 64.8	8/12/2011 20:36 66.3
29/11/2011 22:51 64.0	2/12/2011 20:01 63.8	4/12/2011 9:11 65.1	4/12/2011 18:21 64.2	6/12/2011 19:31 64.7	8/12/2011 20:41 66.2
29/11/2011 22:56 63.6	2/12/2011 20:06 63.2	4/12/2011 9:16 65.6	4/12/2011 18:26 64.8	6/12/2011 19:36 64.9	8/12/2011 20:46 66.0
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30/11/2011 19:11 65.2	2/12/2011 20:21 65.2	4/12/2011 9:31 65.8	4/12/2011 18:41 64.3	6/12/2011 19:51 65.9	8/12/2011 21:01 66.2
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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)

26/12/2011 18:41 62.7	27/12/2011 11:51 61.7	27/12/2011 21:01 61.4	28/11/2011 23:01 63.7	30/11/2011 0:11 62.4	1/12/2011 1:21 61.4
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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2/12/2011 3:01	58.8	3/12/2011 4:11	60.4	4/12/2011 5:21	59.8	5/12/2011 6:31	63.1	6/12/2011 23:41	61.7	8/12/2011 0:51	60.4
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3/12/2011 0:01	64.0	4/12/2011 1:11	61.5	5/12/2011 2:21	57.2	6/12/2011 3:31	57.0	7/12/2011 4:41	59.5	8/12/2011 5:51	61.3
3/12/2011 0:06	63.5	4/12/2011 1:16	60.6	5/12/2011 2:26	57.3	6/12/2011 3:36	57.6	7/12/2011 4:46	57.3	8/12/2011 5:56	61.2
3/12/2011 0:11	63.3	4/12/2011 1:21	61.7	5/12/2011 2:31	58.5	6/12/2011 3:41	57.0	7/12/2011 4:51	58.4	8/12/2011 6:01	61.9
3/12/2011 0:16	63.8	4/12/2011 1:26	61.3	5/12/2011 2:36	57.2	6/12/2011 3:46	58.6	7/12/2011 4:56	57.9	8/12/2011 6:06	62.6
3/12/2011 0:21	63.0	4/12/2011 1:31	60.6	5/12/2011 2:41	58.0	6/12/2011 3:51	58.4	7/12/2011 5:01	58.4	8/12/2011 6:11	63.1
3/12/2011 0:26	62.7	4/12/2011 1									

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

9/12/2011 1:31	60.9	10/12/2011 2:41	61.9	11/12/2011 3:51	60.5	12/12/2011 5:01	59.4	13/12/2011 6:11	61.8	14/12/2011 23:21	63.8
9/12/2011 1:36	61.9	10/12/2011 2:46	62.6	11/12/2011 3:56	60.3	12/12/2011 5:06	60.0	13/12/2011 6:16	61.8	14/12/2011 23:26	63.1
9/12/2011 1:41	61.8	10/12/2011 2:51	61.9	11/12/2011 4:01	59.6	12/12/2011 5:11	59.9	13/12/2011 6:21	63.2	14/12/2011 23:31	63.2
9/12/2011 1:46	60.8	10/12/2011 2:56	61.8	11/12/2011 4:06	60.1	12/12/2011 5:16	60.5	13/12/2011 6:26	63.3	14/12/2011 23:36	63.1
9/12/2011 1:51	60.6	10/12/2011 3:01	61.7	11/12/2011 4:11	60.4	12/12/2011 5:21	59.7	13/12/2011 6:31	63.9	14/12/2011 23:41	63.6
9/12/2011 1:56	60.9	10/12/2011 3:06	61.6	11/12/2011 4:16	60.3	12/12/2011 5:26	60.2	13/12/2011 6:36	64.0	14/12/2011 23:46	63.2
9/12/2011 2:01	61.7	10/12/2011 3:11	61.7	11/12/2011 4:21	60.1	12/12/2011 5:31	60.2	13/12/2011 6:41	64.1	14/12/2011 23:51	62.9
9/12/2011 2:06	61.8	10/12/2011 3:16	61.4	11/12/2011 4:26	59.8	12/12/2011 5:36	60.8	13/12/2011 6:46	63.7	14/12/2011 23:56	63.9
9/12/2011 2:11	60.3	10/12/2011 3:21	61.0	11/12/2011 4:31	60.4	12/12/2011 5:41	61.2	13/12/2011 6:51	64.9	15/12/2011 0:01	62.7
9/12/2011 2:16	60.4	10/12/2011 3:26	61.5	11/12/2011 4:36	60.2	12/12/2011 5:46	61.8	13/12/2011 6:56	65.3	15/12/2011 0:06	62.8
9/12/2011 2:21	60.8	10/12/2011 3:31	60.9	11/12/2011 4:41	60.7	12/12/2011 5:51	61.4	13/12/2011 23:01	63.8	15/12/2011 0:11	62.9
9/12/2011 2:26	60.6	10/12/2011 3:36	61.5	11/12/2011 4:46	60.2	12/12/2011 5:56	61.3	13/12/2011 23:06	63.8	15/12/2011 0:16	63.5
9/12/2011 2:31	61.3	10/12/2011 3:41	62.6	11/12/2011 4:51	60.2	12/12/2011 6:01	61.8	13/12/2011 23:11	64.3	15/12/2011 0:21	63.4
9/12/2011 2:36	60.6	10/12/2011 3:46	61.8	11/12/2011 4:56	60.4	12/12/2011 6:06	62.1	13/12/2011 23:16	64.1	15/12/2011 0:26	62.6
9/12/2011 2:41	60.1	10/12/2011 3:51	60.8	11/12/2011 5:01	60.7	12/12/2011 6:11	62.5	13/12/2011 23:21	63.9	15/12/2011 0:31	62.0
9/12/2011 2:46	60.2	10/12/2011 3:56	61.3	11/12/2011 5:06	60.8	12/12/2011 6:16	62.2	13/12/2011 23:26	63.9	15/12/2011 0:36	62.8
9/12/2011 2:51	60.2	10/12/2011 4:01	60.5	11/12/2011 5:11	60.2	12/12/2011 6:21	63.3	13/12/2011 23:31	64.1	15/12/2011 0:41	62.3
9/12/2011 2:56	59.8	10/12/2011 4:06	60.6	11/12/2011 5:16	60.1	12/12/2011 6:26	63.3	13/12/2011 23:36	63.6	15/12/2011 0:46	62.2
9/12/2011 3:01	60.1	10/12/2011 4:11	60.6	11/12/2011 5:21	60.4	12/12/2011 6:31	63.6	13/12/2011 23:41	63.2	15/12/2011 0:51	60.9
9/12/2011 3:06	60.2	10/12/2011 4:16	60.1	11/12/2011 5:26	61.1	12/12/2011 6:36	64.2	13/12/2011 23:46	63.6	15/12/2011 0:56	61.6
9/12/2011 3:11	59.5	10/12/2011 4:21	59.9	11/12/2011 5:31	60.1	12/12/2011 6:41	64.6	13/12/2011 23:51	63.5	15/12/2011 1:01	61.2
9/12/2011 3:16	59.5	10/12/2011 4:26	61.2	11/12/2011 5:36	60.4	12/12/2011 6:46	64.8	13/12/2011 23:56	63.0	15/12/2011 1:06	61.0
9/12/2011 3:21	59.2	10/12/2011 4:31	60.8	11/12/2011 5:41	60.7	12/12/2011 6:51	64.9	14/12/2011 0:01	63.5	15/12/2011 1:11	60.6
9/12/2011 3:26	58.3	10/12/2011 4:36	59.6	11/12/2011 5:46	61.0	12/12/2011 6:56	64.9	14/12/2011 0:06	63.5	15/12/2011 1:16	60.9
9/12/2011 3:31	60.0	10/12/2011 4:41	61.8	11/12/2011 5:51	61.0	12/12/2011 23:01	63.9	14/12/2011 0:11	63.6	15/12/2011 1:21	60.9
9/12/2011 3:36	59.4	10/12/2011 4:46	60.5	11/12/2011 5:56	61.8	12/12/2011 23:06	64.0	14/12/2011 0:16	63.0	15/12/2011 1:26	60.1
9/12/2011 3:41	60.5	10/12/2011 4:51	60.3	11/12/2011 6:01	61.5	12/12/2011 23:11	63.7	14/12/2011 0:21	62.5	15/12/2011 1:31	60.0
9/12/2011 3:46	60.1	10/12/2011 4:56	60.8	11/12/2011 6:06	61.5	12/12/2011 23:16	64.1	14/12/2011 0:26	63.9	15/12/2011 1:36	60.2
9/12/2011 3:51	59.7	10/12/2011 5:01	60.3	11/12/2011 6:11	61.9	12/12/2011 23:21	64.1	14/12/2011 0:31	63.0	15/12/2011 1:41	59.6
9/12/2011 3:56	59.2	10/12/2011 5:06	61.7	11/12/2011 6:16	63.0	12/12/2011 23:26	64.0	14/12/2011 0:36	62.5	15/12/2011 1:46	59.4
9/12/2011 4:01	58.0	10/12/2011 5:11	60.7	11/12/2011 6:21	62.3	12/12/2011 23:31	63.5	14/12/2011 0:41	62.0	15/12/2011 1:51	60.2
9/12/2011 4:06	58.8	10/12/2011 5:16	61.8	11/12/2011 6:26	62.9	12/12/2011 23:36	63.2	14/12/2011 0:46	61.3	15/12/2011 1:56	59.2
9/12/2011 4:11	58.8	10/12/2011 5:21	60.8	11/12/2011 6:31	63.0	12/12/2011 23:41	63.7	14/12/2011 0:51	61.4	15/12/2011 2:01	59.9
9/12/2011 4:16	58.8	10/12/2011 5:26	60.7	11/12/2011 6:36	63.3	12/12/2011 23:46	63.3	14/12/2011 0:56	61.7	15/12/2011 2:06	58.6
9/12/2011 4:21	58.6	10/12/2011 5:31	61.3	11/12/2011 6:41	63.1	12/12/2011 23:51	63.7	14/12/2011 1:01	62.4	15/12/2011 2:11	59.5
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9/12/2011 4:36	59.2	10/12/2011 5:46	63.3	11/12/2011 6:56	63.3	13/12/2011 0:06	63.9	14/12/2011 1:16	60.9	15/12/2011 2:26	58.8
9/12/2011 4:41	59.2	10/12/2011 5:51	61.6	11/12/2011 23:01	63.1	13/12/2011 0:11	63.3	14/12/2011 1:21	61.2	15/12/2011 2:31	60.0
9/12/2011 4:46	59.9	10/12/2011 5:56	61.9	11/12/2011 23:06	62.9	13/12/2011 0:16	63.5	14/12/2011 1:26	61.1	15/12/2011 2:36	59.6
9/12/2011 4:51	59.1	10/12/2011 6:01	61.6	11/12/2011 23:11	63.0	13/12/2011 0:21	62.2	14/12/2011 1:31	60.7	15/12/2011 2:41	58.8
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9/12/2011 5:01	59.2	10/12/2011 6:11	62.4	11/12/2011 23:21	63.0	13/12/2011 0:31	62.6	14/12/2011 1:41	60.2	15/12/2011 2:51	58.6
9/12/2011 5:06	59.8	10/12/2011 6:16	62.1	11/12/2011 23:26	62.8	13/12/2011 0:36	61.9	14/12/2011 1:46	60.6	15/12/2011 2:56	58.0
9/12/2011 5:11	60.3	10/12/2011 6:21	62.6	11/12/2011 23:31	64.6	13/12/2011 0:41	62.0	14/12/2011 1:51	60.2	15/12/2011 3:01	59.1
9/12/2011 5:16	60.8	10/12/2011 6:26	63.1	11/12/2011 23:36	62.8	13/12/2011 0:46	62.0	14/12/2011 1:56	59.6	15/12/2011 3:06	59.1
9/12/2011 5:21	60.0	10/12/2011 6:31	62.8	11/12/2011 23:41	63.0	13/12/2011 0:51	61.6	14/12/2011 2:01	59.9	15/12/2011 3:11	58.9
9/12/2011 5:26	60.7	10/12/2011 6:36	64.2	11/12/2011 23:46	62.7	13/12/2011 0:56	60.8	14/12/2011 2:06	59.5	15/12/2011 3:16	57.6
9/12/2011 5:31	60.0	10/12/2011 6:41	64.8	11/12/2011 23:51	62.5	13/12/2011 1:01	61.0	14/12/2011 2:11	59.5	15/12/2011 3:21	57.4
9/12/2011 5:36	61.2	10/12/2011 6:46	64.4	11/12/2011 23:56	62.7	13/12/2011 1:06	62.5	14/12/2011 2:16	59.2	15/12/2011 3:26	58.3
9/12/2011 5:41	61.1	10/12/2011 6:51	64.5	12/12/2011 0:01	63.6	13/12/2011 1:11	60.7	14/12/2011 2:21	59.8	15/12/2011 3:31	58.7
9/12/2011 5:46	61.7	10/12/2011 6:56	65.0	12/12/2011 0:06	63.4	13/12/2011 1:16	60.7	14/12/2011 2:26	58.9	15/12/2011 3:36	58.8
9/12/2011 5:51	61.3	10/12/2011 23:01	64.0	12/12/2011 0:11	63.1	13/12/2011 1:21	60.5	14/12/2011 2:31	58.5	15/12/2011 3:41	59.0
9/12/2011 5:56	61.3	10/12/2011 23:06	64.5	12/12/2011 0:16	63.0	13/12/2011 1:26	61.3	14/12/2011 2:36	59.2	15/12/2011 3:46	59.9
9/12/2011 6:01	61.7	10/12/2011 23:11	64.3	12/12/2011 0:21	62.7	13/12/2011 1:31	60.1	14/12/2011 2:41	60.1	15/12/2011 3:51	58.4
9/12/2011 6:06	61.9	10/12/2011 23:16	64.1	12/12/2011 0:26	63.6	13/12/2011 1:36	60.3	14/12/2011 2:46	58.1	15/12/2011 3:56	58.1
9/12/2011 6:11	62.7	10/12/2011 23:21	63.8	12/12/2011 0:31	63.8	13/12/2011 1:41	61.0	14/12/2011 2:51	59.1	15/12/2011 4:01	56.8
9/12/2011 6:16	62.2	10/12/2011 23:26	63.8	12/12/2011 0:36	62.8	13/12/2011 1:46	60.3	14/12/2011 2:56	57.9	15/12/2011 4:06	58.1
9/12/2011 6:21	63.2	10/12/2011 23:31	63.8	12/12/2011 0:41	62.9	13/12/2011 1:51	60.0	14/12/2011 3:01	58.9	15/12/2011 4:11	57.9
9/12/2011 6:26	63.6	10/12/2011 23:36	63.9	12/12/2011 0:46	62.4	13/12/2011 1:56	60.3	14/12/2011 3:06	59.1	15/12/2011 4:16	58.0
9/12/2011 6:31	64.1	10/12/2011 23:41	63.9	12/12/2011 0:51	61.5	13/12/2011 2:01	59.4	14/12/2011 3:11	58.8	15/12/2011 4:21	58.0
9/12/2011 6:36	64.5	10/12/2011 23:46	63.9	12/12/2011 0:56	61.5	13/12/2011 2:06	59.8	14/12/2011 3:16	60.3	15/12/2011 4:26	56.5
9/12/2011 6:41	64.7	10/12/2011 23:51	63.4	12/12/2011 1:01	61.3	13/12/2011 2:11	58.7	14/12/2011 3:21	58.5	15/12/2011 4:31	58.0
9/12/2011 6:46	65.6	10/12/2011 23:56	63.8	12/12/2011 1:06	62.0	13/12/2011 2:16	58.5	14/12/2011 3:26	57.6	15/12/2011 4:36	59.2
9/12/2011 6:51	65.2	11/12/2011 0:01	63.2	12/12/2011 1:11	61.6	13/12/2011 2:21	59.0	14/12/2011 3:31	59.5	15/12/2011 4:41	59.2
9/12/2011 6:56	65.2	11/12/2011 0:06	63.0	12/12/2011 1:16	62.2	13/12/2011 2:26	59.1	14/12/2011 3:36	58.1	15/12/2011 4:46	57.3
9/12/2011 23:01	64.8	11/12/2011 0:11	63.3	12/12/2011 1:21	61.3	13/12/2011 2:31	58.2	14/12/2011 3:41	58.6	15/12/2011 4:51	58.0
9/12/2011 23:06	65.3	11/12/2011 0:16	63.4	12/12/2011 1:26	61.3	13/12/2011 2:36	59.3	14/12/2011 3:46	58.8	15/12/2011 4:56	58.3
9/12/2011 23:11	65.4	11/12/2011 0:21	63.3	12/12/2011 1:31	60.9	13/12/2011 2:41	59.0	14/12/2011 3:51	5		

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

16/12/2011 0:31	63.7	17/12/2011 1:41	61.5	18/12/2011 2:51	61.8	19/12/2011 4:01	58.3	20/12/2011 5:11	59.1	21/12/2011 6:21	63.5
16/12/2011 0:36	63.6	17/12/2011 1:46	62.4	18/12/2011 2:56	61.4	19/12/2011 4:06	59.4	20/12/2011 5:16	59.8	21/12/2011 6:26	63.5
16/12/2011 0:41	63.4	17/12/2011 1:51	62.3	18/12/2011 3:01	61.7	19/12/2011 4:11	58.6	20/12/2011 5:21	58.9	21/12/2011 6:31	63.9
16/12/2011 0:46	62.8	17/12/2011 1:56	61.2	18/12/2011 3:06	61.3	19/12/2011 4:16	58.5	20/12/2011 5:26	59.4	21/12/2011 6:36	64.2
16/12/2011 0:51	61.7	17/12/2011 2:01	61.5	18/12/2011 3:11	60.9	19/12/2011 4:21	58.4	20/12/2011 5:31	59.4	21/12/2011 6:41	64.2
16/12/2011 0:56	62.5	17/12/2011 2:06	62.0	18/12/2011 3:16	61.4	19/12/2011 4:26	58.5	20/12/2011 5:36	60.4	21/12/2011 6:46	64.6
16/12/2011 1:01	61.8	17/12/2011 2:11	61.7	18/12/2011 3:21	59.9	19/12/2011 4:31	58.2	20/12/2011 5:41	60.6	21/12/2011 6:51	64.7
16/12/2011 1:06	61.1	17/12/2011 2:16	62.1	18/12/2011 3:26	59.6	19/12/2011 4:36	58.7	20/12/2011 5:46	61.6	21/12/2011 6:56	65.0
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16/12/2011 1:21	62.3	17/12/2011 2:31	61.3	18/12/2011 3:41	61.4	19/12/2011 4:51	58.6	20/12/2011 6:01	61.4	21/12/2011 23:11	63.7
16/12/2011 1:26	62.1	17/12/2011 2:36	61.3	18/12/2011 3:46	60.6	19/12/2011 4:56	58.9	20/12/2011 6:06	61.5	21/12/2011 23:16	64.3
16/12/2011 1:31	61.4	17/12/2011 2:41	61.8	18/12/2011 3:51	61.4	19/12/2011 5:01	58.3	20/12/2011 6:11	61.9	21/12/2011 23:21	63.9
16/12/2011 1:36	60.4	17/12/2011 2:46	61.1	18/12/2011 3:56	59.5	19/12/2011 5:06	59.3	20/12/2011 6:16	62.1	21/12/2011 23:26	63.2
16/12/2011 1:41	61.0	17/12/2011 2:51	61.2	18/12/2011 4:01	60.1	19/12/2011 5:11	59.0	20/12/2011 6:21	62.4	21/12/2011 23:31	63.4
16/12/2011 1:46	60.9	17/12/2011 2:56	61.6	18/12/2011 4:06	59.5	19/12/2011 5:16	59.2	20/12/2011 6:26	63.3	21/12/2011 23:36	64.4
16/12/2011 1:51	60.9	17/12/2011 3:01	62.0	18/12/2011 4:11	60.7	19/12/2011 5:21	58.7	20/12/2011 6:31	63.4	21/12/2011 23:41	63.1
16/12/2011 1:56	61.2	17/12/2011 3:06	61.3	18/12/2011 4:16	60.0	19/12/2011 5:26	59.2	20/12/2011 6:36	63.7	21/12/2011 23:46	63.8
16/12/2011 2:01	60.6	17/12/2011 3:11	61.1	18/12/2011 4:21	60.6	19/12/2011 5:31	60.8	20/12/2011 6:41	63.6	21/12/2011 23:51	63.2
16/12/2011 2:06	62.0	17/12/2011 3:16	61.1	18/12/2011 4:26	59.3	19/12/2011 5:36	59.7	20/12/2011 6:46	64.1	21/12/2011 23:56	63.4
16/12/2011 2:11	61.2	17/12/2011 3:21	60.6	18/12/2011 4:31	60.2	19/12/2011 5:41	61.8	20/12/2011 6:51	64.5	22/12/2011 0:01	63.2
16/12/2011 2:16	60.2	17/12/2011 3:26	61.4	18/12/2011 4:36	60.3	19/12/2011 5:46	60.9	20/12/2011 6:56	65.0	22/12/2011 0:06	63.5
16/12/2011 2:21	60.6	17/12/2011 3:31	61.1	18/12/2011 4:41	59.7	19/12/2011 5:51	60.9	20/12/2011 23:01	64.6	22/12/2011 0:11	63.1
16/12/2011 2:26	61.0	17/12/2011 3:36	61.8	18/12/2011 4:46	60.2	19/12/2011 5:56	60.8	20/12/2011 23:06	64.6	22/12/2011 0:16	62.8
16/12/2011 2:31	59.1	17/12/2011 3:41	60.8	18/12/2011 4:51	59.4	19/12/2011 6:01	62.1	20/12/2011 23:11	64.9	22/12/2011 0:21	63.0
16/12/2011 2:36	59.7	17/12/2011 3:46	61.4	18/12/2011 4:56	60.1	19/12/2011 6:06	61.5	20/12/2011 23:16	64.4	22/12/2011 0:26	63.7
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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23/12/2011 6:36 62.9	24/12/2011 23:46 64.9	26/12/2011 0:56 62.2	27/12/2011 2:06 58.4	
23/12/2011 6:41 63.7	24/12/2011 23:51 64.0	26/12/2011 1:01 62.6	27/12/2011 2:11 58.8	
23/12/2011 6:46 63.4	24/12/2011 23:56 64.2	26/12/2011 1:06 62.9	27/12/2011 2:16 58.1	
23/12/2011 6:51 64.1	25/12/2011 0:01 63.7	26/12/2011 1:11 66.3	27/12/2011 2:21 58.0	
23/12/2011 6:56 64.6	25/12/2011 0:06 64.2	26/12/2011 1:16 68.2	27/12/2011 2:26 59.7	
23/12/2011 23:01 65.9	25/12/2011 0:11 63.5	26/12/2011 1:21 67.5	27/12/2011 2:31 60.8	
23/12/2011 23:06 65.5	25/12/2011 0:16 64.3	26/12/2011 1:26 68.1	27/12/2011 2:36 62.0	
23/12/2011 23:11 65.7	25/12/2011 0:21 63.8	26/12/2011 1:31 65.1	27/12/2011 2:41 65.5	
23/12/2011 23:16 65.4	25/12/2011 0:26 63.3	26/12/2011 1:36 64.5	27/12/2011 2:46 68.8	
23/12/2011 23:21 66.4	25/12/2011 0:31 63.7	26/12/2011 1:41 63.0	27/12/2011 2:51 64.2	
23/12/2011 23:26 65.1	25/12/2011 0:36 63.6	26/12/2011 1:46 61.0	27/12/2011 2:56 63.5	
23/12/2011 23:31 65.7	25/12/2011 0:41 63.4	26/12/2011 1:51 60.7	27/12/2011 3:01 63.5	
23/12/2011 23:36 66.0	25/12/2011 0:46 63.0	26/12/2011 1:56 59.8	27/12/2011 3:06 61.7	
23/12/2011 23:41 64.9	25/12/2011 0:51 62.5	26/12/2011 2:01 60.1	27/12/2011 3:11 60.2	
23/12/2011 23:46 64.3	25/12/2011 0:56 62.6	26/12/2011 2:06 64.3	27/12/2011 3:16 59.9	
23/12/2011 23:51 64.7	25/12/2011 1:01 62.8	26/12/2011 2:11 70.0	27/12/2011 3:21 59.3	
23/12/2011 23:56 65.1	25/12/2011 1:06 62.4	26/12/2011 2:16 65.1	27/12/2011 3:26 59.7	
24/12/2011 0:01 64.8	25/12/2011 1:11 62.6	26/12/2011 2:21 64.1	27/12/2011 3:31 62.0	
24/12/2011 0:06 65.1	25/12/2011 1:16			

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

Normal Day 07:00-19:00					
28/11/2011 7:01 63.6	2/12/2011 13:31 68.3	8/12/2011 8:31 67.3	13/12/2011 15:31 67.1	19/12/2011 10:31 66.7	23/12/2011 17:31 67.1
28/11/2011 7:31 64.3	2/12/2011 14:01 67.8	8/12/2011 9:01 67.7	13/12/2011 16:01 67.0	19/12/2011 11:01 66.0	23/12/2011 18:01 66.4
28/11/2011 8:01 66.3	2/12/2011 14:31 67.4	8/12/2011 9:31 67.2	13/12/2011 16:31 67.8	19/12/2011 11:31 66.8	23/12/2011 18:31 65.3
28/11/2011 8:31 67.6	2/12/2011 15:01 67.6	8/12/2011 10:01 68.3	13/12/2011 17:01 68.9	19/12/2011 12:01 64.5	24/12/2011 7:01 63.4
28/11/2011 9:01 67.1	2/12/2011 15:31 67.8	8/12/2011 10:31 67.2	13/12/2011 17:31 67.5	19/12/2011 12:31 65.0	24/12/2011 7:31 65.2
28/11/2011 9:31 67.7	2/12/2011 16:01 67.0	8/12/2011 11:01 66.8	13/12/2011 18:01 65.7	19/12/2011 13:01 65.8	24/12/2011 8:01 67.0
28/11/2011 10:01 68.0	2/12/2011 16:31 67.2	8/12/2011 11:31 64.9	13/12/2011 18:31 63.6	19/12/2011 13:31 66.7	24/12/2011 8:31 68.8
28/11/2011 10:31 68.2	2/12/2011 17:01 67.6	8/12/2011 12:01 63.8	14/12/2011 7:01 62.9	19/12/2011 14:01 66.4	24/12/2011 9:01 69.1
28/11/2011 11:01 68.1	2/12/2011 17:31 67.0	8/12/2011 12:31 64.6	14/12/2011 7:31 65.0	19/12/2011 14:31 67.8	24/12/2011 9:31 67.7
28/11/2011 11:31 67.2	2/12/2011 18:01 66.4	8/12/2011 13:01 66.2	14/12/2011 8:01 68.2	19/12/2011 15:01 65.1	24/12/2011 10:01 67.8
28/11/2011 12:01 66.0	2/12/2011 18:31 64.0	8/12/2011 13:31 66.1	14/12/2011 8:31 68.8	19/12/2011 15:31 65.8	24/12/2011 10:31 67.5
28/11/2011 12:31 66.2	3/12/2011 7:01 63.0	8/12/2011 14:01 67.8	14/12/2011 9:01 67.6	19/12/2011 16:01 65.8	24/12/2011 11:01 67.7
28/11/2011 13:01 67.2	3/12/2011 7:31 64.7	8/12/2011 14:31 66.9	14/12/2011 9:31 68.1	19/12/2011 16:31 66.1	24/12/2011 11:31 65.0
28/11/2011 13:31 67.3	3/12/2011 8:01 66.8	8/12/2011 15:01 66.0	14/12/2011 10:01 67.9	19/12/2011 17:01 66.9	24/12/2011 12:01 64.8
28/11/2011 14:01 67.5	3/12/2011 8:31 68.0	8/12/2011 15:31 66.6	14/12/2011 10:31 68.8	19/12/2011 17:31 66.1	24/12/2011 12:31 64.1
28/11/2011 14:31 67.1	3/12/2011 9:01 67.2	8/12/2011 16:01 66.5	14/12/2011 11:01 68.4	19/12/2011 18:01 65.9	24/12/2011 13:01 67.2
28/11/2011 15:01 67.2	3/12/2011 9:31 67.9	8/12/2011 16:31 66.4	14/12/2011 11:31 66.3	19/12/2011 18:31 66.5	24/12/2011 13:31 68.1
28/11/2011 15:31 67.4	3/12/2011 10:01 68.6	8/12/2011 17:01 66.2	14/12/2011 12:01 64.4	20/12/2011 7:01 63.6	24/12/2011 14:01 67.0
28/11/2011 16:01 66.9	3/12/2011 10:31 68.7	8/12/2011 17:31 66.3	14/12/2011 12:31 65.2	20/12/2011 7:31 64.9	24/12/2011 14:31 67.6
28/11/2011 16:31 68.4	3/12/2011 11:01 67.9	8/12/2011 18:01 66.4	14/12/2011 13:01 68.1	20/12/2011 8:01 66.1	24/12/2011 15:01 66.5
28/11/2011 17:01 68.0	3/12/2011 11:31 66.4	8/12/2011 18:31 64.3	14/12/2011 13:31 68.2	20/12/2011 8:31 66.8	24/12/2011 15:31 67.4
28/11/2011 17:31 66.3	3/12/2011 12:01 65.8	9/12/2011 7:01 63.2	14/12/2011 14:01 67.8	20/12/2011 9:01 67.1	24/12/2011 16:01 67.3
28/11/2011 18:01 65.6	3/12/2011 12:31 65.9	9/12/2011 7:31 64.7	14/12/2011 14:31 66.5	20/12/2011 9:31 67.6	24/12/2011 16:31 66.4
28/11/2011 18:31 64.5	3/12/2011 13:01 66.9	9/12/2011 8:01 66.7	14/12/2011 15:01 68.1	20/12/2011 10:01 68.0	24/12/2011 17:01 65.6
29/11/2011 7:01 62.9	3/12/2011 13:31 67.1	9/12/2011 8:31 66.8	14/12/2011 15:31 67.9	20/12/2011 10:31 67.9	24/12/2011 17:31 63.2
29/11/2011 7:31 65.2	3/12/2011 14:01 67.4	9/12/2011 9:01 68.0	14/12/2011 16:01 71.5	20/12/2011 11:01 68.8	24/12/2011 18:01 65.5
29/11/2011 8:01 67.4	3/12/2011 14:31 66.9	9/12/2011 9:31 67.7	14/12/2011 16:31 71.0	20/12/2011 11:31 66.8	24/12/2011 18:31 64.5
29/11/2011 8:31 68.0	3/12/2011 15:01 66.9	9/12/2011 10:01 67.0	14/12/2011 17:01 69.3	20/12/2011 12:01 66.2	
29/11/2011 9:01 66.9	3/12/2011 15:31 67.9	9/12/2011 10:31 67.5	14/12/2011 17:31 65.5	20/12/2011 12:31 67.0	Normal Day 19:00-23:00
29/11/2011 9:31 67.3	3/12/2011 16:01 67.1	9/12/2011 11:01 66.7	14/12/2011 18:01 67.0	20/12/2011 13:01 68.4	Sunday & Holiday 07:00-23:00
29/11/2011 10:01 67.7	3/12/2011 16:31 68.0	9/12/2011 11:31 65.1	14/12/2011 18:31 65.9	20/12/2011 13:31 68.9	28/11/2011 19:01 63.8
29/11/2011 10:31 68.3	3/12/2011 17:01 67.7	9/12/2011 12:01 63.2	15/12/2011 7:01 63.9	20/12/2011 14:01 68.5	28/11/2011 19:06 63.0
29/11/2011 11:01 68.2	3/12/2011 17:31 66.0	9/12/2011 12:31 64.1	15/12/2011 7:31 64.9	20/12/2011 14:31 67.8	28/11/2011 19:11 64.1
29/11/2011 11:31 67.8	3/12/2011 18:01 64.1	9/12/2011 13:01 66.0	15/12/2011 8:01 66.4	20/12/2011 15:01 67.9	28/11/2011 19:16 66.1
29/11/2011 12:01 66.4	3/12/2011 18:31 63.1	9/12/2011 13:31 66.6	15/12/2011 8:31 68.5	20/12/2011 15:31 67.3	28/11/2011 19:21 64.9
29/11/2011 12:31 66.6	5/12/2011 7:01 63.1	9/12/2011 14:01 68.4	15/12/2011 9:01 67.9	20/12/2011 16:01 68.1	28/11/2011 19:26 64.6
29/11/2011 13:01 67.6	5/12/2011 7:31 63.4	9/12/2011 14:31 66.6	15/12/2011 9:31 68.0	20/12/2011 16:31 67.9	28/11/2011 19:31 63.0
29/11/2011 13:31 67.6	5/12/2011 8:01 66.3	9/12/2011 15:01 66.4	15/12/2011 10:01 66.8	20/12/2011 17:01 68.1	28/11/2011 19:36 62.3
29/11/2011 14:01 67.8	5/12/2011 8:31 67.2	9/12/2011 15:31 66.9	15/12/2011 10:31 67.2	20/12/2011 17:31 67.8	28/11/2011 19:41 63.1
29/11/2011 14:31 67.2	5/12/2011 9:01 66.3	9/12/2011 16:01 67.3	15/12/2011 11:01 68.4	20/12/2011 18:01 67.6	28/11/2011 19:46 62.3
29/11/2011 15:01 67.6	5/12/2011 9:31 67.7	9/12/2011 16:31 67.9	15/12/2011 11:31 66.8	20/12/2011 18:31 67.3	28/11/2011 19:51 62.4
29/11/2011 15:31 67.8	5/12/2011 10:01 67.0	9/12/2011 17:01 67.9	15/12/2011 12:01 64.0	21/12/2011 7:01 64.1	28/11/2011 19:56 62.5
29/11/2011 16:01 67.0	5/12/2011 10:31 65.9	9/12/2011 17:31 66.2	15/12/2011 12:31 63.8	21/12/2011 7:31 65.3	28/11/2011 20:01 63.5
29/11/2011 16:31 67.9	5/12/2011 11:01 66.0	9/12/2011 18:01 64.6	15/12/2011 13:01 67.4	21/12/2011 8:01 67.0	28/11/2011 20:06 63.2
29/11/2011 17:01 67.7	5/12/2011 11:31 65.5	9/12/2011 18:31 63.1	15/12/2011 13:31 68.1	21/12/2011 8:31 67.0	28/11/2011 20:11 63.5
29/11/2011 17:31 66.7	5/12/2011 12:01 64.4	10/12/2011 7:01 62.9	15/12/2011 14:01 66.7	21/12/2011 9:01 67.3	28/11/2011 20:16 62.5
29/11/2011 18:01 65.6	5/12/2011 12:31 65.5	10/12/2011 7:31 64.5	15/12/2011 14:31 67.4	21/12/2011 9:31 68.9	28/11/2011 20:21 62.3
29/11/2011 18:31 64.4	5/12/2011 13:01 66.2	10/12/2011 8:01 67.6	15/12/2011 15:01 67.4	21/12/2011 10:01 67.2	28/11/2011 20:26 62.3
30/11/2011 7:01 63.4	5/12/2011 13:31 67.2	10/12/2011 8:31 68.2	15/12/2011 15:31 67.8	21/12/2011 10:31 67.9	28/11/2011 20:31 62.6
30/11/2011 7:31 64.3	5/12/2011 14:01 67.0	10/12/2011 9:01 67.2	15/12/2011 16:01 67.5	21/12/2011 11:01 67.1	28/11/2011 20:36 62.7
30/11/2011 8:01 66.3	5/12/2011 14:31 68.4	10/12/2011 9:31 66.4	15/12/2011 16:31 66.9	21/12/2011 11:31 66.1	28/11/2011 20:41 62.4
30/11/2011 8:31 67.4	5/12/2011 15:01 66.7	10/12/2011 10:01 68.6	15/12/2011 17:01 67.6	21/12/2011 12:01 65.0	28/11/2011 20:46 62.0
30/11/2011 9:01 66.6	5/12/2011 15:31 67.0	10/12/2011 10:31 68.4	15/12/2011 17:31 68.1	21/12/2011 12:31 65.6	28/11/2011 20:51 62.4
30/11/2011 9:31 67.5	5/12/2011 16:01 66.6	10/12/2011 11:01 66.5	15/12/2011 18:01 68.2	21/12/2011 13:01 66.8	28/11/2011 20:56 61.9
30/11/2011 10:01 67.8	5/12/2011 16:31 65.9	10/12/2011 11:31 65.1	15/12/2011 18:31 67.2	21/12/2011 13:31 67.7	28/11/2011 21:01 61.6
30/11/2011 10:31 67.9	5/12/2011 17:01 66.4	10/12/2011 12:01 64.4	16/12/2011 7:01 62.8	21/12/2011 14:01 68.9	28/11/2011 21:06 61.6
30/11/2011 11:01 68.1	5/12/2011 17:31 66.1	10/12/2011 12:31 64.4	16/12/2011 7:31 63.8	21/12/2011 14:31 68.6	28/11/2011 21:11 61.6
30/11/2011 11:31 67.0	5/12/2011 18:01 67.2	10/12/2011 13:01 65.7	16/12/2011 8:01 67.3	21/12/2011 15:01 68.8	28/11/2011 21:16 61.6
30/11/2011 12:01 65.9	5/12/2011 18:31 67.7	10/12/2011 13:31 65.0	16/12/2011 8:31 67.2	21/12/2011 15:31 67.7	28/11/2011 21:21 61.7
30/11/2011 12:31 66.1	6/12/2011 7:01 64.7	10/12/2011 14:01 66.4	16/12/2011 9:01 67.3	21/12/2011 16:01 68.8	28/11/2011 21:26 62.5
30/11/2011 13:01 67.1	6/12/2011 7:31 64.8	10/12/2011 14:31 66.7	16/12/2011 9:31 68.1	21/12/2011 16:31 68.0	28/11/2011 21:31 61.8
30/11/2011 13:31 67.3	6/12/2011 8:01 66.8	10/12/2011 15:01 65.6	16/12/2011 10:01 67.0	21/12/2011 17:01 68.7	28/11/2011 21:36 61.6
30/11/2011 14:01 67.3	6/12/2011 8:31 67.6	10/12/2011 15:31 66.1	16/12/2011 10:31 67.1	21/12/2011 17:31 66.8	28/11/2011 21:41 62.2
30/11/2011 14:31 67.5	6/12/2011 9:01 66.6	10/12/2011 16:01 66.6	16/12/2011 11:01 66.9	21/12/2011 18:01 66.7	28/11/2011 21:46 61.7
30/11/2011 15:01 67.0	6/12/2011 9:31 67.1	10/12/2011 16:31 66.4	16/12/2011 11:31 65.0	21/12/2011 18:31 66.0	28/11/2011 21:51 62.3
30/11/2011 15:31 67.3	6/12/2011 10:01 67.9	10/12/2011 17:01 67.2	16/12/2011 12:01 63.7	22/12/2011 7:01 63.4	28/11/2011 21:56 61.6
30/11/2011 16:01 66.6	6/12/2011 10:31 66.9	10/12/2011 17:31 65.2	16/12/2011 12:31 65.4	22/12/2011 7:31 65.1	28/11/2011 22:01 62.2
30/11/2011 16:31 67.4	6/12/2011 11:01 68.3	10/12/2011 18:01 65.9	16/12/2011 13:01 66.4	22/12/2011 8:01 67.2	28/11/2011 22:06 61.1
30/11/2011 17:01 67.5	6/12/2011 11:31 66.4	10/12/2011 18:31 63.7	16/12/2011 13:31 67.3	22/12/2011 8:31 67.8	28/11/2011 22:11 61.7
30/11/2011 17:31 67.0	6/12/2011 12:01 65.5	12/12/2011 7:01 63.1	16/12/2011 14:01 71.3	22/12/2011 9:01 67.3	28/11/2011 22:16 61.2
30/11/2011 18:01 66.9	6/12/2011 12:31 64.4	12/12/2011 7:31 63.5	16/12/2011 14:31 70.8	22/12/2011 9:31 67.9	28/11/2011 22:21 62.2
30/11/2011 18:31 66.3	6/12/2011 13:01 66.8	12/12/2011 8:01 65.3	16/12/2011 15:01 72.0	22/12/2011 10:01 67.6	28/11/2011 22:26 61.5
1/12/2011 7:01 66.0	6/12/2011 13:31 66.4	12/12/2011 8:31 66.4	16/12/2011 15:31 69.7	22/12/2011 10:31 68.3	28/11/2011 22:31 61.6
1/12/2011 7:31 68.9	6/12/2011 14:01 66.8	12/12/2011 9:01 66.9	16/12/2011 16:01 71.0	22/12/2011 11:01 68.2	28/11/2011 22:36 62.1
1/12/2011 8:01 68.8	6/12/2011 14:31 67.1	12/12/2011 9:31 67.8	16/12/2011 16:31 69.4	22/12/2011 11:31 66.4	28/11/2011 22:41 61.3
1/12/2011 8:31 63.3	6/12/2011 15:01 66.6	12/12/2011 10:01 68.6	16/12/2011 17:01 70.6	22/12/2011 12:01 65.1	28/11/2011 22:46 61.3
1/12/2011 9:01 69.0	6/12/2011 15:31 66.2	12/12/2011 10:31 68.1	16/12/2011 17:31 67.2	22/12/2011 12:31 65.7	28/11/2011 22:51 60.9
1/12/2011 9:31 68.8	6/12/2011 16:01 65.6	12/12/2011 11:01 68.8	16/12/2011 18:01 65.6	22/12/2011 13:01 67.6	28/1

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

29/11/2011 21:41 62.3	1/12/2011 22:51 61.3	4/12/2011 8:01 62.0	4/12/2011 17:11 65.1	5/12/2011 22:21 62.7	8/12/2011 19:31 61.7
29/11/2011 21:46 62.7	1/12/2011 22:56 62.0	4/12/2011 8:06 61.9	4/12/2011 17:16 66.1	5/12/2011 22:26 62.0	8/12/2011 19:36 62.5
29/11/2011 21:51 62.0	2/12/2011 19:01 61.1	4/12/2011 8:11 63.0	4/12/2011 17:21 65.5	5/12/2011 22:31 61.7	8/12/2011 19:41 63.8
29/11/2011 21:56 62.5	2/12/2011 19:06 60.3	4/12/2011 8:16 63.0	4/12/2011 17:26 64.0	5/12/2011 22:36 61.5	8/12/2011 19:46 62.7
29/11/2011 22:01 62.1	2/12/2011 19:11 61.1	4/12/2011 8:21 65.2	4/12/2011 17:31 62.9	5/12/2011 22:41 61.4	8/12/2011 19:51 62.5
29/11/2011 22:06 61.9	2/12/2011 19:16 60.1	4/12/2011 8:26 63.3	4/12/2011 17:36 63.6	5/12/2011 22:46 61.7	8/12/2011 19:56 62.8
29/11/2011 22:11 61.9	2/12/2011 19:21 60.1	4/12/2011 8:31 61.5	4/12/2011 17:41 65.0	5/12/2011 22:51 63.1	8/12/2011 20:01 62.6
29/11/2011 22:16 62.2	2/12/2011 19:26 61.0	4/12/2011 8:36 64.4	4/12/2011 17:46 64.2	5/12/2011 22:56 60.8	8/12/2011 20:06 63.0
29/11/2011 22:21 61.9	2/12/2011 19:31 60.6	4/12/2011 8:41 64.8	4/12/2011 17:51 62.7	6/12/2011 19:01 68.0	8/12/2011 20:11 62.5
29/11/2011 22:26 62.6	2/12/2011 19:36 62.6	4/12/2011 8:46 67.3	4/12/2011 17:56 63.5	6/12/2011 19:06 66.9	8/12/2011 20:16 63.3
29/11/2011 22:31 62.2	2/12/2011 19:41 60.1	4/12/2011 8:51 65.8	4/12/2011 18:01 63.1	6/12/2011 19:11 67.8	8/12/2011 20:21 62.6
29/11/2011 22:36 62.2	2/12/2011 19:46 60.2	4/12/2011 8:56 65.0	4/12/2011 18:06 62.5	6/12/2011 19:16 67.7	8/12/2011 20:26 63.8
29/11/2011 22:41 61.8	2/12/2011 19:51 60.8	4/12/2011 9:01 65.9	4/12/2011 18:11 62.3	6/12/2011 19:21 67.1	8/12/2011 20:31 63.0
29/11/2011 22:46 61.9	2/12/2011 19:56 60.3	4/12/2011 9:06 63.4	4/12/2011 18:16 62.8	6/12/2011 19:26 68.7	8/12/2011 20:36 62.8
29/11/2011 22:51 61.9	2/12/2011 20:01 61.0	4/12/2011 9:11 63.5	4/12/2011 18:21 62.4	6/12/2011 19:31 68.1	8/12/2011 20:41 62.6
29/11/2011 22:56 61.9	2/12/2011 20:06 62.8	4/12/2011 9:16 67.1	4/12/2011 18:26 62.1	6/12/2011 19:36 68.0	8/12/2011 20:46 62.3
30/11/2011 19:01 65.8	2/12/2011 20:11 63.1	4/12/2011 9:21 65.1	4/12/2011 18:31 62.6	6/12/2011 19:41 68.0	8/12/2011 20:51 62.3
30/11/2011 19:06 65.2	2/12/2011 20:16 63.0	4/12/2011 9:26 65.5	4/12/2011 18:36 62.5	6/12/2011 19:46 67.9	8/12/2011 20:56 61.9
30/11/2011 19:11 65.5	2/12/2011 20:21 62.9	4/12/2011 9:31 65.2	4/12/2011 18:41 61.6	6/12/2011 19:51 68.3	8/12/2011 21:01 62.3
30/11/2011 19:16 65.2	2/12/2011 20:26 62.6	4/12/2011 9:36 65.2	4/12/2011 18:46 61.9	6/12/2011 19:56 67.7	8/12/2011 21:06 62.3
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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11/12/2011 11:06 63.2	11/12/2011				

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

18/12/2011 19:41 62.9	20/12/2011 20:51 67.8	22/12/2011 22:01 62.1	25/12/2011 7:11 61.7	25/12/2011 16:21 62.5	26/12/2011 9:31 61.9
18/12/2011 19:46 63.4	20/12/2011 20:56 67.5	22/12/2011 22:06 62.2	25/12/2011 7:16 59.9	25/12/2011 16:26 63.7	26/12/2011 9:36 63.4
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18/12/2011 19:56 62.5	20/12/2011 21:06 67.7	22/12/2011 22:16 62.1	25/12/2011 7:26 61.4	25/12/2011 16:36 64.6	26/12/2011 9:46 62.4
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19/12/2011 19:06 67.6	21/12/2011 20:16 64.3	23/12/2011 21:26 63.0	25/12/2011 10:36 63.3	25/12/2011 19:46 61.6	26/12/2011 12:56 63.2
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19/12/2011 21:36 62.0	21/12/2011 22:46 62.0	24/12/2011 19:56 62.7	25/12/2011 13:06 63.4	25/12/2011 22:16 60.2	26/12/2011 15:26 62.9
19/12/2011 21:41 61.9	21/12/2011 22:51 62.3	24/12/2011 20:01 62.0	25/12/2011 13:11 64.8	25/12/2011 22:21 59.9	26/12/2011 15:31 62.9
19/12/2011 21:46 62.2	21/12/2011 22:56 61.8	24/12/2011 20:06 62.4	25/12/2011 13:16 63.7	25/12/2011 22:26 60.4	26/12/2011 15:36 62.8
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19/12/2011 21:56 62.3	22/12/2011 19:06 64.8	24/12/2011 20:16 62.0	25/12/2011 13:26 63.0	25/12/2011 22:36 62.3	26/12/2011 15:46 62.9
19/12/2011 22:01 61.4	22/12/2011 19:11 64.9	24/12/2011 20:21 62.0	25/12/2011 13:31 63.6	25/12/2011 22:41 60.6	26/12/2011 15:51 63.4
19/12/2011 22:06 61.9	22/12/				

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

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26/12/2011 18:46 66.1	27/12/2011 11:56 61.8	27/12/2011 21:06 61.0	28/11/2011 6:01 59.3	29/11/2011 23:11 62.8	1/12/2011 0:21 60.3
26/12/2011 18:51 64.6	27/12/2011 12:01 61.5	27/12/2011 21:11 62.2	28/11/2011 6:06 60.0	29/11/2011 23:16 62.6	1/12/2011 0:26 60.4
26/12/2011 18:56 64.7	27/12/2011 12:06 62.1	27/12/2011 21:16 61.1	28/11/2011 6:11 60.1	29/11/2011 23:21 61.6	1/12/2011 0:31 59.8
26/12/2011 19:01 64.6	27/12/2011 12:11 62.3	27/12/2011 21:21 61.3	28/11/2011 6:16 60.1	29/11/2011 23:26 61.2	1/12/2011 0:36 59.6
26/12/2011 19:06 62.8	27/12/2011 12:16 62.1	27/12/2011 21:26 61.3	28/11/2011 6:21 60.7	29/11/2011 23:31 61.1	1/12/2011 0:41 59.2
26/12/2011 19:11 63.2	27/12/2011 12:21 61.4	27/12/2011 21:31 61.1	28/11/2011 6:26 61.5	29/11/2011 23:36 61.5	1/12/2011 0:46 59.3
26/12/2011 19:16 63.4	27/12/2011 12:26 61.7	27/12/2011 21:36 61.1	28/11/2011 6:31 61.6	29/11/2011 23:41 60.8	1/12/2011 0:51 59.2
26/12/2011 19:21 62.0	27/12/2011 12:31 62.8	27/12/2011 21:41 62.2	28/11/2011 6:36 62.2	29/11/2011 23:46 61.2	1/12/2011 0:56 59.2
26/12/2011 19:26 62.1	27/12/2011 12:36 64.6	27/12/2011 21:46 61.0	28/11/2011 6:41 62.4	29/11/2011 23:51 61.2	1/12/2011 1:01 58.6
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26/12/2011 19:46 61.3	27/12/2011 12:56 63.1	27/12/2011 22:06 62.1	28/11/2011 23:01 61.0	30/11/2011 0:11 59.9	1/12/2011 1:21 58.7
26/12/2011 19:51 61.4	27/12/2011 13:01 62.5	27/12/2011 22:11 62.0	28/11/2011 23:06 63.1	30/11/2011 0:16 59.9	1/12/2011 1:26 58.2
26/12/2011 19:56 61.2	27/12/2011 13:06 62.9	27/12/2011 22:16 61.6	28/11/2011 23:11 64.7	30/11/2011 0:21 59.8	1/12/2011 1:31 57.9
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26/12/2011 21:06 59.7	27/12/2011 14:16 65.1	27/12/2011 22:21 63.5	29/11/2011 0:21 59.8	30/11/2011 1:31 57.7	1/12/2011 2:41 57.2
26/12/2011 21:11 59.7	27/12/2011 14:21 67.0	27/12/2011 22:26 61.7	29/11/2011 0:26 60.4	30/11/2011 1:36 58.3	1/12/2011 2:46 57.0
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26/12/2011 21:51 61.2	27/12/2011 15:01 64.2	Night-time 23:00-07:00	29/11/2011 1:06 58.1	30/11/2011 2:16 57.1	1/12/2011 3:26 57.1
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26/12/2011 22:36 61.2	27/12/2011 15:46 64.0	28/11/2011 0:41 59.2	29/11/2011 1:51 57.5	30/11/2011 3:01 56.4	1/12/2011 4:11 56.1
26/12/2011 22:41 61.0	27/12/2011 15:51 62.9	28/11/2011 0:46 59.4	29/11/2011 1:56 57.2	30/11/2011 3:06 56.8	1/12/2011 4:16 56.8
26/12/2011 22:46 61.2	27/12/2011 15:56 63.3	28/11/2011 0:51 59.3	29/11/2011 2:01 57.6	30/11/2011 3:11 58.8	1/12/2011 4:21 56.4
26/12/2011 22:51 60.4	27/12/2011 16:01 63.1	28/11/2011 0:56 59.5	29/11/2011 2:06 57.1	30/11/2011 3:16 57.3	1/12/2011 4:26 56.0
26/12/2011 22:56 60.3	27/12/2011 16:06 65.0	28/11/2011 1:01 58.7	29/11/2011 2:11 57.6	30/11/2011 3:21 56.2	1/12/2011 4:31 56.3
27/12/2011 7:01 60.2	27/12/2011 16:11 64.9	28/11/2011 1:06 58.8	29/11/2011 2:16 57.5	30/11/2011 3:26 56.1	1/12/2011 4:36 56.1
27/12/2011 7:06 62.3	27/12/2011 16:16 64.6	28/11/2011 1:11 58.9	29/11/2011 2:21 57.3	30/11/2011 3:31 56.1	1/12/2011 4:41 58.0
27/12/2011 7:11 61.9	27/12/2011 16:21 63.8	28/11/2011 1:16 59.0	29/11/2011 2:26 56.5	30/11/2011 3:36 56.2	1/12/2011 4:46 56.1
27/12/2011 7:16 60.3	27/12/2011 16:26 63.5	28/11/2011 1:21 59.4	29/11/2011 2:31 56.4	30/11/2011 3:41 56.4	1/12/2011 4:51 56.9
27/12/2011 7:21 60.3	27/12/2011 16:31 62.9	28/11/2011 1:26 58.5	29/11/2011 2:36 55.9	30/11/2011 3:46 56.5	1/12/2011 4:56 56.9
27/12/2011 7:26 60.9	27/12/2011 16:36 62.4	28/11/2011 1:31 58.2	29/11/2011 2:41 57.3	30/11/2011 3:51 55.9	1/12/2011 5:01 57.1
27/12/2011 7:31 60.7	27/12/2011 16:41 62.9	28/11/2011 1:36 59.3	29/11/2011 2:46 56.5	30/11/2011 3:56 55.6	1/12/2011 5:06 57.3
27/12/2011 7:36 60.6	27/12/2011 16:46 64.7	28/11/2011 1:41 59.3	29/11/2011 2:51 57.0	30/11/2011 4:01 55.8	1/12/2011 5:11 58.2
27/12/2011 7:41 62.7	27/12/2011 16:51 66.3	28/11/2011 1:46 58.2	29/11/2011 2:56 57.1	30/11/2011 4:06 56.2	1/12/2011 5:16 57.4
27/12/2011 7:46 62.3	27/12/2011 16:56 66.4	28/11/2011 1:51 58.0	29/11/2011 3:01 56.0	30/11/2011 4:11 55.5	1/12/2011 5:21 57.2
27/12/2011 7:51 62.9	27/12/2011 17:01 68.3	28/11/2011 1:56 57.5	29/11/2011 3:06 55.6	30/11/2011 4:16 56.2	1/12/2011 5:26 59.2
27/12/2011 7:56 61.2	27/12/2011 17:06 63.9	28/11/2011 2:01 57.9	29/11/2011 3:11 55.8	30/11/2011 4:21 55.7	1/12/2011 5:31 60.9
27/12/2011 8:01 64.4	27/12/2011 17:11 64.3	28/11/2011 2:06 57.5	29/11/2011 3:16 56.4	30/11/2011 4:26 55.7	1/12/2011 5:36 59.2
27/12/2011 8:06 63.5	27/12/2011 17:16 64.4	28/11/2011 2:11 58.2	29/11/2011 3:21 56.6	30/11/2011 4:31 55.9	1/12/2011 5:41 60.7
27/12/2011 8:11 63.2	27/12/2011 17:21 65.9	28/11/2011 2:16 57.5	29/11/2011 3:26 56.0	30/11/2011 4:36 55.6	1/12/2011 5:46 60.1
27/12/2011 8:16 63.9	27/12/2011 17:26 65.7	28/11/2011 2:21 56.7	29/11/2011 3:31 55.5	30/11/2011 4:41 57.2	1/12/2011 5:51 60.0
27/12/2011 8:21 63.0	27/12/2011 17:31 64.8	28/11/2011 2:26 57.1	29/11/2011 3:36 55.8	30/11/2011 4:46 56.1	1/12/2011 5:56 59.0
27/12/2011 8:26 64.5	27/12/2011 17:36 64.1	28/11/2011 2:31 57.1	29/11/2011 3:41 56.5	30/11/2011 4:51 56.3	1/12/2011 6:01 59.3
27/12/2011 8:31 62.0	27/12/2011 17:41 62.6	28/11/2011 2:36 57.4	29/11/2011 3:46 59.3	30/11/2011 4:56 56.6	1/12/2011 6:06 59.8
27/12/2011 8:36 62.8	27/12/2011 17:46 62.5	28/11/2011 2:41 57.6	29/11/2011 3:51 54.8	30/11/2011 5:01 56.4	1/12/2011 6:11 59.8
27/12/2011 8:41 63.1	27/12/2011 17:51 62.4	28/11/2011 2:46 56.9	29/11/2011 3:56 56.5	30/11/2011 5:06 57.4	1/12/2011 6:16 60.0
27/12/2011 8:46 63.6	27/12/2011 17:56 62.9	28/11/2011 2:51 57.2	29/11/2011 4:01 55.7	30/11/2011 5:11 57.9	1/12/2011 6:21 61.0
27/12/2011 8:51 63.8	27/12/2011 18:01 62.8	28/11/2011 2:56 57.6	29/11/2011 4:06 56.0	30/11/2011 5:16 57.4	1/12/2011 6:26 61.8
27/12/2011 8:56 63.1	27/12/2011 18:06 65.5	28/11/2011 3:01 56.9	29/11/2011 4:11 55.0	30/11/2011 5:21 57.6	1/12/2011 6:31 61.9
27/12/2011 9:01 63.3	27/12/2011 18:11 61.8	28/11/2011 3:06 57.0	29/11/2011 4:16 55.6	30/11/2011 5:26 58.6	1/12/2011 6:36 63.6
27/12/2011 9:06 63.2	27/12/2011 18:16 62.8	28/11/2011 3:11 60.3	29/11/2011 4:21 56.3	30/11/2011 5:31 60.3	1/12/2011 6:41 62.4
27/12/2011 9:11 63.3	27/12/2011 18:21 63.6	28/11/2011 3:16 57.2	29/11/2011 4:26 55.0	30/11/2011 5:36 60.7	1

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

2/12/2011 1:26	57.6	3/12/2011 2:36	57.9	4/12/2011 3:46	57.6	5/12/2011 4:56	54.4	6/12/2011 6:06	60.1	7/12/2011 23:16	63.7
2/12/2011 1:31	58.3	3/12/2011 2:41	58.2	4/12/2011 3:51	58.7	5/12/2011 5:01	55.2	6/12/2011 6:11	60.3	7/12/2011 23:21	61.8
2/12/2011 1:36	59.0	3/12/2011 2:46	57.7	4/12/2011 3:56	57.9	5/12/2011 5:06	56.0	6/12/2011 6:16	60.6	7/12/2011 23:26	61.6
2/12/2011 1:41	61.8	3/12/2011 2:51	57.5	4/12/2011 4:01	57.1	5/12/2011 5:11	57.4	6/12/2011 6:21	61.1	7/12/2011 23:31	61.2
2/12/2011 1:46	58.1	3/12/2011 2:56	58.5	4/12/2011 4:06	59.3	5/12/2011 5:16	57.1	6/12/2011 6:26	63.2	7/12/2011 23:36	61.4
2/12/2011 1:51	57.9	3/12/2011 3:01	57.5	4/12/2011 4:11	57.9	5/12/2011 5:21	56.8	6/12/2011 6:31	62.0	7/12/2011 23:41	61.0
2/12/2011 1:56	57.2	3/12/2011 3:06	57.6	4/12/2011 4:16	58.4	5/12/2011 5:26	56.3	6/12/2011 6:36	62.6	7/12/2011 23:46	61.3
2/12/2011 2:01	56.9	3/12/2011 3:11	62.3	4/12/2011 4:21	58.1	5/12/2011 5:31	57.8	6/12/2011 6:41	62.5	7/12/2011 23:51	60.6
2/12/2011 2:06	57.2	3/12/2011 3:16	57.3	4/12/2011 4:26	57.3	5/12/2011 5:36	60.6	6/12/2011 6:46	63.5	7/12/2011 23:56	61.2
2/12/2011 2:11	59.2	3/12/2011 3:21	57.9	4/12/2011 4:31	57.3	5/12/2011 5:41	58.2	6/12/2011 6:51	65.1	8/12/2011 0:01	60.6
2/12/2011 2:16	57.7	3/12/2011 3:26	57.5	4/12/2011 4:36	58.3	5/12/2011 5:46	62.1	6/12/2011 6:56	64.8	8/12/2011 0:06	62.0
2/12/2011 2:21	56.6	3/12/2011 3:31	57.5	4/12/2011 4:41	57.7	5/12/2011 5:51	58.2	6/12/2011 23:01	62.7	8/12/2011 0:11	61.1
2/12/2011 2:26	57.7	3/12/2011 3:36	58.0	4/12/2011 4:46	58.7	5/12/2011 5:56	60.1	6/12/2011 23:06	62.5	8/12/2011 0:16	60.9
2/12/2011 2:31	56.3	3/12/2011 3:41	57.7	4/12/2011 4:51	58.3	5/12/2011 6:01	58.6	6/12/2011 23:11	62.8	8/12/2011 0:21	60.3
2/12/2011 2:36	57.2	3/12/2011 3:46	57.0	4/12/2011 4:56	58.5	5/12/2011 6:06	59.2	6/12/2011 23:16	61.2	8/12/2011 0:26	60.7
2/12/2011 2:41	56.9	3/12/2011 3:51	57.0	4/12/2011 5:01	57.8	5/12/2011 6:11	59.2	6/12/2011 23:21	61.0	8/12/2011 0:31	59.7
2/12/2011 2:46	55.5	3/12/2011 3:56	56.8	4/12/2011 5:06	58.2	5/12/2011 6:16	59.8	6/12/2011 23:26	61.5	8/12/2011 0:36	59.6
2/12/2011 2:51	56.7	3/12/2011 4:01	58.5	4/12/2011 5:11	57.5	5/12/2011 6:21	60.8	6/12/2011 23:31	60.7	8/12/2011 0:41	59.6
2/12/2011 2:56	56.8	3/12/2011 4:06	58.2	4/12/2011 5:16	57.5	5/12/2011 6:26	61.1	6/12/2011 23:36	60.9	8/12/2011 0:46	59.6
2/12/2011 3:01	55.5	3/12/2011 4:11	57.3	4/12/2011 5:21	57.1	5/12/2011 6:31	61.1	6/12/2011 23:41	60.5	8/12/2011 0:51	58.8
2/12/2011 3:06	56.1	3/12/2011 4:16	57.0	4/12/2011 5:26	58.0	5/12/2011 6:36	62.4	6/12/2011 23:46	60.9	8/12/2011 0:56	59.1
2/12/2011 3:11	55.9	3/12/2011 4:21	57.5	4/12/2011 5:31	57.6	5/12/2011 6:41	61.2	6/12/2011 23:51	61.7	8/12/2011 1:01	58.6
2/12/2011 3:16	56.5	3/12/2011 4:26	57.1	4/12/2011 5:36	63.4	5/12/2011 6:46	62.3	6/12/2011 23:56	60.8	8/12/2011 1:06	59.4
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2/12/2011 3:26	55.2	3/12/2011 4:36	57.6	4/12/2011 5:46	59.8	5/12/2011 6:56	63.1	7/12/2011 0:06	60.2	8/12/2011 1:16	58.8
2/12/2011 3:31	55.6	3/12/2011 4:41	57.3	4/12/2011 5:51	58.5	5/12/2011 23:01	61.1	7/12/2011 0:11	59.9	8/12/2011 1:21	58.5
2/12/2011 3:36	55.5	3/12/2011 4:46	58.5	4/12/2011 5:56	60.6	5/12/2011 23:06	61.4	7/12/2011 0:16	60.4	8/12/2011 1:26	58.8
2/12/2011 3:41	57.4	3/12/2011 4:51	57.4	4/12/2011 6:01	59.2	5/12/2011 23:11	64.5	7/12/2011 0:21	60.9	8/12/2011 1:31	57.7
2/12/2011 3:46	56.6	3/12/2011 4:56	57.7	4/12/2011 6:06	58.4	5/12/2011 23:16	63.1	7/12/2011 0:26	60.8	8/12/2011 1:36	57.9
2/12/2011 3:51	56.5	3/12/2011 5:01	57.5	4/12/2011 6:11	58.6	5/12/2011 23:21	60.8	7/12/2011 0:31	60.2	8/12/2011 1:41	57.8
2/12/2011 3:56	56.6	3/12/2011 5:06	59.7	4/12/2011 6:16	59.3	5/12/2011 23:26	61.0	7/12/2011 0:36	60.4	8/12/2011 1:46	58.5
2/12/2011 4:01	55.4	3/12/2011 5:11	57.4	4/12/2011 6:21	59.6	5/12/2011 23:31	61.2	7/12/2011 0:41	59.1	8/12/2011 1:51	58.2
2/12/2011 4:06	56.1	3/12/2011 5:16	57.4	4/12/2011 6:26	60.0	5/12/2011 23:36	61.2	7/12/2011 0:46	59.3	8/12/2011 1:56	57.4
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2/12/2011 5:56	61.1	3/12/2011 23:06	61.7	5/12/2011 0:16	58.6	6/12/2011 1:26	57.4	7/12/2011 2:36	56.9	8/12/2011 3:46	56.6
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2/12/2011 23:16	61.5	4/12/2011 0:26	60.1	5/12/2011 1:36	55.8	6/12/2011 2:46	58.2	7/12/2011 3:56	57.5	8/12/2011 5:06	58.1
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

9/12/2011 0:26	61.1	10/12/2011 1:36	60.0	11/12/2011 2:46	58.9	12/12/2011 3:56	56.0	13/12/2011 5:06	57.5	14/12/2011 6:16	59.5
9/12/2011 0:31	64.7	10/12/2011 1:41	59.6	11/12/2011 2:51	58.2	12/12/2011 4:01	55.3	13/12/2011 5:11	57.2	14/12/2011 6:21	60.2
9/12/2011 0:36	59.9	10/12/2011 1:46	59.5	11/12/2011 2:56	59.3	12/12/2011 4:06	55.8	13/12/2011 5:16	57.2	14/12/2011 6:26	60.9
9/12/2011 0:41	62.2	10/12/2011 1:51	60.0	11/12/2011 3:01	58.1	12/12/2011 4:11	53.8	13/12/2011 5:21	57.9	14/12/2011 6:31	61.6
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9/12/2011 1:26	59.7	10/12/2011 2:36	59.1	11/12/2011 3:46	58.2	12/12/2011 4:56	55.0	13/12/2011 6:06	60.4	14/12/2011 7:16	61.5
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9/12/2011 6:06	59.5	10/12/2011 7:16	64.0	12/12/2011 0:26	60.7	13/12/2011 1:36	57.7	14/12/2011 2:46	56.9	15/12/2011 3:56	56.4
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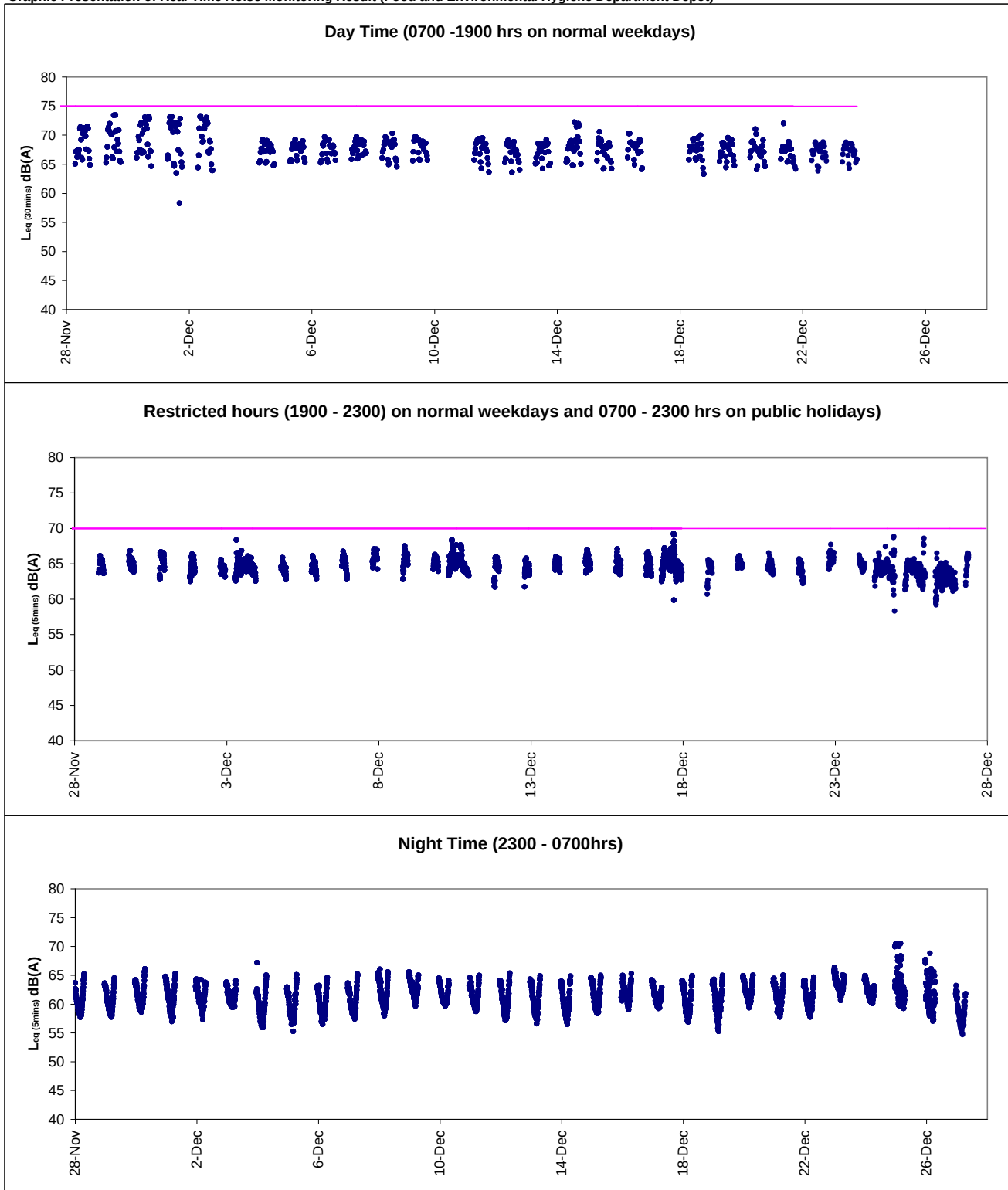
Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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

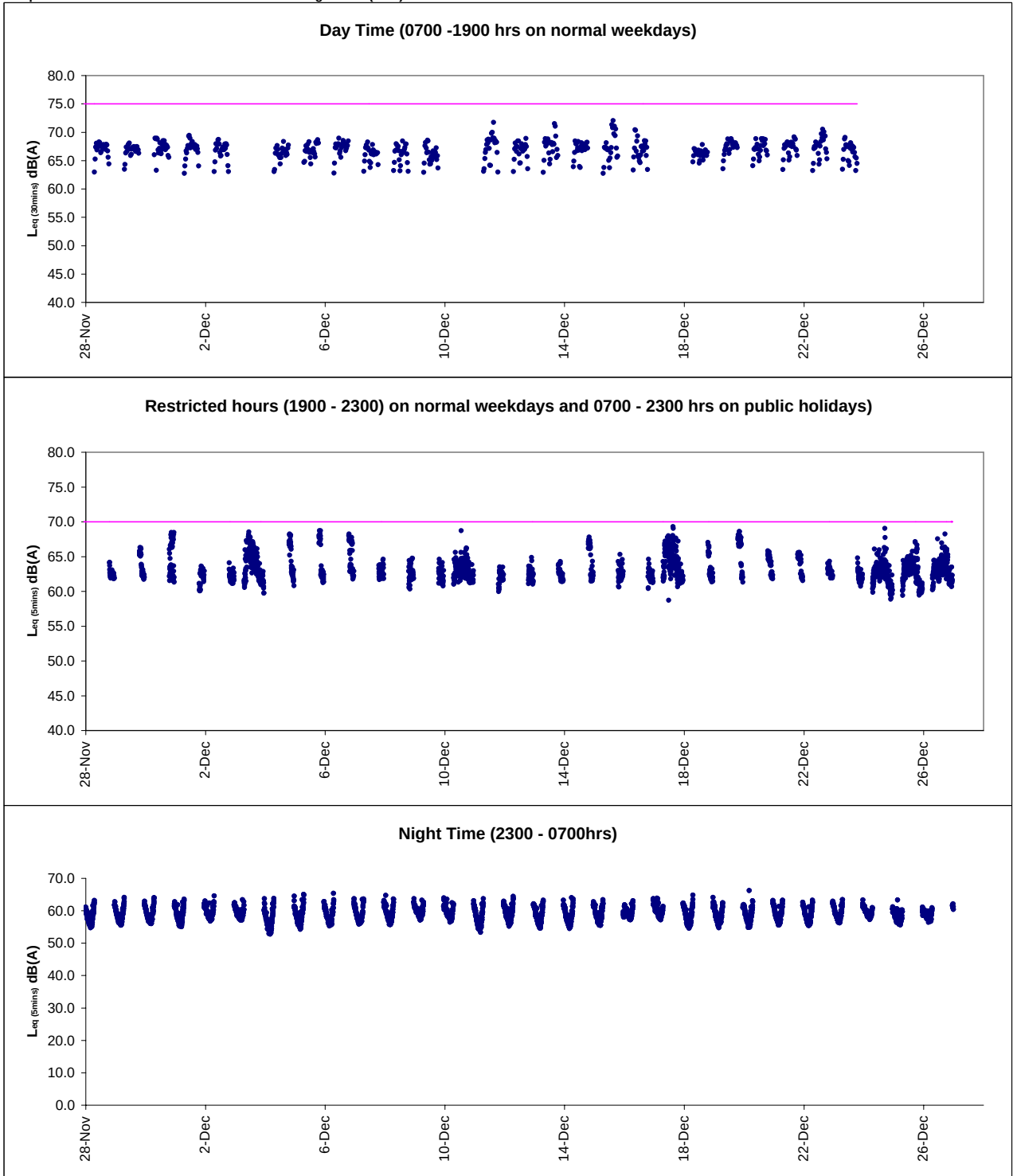
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23/12/2011 0:16	60.8	24/12/2011 1:26	58.8	25/12/2011 2:36	58.7	26/12/2011 3:46	56.5	27/12/2011 4:56	57.1
23/12/2011 0:21	60.3	24/12/2011 1:31	58.7	25/12/2011 2:41	58.6	26/12/2011 3:51	56.7	27/12/2011 5:01	57.8
23/12/2011 0:26	60.9	24/12/2011 1:36	58.6	25/12/2011 2:46	58.9	26/12/2011 3:56	56.5	27/12/2011 5:06	56.9
23/12/2011 0:31	60.7	24/12/2011 1:41	59.0	25/12/2011 2:51	58.2	26/12/2011 4:01	56.3	27/12/2011 5:11	57.4
23/12/2011 0:36	60.2	24/12/2011 1:46	58.8	25/12/2011 2:56	58.6	26/12/2011 4:06	56.5	27/12/2011 5:16	57.2
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23/12/2011 0:46	58.9	24/12/2011 1:56	58.0	25/12/2011 3:06	58.9	26/12/2011 4:16	56.0	27/12/2011 5:26	57.1
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23/12/2011 2:01	57.6	24/12/2011 3:11	57.3	25/12/2011 4:21	58.0	26/12/2011 5:31	56.3	27/12/2011 6:41	60.0
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23/12/2011 2:41	57.2	24/12/2011 3:51	56.9	25/12/2011 5:01	57.6	26/12/2011 6:11	57.7	27/12/2011 23:21	61.3
23/12/2011 2:46	57.1	24/12/2011 3:56	57.6	25/12/2011 5:06	58.2	26/12/2011 6:16	57.4	27/12/2011 23:26	60.8
23/12/2011 2:51	56.7	24/12/2011 4:01	58.3	25/12/2011 5:11	58.7	26/12/2011 6:21	57.7	27/12/2011 23:31	60.8
23/12/2011 2:56	56.0	24/12/2011 4:06	56.3	25/12/2011 5:16	59.0	26/12/2011 6:26	57.8	27/12/2011 23:36	61.2
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23/12/2011 3:31	56.1	24/12/2011 4:41	57.4	25/12/2011 5:51	58.7	26/12/2011 23:01	61.1		
23/12/2011 3:36	55.4	24/12/2011 4:46	56.3	25/12/2011 5:56	58.3	26/12/2011 23:06	59.6		
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23/12/2011 3:46	56.5	24/12/2011 4:56	56.4	25/12/2011 6:06	58.5	26/12/2011 23:16	59.5		
23/12/2011 3:51	56.2	24/12/2011 5:01	57.0	25/12/2011 6:11	58.9	26/12/2011 23:21	58.5		
23/12/2011 3:56	56.3	24/12/2011 5:06	57.2	25/12/2011 6:16	60.0	26/12/2011 23:26	59.0		
23/12/2011 4:01	61.2	24/12/2011 5:11	57.6	25/12/2011 6:21	59.0	26/12/2011 23:31	59.1		
23/12/2011 4:06	55.5	24/12/2011 5:16	58.0	25/12/2011 6:26	60.1	26/12/2011 23:36	59.9		
23/12/2011 4:11	55.4	24/12/2011 5:21	57.7	25/12/2011 6:31	59.3	26/12/2011 23:41	58.9		
23/12/2011 4:16	55.7	24/12/2011 5:26	58.6	25/12/2011 6:36	60.2	26/12/2011 23:46	58.9		
23/12/2011 4:21	55.5	24/12/2011 5:31	59.1	25/12/2011 6:41	60.2	26/12/2011 23:51	59.3		
23/12/2011 4:26	55.8	24/12/2011 5:36	60.0	25/12/2011 6:46	60.7	26/12/2011 23:56	59.4		
23/12/2011 4:31	56.1	24/12/2011 5:41	61.6	25/12/2011 6:51	61.0	27/12/2011 0:01	59.3		
23/12/2011 4:36	56.7	24/12/2011 5:46	59.2	25/12/2011 6:56	60.8	27/12/2011 0:06	60.3		
23/12/2011 4:41	55.7	24/12/2011 5:51	59.1	25/12/2011 23:01	60.5	27/12/2011 0:11	60.4		
23/12/2011 4:46	56.2	24/12/2011 5:56	58.4	25/12/2011 23:06	59.4	27/12/2011 0:16	59.8		
23/12/2011 4:51	56.4	24/12/2011 6:01	59.5	25/12/2011 23:11	61.2	27/12/2011 0:21	60.0		
23/12/2011 4:56	56.3	24/12/2011 6:06	59.7	25/12/2011 23:16	60.4	27/12/2011 0:26	60.1		
23/12/2011 5:01	55.9	24/12/2011 6:11	59.4	25/12/2011 23:21	60.7	27/12/2011 0:31	60.3		
23/12/2011 5:06	56.4	24/12/2011 6:16	59.6	25/12/2011 23:26	60.3	27/12/2011 0:36	59.1		
23/12/2011 5:11	56.9	24/12/2011 6:21	60.3	25/12/2011 23:31	60.3	27/12/2011 0:41	59.6		
23/12/2011 5:16	56.6	24/12/2011 6:26	60.9	25/12/2011 23:36	59.9	27/12/2011 0:46	59.4		
23/12/2011 5:21	58.5	24/12/2011 6:31	61.2	25/12/2011 23:41	60.3	27/12/2011 0:51	59.6		
23/12/2011 5:26	59.0	24/12/2011 6:36	61.4	25/12/2011 23:46	59.9	27/12/2011 0:56	59.6		
23/12/2011 5:31	59.0	24/12/2011 6:41							

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





Graphic Presentation of Real Time Noise Monitoring Result (CLC)





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

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



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

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

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



Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N081	29-Nov-11	20:10	M1a - Harbour Road Sports Centre	75	Leq(5-min)	when one documented complaint was received.	70	Possible reason: Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring. Action taken / to be taken: Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the baseline noise level at this monitoring station. Remarks / Other Obs: No construction work for Contract no. HK/2009/02 was conducted during the measurement; It is concluded that the exceedance was not due to the Project.
X_10N082	6-Dec-11	20:20	M1a - Harbour Road Sports Centre	73	Leq(5-min)	when one documented complaint was received.	70	Possible reason: Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring. Action taken / to be taken: Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the baseline noise level at this monitoring station. Remarks / Other Obs: No construction work for Contract no. HK/2009/02 was conducted during the measurement; It is concluded that the exceedance was not due to the Project.
X_10N083	20-Dec-11	14:38	M7e - IFC-Eastern End of Prodim	76	Leq(30-min)	when one documented complaint was received.	75	Possible reason: Traffic noise contributed in front of car park of IFC during monitoring Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedance. The noise levels of repeat-measurement at the same location as below: 20 December 2011 15:08 77 dB (A) Traffic jam under the noise monitoring station were observed during monitoring. Some unavoidable car honking sounds from cars were emitted during monitoring. It was considered the noise sources contributed to the monitoring result. According to the EIA report of CWB&IECL, all recommended noise mitigation measures were observed implemented by contractor during noise monitoring. Reviewing the noise level results at M7e, no exceedance was recorded if there is no abnormal noise source emitted near the noise monitoring station and all mitigation measures are implemented by contractor. To conclude, the exceedance was considered non-project related. Remarks / Other Obs: The noise level exceedance was considered due to contribution of abnormal noise source near the monitoring station.



Appendix 9.1

Complaint Log

**Environmental Complaints Log**

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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	4 August 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	07/08/2011				4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011. 5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. <i>Remarks: There will be counted as two complaints in this complaint log.</i>	
110730	30/07/2011	Mr. Tsui by ICC no. 1-305074350	Central	Construction noise generated by operations of Central-Interchange which is near the spa room at Four-Season Hotel. Also, the complaint enquired the commencement time of the construction on Saturday.	1) It was referred by AECOM to ET on 1 August 2011. 2) RSS confirmed that noisy plants from 2 vibratory hammers have been conducted in alternating manner for piling and drilling works for diaphragm wall construction. 3) With reference to the construction noise monitoring at IFC Western End of Podium, no exceedance was recorded on 4 August 2011 during monitoring while sheet piling works were undertaken during monitoring. 4) In order to reduce the noise impact to nearby noise sensitive receivers, Contractor has been implemented the following noise mitigation measures: - Erection of acoustic lining at the hoarding next to Four Seasons Hotel; - Temporary noise barrier with extended acoustic lining; - Reduced in plant such that only have one vibration hammer operating at the west side near Four	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Seasons Hotel instead of 2 5) In conclusion, it was related to the construction works under Contract HY/2009/18 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) It was referred by AECOM to ET on 17 August 2011. 2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint. 3) Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. 4) Contractors were advised to relocate the loose materials away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	Closed
110817	17/08/2011	ICC no. 1-307657681	North Point	Visual impact generated by light from a large amount of spot-lights on the barge during mid-night nearby City Garden.	1) It was referred by AECOM to ET on 23 August 2011 2) RSS confirmed that some non-essential lights were turned on during night-time period which caused the nuisance to the nearby residents. In addition, absence of lighting shields at flood lights results in visual glare to the complaint at night-time. 3) Follow-up action had been taken by contractor that switches off all non-essential lights to minimized nuisance to the nearby residents. The complainant satisfied to the practice and no further complaint was received after that.	Closed
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1	1) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. 2) The Excavator mounted breaker at Convention Avenue	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				reclamation area.	and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period. 3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint. 4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening. 5) Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed. 6) Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1) It was referred by AECOM to ET on 29 August 2011 2) Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. 3) The pump is located on the site area of HY/2009/19 4) A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to exclude the outfall. 5) An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractor of HY/2009/11 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011. 5) Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 6) In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse come from sea bed from entering the intake. 6) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying with their expectation. 7) During on-site inspection, floating refuses observed	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the floating refuses were observed immigrating in the protective zone during investigation 8) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. It was noted that the intake (land side) is open access to public, so that many activities such as fishing, feeding fish were conducted there even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point. 9) Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities. 10) Contractors have fulfilled the requirement of site cleanliness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) RSS notified ET to carry out investigation on 17 October 2011. 2) ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovion works along the Harbour Road. The plants including the excavator have been checked before using at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	Closed
111104	04/11/2011	Mr. Liu from	Wan Chai	Complain about a tree near the	1) ET confirmed with the Resident Site Staff that	Waiting RSS



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		LCSD complained via Contractor Complaint Hotline		site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	- A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. - Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700. 3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and	Keep in review



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position. 4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Furthermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
111212	12/12/2011	The complainant, Mr Tsui from IFCII's management office complained via hotline 1823	Central	A visual impact complaint from hotline 1823 was received by ET on 9 January 2011 (ICC Ref. No.: ICC#1-333037096 dated on 12 December 2011). The complaint, Mr Tsui was reported that visual nuisance caused by lighting in the construction site during night time.	1) RSS notified ET on 9 Jan 2012. 2) ET confirmed with the Resident Site Staff that A joint inspection was conducted by Mr Tsui and contractor on that night to see whether there is any improvement. 3) Due to safety reason, igniting enough lights should not be avoided in construction site. However, the light sources were not directed away from pointing to the sensitive receiver and results in visual glare to the complaint. 4) Confirmed with the Resident Site Staff the complainant was satisfied the new arrangement of the lights with contractor after the joint inspection. No further complaint received after that.	Closed
111220	20/12/2011	The complainant, Ms. Poon complained via hotline 1823 (ICC Ref. No.: ICC#1-334683841)	North Point	Construction air and noise nuisance generated that many trucks carrying construction materials driving along Watson Road and Oil Street and possibly entering/leaving the construction site near the IEC during 0800 to 1900 hours.	1) RSS notified ET on 22 Dec 2011. 2) ET confirmed with the Resident Site Staff that the complainant cannot identify whether the trucks were working under the CWB project or not. 3) The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and Waston Road, however, this is the public road for all vehicles. Reviewing the air quality monitoring and noise monitoring results. No exceedance was recorded during this period. 4) Confirmed with the Resident Site Staff that they provided a contact no. for any future enquiries regarding	Closed



Lam Geotechnics Limited

Contract No. HK/2009/05
Wanchai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 1)

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CWB project to the complainant and she was satisfied on the arrangement and no further complaint was received after that.	



Appendix 10.1

Construction Programme of Individual Contracts

[illegible]

Activity Name	Original Duration	Planned Start	Planned Finish	2011	2012	2013	2014	2015	2016
Rock Excavation	235d	25-Apr-12	15-Dec-12						
ME4-Diaphragm Wall	114d	10-May-12	19-Oct-12						
AS Logistics Area for Mined Tunneling Works	174d	01-Jun-12	07-Feb-13						
ME4-ELS Works	212d	01-Jun-12	02-Apr-13						
SCL Entrusted Works	291d	18-Jul-12	08-Sep-13						
Cut & Cover Tunnel Construction (w/o TS4 +)	111d	17-Dec-12	06-Apr-13						
ME4-RC Structure	146d	28-Jan-13	21-Aug-13						
OHVD and Cable Trough (Access from TZ5/TPCWAE/TPCWAW)	180d	17-Jun-13	13-Dec-13						
MINED TUNNEL									
CHT Protection Works @ location A, B, C	342d	27-Sep-10	01-Feb-12						
Tunnel works from West Portal (access from TPCWAE& TZ5)	418d	12-Mar-12	30-Oct-13						
Tunnel Works from East Portal (Access from TS4 Area)	214d	30-Mar-12	01-Feb-13						
Tunnel OHVD & Cable Trough	384d	02-Dec-13	22-May-15						
TPCWAE									
Drainage Diversion works along Hung Hing Road (Portion 19)	176d	15-Oct-10	24-Jun-11						
Diaphragm Wall Construction	147d	20-May-11	13-Oct-11						
Excavation & Lateral Support, ELS	421d	20-May-11	13-Jul-12						
Rock Excavation	206d	12-Mar-12	03-Oct-12						
AS Logistics Area for Mined Tunneling works	342d	12-May-12	18-Apr-13						
Cut & Cover Tunnel Construction	130d	28-Jan-13	06-Jun-13						
OHVD and Cable Trough (Access from TZ5/TPCWAW)	182d	18-Feb-15	18-Aug-15						
TPCWAW & PORTION 11									
Diaphragm Wall Construction + Portion 11	222d	25-Oct-13	03-Jun-14						
Excavation & Lateral Support, ELS	478d	25-Oct-13	14-Feb-15						
Cut & Cover Tunnel Construction	143d	30-Dec-14	21-May-15						
OHVD and Cable Trough Installation (Access from Portion 11)	236d	22-May-15	11-Jan-16						

2 of 2

China State Construction Engineering (Hong Kong) Ltd.

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel

(CBTS Section)

Prepared by William Caluza

Date	Revision	Checked	Approved
14-Mar-11	Revision C	ST	KL
	File: 0001a		
	(Layout: HY/2009/15: CWB - Summary)		

中國建築工程(香港)有限公司

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

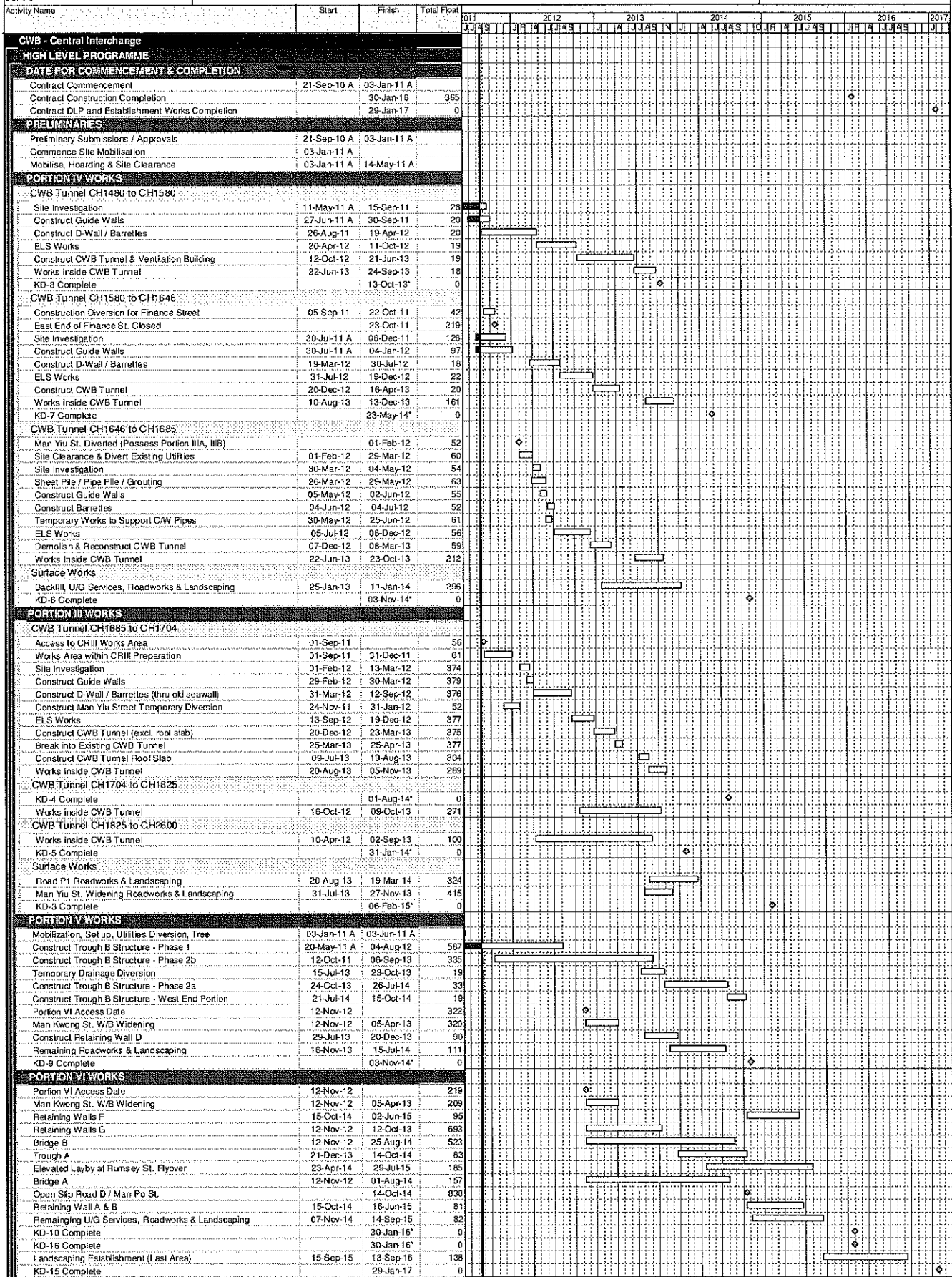
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Date: 20-Aug-11
Print Date: 29-Aug-11
DCP3-2

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

TASK filter: HL



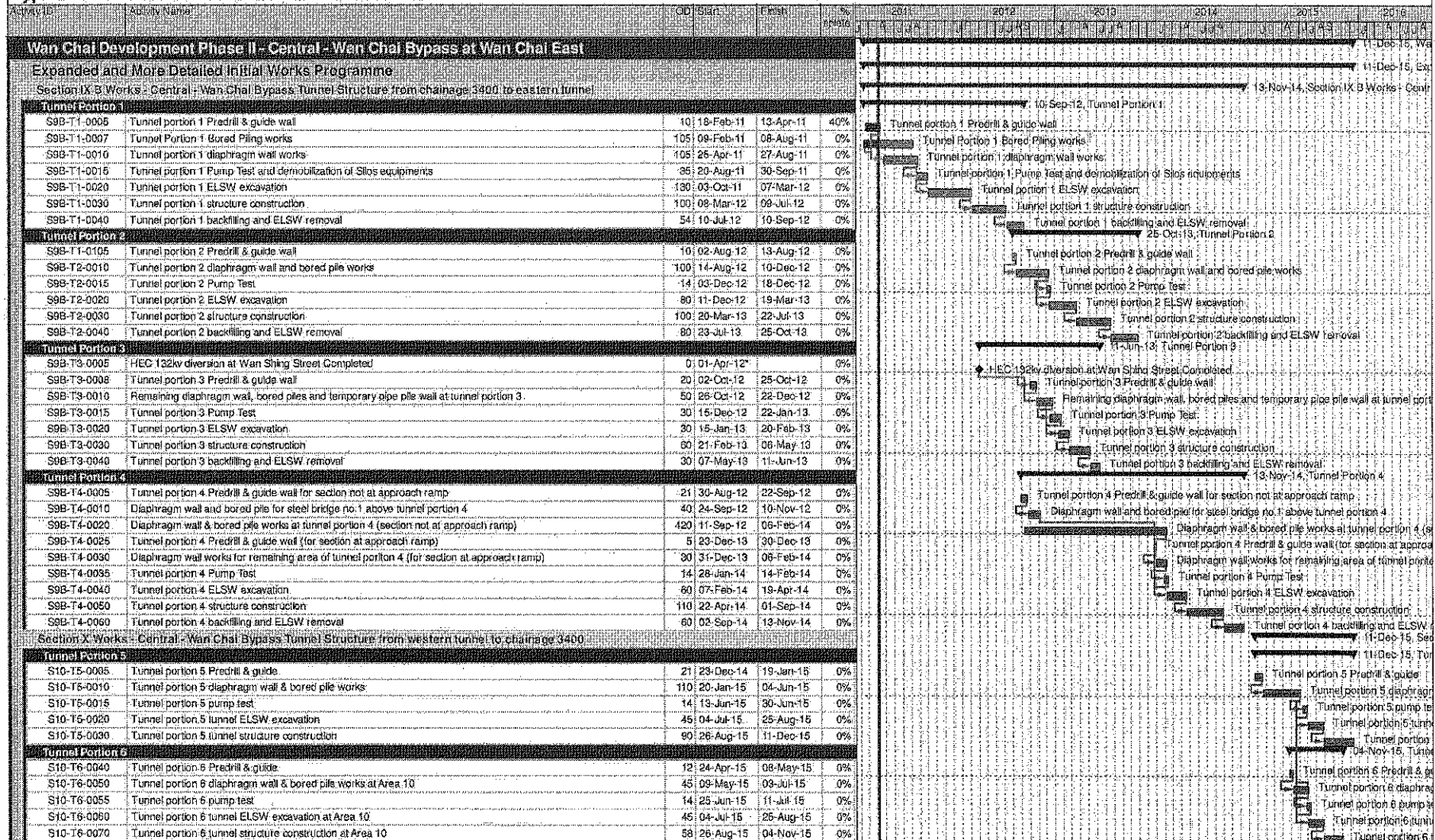
Working Programme for Diaphragm Wall Construction Works

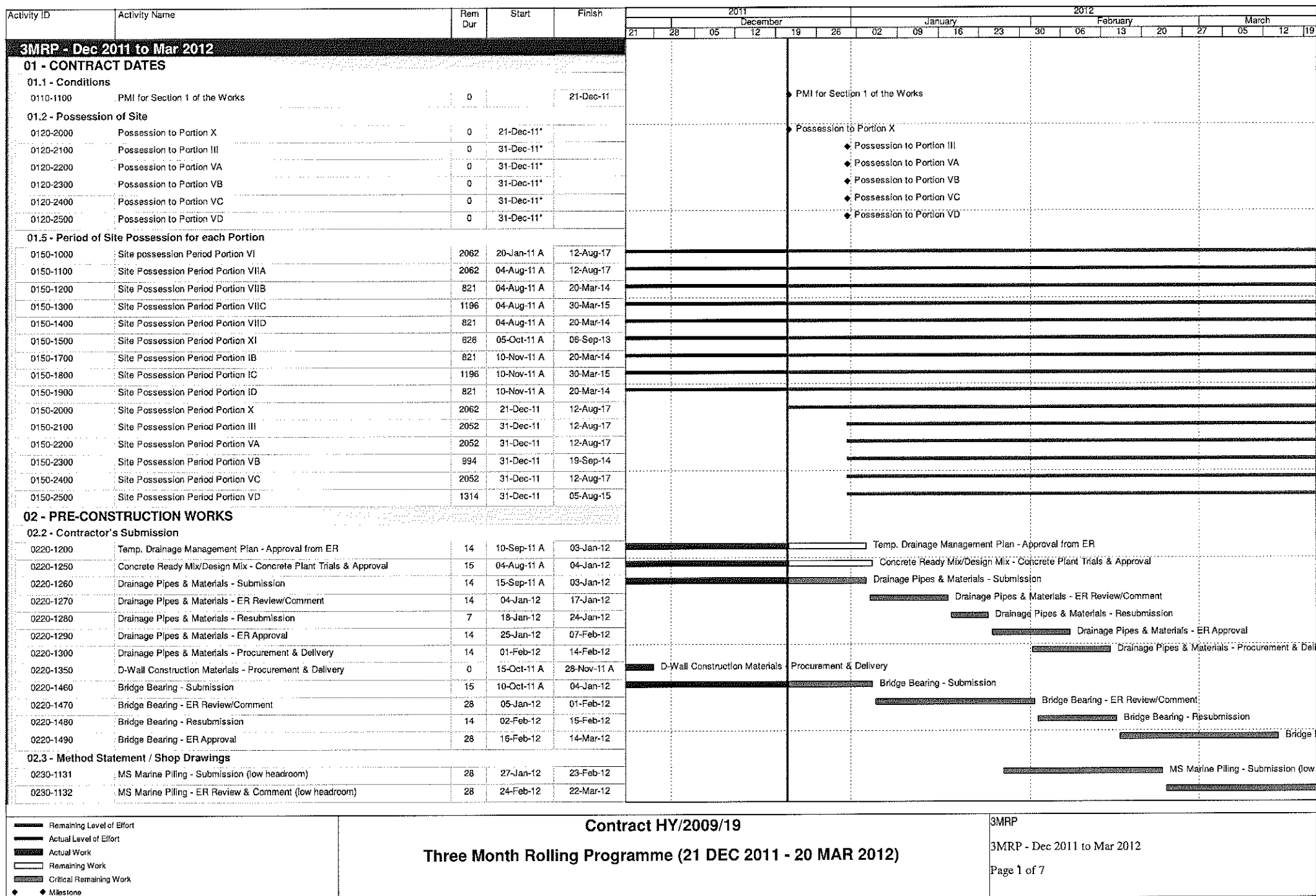
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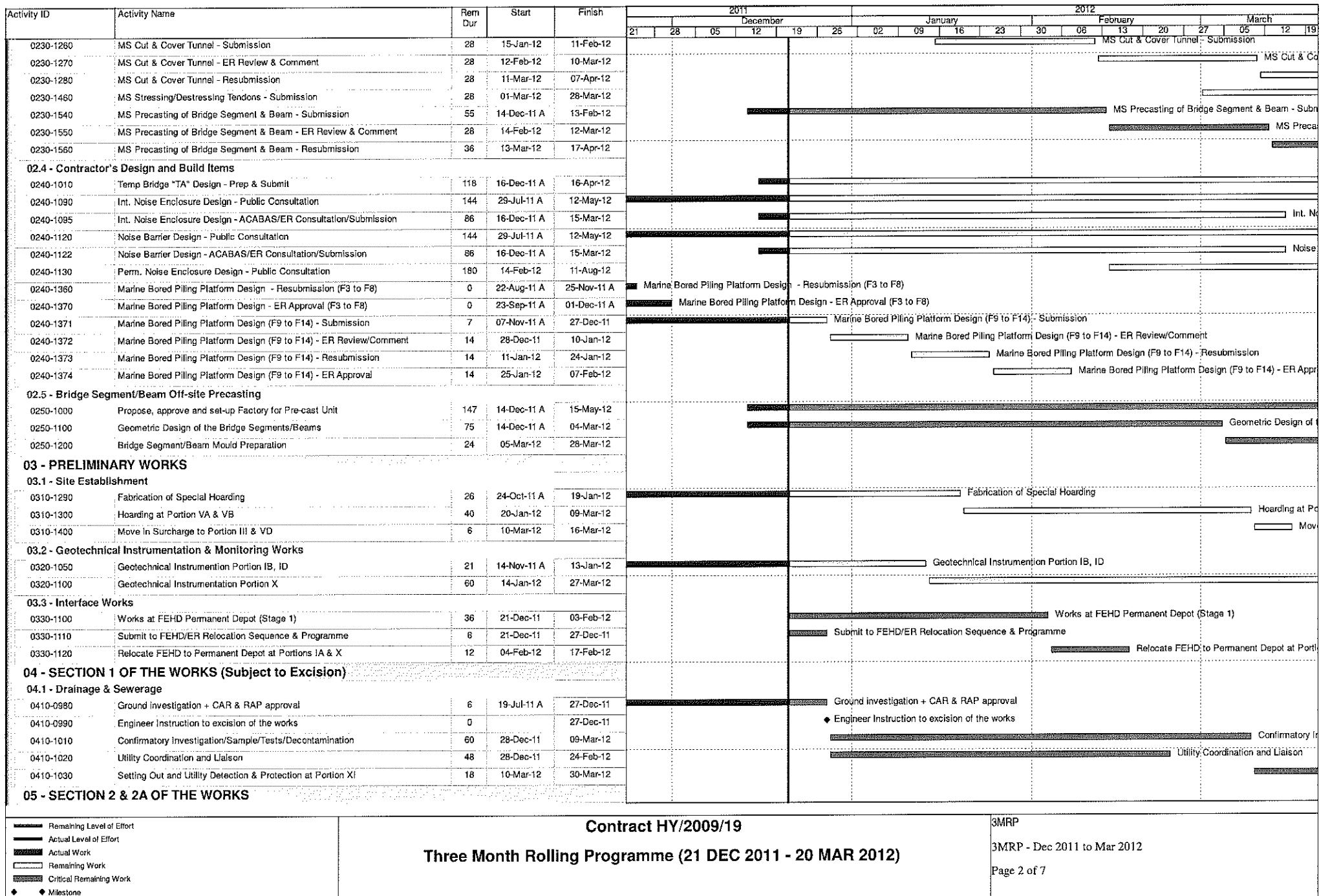
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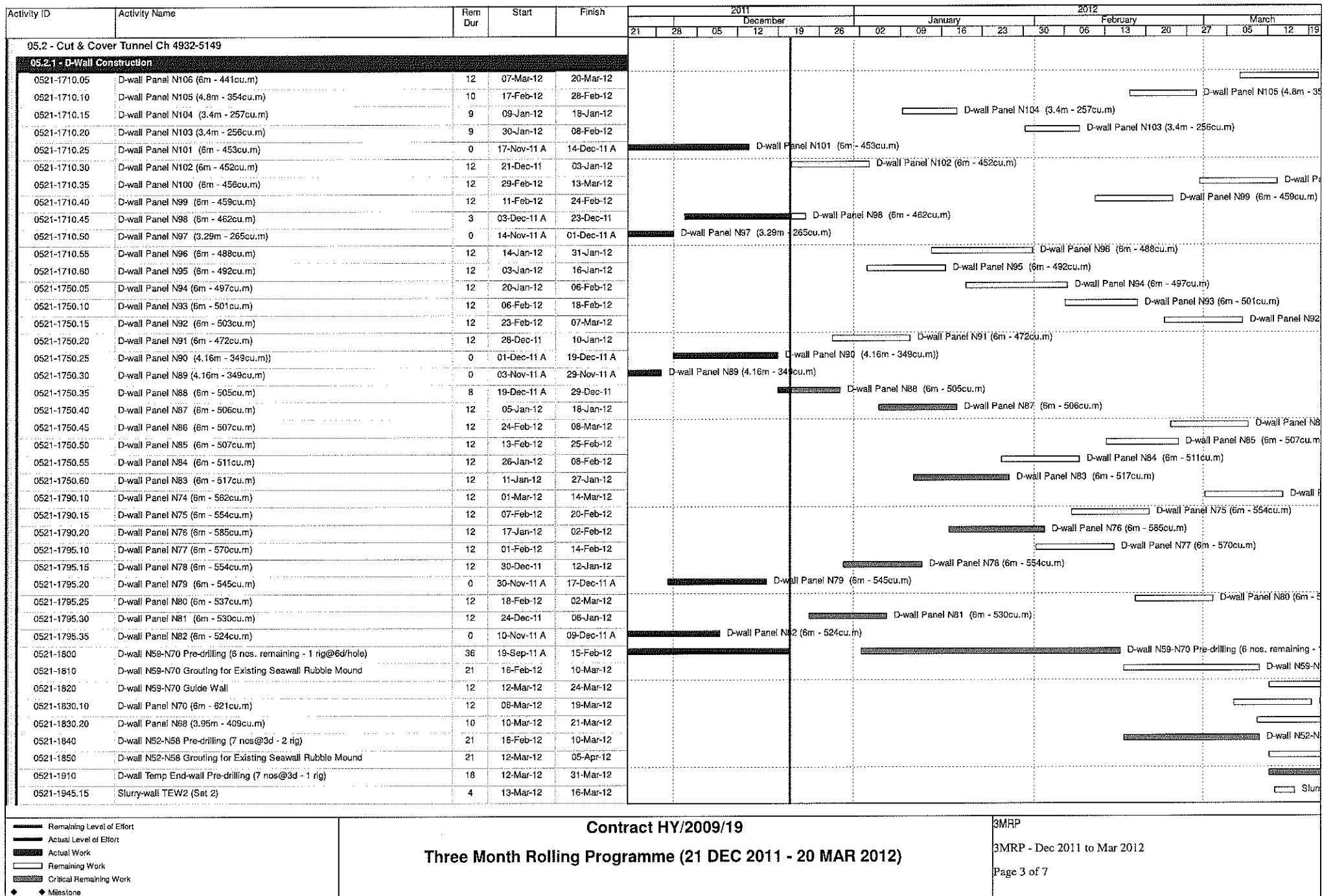
Wan Chai Development Phase II - Central - Wan Chai
Bypass at Wan Chai East CONTRACT HK/2009/02

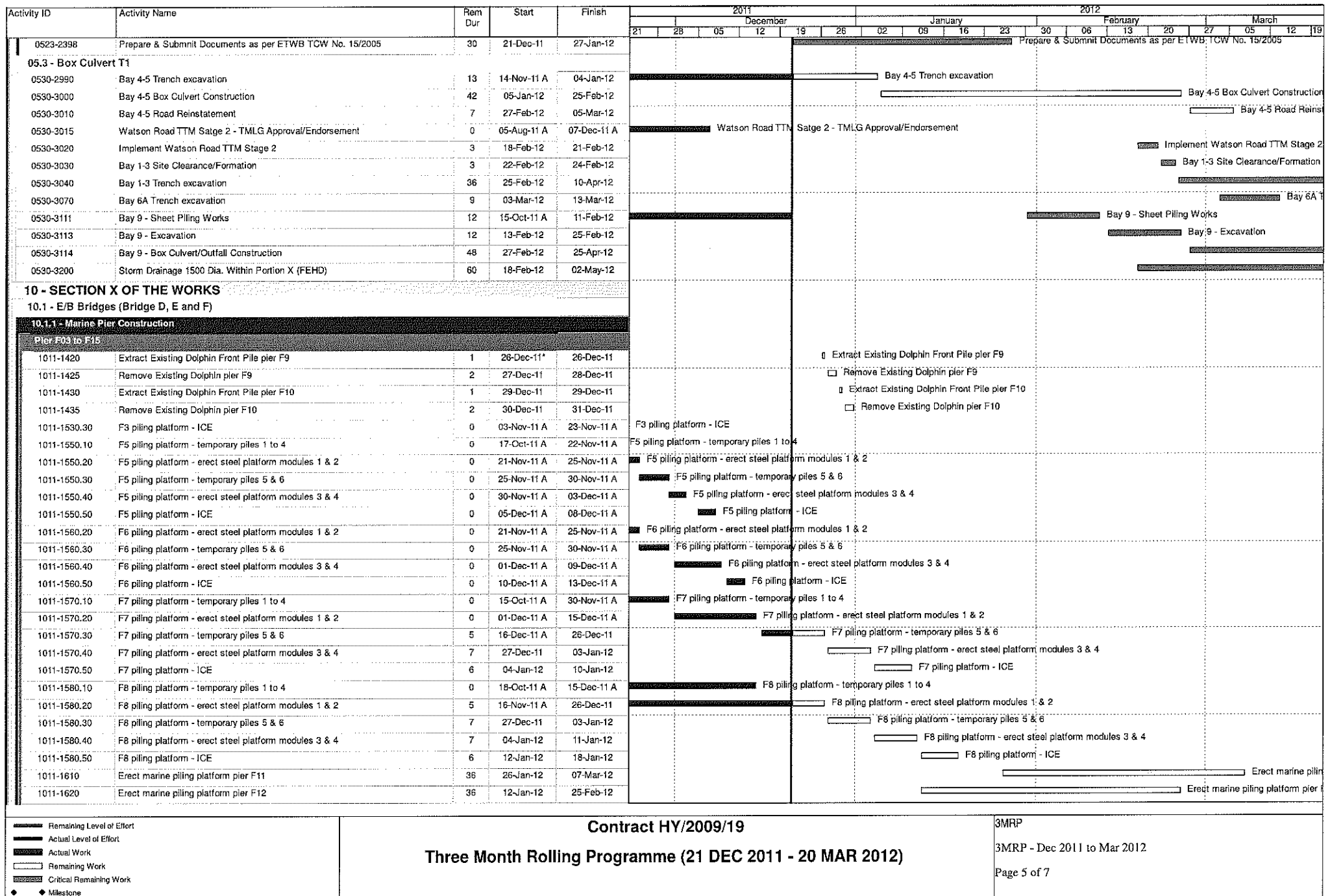
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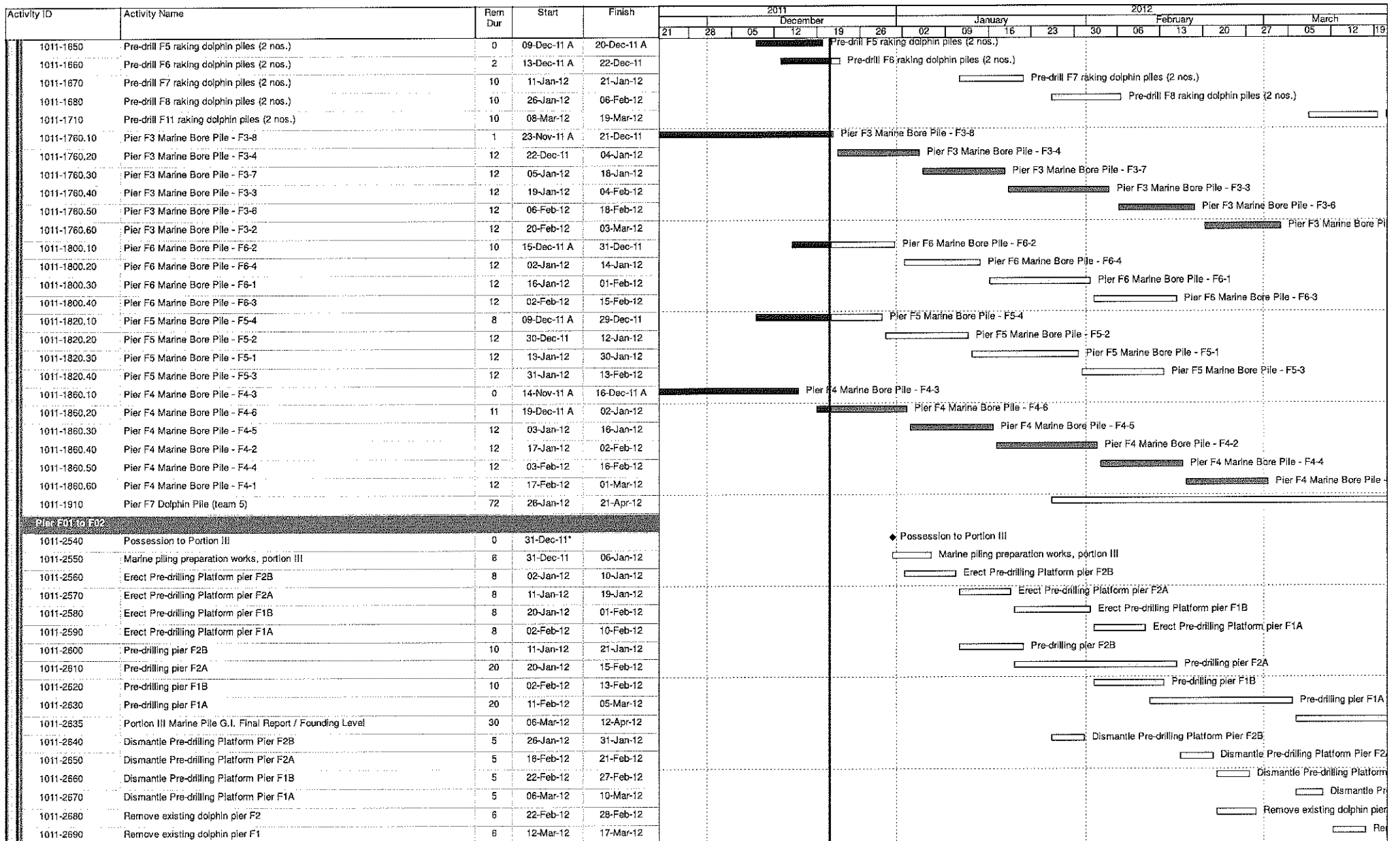












Remaining Level of Effort
 Actual Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone

Contract HY/2009/19
Three Month Rolling Programme (21 DEC 2011 - 20 MAR 2012)

3MRP
 3MRP - Dec 2011 to Mar 2012
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Activity ID	Activity Name	Rem Dur	Start	Finish	2011						2012																	
					December						January						February						March					
					21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	05	12	19						
10.1.2 - Land Pier Construction																												
Pier D08 to D11																												
1012-1010	Site Survey and Setting Out at Portion III	6	31-Dec-11	06-Jan-12	Site Survey and Setting Out at Portion III																							
1012-1015	Pre-drilling for Pilings (D08 to D12) at III (28 no.) (4set)	27	07-Jan-12	10-Feb-12	Pre-drilling for Pilings (D08 to D12) at III (28 no.) (4set)																							
1012-1020	Portion III Land Pile G.I. Prelim Report / Founding Level	6	11-Feb-12	17-Feb-12	Portion III Land Pile G.I. Prelim Report / Founding Level																							
1012-1025	Portion III Land Pile G.I. Final Report / Founding Level	24	18-Feb-12	16-Mar-12	Portion III Land Pile G.I. Final Report / Founding Level																							
1012-1030	Pier D08 Bored Piles (6 piles)	72	11-Feb-12	09-May-12	Pier D08 Bored Piles (6 piles)																							
1012-1040	Pier D09 Bored Piles (6 piles)	72	11-Feb-12	09-May-12	Pier D09 Bored Piles (6 piles)																							
1012-1050	Pier D10 Bored Piles (6 piles)	72	11-Feb-12	09-May-12	Pier D10 Bored Piles (6 piles)																							
1012-1060	Pier D11 Bored Piles (6 piles)	72	11-Feb-12	09-May-12	Pier D11 Bored Piles (6 piles)																							
Pier D05 to D07																												
1012-1260	Pre-drilling for 18 nos Piling at VIIB (2set)	30	08-Aug-11 A	27-Jan-12	Pre-drilling for 18 nos Piling at VIIB (2set)																							
1012-1265	Portion VIIB Land Pile G.I. Final Report / Founding Level	18	03-Oct-11 A	17-Feb-12	Portion VIIB Land Pile G.I. Final Report / Founding Level																							
1012-1280.30	Pier D06 Bored Pile D06-5	0	19-Nov-11 A	05-Dec-11 A	Pier D06 Bored Pile D06-5																							
1012-1280.40	Pier D06 Bored Pile D06-2	0	07-Dec-11 A	20-Dec-11 A	Pier D06 Bored Pile D06-2																							
1012-1280.50	Pier D06 Bored Pile D06-4	15	21-Dec-11	06-Jan-12	Pier D06 Bored Pile D06-4																							
1012-1280.60	Pier D06 Bored Pile D06-3	15	07-Jan-12	27-Jan-12	Pier D06 Bored Pile D06-3																							
1012-1290.10	Pier D05 Bored Pile D05-2	0	10-Nov-11 A	30-Nov-11 A	Pier D05 Bored Pile D05-2																							
1012-1290.20	Pier D05 Bored Pile D05-1	0	02-Dec-11 A	15-Dec-11 A	Pier D05 Bored Pile D05-1																							
10.1.3 - E/B Bridge Construction																												
Bridge D3																												
1013-1000	Design & Procurement of Launching Girder	75	20-Jan-12	23-Apr-12																								
14 - SECTION 14 OF THE WORKS																												
14.1 - Soft Landscape																												
1410-1000	Transplant. of ex. Trees to Nursery & upkeep	1515	31-Dec-11	17-Jan-17																								

Remaining Level of Effort
 Actual Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone

Contract HY/2009/19
Three Month Rolling Programme (21 DEC 2011 - 20 MAR 2012)

3MRP
 3MRP - Dec 2011 to Mar 2012
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