



CONTRACT NO: HK/2011/07

**WANCHAI DEVELOPMENT PHASE II AND CENTRAL
WANCHAI BYPASS
SAMPLING, FIELD MEASUREMENT AND TESTING WORK
(STAGE 2)**

**ENVIRONMENTAL PERMIT NO. EP-364/2009/B,
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-01/364/2009,
FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-
07/364/2009/A, FEP-08/364/2009/A, FEP-09/364/2009/B AND
FEP-10/364/2009/B**

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- FEBRUARY 2014 -

CLIENTS:

**Civil Engineering and Development
Department**

and

Highways Department

PREPARED BY:

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DATE:

12 March 2014

Ref.: AACWBIECEM00_0_4999L.14

12 March 2014

By Post and Fax (2691 2649)

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

Attention: Mr. Conrad Ng

Dear Sir,

**Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Monthly Environmental Monitoring and Audit Report (February 2014) for EP-364/2009/B,
FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A,
FEP-07/364/2009/A, FEP-08/364/2009/A, FEP-09/364/2009/B & FEP-10/364/2009/B**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for February 2014 received by email on 12 March 2014.

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. Robert Tsoi	by fax: 2577 5040
	AECOM	Mr. Francis Leong / Mr. Stephen Lai	by fax: 2691 2649
	Lam	Mr. Raymond Dai	by fax: 2882 3331

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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – **February 2014** specific for Environmental Permit no. EP-364/2009/B, Further Environmental Permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/A, FEP-08/364/2009/A and FEP-09/364/2009/B. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2). This report presents the environmental monitoring findings and information recorded during the period of **February 2014**. 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/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Excavation of trial pit
- Transplanting of trees
- Drainage works
- Tunnel works including scaffolding erection, excavation, OHVD installation, roadside barriers, top and base slab construction
- Trough structure construction and associated drilling and grouting
- Road works
- Bridges construction

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

- The installation of pre-bored H-piles in CWB stage 2 Atrium Link
- The installation of pre-bored H-piles in CWB stage 3 Atrium Link
- Demolition of P5 Pump house at Promenade Deck
- Installation of ELS at first layer for Stage 1.
- Installation of ELS at second layer.
- Pumping test for CWB Tunnel Structure Works at 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

- Construction of OHVD base slab at Eastbound and upper side wall at Westbound
- Mobilization of D-Wall plant at WCR2 area for remaining D-Wall construction at the Southern side along the existing seawall cope line.
- Guide wall and ground treatment for remaining D-Wall construction at Portion 2.
- D-wall construction was commenced on 4 Feb 14.
- Concreting of D-wall Panel
- Casting of Bored Pile Nos. PN30
- Installation of Bored Pile Nos. PC32

- Preparation works for D-wall construction at Panel Nos. P144 – P146
- Casting of guide wall and the pre-grouting works.
- Preparation works for D-wall construction at Panel Nos. C130A – P131,
- Preparation works for D-wall construction at Panel Nos. P147 – P154

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

- Tunnel construction at TS2, TS4 & TPCWAE
- Dismantling of struts at TS4 & TPCWAE
- Mined Tunnel drill-and-break works and installation of steel ribs at East and West Portal.
- Mined tunnel lining construction

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

- Road works at Watson Road
- Bored piling (Land)
- Removal of strut at ELS
- Construction of Pile cap, column and cross-head (Land)
- Removal of marine platform
- Construction of cross head (Marine)
- Construction of Dolphin Cap
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500 ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge TA1
- Pre-bored H-pile for Admin. Building commenced

Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line under FEP-08/364/2009/A

- Installation of protection layer for precast unit

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009B

- Site preparation works
- Site survey

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009B

- Tree & root pruning works
- Tree transplanting works,
- Tree works within off-site nursery compound,

- Drainage improvement works,
- Sheet piling works,
- Demarcation of graphics,
- Erection of noise absorption sheeting,
- Pipe pile & pre-boring works,
- Re-provisional of turtle pond &
- Loop detector installation works.

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, and M8 - City Hall on a weekly basis.
- iv. No action and 3 limit level exceedances at M6 – HK Baptist Church Henrietta Secondary School were recorded on 13, 20 and 25 February 2014 in this reporting month. The exceedances were concluded as non-project related.
- v. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot for construction activities at IEC bridge deck. No project related exceedance was recorded in the reporting month.
- vi. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.
- vii. 24-hour real time noise monitoring was conducted at RTN3 – Yu Lee Mo Fan Memorial School. No project related exceedance was recorded in the reporting month.
- viii. 24-hour real time noise monitoring was conducted at RTN4 – Causeway Bay Community Centre. No project related exceedance was recorded in the reporting month.
- ix. Liaison was conducted with HK Baptist Church Henrietta Secondary School and Po Leung Kuk Yu Lee Mo Fan Memorial School regarding the set up of RTN3 real time noise monitoring station. Po Leung Kuk Yu Lee Mo Fan Memorial School grant permission for set up on 4 Sep 2012 and station set up was performed on 14 Sep 2012.
- x. Real time noise monitoring station at Oil Street Community Liaison Centre (RTN2- Oil Street Community Centre) was relocated from Oil Street Community Liaison Centre to Hong Kong Electric (RTN2a- Electric Centre) on 5 Oct 2012 which is a representative of the noise sensitive receiver City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xi. Real-time noise baseline capturing was conducted from 21 Sep 2012 to 04 Oct 2012 at RTN3-Po Leung Kuk Yu Lee Mo Fan Memorial School.
- xii. Real-time Noise Monitoring at RTN3- Po Leung Kuk Yu Lee Mo Fan Memorial School was commenced since 06 Oct 2012.
- xiii. Causeway Bay Community Centre has granted permission for set up of real time noise monitoring station on 21 Dec 2012 and station set up was performed on 27 Dec 2012. The Baseline noise level of RTN4- Causeway Bay Community Centre will adopt the results from the baseline noise monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.

- xiv. According to clause 3.1 stated in EP-364/2009/B, “the real-time monitoring system shall be in place no later than two weeks before the commencement date of demolition works of the existing Island Eastern Corridor”. IEC demolition associated construction works was commenced on 3 Feb 2013 and Real time noise monitoring at RTN4-Causeway Bay Community Centre was commenced on 13 Jan 2013.
- xv. Real-time noise monitoring station RTN1-FEHD Whitfield Depot was finely adjusted from 2/F to roof-top at FEHD Whitfield Depot on 24 June 2013 with respect to the commencement of advance works for IEC parapet demolition.

Air Monitoring

- xvi. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b – Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- xvii. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xviii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; 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 podium on every six days basis.

Complaints, Notifications of Summons and Successful Prosecutions

- xix. There were no environmental complaints received in this reporting month.

Site Inspections and Audit

- xx. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/15, HY/2009/18, HY/2009/19, HY/2010/08, HK/2009/01, HK/2009/02, HK/2012/08 and HK/2010/06 in this reporting period. Construction of bored pile E3B under HY/2009/17 was confirmed completed and the respective work area under FEP was inspected under HY/2009/19 from 19 Dec 2012 onwards. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

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

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

- Excavation of trial pit
- Drainage works
- Tunnel works including scaffolding erection, excavation, OHVD installation, roadside barriers, top and base slab construction, extract sheet pile, waterproofing and backfill
- Trough structure construction and associated drilling and grouting
- Road works
- Bridges construction

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

- Preparation works for the new temporary road at Expo Drive East
- Temporary utilities diversion at the new reclaimed area
- Installation of pre-bored H-piles at 4th row & ED (total 38 nos. piles)
- Remaining D-wall construction at tunnel south (13 nos. panels)
- Excavation for stage 1 down to -10 mPD
- Tunnel structure works
- Base slab construction at Bay 5.

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

- Complete all tunnel structure.
- Pre-grouting and guide wall at TWCR4 area.
- Bored pile construction those in the vicinity of Bridge 1 & 2 under Hung Hing Road Flyover Diversion (Stage 2) and continue others bored pile construction at Tunnel Portion 3 & 4.
- Mini-piling works for foundation of Bridge 3 under Hung Hing Road Flyover Diversion (Stage 2) and complete mini-pile loading test at pile no. M07 in early Mar 14.
- Concrete deck and steel deck on existing Box Culvert O Bay 17 – Bay 19.
- Mobilization for D-Wall construction at Tunnel Portion 3 & 4 and complete the preparation works for D-wall construction at Panel Nos. C130A – P131, P144 – P146 and P147 – P154 including pre-grouting.
- Existing 450mm stormwater drain diversion.
- D-wall construction along Hung Hing Road slow lane.
- D-wall construction at Tunnel Portion 6.

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

- Tunnel construction at TS2, TS4 & TPCWAE
- Dismantling of struts at TS4 & TPCWAE
- Mined Tunnel drill-and-break works and installation of steel ribs at East and West Portal.
- Mined tunnel lining construction

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

- Road works at Watson Road
- Bored piling (Land)
- Removal of strut at ELS
- Construction of Pile cap, column and cross-head (Land)
- Removal of marine platform
- Construction of Dolphin Cap
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500 ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge TA1
- Pre-bored H-pile for Admin. Building

Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line under FEP-08/364/2009/A

- Repair and installation of slotted panels
- Installation of protection layer for precast unit

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

- Site preparation works
- Site survey



Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009B

- Tree & root pruning works
- Tree removal works,
- Tree transplanting works,
- Tree works within off-site nursery compound,
- Drainage improvement works,
- Sheet piling works,
- Demarcation of graphics,
- Pipe pile & pre-boring works,
- Re-provisional of turtle pond,
- Loop detector installation works &
- UMP installation works.

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-364/2009/B and Further Environmental permit nos. FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/A, FEP-08/364/2009/A and FEP-09/364/2009/B 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/B, Further Environmental Permit (FEP) nos. FEP-01-364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/A, FEP-08/364/2009/A and FEP-09/364/2009B during the period [January 2014 to February 2014](#). 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 Designated 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. 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 (Completed)
HK/2009/01	Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre – Tunnel Works	DP1, DP2	25 August 2011

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
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,DP3	13 July 2011
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2010/06	Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011
HK/2012/08	Wan Chai Development Phase II- Central-Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	DP works under EP-364 to be commenced tentatively in early 2014.
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013

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's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3922 3388	3912 3010
Lam Woo & CO., LTD.	Contractor under Contract no. HY/2009/17	General Manager	Mr. Thomas Tang	6111 5351	2566 7522
		Contractor's Representative	Mr. Chung Man Shek	2566 4866	
		Site Agent	Mr. Tong Au	9725 5874	
		Environmental Officer	Dr. Priscilla Choy	9161 7287	
		Environmental Supervisor	Mr. Tam Chun Pong	6461 3062	

Party	Role	Post	Name	Contact No.	Contact Fax
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Site Agent	Mr. Simon Liu	2162 9909	2634 1626
		Construction Manager	Mr. Terry Wong	9757 9846	
		Deputy Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Jack Chu	9775 2467	
		Environmental Officer (Compliance Manager)	Mr. Frank So	9103 2370	
		Environmental Supervisor	Mr. Stanley Chan	9047 6148	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Site Agent	Mr. K.K. Yuen	3658-3002	2827 9996
		Project Manager	Mr. Alfred Leung	3658-3022	
		Quality & Environmental Manager (Environmental Officer)	Mr. C.P. Ho	3658-3000	
Chun Wo - CRGL - MBEC_Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. David Lau	3758 8879	2570 8013
		Site Agent	Mr. Paul Yu	9456 9819	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Environmental Engineer	Mr. Calvin Leung	9286 9208	
		Construction Manager (Marine)	Mr. William Luk	9610 1101	
		Construction Manager (Land)	Mr. Patrick Cheung	9643 3012	
		Construction Manager (Land)	Mr. Eric Fong	6191 9337	
		Operation Manager (Land)	Mr. Yung Kwok Wah	9834 1010	
Leighton Contractors (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Desmond Sze	2214 7700	2140 6799
		Deputy Site Agent	Mr. Roger Wong	2214 7703	
		Environmental Officer	Ms. Lighting Chan	2823 1161	



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Engineer	Mr. Donald Ip	2214 7721	
		Assistant Environmental Engineer	Mr. Penny Yiu	2214 7738	
		Environmental Supervisor	Mr. K. P. Lai	6461 4660	
		Environmental Supervisor	Mr. Ray Cheng	2214 7742	
		Environmental Supervisor	Mr. K. W. Lee	6461 4623	
		Environmental Supervisor	Mr. Dorothy Shing	2214 7705	
		Environmental Supervisor	Mr. C. Y. Au Yeung	6461 8631	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Mr. K C Cheung	2823 7813	2865 5229
		Site Manager	Mr. J.H. Chen	3557 6368	2566 2192
		Contractor's Representative	Mr. Gene Cheung	3557 6395	
		Head of construction	Mr. Roger Cheung	3557 6371	
		Environmental Officer	Mr. Andy Mak	3557 6215	
		Environmental Supervisor	Ms. Esther Choi	35576348	
Gammon - Leader JV	Contractor under Contract no. HK/2010/06	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
		Site Agent	Mr. Eric Yip	2529 2068	
		Environmental Officer	Mr. Clement Pang	9481 6024	
		Environmental Supervisor	Mr. Jacky Cheung	9735 9200	
China State-Leader JV	Contractor under Contract no. HK/2012/08	Project Director	Mr. Andrew TSE	9137 1811	2877 1522
		Project Manager	Mr. Victor WU	9193 8871	
		Deputy Project Manager	Mr. George CHEUNG	9268 1918	
		Site Agent	Mr. Paul LUI	9095 7922	
		Environmental Officer	Mr. James MA	9130 9549	
		Environmental Supervisor	Mr. Ching Man, CHAN	6050 4919	
China State	Contractor under Contract no. HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	

Party	Role	Post	Name	Contact No.	Contact Fax
		Site Agent	Dr. Dave Chan	3467 4277	
		Environmental Officer	Mr. C.M. Wong	3557 6464	
		Environmental Supervisor	Mr. Louis Lam Tsz Kwan	3557 6470	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
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/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Excavation of trial pit
- Transplanting of trees
- Drainage works
- Tunnel works including scaffolding erection, excavation, OHVD installation, roadside barriers, top and base slab construction
- Trough structure construction and associated drilling and grouting
- Road works
- Bridges construction

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

- The installation of pre-bored H-piles in CWB stage 2 Atrium Link
- The installation of pre-bored H-piles in CWB stage 3 Atrium Link
- Demolition of P5 Pump house at Promenade Deck
- Installation of ELS at first layer for Stage 1.
- Installation of ELS at second layer.
- Pumping test for CWB Tunnel Structure Works at 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

- Construction of OHVD base slab at Eastbound and upper side wall at Westbound
- Mobilization of D-Wall plant at WCR2 area for remaining D-Wall construction at the Southern side along the existing seawall cope line.
- Guide wall and ground treatment for remaining D-Wall construction at Portion 2.

- D-wall construction was commenced on 4 Feb 14.
- Concreting of D-wall Panel
- Casting of Bored Pile Nos. PN30
- Installation of Bored Pile Nos. PC32
- Preparation works for D-wall construction at Panel Nos. P144 – P146
- Casting of guide wall and the pre-grouting works.
- Preparation works for D-wall construction at Panel Nos. C130A – P131,
- Preparation works for D-wall construction at Panel Nos. P147 – P154

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

- Tunnel construction at TS2, TS4 & TPCWAE
- Dismantling of struts at TS4 & TPCWAE
- Mined Tunnel drill-and-break works and installation of steel ribs at East and West Portal.
- Mined tunnel lining construction

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

- Road works at Watson Road
- Bored piling (Land)
- Removal of strut at ELS
- Construction of Pile cap, column and cross-head (Land)
- Removal of marine platform
- Construction of cross head (Marine)
- Construction of Dolphin Cap
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500 ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge TA1
- Pre-bored H-pile for Admin. Building commenced

Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line under FEP-08/364/2009/A

- Installation of protection layer for precast unit

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009B

- Site preparation works
- Site survey



Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009B

- Tree & root pruning works
- Tree transplanting works,
- Tree works within off-site nursery compound,
- Drainage improvement works,
- Sheet piling works,
- Demarcation of graphics,
- Erection of noise absorption sheeting,
- Pipe pile & pre-boring works,
- Re-provisional of turtle pond &
- Loop detector installation works.

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

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

- Excavation of trial pit
- Drainage works
- Tunnel works including scaffolding erection, excavation, OHVD installation, roadside barriers, top and base slab construction, extract sheet pile, waterproofing and backfill
- Trough structure construction and associated drilling and grouting
- Road works
- Bridges construction

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

- Preparation works for the new temporary road at Expo Drive East
- Temporary utilities diversion at the new reclaimed area
- Installation of pre-bored H-piles at 4th row & ED (total 38 nos. piles)
- Remaining D-wall construction at tunnel south (13 nos. panels)
- Excavation for stage 1 down to -10 mPD
- Tunnel structure works
- Base slab construction at Bay 5.

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

- Complete all tunnel structure.
- Pre-grouting and guide wall at TWCR4 area.
- Bored pile construction those in the vicinity of Bridge 1 & 2 under Hung Hing Road Flyover Diversion (Stage 2) and continue others bored pile construction at Tunnel Portion 3 & 4.
- Mini-piling works for foundation of Bridge 3 under Hung Hing Road Flyover Diversion (Stage 2) and complete mini-pile loading test at pile no. M07 in early Mar 14.
- Concrete deck and steel deck on existing Box Culvert O Bay 17 – Bay 19.
- Mobilization for D-Wall construction at Tunnel Portion 3 & 4 and complete the preparation works for D-wall construction at Panel Nos. C130A – P131, P144 – P146 and P147 – P154 including pre-grouting.
- Existing 450mm storm water drain diversion.
- D-wall construction along Hung Hing Road slow lane.
- D-wall construction at Tunnel Portion 6.

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

- Tunnel construction at TS2, TS4 & TPCWAE
- Dismantling of struts at TS4 & TPCWAE
- Mined Tunnel drill-and-break works and installation of steel ribs at East and West Portal.
- Mined tunnel lining construction

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

- Road works at Watson Road
- Bored piling (Land)
- Removal of strut at ELS
- Construction of Pile cap, column and cross-head (Land)
- Removal of marine platform
- Construction of Dolphin Cap
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500 ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge TA1
- Pre-bored H-pile for Admin. Building

Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line under FEP-08/364/2009/A

- Repair and installation of slotted panels
- Installation of protection layer for precast unit

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

- Site preparation works
- Site survey



Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009B

- Tree & root pruning works
- Tree removal works,
- Tree transplanting works,
- Tree works within off-site nursery compound,
- Drainage improvement works,
- Sheet piling works,
- Demarcation of graphics,
- Pipe pile & pre-boring works,
- Re-provisional of turtle pond,
- Loop detector installation works &
- UMP installation works.

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	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
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-05/356/2009	24 Mar 2011	Valid
Further Environmental Permit	FEP-06/356/2009	5 March 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	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	Surrendered
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
Further Environmental Permit	FEP-08/364/2009/A	15 June 2012	Valid
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	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. The construction works was completed and the FEP was surrendered by the Contractor on 25 April 2013.

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
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0856-13	7 Aug 2013	10 Aug 2013 to 1 Feb 2014	Valid
	GW-RS0883-13	12 Aug 2013	14 Aug 2013 to 13 Feb 2014	Valid
	GW-RS0937-13	23 Aug 2013	25 Aug 2013 to 22 Feb 2014	Valid
	GW-RS1063-13	24 Sep 2013	26 Sep 2013 to 23 Mar 2014	Valid
	GW-RE1034-13	27 Sep 2013	30 Sep 2013 to 29 Mar 2014	Valid
	GW-RS1094-13	7 Oct 2013	08 Oct 2013 to 07 Apr 2014	Valid
	GW-RS1114-13	11 Oct 2013	13 Oct 2013 to 12 Apr 2014	Valid
	GW-RS1153-13	21 Oct 2013	23 Oct 2013 to 20 Apr 2014	Cancelled
	GW-RS1083-13	27 Sep 2013	29 Sep 2013 to 26 Mar 2014	Cancelled
	GW-RS1091-13	7 Oct 2013	08 Oct 2013 to 07 Apr 2014	Valid
	GW-RS1211-13	4 Nov 2013	09 Nov 2013 to 08 May 2014	Valid
	GW-RS1246-13	8 Nov 2013	10 Nov 2013 to 07 May 2014	Valid
GW-RS1265-13	14 Nov 2013	16 Nov 2013 to 12 May 2014	Valid	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS-1270-13	13 Nov 2013	14 Nov 2013 to 13 May 2014	Valid
	GW-RS1324-13	19 Nov 2013	22 Nov 2013 to 18 May 2014	Valid
	GW-RS1374-13	2 Dec 2013	3 Dec 2013 to 2 Jun 2014	Valid
	GW-RS1433-13	20 Dec 2013	21 Dec 2013 to 20 Jun 2014	Valid
	GW-RS1450-13	20 Dec 2013	22 Dec 2013 to 19 Jun 2014	Valid
	GW-RS0111-14	11 Feb 2013	15 Feb 2014 to 14 August 2014	Valid
Discharge Licence	WT00009641- 2011	24 Jul 2011	31 Jul 2016	Valid
	WT00006220- 2010	18 Mar 2010	31 Mar 2015	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134- C3585-01	21 Jan 2010	N/A	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.7 & 2.8	Works Schedule and Location Plan	18 May 2011
Condition 2.6	Environmental Management Organization Chart	18 May 2011
Condition 2.6	Commencement Date of Works	20 Jun 2011
Condition 2.9	Noise Management Plan	10 Jun 2011
Condition 2.11	Landscape Plan (Rev.1)	31 Oct 2013

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 non-pilling equipment	GW-RS0857-13	2 Aug 2013	15 Aug 2013 to 14 Feb 2014	Expired
	GW-RS1078-13	30 Sep 2013	18 Oct 2013 to 17 Apr 2014	Valid
	GW-RS1119-13	11 Oct 2013	16 Oct 2013 to 15 Apr 2014	Valid
	GW-RS1128-13	8 Oct 2013	11 Oct 2013 to 6 Apr 2014	Valid
	GW-RS0945-13	29 Aug 2013	11 Sep 2013 to 10 Mar 2014	Valid
	GW-RS0993-13	6 Sep 2013	20 Sep 2013 to 19 Mar 2014	Valid
	GW-RS1027-13	10 Sep 2013	15 Sep 2013 to 09 Mar 2014	Valid
	GW-RS1002-13	12 Sep 2013	25 Sep 2013 to 24 Mar 2014	Valid
	GW-RS1197-13	4 Nov 2013	10 Nov 2014 to 9 May 2014	Valid
	GW-RS1254-13	12 Nov 2013	17 Nov 2013 to 16 May 2014	Valid
	GW-RS1256-13	12 Nov 2013	22 Nov 2013 to 21 May 2014	Valid
	GW-RS1240-13	7 Nov 2013	28 Nov 2013 to 27 May 2014	Valid
GW-RE1199-13	6 Nov 2013	30 Nov 2013 to 29 May 2014	Valid	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1258-13	12 Nov 2013	17Nov 2013 to 06 May 2014	Valid
	GW-RS1261-13	12 Nov 2013	13 Nov 2013 to 06 May2014	Valid
	GW-RS1325-13	27 Nov 2013	30 Nov 2013 to 29 May 2014	Valid
	GW-RS1337-13	27 Nov 2013	29 Nov 2013 to 26 May 2014	Valid
	GW-RS1466-13	24 Dec 2013	17 Jan 2014 to 16 July 2014	Valid
	GW-RS1458-13	24 Dec 2013	2 Jan 2014 to 1 July 2014	Valid
	GW-RS0067-14	29 Jan 2014	15 Feb 2014 to 14 Aug 2014	Valid
	GW-RS0112-14	13 Feb 2014	16 Feb 2014 to 13 Aug 2014	Valid
Discharge Licenses	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	Cancelled
	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
Condition 2.7 and 2.8	Works Schedule and Location Plan	14 Jun 2011
Condition 2.6	Environmental Management Organization Chart	14 Jun 2011
Condition 2.6	Commencement Date of Works	21 Jun 2011
Condition 2.11	Landscape Plan (Revision B)	20 Nov 2012
Condition 2.9	Noise Management Plan (Revision A)	13 Jan 2012

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-RS1145-13	15 Oct 2013	04 Nov 2013 – 02 May 2014	Valid
	GW-RS1302-13	15 Nov 2013	18 Nov 2013 – 14 May 2014	Valid
	GW-RS1285-13	12 Nov 2013	14 Nov 2013– 07 May 2014	Valid
	GW-RS0820-13	19 July 2013	03 Aug 2013 to 02 Feb 2014	Expired
	GW-RS1118-13	04 Oct 2013	22 Oct 2013 to 21 Apr 2014	Cancelled
	GW-RS0053-14	21 Jan 2014	03 Feb 2014 to 01 Aug 2014	Valid
Discharge Licence	WT00012998-2012	25 May 2012	31 Jan 2016	Valid
	WT00013967-2012	17 Sep 2012	30 Sep 2017	Valid
	WT00014966-2013	08 Jan 2013	31 Jan 2018	Valid

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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. 5)	12 March 2012

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-RS1243-13	7 Nov 2013	09 Nov 2013 to 03 May 2014	Valid
	GW-RS0882-13	12 Aug 2013	14 Aug 2013 to 13 Feb 2014	Cancelled
	GW-RS0106-14	14 Feb 2014	16 Feb 2014 to 9 Aug 2014	Valid
	GW-RS1105-13	8 Oct 2013	10 Oct 2013 to 6 Apr 2014	Valid
	GW-RS1384-13	3 Dec 2013	4 Dec 2013 to 27 May 2014	Valid
	GW-RS1437-13	17 Dec 2013	31 Dec 2013 to 30 Jun 2014	Valid
GW-RS1491-13	27 Dec 2013	2 Jan 2014 to 30 Jun 2014	Valid	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	25 Sep 2013	17 Oct 2013 to 16 Jan 2014	Valid
Water Discharge License (TS1)	WT00008780-2011	24 Nov 2011	24 Nov 2011 to 31 Mar 2016	Valid
Water Discharge License (Discharge at CHT area)	WT00012941-2012	10 May 2012	10 May 2012 to 31 May 2014	Valid
Water Discharge License (Discharge at TS4)	WT00011718-2012	16 Jan 2012	16 Jan 2012 to 31 Jan 2014	Expired
Water Discharge License (Discharge at TS2)	WT00014974-2013	10 Jan 2013	10 Jan 2013 to 31 Jan 2015	Valid
Water Discharge License (Discharge at TPCWAE)	WT00018167-2014	17 Jan 2014	17 Jan 2014 to 31 Dec 2015	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 2.9	Noise Management Plan	6 May 2011
Condition 2.10	Landscape Plan	19 Oct 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
Application for Vessel Disposal	7012306	21 July 2011	N/A	Valid
Construction Noise Permit (CNP)	GW-RS1473-13	29 Dec 2013	29 Dec 2013 to 23 Jun 2014	Valid
	GW-RS1176-13	25 Oct 2013	25 Oct 2013 to 22 Apr 2014	Cancelled
	GW-RS0072-14	04 Feb 2014	06-Feb-14 to 02-Aug-14	Cancelled
	GW-RS0073-14	04 Feb 2014	06-Feb-14 to 02-Aug-14	Valid
	GW-RS1009-13	06 Sept 2013	09 Sep 0213 to 08 Mar 2014	Cancelled
	GW-RS1099-13	08 Oct 0213	21 Oct 2013 to 20 Apr 2014	Valid
	GW-RS1179-13	25 Oct 2013	22 Oct 2013 to 22 Apr 2014	Cancelled
	GW-RS1474-13	27 Dec 2013	29 Dec 2013 to 23 Jun 2014	Valid
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal)	EP/MD/14-128	30 Jan 2014	30 Jan 2014 to 30 Jun 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-116	20 Jan 2014	20 Jan 2014 to 19 Feb 2014	Expired
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal)	EP/MD/14-104	10 Dec 2013	10 Dec 2014 to 09 Jun 2014	Valid
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-127	20 Feb 2014	20 Feb 2014 to 19 Mar 2014	Valid
Water Discharge Licence	WT00010093-2011	31-Aug-11	30-Sep-16	Cancelled
	WT00010093-2011	17-Aug-12	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 2.13	Landscape Plan (Rev.2)	29 July 2012
Condition 2.9	Noise Management Plan (Rev.3)	15 March 2013

Contract no. HK/2010/06 - Wan Chai Development Phase II – Central –Wanchai Bypass over MTR Tsuen Wan Line

3.1.10. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-08/364/2009/A for contract no. HK/2010/06 showed in **Table 3.14** and **Table 3.15**.

Table 3.14 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2010/06

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-08/364/2009/A	15 June 2012	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP)	GW-RS-924-13	21 Aug 2013	27 Aug 2013 – 26 Feb 2014	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1435-13	19 Dec 2013	23 Dec 2013 – 30 Mar 2014	Valid

Table 3.15 Summary of submission status under FEP-08/364/2009

EP Condition	Submission	Date of Submission
	Acknowledgement letter of FEP-08/364/2009A	14 Aug 2012
Condition 2.9	Noise Management Plan	26 Nov 2012

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

3.1.11 The current status on licences and/or permits on environmental protection pertinent and submission under FEP-09/264/2009/B for contract no. HK/2012/08 showed in **Table 3.16 and Table 3.17**

Table 3.16 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid

Table 3.17 Summary of submission status under FEP-09/364/2009

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.2)	9 July 2013
Condition 2.14	Landscape Plan (Rev.1)	30 May 2013

Contract no. HY/2010/08 –Central – Wanchai Bypass Tunnel – Tunnel (Slip Road 8)

3.1.12 The current status on licences and/or permits on environmental protection pertinent and submission under FEP-09/264/2009/B for contract no. HK/2012/08 showed in **Table 3.18 and Table 3.19**

Table 3.18 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-10/364/2009/B	2013-07-26	NA	Valid
Notification of Works Under APCO	357176	2013-04-02	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C1169-44	2013-03-27	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	2013-03-27	NIL	Valid
Water Discharge License	WT0001651-2013	2013-07-09	2018-07-28	Valid
Construction Noise Permit (CNP) for non-pilling works	GW-RS1363-13	2013-12-02	2013-12-10 to 2014-06-09	Valid
	GW-RS1376-13	2013-12-03	2013-12-09 to 2014-06-02	Valid
	GW-RS0971-13	2013-09-04	2013-09-04 to 2014-03-03	Cancelled
	GW-RS1017-13	2013-09-10	2013-09-15 to 2014-03-09	Cancelled
	GW-RS1089-13	2013-09-30	2013-10-02 to 2014-04-01	Cancelled
	GW-RS0094-14	2014-02-11	16 Feb 2014 to 16 Jul 2014	Valid
Construction Noise Permit (CNP) for pilling works	PP-RS0032-13	2013-12-20	2 Jan 2014 to 30 Jun 2014	Valid

Table 3.19 Summary of submission status under FEP-10/364/2009

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.3)	03 January 2014
Condition 2.14	Landscape Plan (Rev.1)	20 August 2013

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)
*M8	City Hall

* Remark 1: Location ID has been updated from M7 to M8 for City Hall

* Remark 2: M7e has become a reference station starting from 7 Aug 2012

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 Whitfield Depot
North Point	RTN2a	Electric Centre
North Point	RTN3	Po Leung Kuk Yu Lee Mo Fan Memorial School
Tin Hau	RTN4	Causeway Bay Community 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 will be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

Air Monitoring

AIR QUALITY MONITORING STATIONS

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

Table 4.3 Air Monitoring Stations

Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	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.

Remarks**: The location ID of monitoring station CMA1b was updated as “Oil Street Site Office” in April 2013.

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 designated 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)
- Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange
- Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- Contract no. HY/2010/08 – Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
- 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
- Contract no. HK/2010/06 - Wan Chai Development Phase II – Central - Wan Chai Bypass over MTR Tsuen Wan Line
- Contract no. HK/2012/08 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West

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 Monitoring for report of review baseline noise level was performed from 11 April 2011 to 8 June 2011. Then the report was submitted on the 20 June 2011, verified by IEC on 18 July 2011 and was approved by ER by January 2012. The new baseline is used for the noise calculation starting from January 2012.

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

5.1.2 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 5.1** below:

Table 5.1 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)
M8	City Hall

* Remark: M7e has become a reference station starting from 7 Aug 2012

5.1.3 No action or limit level exceedance was recorded in this reporting month.

5.1.4 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.

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

5.1.5 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 5.2** below.

Table 5.2 Noise Monitoring Station for Contract no HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

5.1.6 No action or limit level exceedance was recorded in this reporting month.

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**.

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

5.1.8 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 5.3** below.

Table 5.3 Noise Monitoring Stations for Contract no. HY/2009/15

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

5.1.9 No action or limit level exceedance was recorded in this reporting month.

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**.

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

5.1.11 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 5.4** below.

Table 5.4 Noise Monitoring Stations for Contract no. HY/2009/19

Station	Description
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

5.1.12 Three limit level exceedances were recorded on 13, 20 and 25 February 2014 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month.

5.1.13 Major traffic noise observed during monitoring on 13, 20 and 25 February 2014 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.

5.1.14 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/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Raod 8 Section) under FEP-09/364/2009/B

5.1.15 The commencement of construction works for Contract no. HY/2010/08 under FEP-10/364/2009/B was on 02 September 2013. Noise monitoring was commenced on 02 September 2013. The proposed divisions of noise monitoring stations are summarized in **Table 5.5** below.

Table 5.5 Noise Monitoring Stations for Contract no. HY/2010/08

Station	Description
M3a	Tung Lo Wan Fire Station

5.1.16 No action or limit level exceedance was recorded in this reporting month.

5.1.17 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. As confirmed by CWB RSS, the IECL parapet removal operations and associated construction work will commence in June 2013. Liaison was conducted with HK Baptist Church Henrietta Secondary School, Po Leung Kuk Yu Lee Mo Fan Memorial School and Causeway Bay Community Centre regarding the set up of RTN3 real time noise monitoring station.

5.2.2. Causeway Bay Community Centre has granted permission for set up on 21 Dec 2012 and station set up was performed on 27 Dec 2012. The baseline noise level of RTN4- Causeway Bay Community Centre will adopt the results from the baseline noise monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.

5.2.3. Real time noise monitoring at RTN4-Causeway Bay Community Centre was commenced on 13 Jan 2013.

5.2.4. Po Leung Kuk Yu Lee Mo Fan Memorial School grant permission for set up on 4 Sep 2012 and station set up was performed on 14 Sep 2012. Real time noise baseline capturing was conducted during time period without construction work from 21 Sep 2012 to 04 Oct 2012.

5.2.5. Real time noise monitoring at RTN3 – Po Leung Kuk Yu Lee Mo Fan Memorial School was commenced since 06 Oct 2012.

5.2.6. Oil Street Community Liaison Centre was confirmed to be demolished in mid-October by CWB RSS. This presented a need for relocation of RTN2 – Oil Street Community Liaison Centre. After liaison with Hong Kong Electric, permission was granted on 21 Sep 2012 for real time noise monitoring set up at City Garden Electric Centre (RTN2a – Electric Centre), which is a representative of the noise sensitive receiver City Garden.

- 5.2.7. RTN2 previously located at oil Street Community Liaison Centre was relocated to Hong Kong Electric Centre on 5 Oct 2012, which is a representative of the noise sensitive receiver City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted at Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.8. Real-time noise monitoring station RTN1-FEHD Whitfield Depot was finely adjusted from 2/F to roof-top at FEHD Whitfield Depot on 24 June 2013 with respect to the commencement of advance works for IEC parapet demolition.

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

- 5.2.9. 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 Whitfield Depot
RTN2a	North Point	Electric Centre
RTN3	North Point	Po Leung Kuk Yu Lee Mo Fan Memorial School
RTN4	Tin Hau	Causeway Bay Community Centre

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

**Real-time noise monitoring results and graphical presentation for RTN3 during restricted hours are for information only as no night classes were conducted at the educational institute.*

- 5.2.10. Limit level exceedances were recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot during restricted hours on 1 Feb 2014 in the reporting month. After checking with contractor, no major noisy construction activities were conducted at the concerned location during the recorded period. As such, the exceedances were considered as non-project related and contributed by the Chinese New Year pyrotechnic display.
- 5.2.11. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 29 January 2014 and 18 February 2014 and during restricted hours on 1 and 18 February 2014. After checking with contractor, no noisy construction activities were conducted at the concerned location during daytime on 29 January 2014 and 18 February 2014 and no construction activities were conducted at the concerned location during restricted hours on 1 February 2014 and 18 February 2014. As the exceedances were non-continuous, the exceedances were considered as non-project related and contributed by nearby IEC traffic and nearby non-CWB Project.
- 5.2.12. Limit level exceedances were recorded at RTN3-Yue Lee Mo Fan Memorial School during daytime on 28 January 2014. After checking with contractor, no major noisy construction activities were conducted at the concerned location during the recorded period. As such, the exceedance were considered as non-project related and contributed by nearby IEC traffic.

- 5.2.13. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre during restricted hours on 1 February 2014 in the reporting month. After checking with contractor, no major noisy construction activities were conducted at the concerned location by the Contractor during the recorded period. As such, the exceedances were considered as non-project related and contributed by Chinese New year pyrotechnic display.
- 5.2.14. 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/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- 5.3.1 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)

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

Contract no. 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

- 5.3.3 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

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

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

5.3.5 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

5.3.6 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

5.3.7 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

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

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

5.3.9 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 Street Site Office
CMA2a	Causeway Bay Community Centre

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

5.4 Waste Monitoring Results

Contract no. 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

5.4.1. Inert C&D wastes and non-inert C&D wastes were disposed 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	78.4	53202.985	TKO137, TM38
Inert C&D materials recycled	Nil	10104.5	N/A
Non-inert C&D materials disposed	4.28	1535.33	SENT Landfill
Non-inert C&D materials recycled	Nil	205943	N/A
Chemical waste disposed	Nil	10350	N/A

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

5.4.2. Inert C&D & non-inert C&D wastes were 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	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	2324.975	255541.662	TKO137 / TM 38
Inert C&D materials recycled, m ³	Nil	18161	n/a
Non-inert C&D materials disposed, m ³	37.293	1344.993	SENT Landfill
Non-inert C&D materials recycled, m ³	Nil	N/A	N/A
Chemical waste disposed, kg	Nil	12071	SENT Landfill

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

5.4.3. 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, (m3)	Cumulative-to-Date, (m3)	Disposal / Dumping Grounds
Inert C&D materials disposed	547	103084	T.K.O. 137, TM 38
Inert C&D materials recycled	101	56574	N/A
Non-inert C&D materials disposed	81	1879	SENT Landfill
Non-inert C&D materials recycled (tonnes)	0.03	82.48	N/A
Chemical waste disposed (kg)	Nil	4440	N/A

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

5.4.4. 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 Quantity-to-Date(m ³)	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	194.39 64.29	489774.99 242937.71	Tuen Mun Area 38 TKO137 FB
Inert C&D materials recycled, m ³	Nil	271828.5	HY/2009/11 ex-PCWA TS4 /TS2 WDII Lun Ku Tan
Non-inert C&D materials disposed, m ³	102.42	1603.38	SENT Landfill
Non-inert C&D materials recycled, m ³	800	547054.2	Xun Xiang Metalware Skylight Recycle (paper)
Chemical waste disposed, kg	Nil	21955	Dunwell Group

Waste Type	Quantity this month(m ³)	Cumulative Quantity-to-Date(m ³)	Disposal / Dumping Grounds
Marine Sediment (Type1-Open Sea Disposal (Dedicate Sites) &Type 2 – Confined Marine Disposal), m ³	Nil	5684	South of the Brothers

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

5.4.5. Inert and Non-inert C&D wastes were 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	6662.62	473080.69	N/A
Inert C&D materials recycled	Nil	62104.43	N/A
Non-inert C&D materials disposed	15.34	1091.17	SENT Landfill
Non-inert C&D materials recycled	5.63	352.04	N/A
Chemical waste disposed	0.13	5.96	N/A
Dumping Permit (Tunnel) (Type-1 Open Sea Disposal), m ³	2034	2961	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), m ³	3462	10730	East of Sha Chau

Contract no. HK/2010/06 Wan Chai Development Phase II - Central-Wan Chai Bypass over MTR Tsuen Wan Line under FEP-08/364/2009/A

5.4.6. No inert and Non-inert C&D wastes were disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.20**.

Table 5.20 Details of Waste Disposal for Contract no. HK/2010/06

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	TM38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	12.5	303.6	SENT
Non-inert C&D materials recycled	NIL	5070	Recyclers
Chemical waste disposed	Nil	0.2	N/A

Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

5.4.7. No inert and Non-inert C&D wastes were disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.21**.

Table 5.21 Details of Waste Disposal for Contract no. HK/2012/08

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

Contract no. HY/2010/08 Central – Wan Chai Bypass (CWB) – Tunnel (Slip Road 8) under FEP-10/364/2009/B

5.4.8. No inert and Non-inert C&D wastes were disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.22**.

Table 5.22 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	747 31	3044.4 69.029	TM 38 TKO area 137
Inert C&D materials recycled	Nil	Nil	Nil
Non-inert C&D materials disposed	42	341	SENT
Non-inert C&D materials recycled	Nil	Nil	Nil
Chemical waste disposed	30	60	Nil

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/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

6.1.1. 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 Exhibition Centre – Tunnel Works under FEP-02/364/2009

6.1.2. 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

6.1.3. No exceedance was recorded in the reporting month.

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

6.1.4. 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

6.1.5. Three limit level exceedances were recorded on 13, 20 and 25 February 2014 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Investigations found that on 13, 20 and 25 February 2014, traffic noise was major contribution in the noise monitoring and exceedances were not related to the Project.

Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Road 8 Section) under FEP-10/364/2009/B

6.1.6. No exceedance was recorded in the reporting month.

Real Time Noise Monitoring

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. Limit level exceedances were recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot during restricted hours on 1 Feb 2014 in the reporting month. After checking with contractor, no major noisy construction activities were conducted at the concerned location during the recorded period. As such, the exceedances were considered as non-project related and contributed by the Chinese New Year pyrotechnic display.
- 6.1.8. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 29 January 2014 and 18 February 2014 and during restricted hours on 1 and 18 February 2014. After checking with contractor, no noisy construction activities were conducted at the concerned location during daytime on 29 January 2014 and 18 February 2014 and no construction activities were conducted at the concerned location during restricted hours on 1 February 2014 and 18 February 2014. As the exceedances were non-continuous, the exceedances were considered as non-project related and contributed by nearby IEC traffic and nearby non-CWB Project.
- 6.1.9. Limit level exceedances were recorded at RTN3-Yue Lee Mo Fan Memorial School during daytime on 28 January 2014. After checking with contractor, no major noisy construction activities were conducted at the concerned location during the recorded period. As such, the exceedance were considered as non-project related and contributed by nearby IEC traffic.
- 6.1.10. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre during restricted hours on 1 February 2014 in the reporting month. After checking with contractor, no major noisy construction activities were conducted at the concerned location by the Contractor during the recorded period. As such, the exceedances were considered as non-project related and contributed by Chinese New year pyrotechnic display.

6.2 Air Monitoring

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

- 6.2.1. 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

- 6.2.2. 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

- 6.2.3. 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

- 6.2.4. 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 non-compliance was recorded from the site audits 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/B, 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. According to the Monthly EM&A report (January 2014) of Central Reclamation Phase III (CRIII) for Contract HK 12/02, minor modification works at completed footpath and at Road P2/D7 pedestrian crossing were performed in February 2014 reporting month. The water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II were marine works at HKCEC areas, cross-harbour Watermains, Fresh Watermains and Cooling Watermains Installations, tunnel works at Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were tunnel construction at TS4 and tunnel construction and dismantling of struts at TPCWAE. Bridge construction and tunnel works at Central Interchange, ELS segment launching works and tunnel works at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activities were tunnel works at TS2, ELS work and tunnel construction at TS4 and tunnel construction and dismantling of struts at TPCWAE, tunnel works at Central and ELS work at North Point and tunnel works at Wan Chai East in the reporting month.
- 7.0.4. The major environmental impacts generated from tunnel works at Central and tunnel works at Wan Chai East, IECL and Causeway Bay Typhoon Shelter were undertaken in the reporting month. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project-related exceedances were recorded during the air and noise 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 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/2009/18, HY/2009/19, HK/2012/08, HK/2009/01, HK/2009/02, HY/2010/08 and HK/2010/06. No non-conformance was identified during the site audits. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

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
140204_02	4-Feb-14	Clear the leaked oil as chemical waste and provide proper maintenance to machinery (TS4)	The leaked oil was cleared as chemical waste.	Completion as observed on 11 Feb 2014
140211_01	11-Feb-14	Improve the oil connection point to prevent leakage and clear the leaked oil as chemical waste	Oil connection point have been improved	Completion as observed on 18 Feb 2014
140218_01	18-Feb-14	Provide embankment protection near surface collection point leading to public drain	Embankment protection have been provided.	Completion as observed on 5 March 2014
140225_01	25-Feb-14	Leaked oil should be cleared as chemical waste (TS2)	Leaked oil was cleared as chemical waste.	Completion as observed on 4 March 2014
140225_02	25-Feb-14	Silt Curtain should be properly deployed to enclose the works area for filling works at EVA (TS1)	The condition of silt curtain deployed have been improved	Completion as observed on 4 March 2014
140225_03	25-Feb-14	Clear the floating scum and removed the damaged silt curtain to prevent entrapment of scum (TS4/ Ex-PCWA)	Floating scum have been removed	Completion as observed on 4 March 2014

8.0.3. Four site inspections for Contract no. HY/2009/18 was carried out during this reporting period. **No observation was found in the reporting month.**

8.0.4. Four site inspections for Contract no. HY/2009/19 was carried out during this reporting period. **No observation was found in the reporting month.**

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
1400212_01	12-Feb-14	Water should be treated prior to discharge (Bay 8 &9)	Water was directed to sedimentation tank prior to discharge	Completion as observed on 26 Feb 2014
140220_01	20-Feb-14	Stockpile should be properly covered or sprayed with water more frequently (Water Channel , Bay8)	Covering was provided	Completion as observed on 26 Feb 2014
140220_02	20-Feb-14	Oil spill was observed, excavator should be properly maintained to prevent oil spill (Bay8)	The excavator with oil spill was removed	Completion as observed on 26 Feb 2014
140220_03	20-Feb-14	Drip tray should be properly plugged to prevent spillage of oil. (Expo drive East)	Plug was provided	Completion as observed on 26 Feb 2014
140226_01	26-Feb-14	Oil should be prevented from dropping on the ground. (Expo Drive East)	The excavator with oil spill was removed	Completion as observed on 5 March 2014
140226_02	26-Feb-14	Open burning activity should be prohibited (Expo Drive East & Conventional Avenue Junction)	Opening burning activities was ceased.	Completion as observed on 5 March 2014

8.0.6. Five 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
140213_01	13-Feb-14	Properly measure should be provided for preventing filling material falling into the sea (TWCR4)	A tarpaulin sheeting was provided to prevent drop off.	Completion as observed on 19 Feb 2014

8.0.7. Four site inspections for Contract no. HK/2010/06 was carried out during this reporting period. No observation was found in the reporting month.

8.0.8. Four site inspection for Contract no. HK/2012/08 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.7**

Table 8.7 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
140218_01	18-Feb-14	The silt curtain should be maintained properly to prevent dispersion of sediments.	The silt curtain was properly maintained.	Completion as observed on 25 Feb 2014.

8.0.9. Five site inspection for Contract no. HY/2010/08 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.8**

Table 8.8 Summary of Environmental Inspections for Contract no. HY/2010/08

Item	Date	Observations	Action taken by Contractor	Outcome
140206_01	6-Feb-14	Provide wheel washing combined with cleaning of public road if necessary (Victoria Park Road)	No further silt trail was observed at exit and wheel washing is provided	Completion as observed on 14 Feb 2014
140227_01	27-Feb-14	Material should be avoid placing near tree roots area	Material have been removed	Completion as observed on 6 March 2014

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No environmental complaints were received in the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 9.1** and **Table 9.2** respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
February 2014	0
Sep 2010 – Jan 2014	27
Total	27

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	<ul style="list-style-type: none"> • Tunnel construction at TS2, TS4 & TPCWAE • Dismantling of struts at TS4 & TPCWAE • Mined Tunnel drill-and-break works and installation of steel ribs at East and West Portal. • Mined tunnel lining construction 	<ul style="list-style-type: none"> • Dust control during dust generating activities • Noise control measures shall be provided during restricted hours • Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea
HY/2009/18	<ul style="list-style-type: none"> • Excavation of trial pit • Drainage works • Tunnel works including scaffolding erection, excavation, OHVD installation, roadside barriers, top and base slab construction, extract sheet pile, waterproofing and backfill • Trough structure construction and associated drilling and grouting • Road works • Bridges construction 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing the breaking operation rate. • Dust control during dust generating activities • Provide protection works to ensure no runoff out of site area or direct discharge into public drainage system. • Appropriate plants and measures should be taken to ensure adequate protections are provided for trees being transplanted.

<p>HY2009/19</p>	<ul style="list-style-type: none"> • Road works at Watson Road • Bored piling (Land) • Removal of strut at ELS • Construction of Pile cap, column and cross-head (Land) • Removal of marine platform • Construction of Dolphin Cap • ELS, EVB and Cut & Cover Tunnel • Installation of dewatering well • Laying of 1500ϕ pipe • Launching of segments • Extraction of temporary pile from marine section • Construction of bridge TA1 • Pre-bored H-pile for Admin. Building 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing the breaking operation rate. • Noise barrier shall be implemented • Dust control during dust generating works • Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.
<p>HK2009/01</p>	<ul style="list-style-type: none"> • Preparation works for the new temporary road at Expo Drive East • Temporary utilities diversion at the new reclaimed area • Installation of pre-bored H-piles at 4th row & ED (total 38 nos. piles) • Remaining D-wall construction at tunnel south (13 nos. panels) • Excavation for stage 1 down to - 10 mPD • Tunnel structure works • Base slab construction at Bay 5. 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing no. of plants working in parallel. • Well maintained enclosures for grouting mixing plants. • Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea. • Dust control during dust generating works

<p>HK/2009/02</p>	<ul style="list-style-type: none"> • Complete all tunnel structure. • Pre-grouting and guide wall at TWCR4 area. • Bored pile construction those in the vicinity of Bridge 1 & 2 under Hung Hing Road Flyover Diversion (Stage 2) and continue others bored pile construction at Tunnel Portion 3 & 4. • Mini-piling works for foundation of Bridge 3 under Hung Hing Road Flyover Diversion (Stage 2) and complete mini-pile loading test at pile no. M07 in early Mar 14. • Concrete deck and steel deck on existing Box Culvert O Bay 17 – Bay 19. • Mobilization for D-Wall construction at Tunnel Portion 3 & 4 and complete the preparation works for D-wall construction at Panel Nos. C130A – P131, P144 – P146 and P147 – P154 including pre-grouting. • Existing 450mm storm water drain diversion. • D-wall construction along Hung Hing Road slow lane. • D-wall construction at Tunnel Portion 6. 	<ul style="list-style-type: none"> • Dust control during dust generating works • Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.
<p>HK/2010/06</p>	<ul style="list-style-type: none"> • Repair and installation of slotted panels • Installation of protection layer for precast unit 	<ul style="list-style-type: none"> • Dust control during dust generating works.
<p>HK/2012/08</p>	<ul style="list-style-type: none"> • Site preparation works • Site survey 	<ul style="list-style-type: none"> • Dust control during dust generating works

HY/2010/08	<ul style="list-style-type: none"> • Tree & root pruning works • Tree removal works, • Tree transplanting works, • Tree works within off-site nursery compound, • Drainage improvement works, • Sheet piling works, • Demarcation of graphics, • Pipe pile & pre-boring works, • Re-provisional of turtle pond, • Loop detector installation works & • UMP installation works. 	<ul style="list-style-type: none"> • Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system. • Appropriate plants and measures should be taken to ensure adequate protections are provided for trees being transplanted and retained on site.
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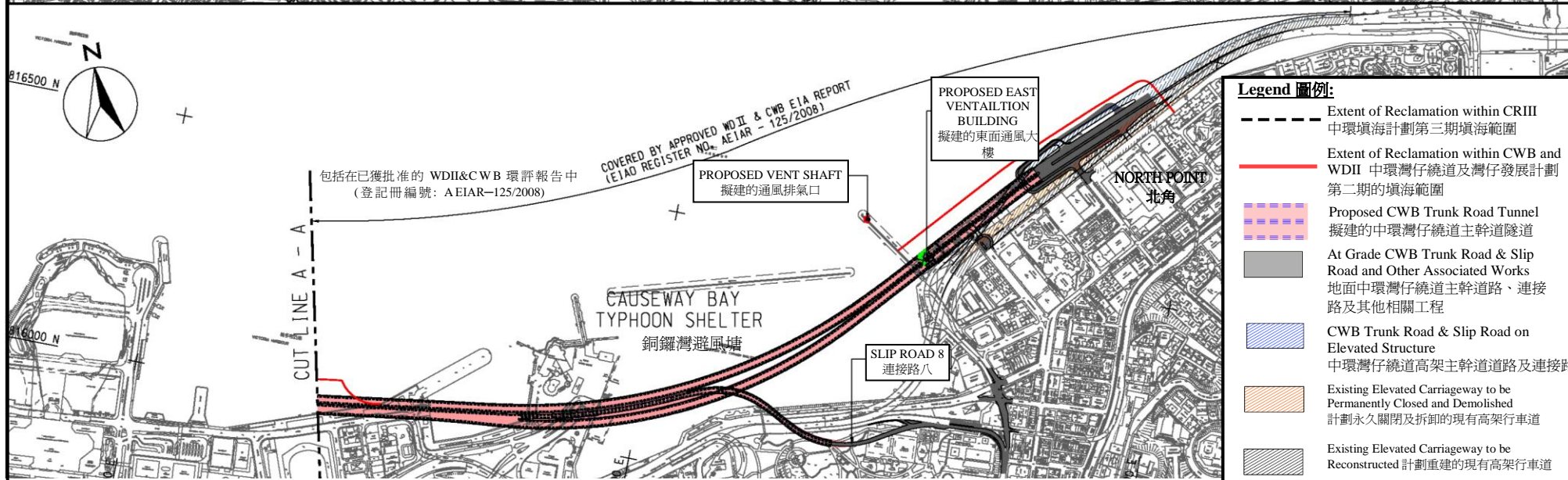
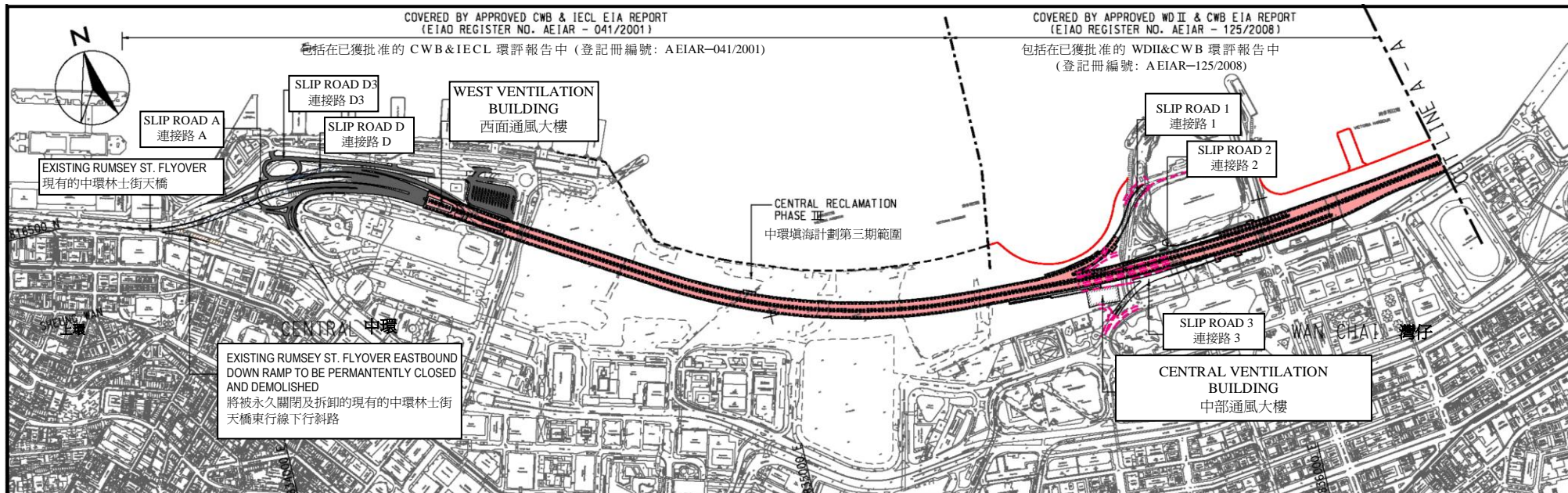
10.0.3. The construction works of Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A was completed, and the FEP was surrendered by the Contractor on 11 February 2011.

10.0.4. The construction works of Contract no. HY/2009/17 - Advance piling works at Whitfield Depot under FEP-03/264/2009 was completed, and the FEP was surrendered by the Contractor and found in order by EPD on 25 April 2013.



Figure 2.1

Project Layout



Legend 圖例:

- Extent of Reclamation within CR III
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

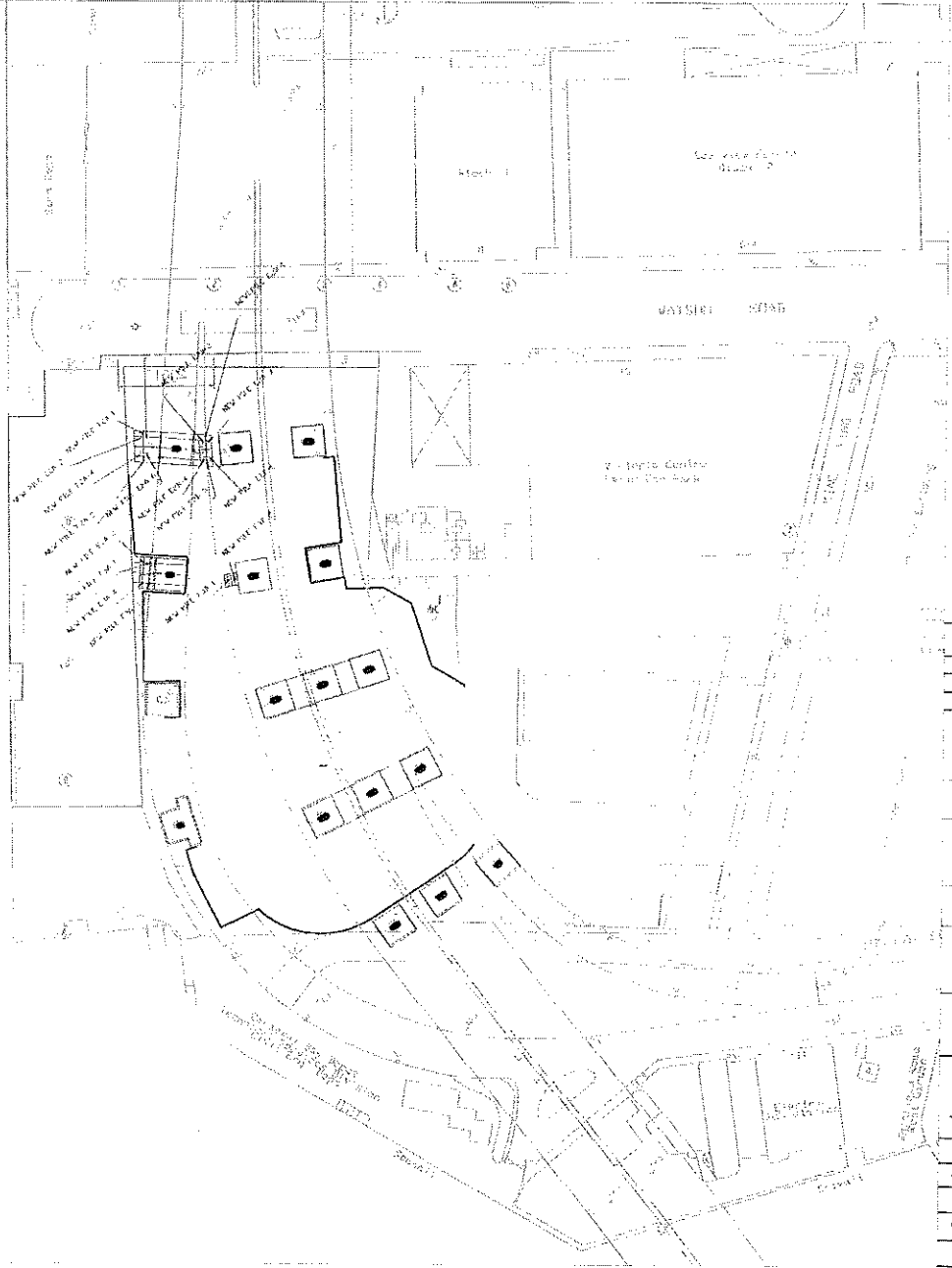


Project Title: Central-Wanchai Bypass (CWB) Including Its Road Tunnel and Slip Roads
 工程項目名稱：中環灣仔繞道包括其行車隧道及連接路

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


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

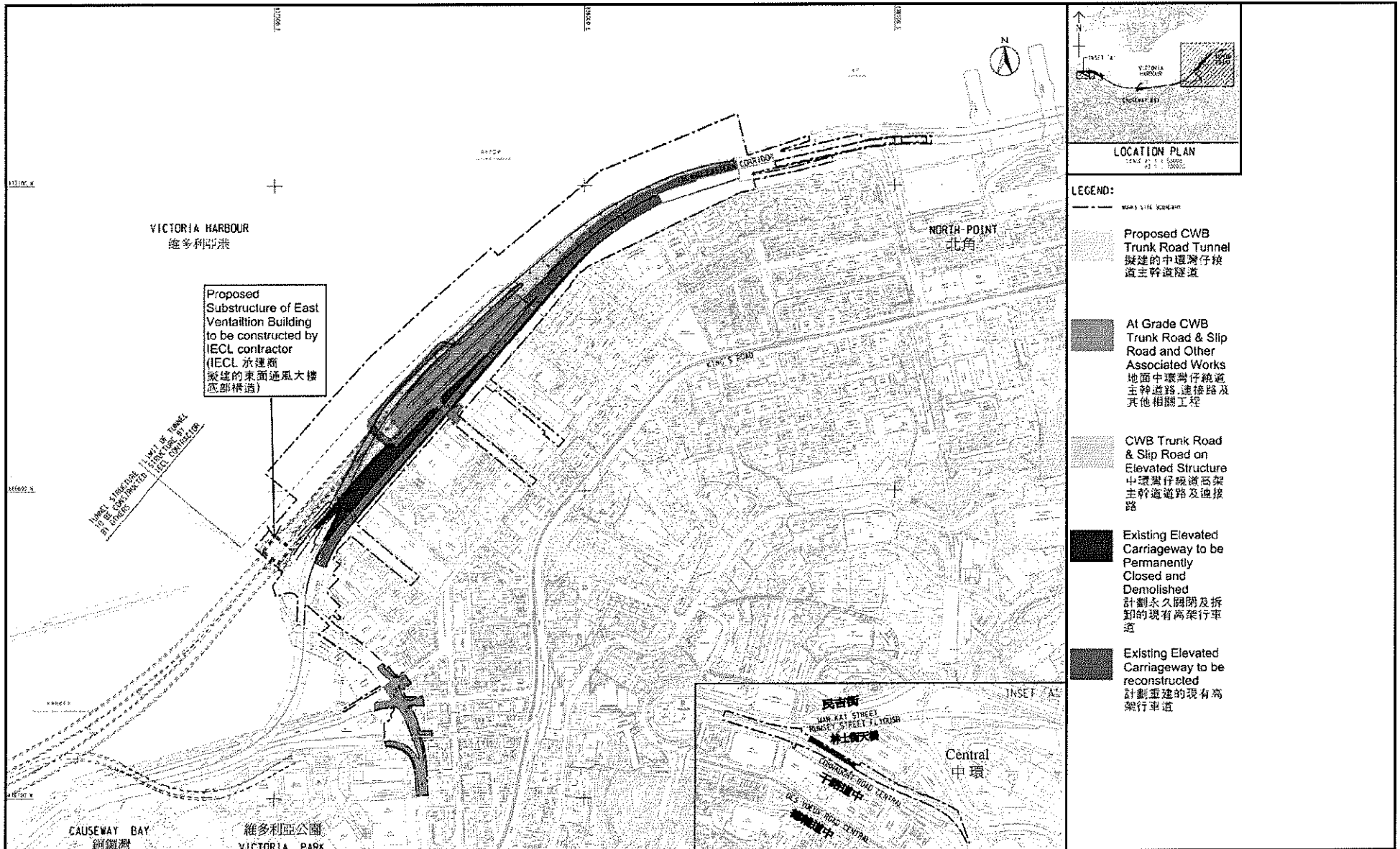
(This figure was prepared based on Figure 1.1 of the Application for Environmental Permit (Application No.: AEP-364/2009))
 (本圖是根據環境許可證的申請(申請書編號 AEP-364/2009 圖 1.1 編製)



Drawn and checked by: KUNG WING CHUN

10/10/13

REV.	DATE	DESCRIPTION	CHK BY	AUTH BY
Highways Department 路政署 Major Works Project Management Office 重大工程處				
CENTRAL - WAN CHAI BYPASS AND IEC LINE				
PWP ITEM NO. 工程項目編號		679 TH		
Project: CENTRAL - WAN CHAI BYPASS - FGD WAREHOUSE RE-PROCESSED ROADS				
				
Drawing Title: 工程圖名: 中央灣仔繞道及電氣線				
Contractor: LAM WOO & COMPANY LIMITED				
DRAWING NO. 001				
SURVEY DATE 2013				
DRAWN BY KUNG				
CHECKED BY				
SCALE	1:1	SHEET	1	



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

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

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



Figure 2.2

Project Organization Chart



Project Organization Chart

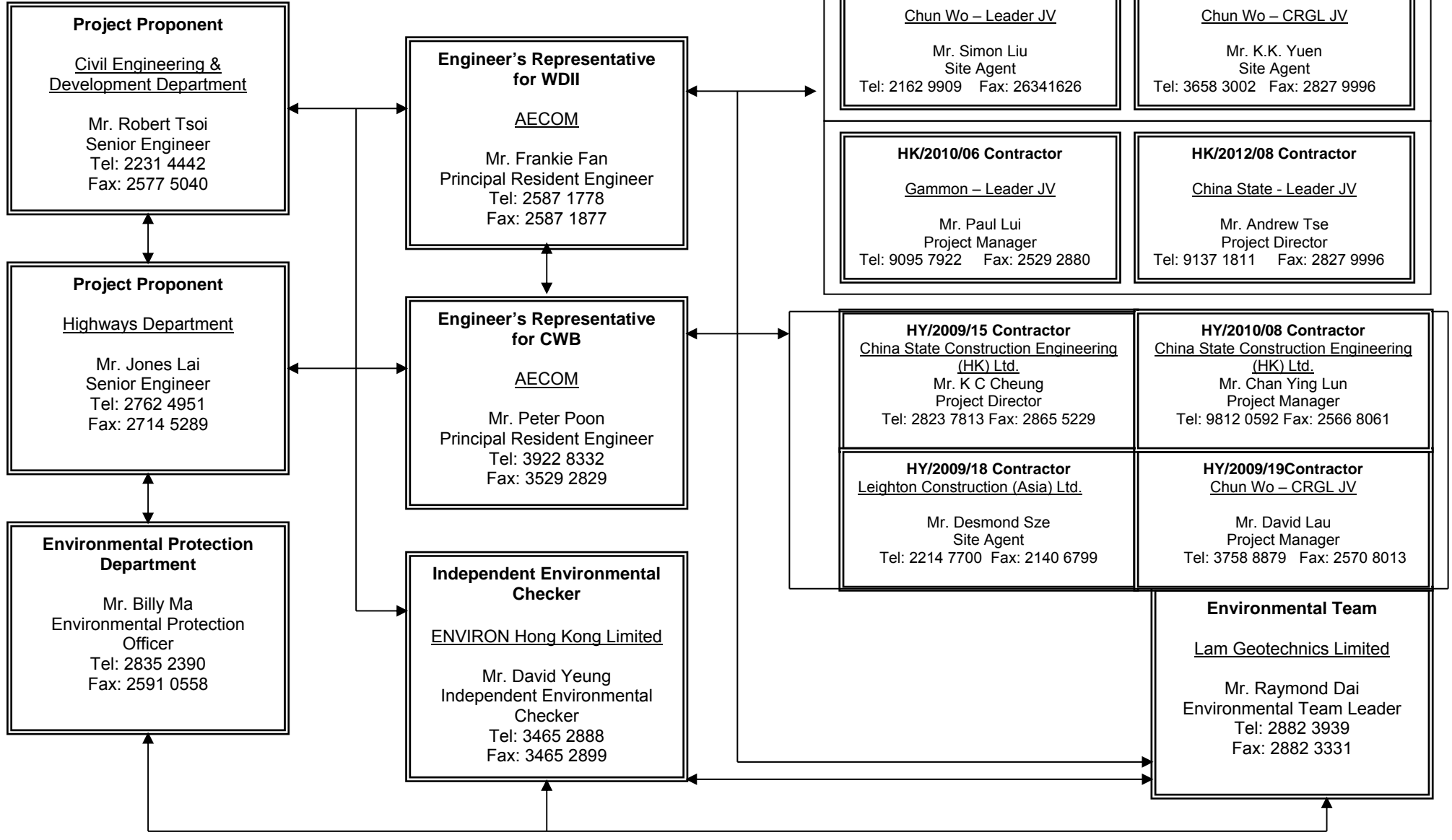
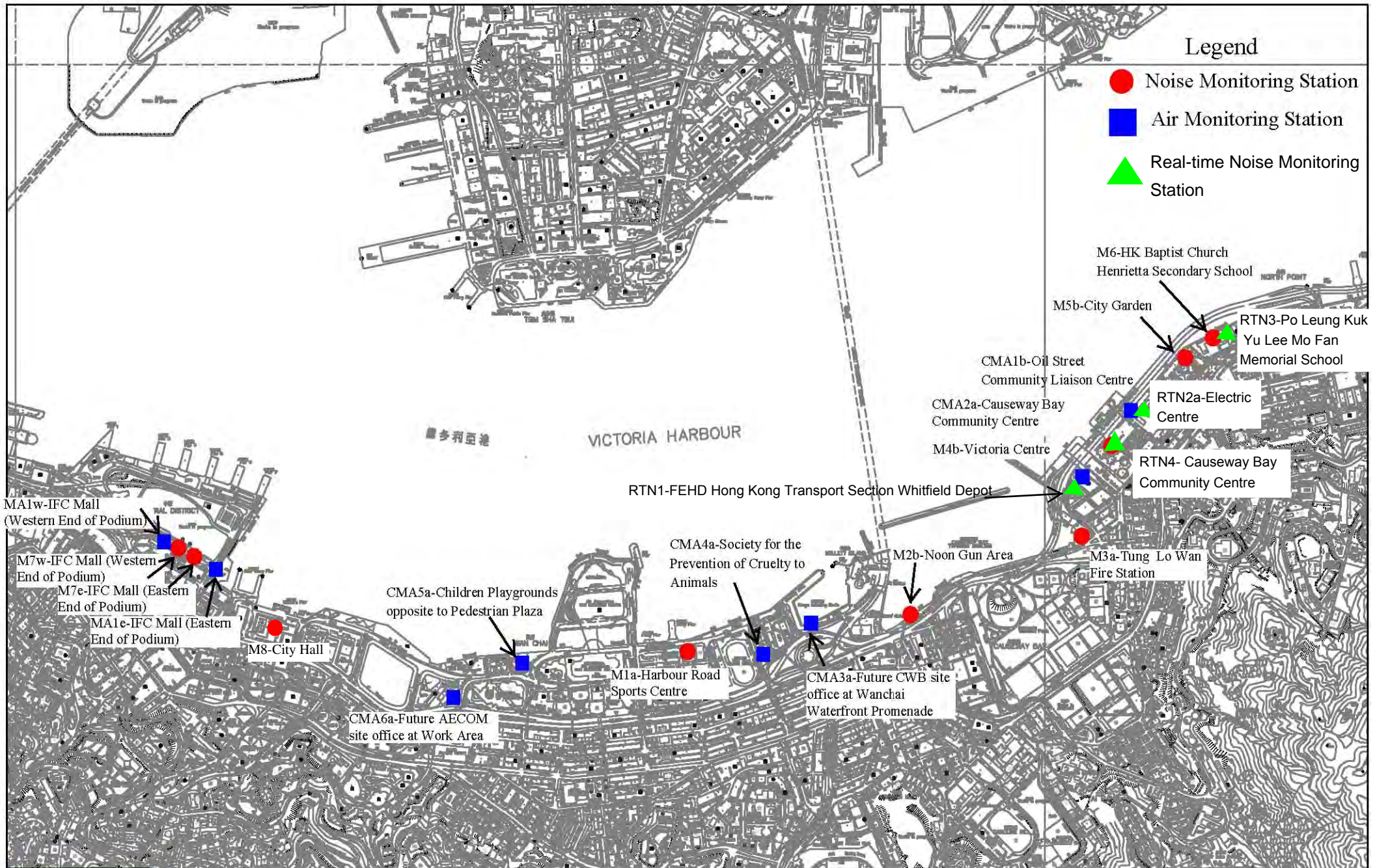




Figure 4.1

Locations of Monitoring Stations



Location plan of Environmental Monitoring Stations



Appendix 3.1

Environmental Mitigation Implementation Schedule

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES**Table A.1 Implementation Schedule for Air Quality Control**

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. <ul style="list-style-type: none"> 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	<p>Good Site Practice:</p> <ul style="list-style-type: none"> 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	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> At-grade road construction Substructure for IECL connection 							
Operation Phase								
S4.8.12 – S4.8.23	<p>For Existing NSRs</p> <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> • 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	<p>Floating Refuse</p> <p>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.</p>	Work site / During the construction period	Contractor		√			
S6.6.1	<p>Good Site Practices</p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> • 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	<p><i>Waste Reduction Measures</i></p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p><i>General Refuse</i></p> <p>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.</p> <p>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.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	<p><i>Chemical Wastes</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			<p>Waste Disposal (Chemical Waste) (General) Regulation</p> <p>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</p>
S6.6.6	<p><i>Construction and Demolition Material</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDH & 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	<p><i>Bentonite Slurry</i></p> <p>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:</p> <ul style="list-style-type: none"> • 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
CMA3a	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5a	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. 33624

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q31494

Date of receipt : 30-May-13

Item Tested

Description : Digital Sound Level Meter

Manufacturer : B&K

Model : Type 2236

Serial No. : 2100736

Test Conditions

Date of Test : 3-Jun-13

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>
S017	Multi-Function Generator	C127181	SCL-HKSAR
S024	Sound Level Calibrator	30620	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 : 
Liam Wong

Approved by : 
Dorothy Cheuk

Date: 3-Jun-13



Calibration Certificate

Certificate No. 33624

Page 2 of 4 Pages

Results :

1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Parameter	Frequency Wt.	Freq. Response		
20 - 100	SPL	dBA	F	94.0	93.8
			S		93.8
		dBC	F		93.8
		dBL	F		93.9
		1 kHz	F		93.8
40 - 120	SPL	dBA	F	94.0	93.9
		1 kHz	F		93.9
	SPL	dBA	F	114.0	113.8
			S		113.8
		dBC	F		113.9
		dBL	F		113.9
1 kHz	F	113.8			

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 : ± 0.1 dB

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.9	0.0	± 0.7 dB
130	104.0	103.9	0.0	
120	94.0	93.9 (Ref.)	--	
110	84.0	83.9	0.0	
100	74.0	73.9	0.0	
100	64.0	63.9	0.0	
100	54.0	53.9	0.0	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. **33624**

Page 3 of 4 Pages

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.9	0.0	± 0.4 dB
	94.0	93.9 (Ref.)	- -	
	95.0	94.9	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	-39.6	- 39.4 dB, ± 1.5 dB
63 Hz	-26.4	- 26.2 dB, ± 1.5 dB
125 Hz	-16.3	- 16.1 dB, ± 1 dB
250 Hz	-8.8	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.2	+ 1.2 dB, ± 1 dB
4 kHz	+0.9	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-6.8	- 6.6 dB, + 3 dB ~ -∞

Uncertainty : ± 0.1 dB

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.9	± 0.5 dB
1/10 ²	40.0	39.8	
1/10 ³	40.0	39.7	± 1.0 dB
1/10 ⁴	40.0	39.5	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 33624

Page 4 of 4 Pages

6. Filter Response

Filter Setting	Attenuation (dB)	IEC 1260 Class 1 Spec.
125 Hz	-63.6	< - 61
250 Hz	-44.8	< - 42
500 Hz	-21.0	< - 17.5
707 Hz	-3.7	- 2 ~ - 5
1 kHz (Ref.)	0.0 (Ref.)	--
1.414 kHz	-4.1	- 2 ~ - 5
2 kHz	-21.4	< - 17.5
4 kHz	-45.0	< - 42
8 kHz	-63.9	< - 61

Uncertainty : ± 0.2 dB

Remark : 1. UUT : Unit-Under-Test

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

3. Atmospheric Pressure : 996 hPa

4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----



Calibration Certificate

Certificate No. **34228**

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q31610

Date of receipt : 21-Jun-13

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73

Serial No. : 10707358

Test Conditions

Date of Test : 25-Jun-13

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

Test Results

All results were within the manufacturer's specification.

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

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	30259	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	30620	NIM-PRC & SCL-HKSAR
S041	Universal Counter	28347	SCL-HKSAR
S206	Sound Level Meter	30655	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 :


Liam Wong

Approved by :


Dorothy Cheuk

Date: 25-Jun-13

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

The copyright of this certificate is owned by Hong Kong Calibration Ltd.. It may not be reproduced except in full.



Calibration Certificate

Certificate No. 34228

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	93.88 dB	± 1 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.995 kHz	± 2 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.2 %

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 were the mean of 3 measurements.

4. Atmospheric Pressure : 999 hPa

----- END -----



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AIR POLLUTION MONITORING EQUIPMENT
 ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 15, 2013 Roots-meter S/N 0438320 Ta (K) - 300
 Operator Tisch Orifice I.D. - 0005 Pa (mm) - 759.46

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3910	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.00
3	NA	NA	1.00	0.8800	7.9	5.00
4	NA	NA	1.00	0.8380	8.8	5.50
5	NA	NA	1.00	0.6930	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9884	0.7106	1.4090	0.9958	0.7159	0.8888
0.9843	1.0013	1.9926	0.9916	1.0087	1.2570
0.9822	1.1161	2.2278	0.9895	1.1244	1.4054
0.9811	1.1708	2.3365	0.9884	1.1795	1.4740
0.9760	1.4084	2.8180	0.9832	1.4188	1.7777
Qstd slope (m) = 2.01968			Qa slope (m) = 1.26469		
intercept (b) = -0.02746			intercept (b) = -0.01732		
coefficient (r) = 0.99999			coefficient (r) = 0.99999		
y axis = $\sqrt{H_2O(Pa/760)(298/Ta)}$			y axis = $\sqrt{H_2O(Ta/Pa)}$		

CALCULATIONS

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

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

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

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

For subsequent flow rate calculations:

$$Qstd = 1/m \{ [\sqrt{H_2O(Pa/760)(298/Ta)}] - b \}$$

$$Qa = 1/m \{ [\sqrt{H_2O(Ta/Pa)}] - b \}$$



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA1b Calibration Date : 18-Jan-14
 Equipment no. : EL452 Calibration Due Dat : 18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	289	Kelvin	Pressure, P _a
			1026 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m _c	2.01968
		Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	15-Jul-14		

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7951	60	61.3077
2	5.1	5.1	10.2	1.6294	51	52.1116
3	4.1	4.1	8.2	1.4623	41	41.8936
4	2.5	2.5	5.0	1.1449	25	25.5449
5	1.5	1.5	3.0	0.8899	13	13.2833

By Linear Regression of Y on X

Slope, m = 53.1762 Intercept, b = -34.7843
 Correlation Coefficient* = 0.9992
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry Checked by : Derek Lo
 Date : 18-Jan-14 Date : 18-Jan-14



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA2a
 Equipment no. : EL449

Calibration Date : 18-Jan-14
 Calibration Due Date : 18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	289	Kelvin	Pressure, P _a
			1026 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01968	Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	15-Jul-14				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7807	59	60.2859
2	5.1	5.1	10.2	1.6294	51	52.1116
3	4.0	4.0	8.0	1.4446	42	42.9154
4	2.5	2.5	5.0	1.1449	28	28.6103
5	1.4	1.4	2.8	0.8602	16	16.3487

By Linear Regression of Y on X

Slope, m = 47.6578 Intercept, b = -25.3287
 Correlation Coefficient* = 0.9993
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry
 Date : 18-Jan-14

Checked by : Derek Lo
 Date : 18-Jan-14



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA3a
 Equipment no. : EL333

Calibration Date : 18-Dec-13
 Calibration Due Date : 18-Feb-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	284	Kelvin	Pressure, P _a
			1020 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01968	Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	15-Jul-14				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7910	62	63.7194
2	5.0	5.0	10.0	1.6227	52	53.4421
3	4.0	4.0	8.0	1.4529	42	43.1648
4	2.6	2.6	5.2	1.1740	25	25.6933
5	1.6	1.6	3.2	0.9239	12	12.3328

By Linear Regression of Y on X

Slope, m = 59.7145 Intercept, b = -43.5049

Correlation Coefficient* = 0.9996

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry
 Date : 18-Dec-13

Checked by : Derek Lo
 Date : 18-Dec-13



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA3a Calibration Date : 20-Feb-14
 Equipment no. : EL333 Calibration Due Date : 20-Apr-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	288	Kelvin	Pressure, P _a
			1020 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m _c	2.01968
		Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	15-Jul-14		

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7786	62	63.2754
2	5.0	5.0	10.0	1.6115	52	53.0697
3	4.0	4.0	8.0	1.4428	41	41.8434
4	2.5	2.5	5.0	1.1435	25	25.5143
5	1.6	1.6	3.2	0.9175	13	13.2674

By Linear Regression of Y on X

Slope, m = 58.0066 Intercept, b = -40.5854
 Correlation Coefficient* = 0.9992
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry Checked by : Derek Lo
 Date : 20-Feb-14 Date : 20-Feb-14



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA4a Calibration Date : 18-Jan-14
 Equipment no. : EL390 Calibration Due Dat : 18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	289	Kelvin	Pressure, P _a
			1026 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m _c	2.01968
		Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	15-Jul-14		

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.0	6.0	12.0	1.7662	60	61.3077
2	5.1	5.1	10.2	1.6294	52	53.1334
3	3.9	3.9	7.8	1.4266	41	41.8936
4	2.5	2.5	5.0	1.1449	26	26.5667
5	1.5	1.5	3.0	0.8899	14	14.3051

By Linear Regression of Y on X

Slope, m = 53.7145 Intercept, b = -34.2208

Correlation Coefficient* = 0.9994

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry Checked by : Derek Lo
 Date : 18-Jan-14 Date : 18-Jan-14



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA5a
 Equipment no. : EL380
 Calibration Date : 18-Jan-14
 Calibration Due Date : 18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	289	Kelvin	Pressure, P _a
			1026 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01968	Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	15-Jul-14				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.0	6.0	12.0	1.7662	60	61.3077
2	5.0	5.0	10.0	1.6135	51	52.1116
3	4.0	4.0	8.0	1.4446	42	42.9154
4	2.5	2.5	5.0	1.1449	26	26.5667
5	1.5	1.5	3.0	0.8899	13	13.2833

By Linear Regression of Y on X

Slope, m = 54.6083 Intercept, b = -35.6736

Correlation Coefficient* = 0.9998

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry
 Date : 18-Jan-14
 Checked by : Derek Lo
 Date : 18-Jan-14



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1w Calibration Date : 18-Jan-14
 Equipment no. : EL080 Calibration Due Dat : 18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	289	Kelvin	Pressure, P _a
			1026 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m _c	2.01968
		Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	15-Jul-14		

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7807	59	60.2859
2	5.0	5.0	10.0	1.6135	51	52.1116
3	4.0	4.0	8.0	1.4446	42	42.9154
4	2.5	2.5	5.0	1.1449	27	27.5885
5	1.4	1.4	2.8	0.8602	14	14.3051

By Linear Regression of Y on X

Slope, m = 50.3357 Intercept, b = -29.4556

Correlation Coefficient* = 0.9997

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry Checked by : Derek Lo
 Date : 18-Jan-14 Date : 18-Jan-14



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1e **Calibration Date** : 18-Jan-14
Equipment no. : EL455 **Calibration Due Dat** : 18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	289	Kelvin	Pressure, P _a
			1026 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m _c	2.01968
		Intercept, b _c	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	15-Jul-14		

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC <small>(W(P_a/1013.3x298/T_a)^{1/2}/35.31)</small>
	H (inches of water)	(up)	(down)			
1	6.1	6.1	12.2	1.7807	60	61.3077
2	5.0	5.0	10.0	1.6135	51	52.1116
3	4.1	4.1	8.2	1.4623	43	43.9372
4	2.5	2.5	5.0	1.1449	29	29.6321
5	1.5	1.5	3.0	0.8899	16	16.3487

By Linear Regression of Y on X

Slope, m = 49.7270 Intercept, b = -27.8685

Correlation Coefficient* = 0.9994

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry **Checked by** : Derek Lo
Date : 18-Jan-14 **Date** : 18-Jan-14



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

**Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 2)**

**Environmental Monitoring Schedule
February 2014**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			29-Jan	30-Jan	31-Jan	1-Feb
			24hr TSP	1hr TSP		
2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb
		24hr TSP Noise (Daytime) (M1a,M2b,M3a,M4b ,M5b,M6,M8)	1hr TSP Noise (Daytime) (M7e,M7w)			
9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
24hr TSP Noise (Daytime) (M1a,M2b,M8)	1hr TSP			Noise (Daytime) (M3a,M4b,M5b,M6)	Noise(Daytime) (M7e,M7w)	24hr TSP
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
1hr TSP		Noise (Daytime) (M1a,M2b,M3a,M4b ,M5b,M7e,M7w,M8)		Noise (Daytime) (M6)	24hr TSP	1hr TSP
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
	Noise (Daytime) (M1a,M7e,M7w,M8)	Noise (Daytime) (M2b,M3a,M4b,M5b ,M6)		24hr TSP	1hr TSP	

**Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 2)**

**Tentative Environmental Monitoring Schedule
March 2014**

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



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)								
4/2/2014	14:52	Fine	71.2	74.0	64.5	72	71	75
10/2/2014	15:30	Cloudy	71.3	73.5	66.5	72	71	75
18/2/2014	13:22	Fine	72.0	75.0	66.5	72	72	75
24/2/2014	16:25	Fine	72.2	74.5	68.0	72	72	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)								
4/2/2014	13:54	Fine	67.1	68.5	65.0	68	67	75
10/2/2014	16:15	Cloudy	70.4	72.5	67.5	68	67	75
18/2/2014	14:06	Fine	69.9	71.0	67.5	68	66	75
25/2/2014	13:15	Fine	69.6	72.0	67.5	68	65	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)								
4/2/2014	13:03	Fine	64.6	65.5	61.5	69	65	75
13/2/2014	13:48	Cloudy	68.8	71.0	65.5	69	69	75
18/2/2014	14:48	Fine	71.8	74.0	67.5	69	69	75
25/2/2014	14:05	Fine	68.0	70.5	64.5	69	68	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
4/2/2014	11:16	Fine	68.1	70.0	65.0	67	60	75
13/2/2014	14:30	Cloudy	68.3	69.5	66.0	67	61	75
18/2/2014	15:31	Fine	70.1	71.5	67.5	67	67	75
25/2/2014	14:45	Fine	68.4	70.0	66.0	67	62	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)								
4/2/2014	9:28	Fine	67.3	68.5	65.0	68	67	75
13/2/2014	16:35	Cloudy	68.5	69.5	67.0	68	59	75
18/2/2014	16:18	Fine	67.5	68.5	65.5	68	68	75
25/2/2014	15:26	Fine	67.2	68.5	65.5	68	67	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)								
4/2/2014	10:24	Fine	72.6	73.5	70.5	71	68	70
13/2/2014	15:22	Cloudy	75.7	76.5	74.0	71	74	65
20/2/2014	9:39	Fine	72.3	74.0	70.0	71	67	65
25/2/2014	16:05	Fine	73.9	75.0	72.0	71	71	70



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M7e - International Finance Centre (Eastern End of Podium) (Reference 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)								
5/2/2014	14:06	Fine	67.2	69.0	64.0	67	57	N/A
14/2/2014	10:32	Fine	67.7	69.5	65.0	67	60	N/A
18/2/2014	10:19	Fine	69.4	70.4	64.5	67	66	N/A
24/2/2014	15:35	Fine	68.2	70.0	64.5	67	63	N/A

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

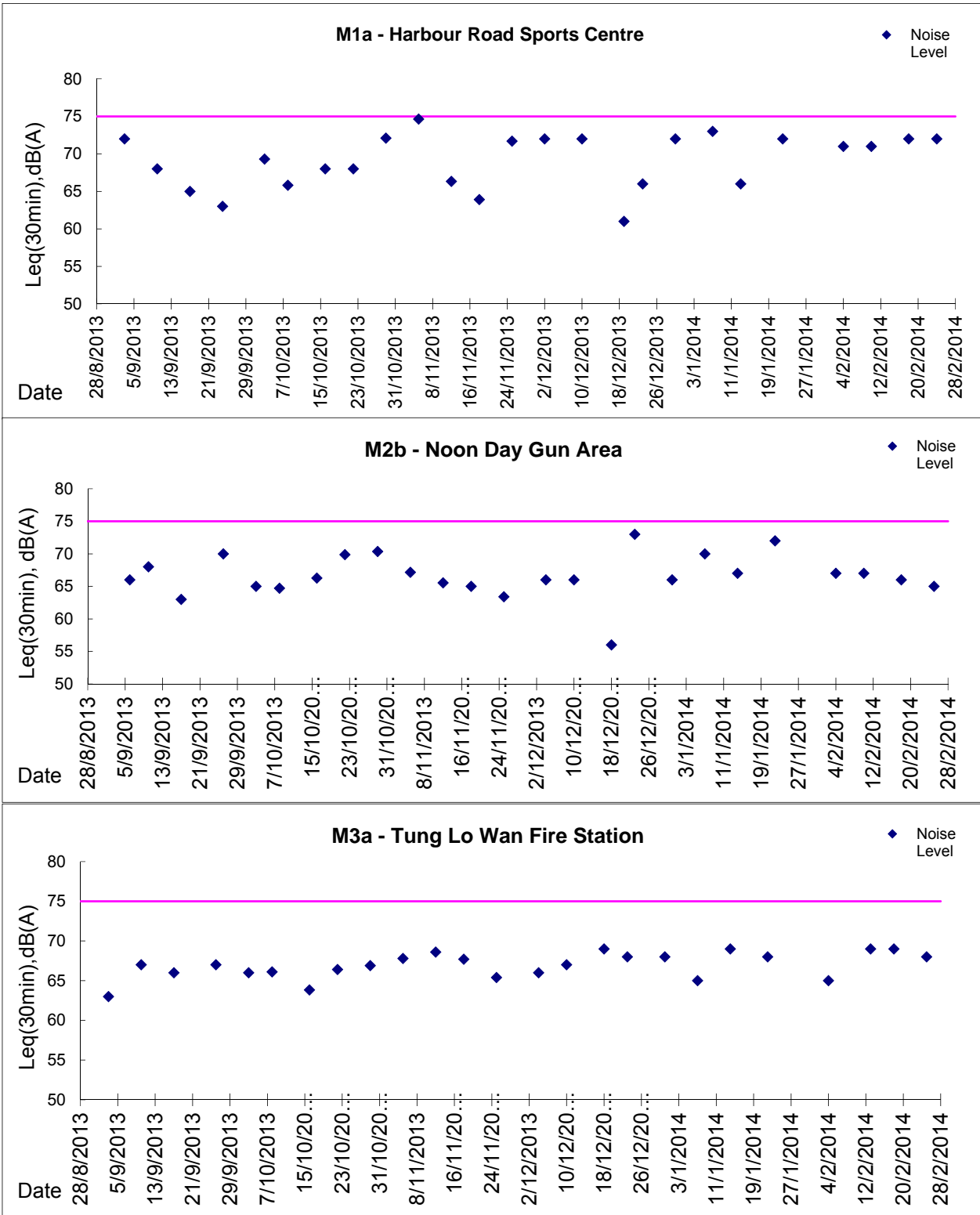
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
5/2/2014	14:45	Fine	65.7	67.5	61.5	69	66	75
14/2/2014	9:55	Fine	66.2	68.0	63.5	69	66	75
18/2/2014	9:39	Fine	66.9	69.5	63.5	69	67	75
24/2/2014	15:00	Fine	67.9	70.5	63.5	69	68	75

Location: M8 - City Hall

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
4/2/2014	16:03	Fine	60.0	62.5	56.0	64	60	70
10/2/2014	15:45	Cloudy	60.4	62.5	56.5	64	60	70
18/2/2014	11:09	Fine	62.0	65.0	57.0	64	62	70
24/2/2014	9:00	Fine	60.2	62.5	56.5	64	60	70



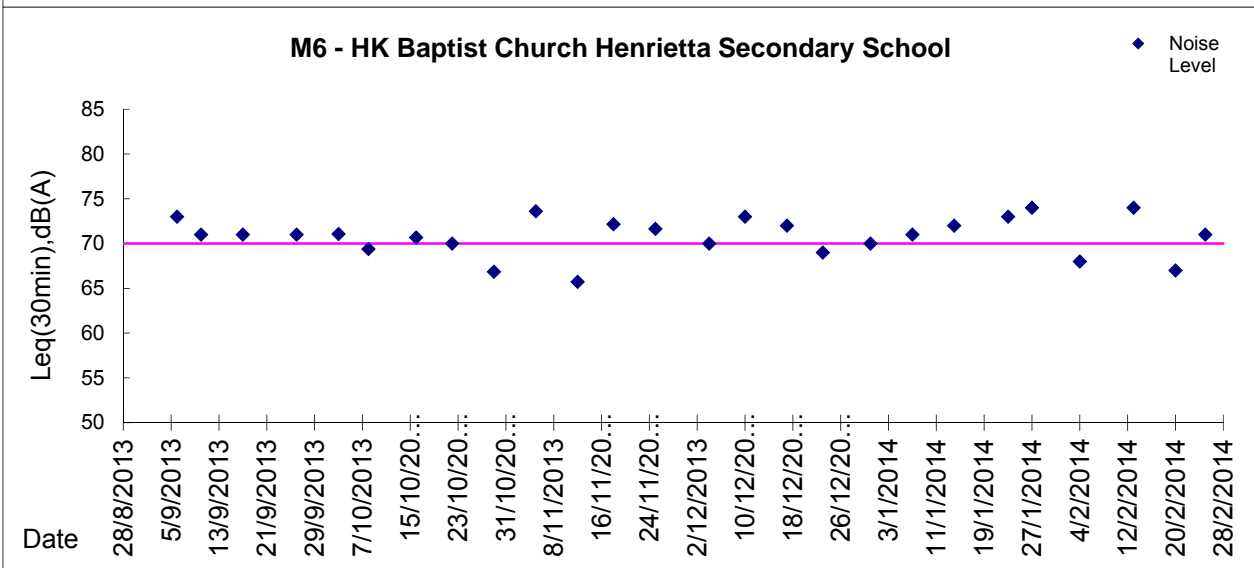
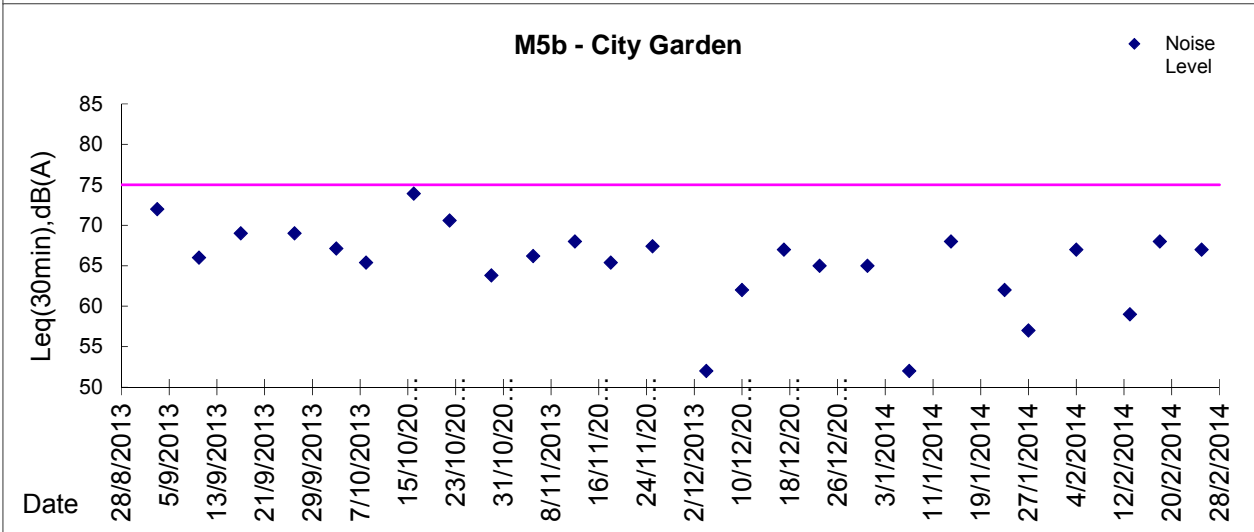
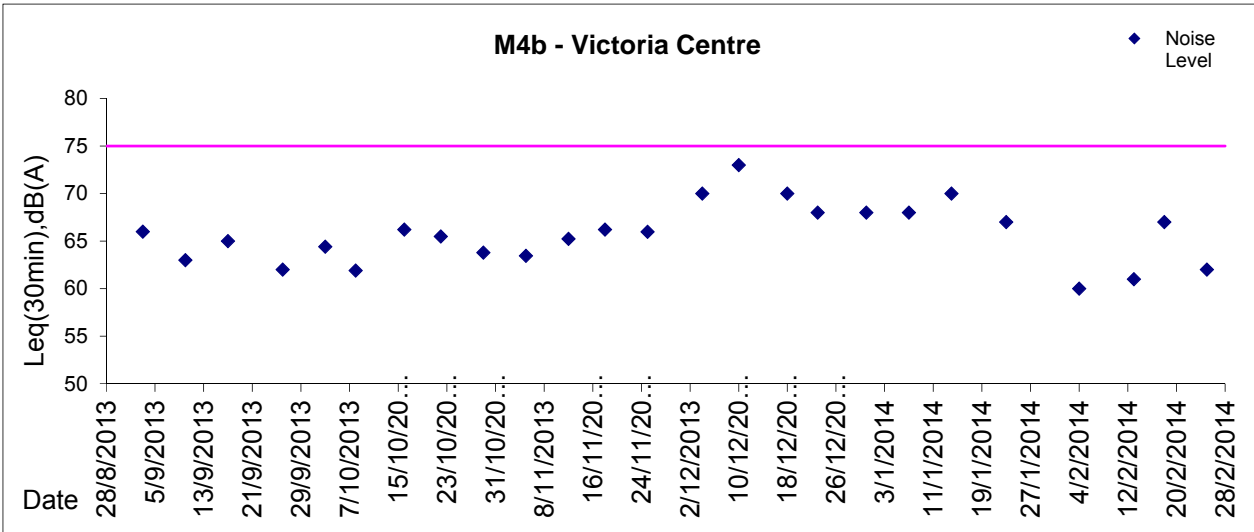
Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result

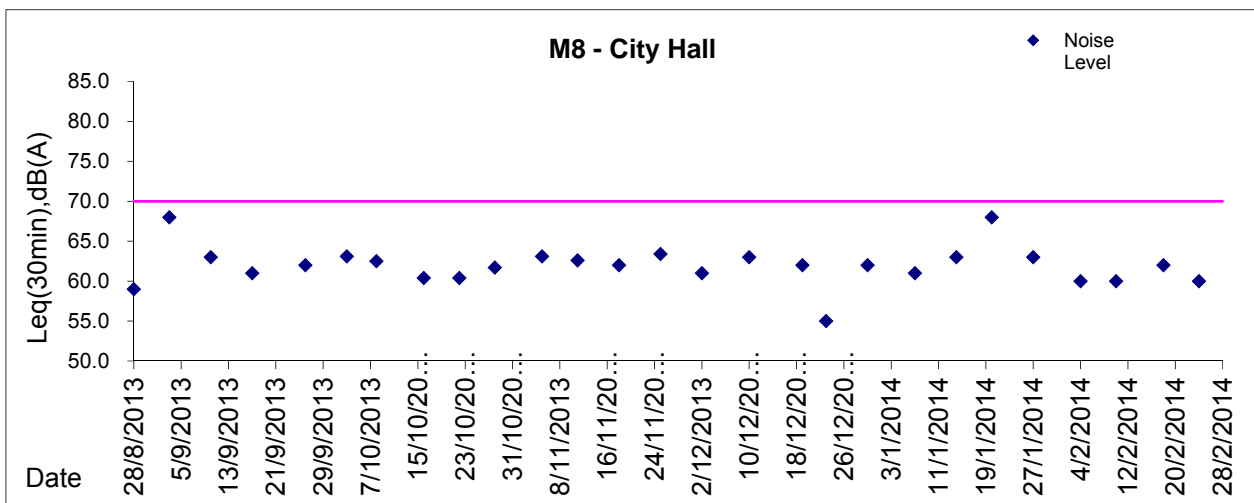
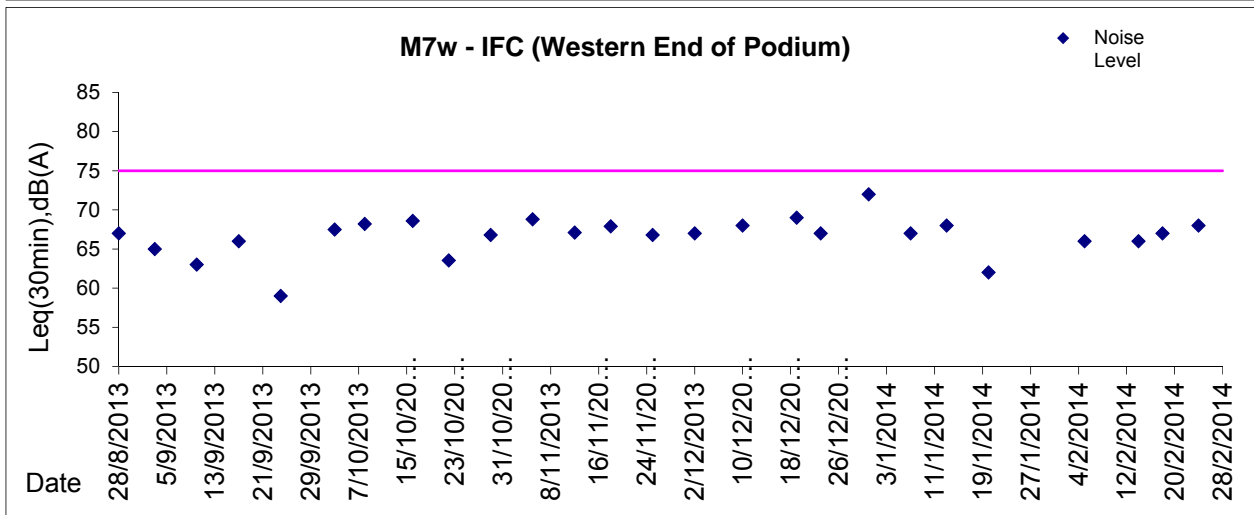
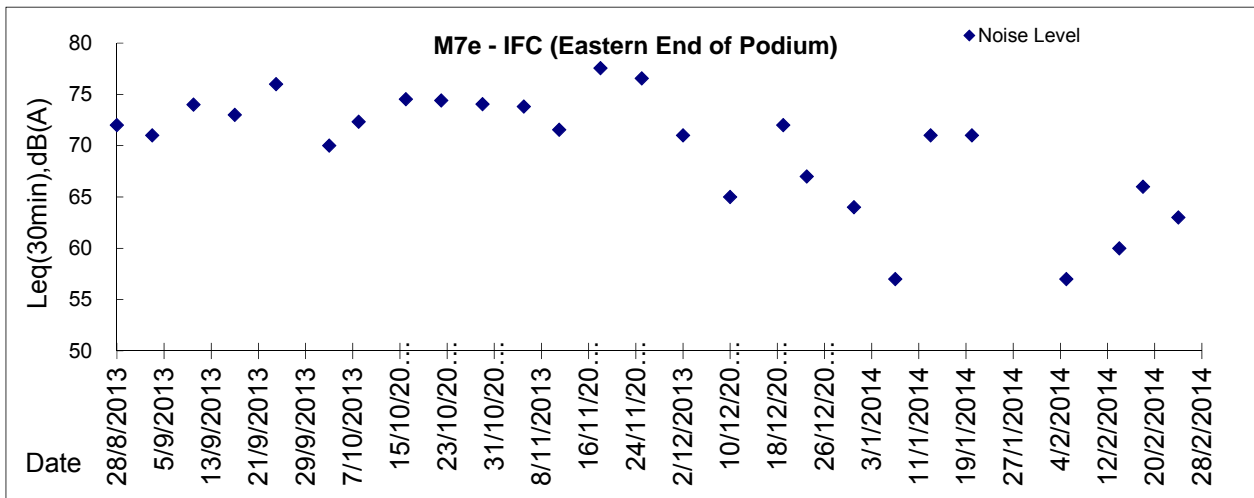
Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)



* Remark: M7e - IFC (Eastern End of Podium) is a reference monitoring station



Appendix 5.3
Air Quality Monitoring Results and Graphical Presentations



Location: CMA1b - Oil Street Site Office

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		
29-Jan-14	8:00	Fine	006440	2.7367	2.8861	4083.02	4107.02	24.00	1.39	1.39	1.39	1996	75
4-Feb-14	8:00	Cloudy	006306	2.6278	2.7864	4110.03	4134.03	24.00	1.38	1.39	1.39	1995	80
10-Feb-14	8:00	Cloudy	007820	2.8292	2.9425	4137.03	4161.03	24.00	1.40	1.40	1.40	2013	56
15-Feb-14	8:00	Cloudy	007732	2.6435	2.7876	4164.03	4188.03	24.00	1.39	1.39	1.39	2006	72
21-Feb-14	8:00	Cloudy	006438	2.7777	2.9364	4191.02	4215.02	24.00	1.39	1.39	1.39	2006	79
27-Feb-14	8:00	Cloudy	007986	2.8632	2.9105	4218.02	4242.02	24.00	1.38	1.38	1.38	1993	24

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		
30-Jan-14	8:09	Fine	006347	2.6730	2.6782	4107.02	4108.02	1.00	1.39	1.39	1.39	83	63
30-Jan-14	9:14	Fine	006349	2.6774	2.6827	4108.02	4109.02	1.00	1.39	1.39	1.39	83	64
30-Jan-14	10:18	Fine	006300	2.6144	2.6229	4109.02	4110.02	1.00	1.39	1.39	1.39	83	102
5-Feb-14	8:04	Cloudy	006305	2.6317	2.6397	4134.03	4135.03	1.00	1.39	1.39	1.39	83	96
5-Feb-14	9:10	Cloudy	007814	2.8534	2.8583	4135.03	4136.03	1.00	1.39	1.39	1.39	83	59
5-Feb-14	10:14	Cloudy	007817	2.8429	2.8470	4136.03	4137.03	1.00	1.39	1.39	1.39	83	49
11-Feb-14	8:16	Cloudy	007723	2.6555	2.6607	4161.03	4162.03	1.00	1.40	1.40	1.40	84	62
11-Feb-14	9:22	Cloudy	007726	2.6620	2.6664	4162.03	4163.03	1.00	1.40	1.40	1.40	84	52
11-Feb-14	10:28	Cloudy	007729	2.6565	2.6599	4163.03	4164.03	1.00	1.40	1.40	1.40	84	41
17-Feb-14	8:13	Cloudy	007926	2.8487	2.8606	4188.03	4189.03	1.00	1.39	1.39	1.39	83	143
17-Feb-14	9:29	Cloudy	007735	2.6412	2.6480	4189.03	4190.03	1.00	1.39	1.39	1.39	83	82
17-Feb-14	10:34	Cloudy	007737	2.6436	2.6490	4190.03	4191.03	1.00	1.39	1.39	1.39	83	65
22-Feb-14	8:12	Cloudy	007980	2.8523	2.8619	4215.02	4216.02	1.00	1.36	1.36	1.36	81	118
22-Feb-14	9:23	Cloudy	007982	2.8629	2.8732	4216.02	4217.02	1.00	1.36	1.36	1.36	81	127
22-Feb-14	10:26	Cloudy	007984	2.8574	2.8687	4217.02	4218.02	1.00	1.36	1.36	1.36	81	139
28-Feb-14	10:00	Cloudy	007992	2.8630	2.8753	4242.77	4243.77	1.00	1.42	1.42	1.42	85	144
28-Feb-14	13:00	Cloudy	007994	2.8497	2.8548	4243.77	4244.77	1.00	1.35	1.35	1.35	81	63
28-Feb-14	14:00	Cloudy	007996	2.8385	2.8463	4244.77	4245.77	1.00	1.35	1.35	1.35	81	96

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		
29-Jan-14	8:00	Fine	006439	2.7383	2.8858	13794.21	13818.21	24.00	1.35	1.35	1.35	1942	76
4-Feb-14	8:00	Cloudy	006302	2.6234	2.7848	13821.22	13845.22	24.00	1.35	1.35	1.35	1940	83
10-Feb-14	8:00	Cloudy	007819	2.8451	2.9521	13848.22	13872.22	24.00	1.36	1.36	1.36	1961	55
15-Feb-14	8:00	Cloudy	007733	2.6500	2.8573	13875.22	13899.22	24.00	1.36	1.35	1.36	1952	106
21-Feb-14	8:00	Cloudy	007927	2.8546	3.0560	13902.22	13926.22	24.00	1.36	1.35	1.36	1952	103
27-Feb-14	8:00	Cloudy	007987	2.8588	2.9823	13929.22	13953.22	24.00	1.39	1.39	1.39	1997	62

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		
30-Jan-14	8:15	Fine	006346	2.6904	2.6959	13818.21	13819.21	1.00	1.35	1.35	1.35	81	68
30-Jan-14	9:19	Fine	006348	2.6700	2.6780	13819.21	13820.21	1.00	1.35	1.35	1.35	81	99
30-Jan-14	10:24	Fine	006350	2.6770	2.6828	13820.21	13821.21	1.00	1.35	1.35	1.35	81	72
5-Feb-14	8:44	Cloudy	006304	2.6186	2.6259	13845.22	13846.22	1.00	1.35	1.35	1.35	81	90
5-Feb-14	9:48	Cloudy	007759	2.6562	2.6600	13846.22	13847.22	1.00	1.35	1.35	1.35	81	47
5-Feb-14	10:52	Cloudy	007816	2.8417	2.8435	13847.22	13848.22	1.00	1.35	1.35	1.35	81	22
11-Feb-14	8:31	Cloudy	007724	2.6601	2.6689	13872.22	13873.22	1.00	1.36	1.36	1.36	82	108
11-Feb-14	9:34	Cloudy	007727	2.6221	2.6280	13873.22	13874.22	1.00	1.36	1.36	1.36	82	72
11-Feb-14	10:39	Cloudy	007730	2.6090	2.6156	13874.22	13875.22	1.00	1.36	1.36	1.36	82	81
17-Feb-14	8:19	Cloudy	007918	2.8483	2.8581	13899.22	13900.22	1.00	1.35	1.35	1.35	81	121
17-Feb-14	9:23	Cloudy	007736	2.6341	2.6414	13900.22	13901.22	1.00	1.35	1.35	1.35	81	90
17-Feb-14	10:29	Cloudy	007738	2.6169	2.6243	13901.22	13902.22	1.00	1.35	1.35	1.35	81	91
22-Feb-14	8:05	Cloudy	007891	2.8470	2.8570	13926.22	13927.22	1.00	1.35	1.35	1.35	81	123
22-Feb-14	9:12	Cloudy	007983	2.8560	2.8668	13927.22	13928.22	1.00	1.35	1.35	1.35	81	133
22-Feb-14	10:23	Cloudy	007985	2.8569	2.8642	13928.22	13929.22	1.00	1.35	1.35	1.35	81	90
28-Feb-14	10:00	Cloudy	007993	2.8552	2.8600	13953.22	13954.22	1.00	1.35	1.35	1.35	81	59
28-Feb-14	13:00	Cloudy	007995	2.8608	2.8696	13954.22	13955.22	1.00	1.35	1.35	1.35	81	109
28-Feb-14	14:05	Cloudy	007997	2.8714	2.8800	13955.22	13956.22	1.00	1.35	1.35	1.35	81	106



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		
29-Jan-14	8:00	Fine	006442	2.7538	2.9158	1195.87	1219.87	24.00	1.41	1.41	1.41	2035	80
4-Feb-14	8:00	Cloudy	007828	2.8307	2.9718	1222.87	1246.87	24.00	1.41	1.41	1.41	2034	69
10-Feb-14	8:00	Cloudy	007857	2.8492	3.0322	1249.88	1273.88	24.00	1.42	1.42	1.42	2051	89
15-Feb-14	8:00	Cloudy	007765	2.6409	2.7870	1276.88	1300.88	24.00	1.42	1.42	1.42	2044	71
21-Feb-14	8:00	Cloudy	007836	2.8414	3.0450	1303.87	1327.87	24.00	1.41	1.41	1.41	2031	100
27-Feb-14	8:00	Cloudy	007967	2.8577	2.9515	1330.87	1354.87	24.00	1.40	1.40	1.40	2019	46

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		
30-Jan-14	9:25	Fine	007720	2.6698	2.6808	1219.87	1220.87	1.00	1.41	1.41	1.41	85	130
30-Jan-14	10:42	Fine	007917	2.8573	2.8671	1220.87	1221.87	1.00	1.41	1.41	1.41	85	116
30-Jan-14	13:00	Fine	007697	2.6359	2.6514	1221.87	1222.87	1.00	1.41	1.41	1.41	85	183
5-Feb-14	8:31	Cloudy	007856	2.8540	2.8555	1246.87	1247.87	1.00	1.41	1.41	1.41	85	18
5-Feb-14	9:36	Cloudy	007863	2.8364	2.8408	1247.87	1248.87	1.00	1.41	1.41	1.41	85	52
5-Feb-14	10:40	Cloudy	007861	2.8452	2.8469	1248.87	1249.87	1.00	1.41	1.41	1.41	85	20
11-Feb-14	8:20	Cloudy	006315	2.6373	2.6473	1273.88	1274.88	1.00	1.42	1.42	1.42	85	117
11-Feb-14	9:23	Cloudy	006316	2.6079	2.6231	1274.88	1275.88	1.00	1.42	1.42	1.42	85	178
11-Feb-14	10:27	Cloudy	006317	2.6197	2.6349	1275.88	1276.88	1.00	1.42	1.42	1.42	85	178
17-Feb-14	8:11	Cloudy	007833	2.8368	2.8421	1300.88	1301.88	1.00	1.41	1.41	1.41	85	63
17-Feb-14	9:17	Cloudy	007834	2.8661	2.8746	1301.88	1302.88	1.00	1.41	1.41	1.41	85	100
17-Feb-14	10:20	Cloudy	007835	2.8400	2.8484	1302.88	1303.88	1.00	1.41	1.41	1.41	85	99
22-Feb-14	8:21	Cloudy	007971	2.8460	2.8574	1327.87	1328.87	1.00	1.38	1.38	1.38	83	138
22-Feb-14	9:57	Cloudy	007907	2.8469	2.8580	1328.87	1329.87	1.00	1.38	1.38	1.38	83	134
22-Feb-14	10:59	Cloudy	007908	2.8235	2.8358	1329.87	1330.87	1.00	1.38	1.38	1.38	83	149
28-Feb-14	9:35	Cloudy	005481	2.8055	2.8157	1354.87	1355.87	1.00	1.40	1.40	1.40	84	121
28-Feb-14	10:50	Cloudy	005483	2.7985	2.8091	1355.87	1356.87	1.00	1.40	1.40	1.40	84	126
28-Feb-14	13:00	Cloudy	005485	2.7871	2.7967	1356.87	1357.87	1.00	1.40	1.40	1.40	84	114



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		
29-Jan-14	8:00	Fine	007691	2.6405	2.7699	17996.96	18020.96	24.00	1.36	1.36	1.36	1961	66
4-Feb-14	8:00	Cloudy	007916	2.8483	2.9904	18024.00	18048.00	24.00	1.36	1.36	1.36	1960	73
10-Feb-14	8:00	Cloudy	007860	2.8489	2.9413	18051.00	18075.00	24.00	1.37	1.37	1.37	1978	47
15-Feb-14	8:00	Cloudy	007783	2.6448	2.7970	18078.00	18102.00	24.00	1.37	1.37	1.37	1970	77
21-Feb-14	8:00	Cloudy	007832	2.8338	3.0051	18105.00	18129.00	24.00	1.33	1.33	1.33	1918	89
27-Feb-14	8:00	Cloudy	007909	2.8300	2.9794	18132.00	18155.99	23.99	1.32	1.32	1.32	1905	78

Due to electricity interruption, the 24hr TSP monitoring was rescheduled from 28 Dec 2013 to 30 Dec 2013.

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		
30-Jan-14	9:10	Fine	007719	2.6624	2.6702	18020.96	18021.96	1.00	1.36	1.36	1.36	82	96
30-Jan-14	10:30	Fine	007721	2.7114	2.7197	18021.96	18022.96	1.00	1.36	1.36	1.36	82	102
30-Jan-14	13:00	Fine	007722	2.6411	2.6470	18022.96	18023.96	1.00	1.36	1.36	1.36	82	72
5-Feb-14	8:16	Cloudy	007855	2.8706	2.8720	18048.00	18049.00	1.00	1.36	1.36	1.36	82	17
5-Feb-14	9:24	Cloudy	007864	2.8648	2.8676	18049.00	18050.00	1.00	1.36	1.36	1.36	82	34
5-Feb-14	10:30	Cloudy	007862	2.8495	2.8511	18050.00	18051.00	1.00	1.36	1.36	1.36	82	20
11-Feb-14	8:13	Cloudy	007764	2.6284	2.6366	18075.00	18076.00	1.00	1.37	1.37	1.37	82	99
11-Feb-14	9:17	Cloudy	007771	2.6368	2.6445	18076.00	18077.00	1.00	1.37	1.37	1.37	82	93
11-Feb-14	10:22	Cloudy	007782	2.6316	2.6369	18077.00	18078.00	1.00	1.37	1.37	1.37	82	64
17-Feb-14	8:14	Cloudy	007829	2.8410	2.8463	18102.00	18103.00	1.00	1.36	1.36	1.36	82	65
17-Feb-14	9:18	Cloudy	007830	2.8430	2.8500	18103.00	18104.00	1.00	1.36	1.36	1.36	82	86
17-Feb-14	10:27	Cloudy	007831	2.8412	2.8480	18104.00	18105.00	1.00	1.36	1.36	1.36	82	83
22-Feb-14	8:45	Cloudy	007972	2.8476	2.8561	18129.00	18130.00	1.00	1.33	1.33	1.33	80	106
22-Feb-14	9:50	Cloudy	007970	2.8587	2.8690	18130.00	18131.00	1.00	1.33	1.33	1.33	80	129
22-Feb-14	10:52	Cloudy	007969	2.8645	2.8737	18131.00	18132.00	1.00	1.33	1.33	1.33	80	115
28-Feb-14	9:16	Cloudy	005480	2.8001	2.8110	18155.99	18156.99	1.00	1.32	1.32	1.32	79	137
28-Feb-14	10:30	Cloudy	005487	2.7909	2.7989	18156.99	18157.99	1.00	1.36	1.36	1.36	82	98
28-Feb-14	13:00	Cloudy	005484	2.8047	2.8133	18157.99	18158.99	1.00	1.36	1.36	1.36	82	105



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

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		
29-Jan-14	8:00	Fine	007692	2.6168	2.7341	1900.15	19024.15	24.00	1.33	1.33	1.33	1916	61
4-Feb-14	8:00	Cloudy	007704	2.6328	2.6617	19027.15	19051.15	24.00	1.33	1.33	1.33	1915	15
10-Feb-14	8:00	Cloudy	007923	2.8403	3.0275	19057.17	19081.17	24.00	1.34	1.34	1.34	1932	97
15-Feb-14	8:00	Cloudy	007881	2.8336	3.1150	19081.17	19105.17	24.00	1.34	1.34	1.34	1925	146
21-Feb-14	8:00	Cloudy	007938	2.8416	3.0468	19108.17	19132.17	24.00	1.37	1.37	1.37	1976	104
27-Feb-14	8:00	Cloudy	007952	2.8529	2.9880	19135.17	19159.17	24.00	1.40	1.40	1.40	2015	67

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		
30-Jan-14	8:40	Fine	007742	2.6222	2.6278	19024.15	19025.15	1.00	1.29	1.29	1.29	78	72
30-Jan-14	9:43	Fine	007702	2.6141	2.6292	19025.15	19026.15	1.00	1.29	1.29	1.29	78	194
30-Jan-14	10:46	Fine	007703	2.6255	2.6420	19026.15	19027.15	1.00	1.29	1.29	1.29	78	212
5-Feb-14	9:30	Cloudy	007872	2.8424	2.8447	19051.15	19052.15	1.00	1.33	1.33	1.33	80	29
5-Feb-14	10:40	Cloudy	007865	2.8551	2.8572	19052.15	19053.15	1.00	1.33	1.33	1.33	80	26
5-Feb-14	13:00	Cloudy	007868	2.8394	2.8423	19053.15	19054.15	1.00	1.33	1.33	1.33	80	36
11-Feb-14	8:25	Cloudy	007699	2.6311	2.6458	19054.17	19055.17	1.00	1.34	1.34	1.34	81	183
11-Feb-14	9:30	Cloudy	007849	2.8608	2.8691	19055.17	19056.17	1.00	1.34	1.34	1.34	81	103
11-Feb-14	10:35	Cloudy	007922	2.8569	2.8643	19056.17	19057.17	1.00	1.34	1.34	1.34	81	92
17-Feb-14	8:06	Cloudy	007929	2.8509	2.8646	19105.17	19106.17	1.00	1.33	1.33	1.33	80	172
17-Feb-14	9:11	Cloudy	007932	2.8477	2.8600	19106.17	19107.17	1.00	1.33	1.33	1.33	80	154
17-Feb-14	10:26	Cloudy	007935	2.8515	2.8620	19107.17	19108.17	1.00	1.33	1.33	1.33	80	132
22-Feb-14	9:28	Cloudy	007943	2.8389	2.8487	19132.17	19133.17	1.00	1.41	1.41	1.41	84	116
22-Feb-14	10:34	Cloudy	007946	2.8255	2.8326	19133.17	19134.17	1.00	1.41	1.41	1.41	84	84
22-Feb-14	13:05	Cloudy	007949	2.8446	2.8542	19134.17	19135.17	1.00	1.41	1.41	1.41	84	114
28-Feb-14	8:31	Cloudy	007977	2.8524	2.8608	19159.17	19160.17	1.00	1.36	1.36	1.36	82	103
28-Feb-14	9:53	Cloudy	008088	2.8388	2.8441	19160.17	19161.17	1.00	1.36	1.36	1.36	82	65
28-Feb-14	13:00	Cloudy	008089	2.8390	2.8566	19161.17	19162.17	1.00	1.36	1.36	1.36	82	215



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		
29-Jan-14	8:00	Fine	003613	2.6033	2.6835	14692.82	14716.82	24.00	1.30	1.30	1.30	1878	43
4-Feb-14	8:00	Cloudy	007902	2.8231	3.0610	14730.86	14754.86	24.00	1.30	1.30	1.30	1877	127
10-Feb-14	8:00	Cloudy	006362	2.6980	2.8439	14757.86	14781.86	24.00	1.32	1.32	1.32	1895	77
15-Feb-14	8:00	Cloudy	007751	2.6209	2.7463	14784.86	14808.86	24.00	1.31	1.31	1.31	1887	66
21-Feb-14	8:00	Cloudy	007939	2.8473	3.0232	14811.84	14835.84	24.00	1.33	1.33	1.33	1916	92
27-Feb-14	8:00	Cloudy	008049	2.8189	2.9395	14838.84	14862.84	24.00	1.30	1.32	1.31	1889	64

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		
30-Jan-14	8:09	Fine	007899	2.8341	2.8399	14716.82	14717.82	1.00	1.30	1.30	1.30	78	74
30-Jan-14	9:14	Fine	007900	2.8379	2.8447	14717.82	14718.82	1.00	1.30	1.30	1.30	78	87
30-Jan-14	10:19	Fine	007901	2.8344	2.8427	14718.82	14719.82	1.00	1.30	1.30	1.30	78	106
5-Feb-14	8:24	Cloudy	006371	2.6050	2.6073	14754.86	14755.86	1.00	1.30	1.30	1.30	78	29
5-Feb-14	9:32	Cloudy	006390	2.5999	2.6026	14755.86	14756.86	1.00	1.30	1.30	1.30	78	35
5-Feb-14	10:43	Cloudy	006369	2.6029	2.6049	14756.86	14757.86	1.00	1.30	1.30	1.30	78	26
11-Feb-14	8:30	Cloudy	007750	2.6485	2.6554	14781.86	14782.86	1.00	1.32	1.32	1.32	79	87
11-Feb-14	9:35	Cloudy	007749	2.6272	2.6341	14782.86	14783.86	1.00	1.32	1.32	1.32	79	87
11-Feb-14	10:40	Cloudy	007748	2.6263	2.6318	14783.86	14784.86	1.00	1.32	1.32	1.32	79	70
17-Feb-14	8:13	Cloudy	006357	2.7061	2.7080	14808.86	14809.86	1.00	1.30	1.30	1.30	78	24
17-Feb-14	9:20	Cloudy	006358	2.6938	2.6975	14809.86	14810.86	1.00	1.30	1.30	1.30	78	47
17-Feb-14	10:23	Cloudy	006359	2.6676	2.6740	14810.86	14811.86	1.00	1.30	1.30	1.30	78	82
22-Feb-14	8:05	Cloudy	007976	2.8575	2.8610	14835.84	14836.84	1.00	1.31	1.31	1.31	79	45
22-Feb-14	9:13	Cloudy	007975	2.8663	2.8700	14836.84	14837.84	1.00	1.31	1.31	1.31	79	47
22-Feb-14	10:19	Cloudy	007974	2.8675	2.8712	14837.84	14838.84	1.00	1.31	1.31	1.31	79	47
28-Feb-14	8:45	Cloudy	008058	2.8186	2.8209	14862.84	14863.84	1.00	1.34	1.34	1.34	81	29
28-Feb-14	10:30	Cloudy	008061	2.8250	2.8272	14863.84	14864.84	1.00	1.30	1.30	1.30	78	28
28-Feb-14	13:00	Cloudy	008063	2.8046	2.8072	14864.84	14865.84	1.00	1.30	1.30	1.30	78	33



Location: MA1w - International Finance Centre (Western Wing)

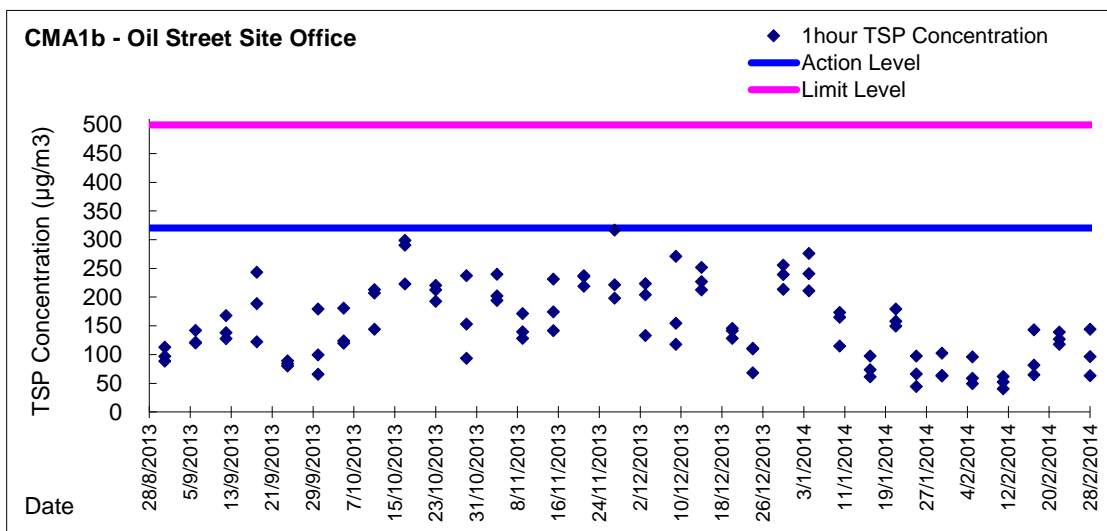
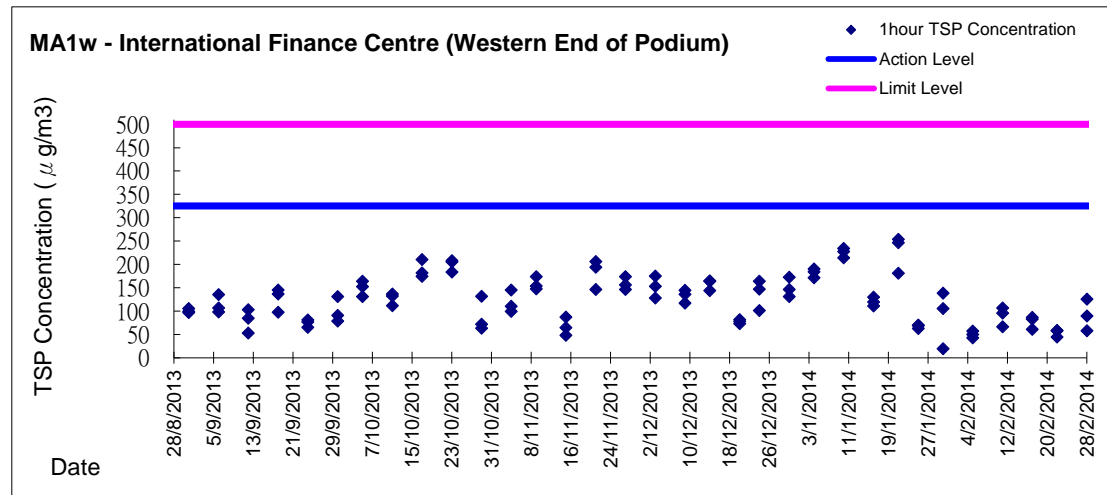
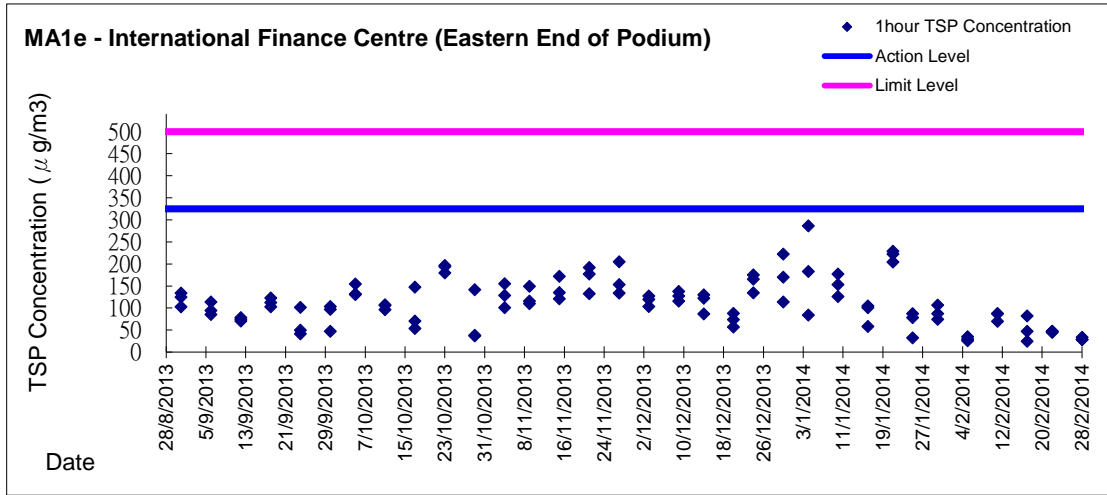
Report on 24-hour TSP monitoring
Action Level ($\mu\text{g}/\text{m}^3$) - 173.4
Limit Level ($\mu\text{g}/\text{m}^3$) - 260

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		
29-Jan-14	8:00	Fine	006340	2.6842	2.8172	14752.93	14776.93	24.00	1.36	1.36	1.36	1956	68
4-Feb-14	8:00	Cloudy	007898	2.8338	3.0209	14779.93	14803.93	24.00	1.36	1.36	1.36	1955	96
10-Feb-14	8:00	Cloudy	006361	2.6781	2.7564	14806.94	14830.94	24.00	1.37	1.37	1.37	1974	40
15-Feb-14	8:00	Cloudy	007842	2.8383	3.0136	14833.94	14857.94	24.00	1.37	1.36	1.37	1966	89
21-Feb-14	8:00	Cloudy	006383	2.5963	2.8462	14860.94	14884.94	24.00	1.39	1.38	1.39	1994	125
27-Feb-14	8:00	Cloudy	008050	2.8133	2.9533	14887.93	14911.93	24.00	1.37	1.38	1.38	1981	71

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

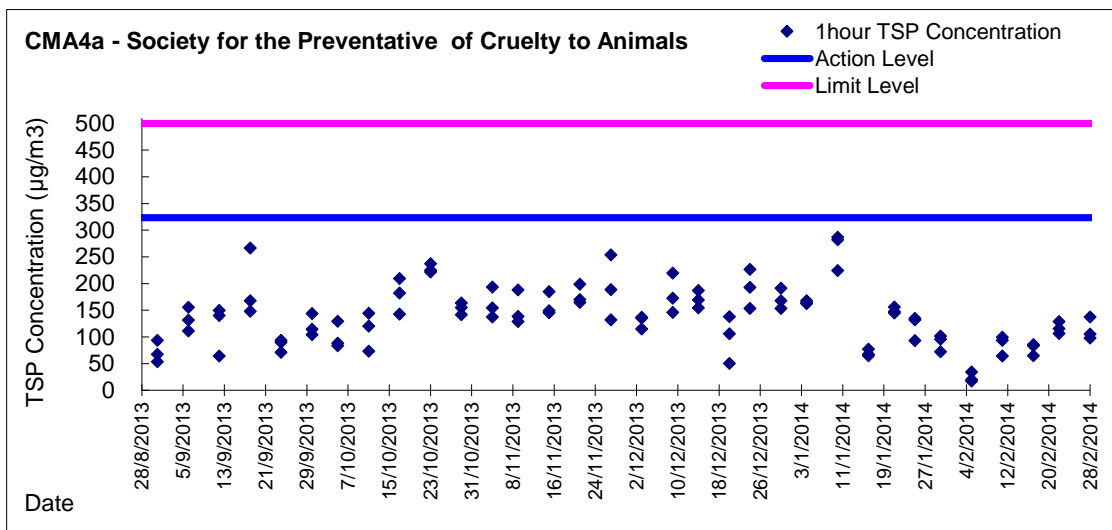
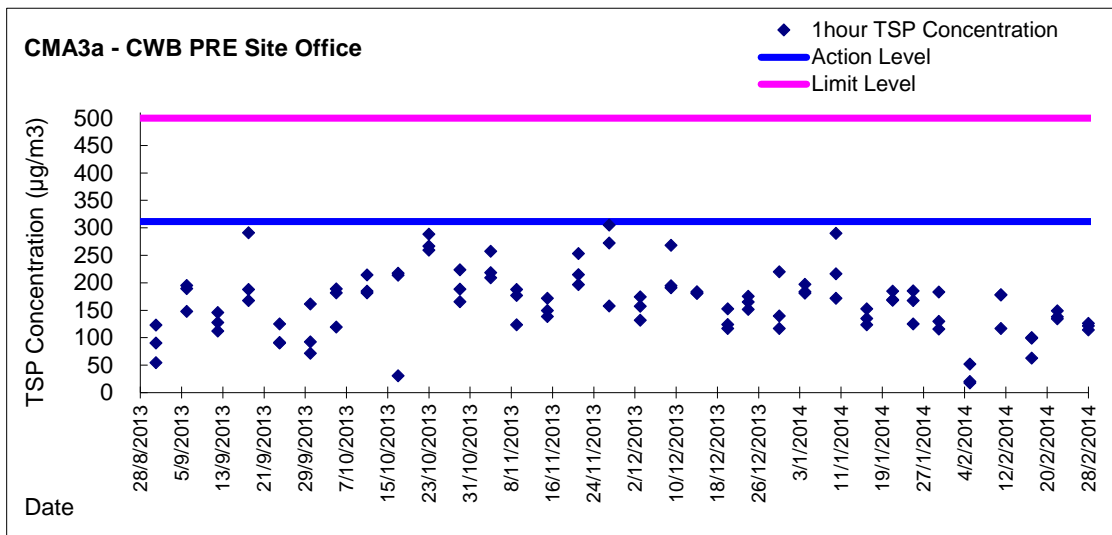
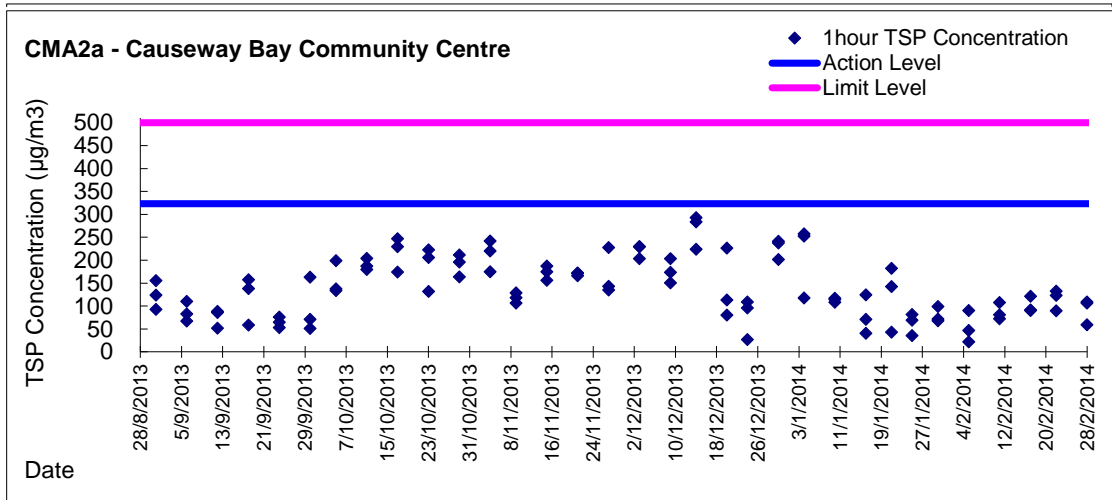
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Jan-14	8:05	Fine	007895	2.8410	2.8426	14776.93	14777.93	1.00	1.36	1.36	1.36	81	20
30-Jan-14	9:09	Fine	007896	2.8337	2.8423	14777.93	14778.93	1.00	1.36	1.36	1.36	81	106
30-Jan-14	10:13	Fine	007897	2.8391	2.8504	14778.93	14779.93	1.00	1.36	1.36	1.36	81	139
5-Feb-14	8:34	Cloudy	006368	2.6022	2.6063	14803.93	14804.93	1.00	1.36	1.36	1.36	82	50
5-Feb-14	9:39	Cloudy	006367	2.6138	2.6185	14804.93	14805.93	1.00	1.36	1.36	1.36	82	58
5-Feb-14	10:49	Cloudy	006366	2.6045	2.6080	14805.93	14806.93	1.00	1.36	1.36	1.36	82	43
11-Feb-14	8:35	Cloudy	007747	2.6377	2.6465	14830.94	14831.94	1.00	1.37	1.37	1.37	82	107
11-Feb-14	9:40	Cloudy	007746	2.6170	2.6249	14831.94	14832.94	1.00	1.37	1.37	1.37	82	96
11-Feb-14	10:45	Cloudy	007745	2.6259	2.6314	14832.94	14833.94	1.00	1.37	1.37	1.37	82	67
17-Feb-14	8:23	Cloudy	006356	2.6725	2.6796	14857.94	14858.94	1.00	1.36	1.36	1.36	82	87
17-Feb-14	9:37	Cloudy	006355	2.6842	2.6910	14858.94	14859.94	1.00	1.36	1.36	1.36	82	83
17-Feb-14	10:49	Cloudy	006354	2.6798	2.6848	14859.94	14860.94	1.00	1.36	1.36	1.36	82	61
22-Feb-14	8:14	Cloudy	008054	2.8114	2.8163	14884.94	14885.94	1.00	1.40	1.40	1.40	84	58
22-Feb-14	9:21	Cloudy	008053	2.8145	2.8194	14885.94	14886.94	1.00	1.38	1.38	1.38	83	59
22-Feb-14	10:25	Cloudy	008052	2.8127	2.8164	14886.94	14887.94	1.00	1.38	1.38	1.38	83	45
28-Feb-14	9:00	Cloudy	008059	2.8132	2.8178	14911.93	14912.93	1.00	1.32	1.32	1.32	79	58
28-Feb-14	10:15	Cloudy	008062	2.8207	2.8280	14912.93	14913.93	1.00	1.36	1.36	1.36	81	90
28-Feb-14	13:00	Cloudy	008064	2.8743	2.8847	14913.93	14914.93	1.00	1.38	1.38	1.38	83	126

Graphic Presentation of 1 hour TSP Result

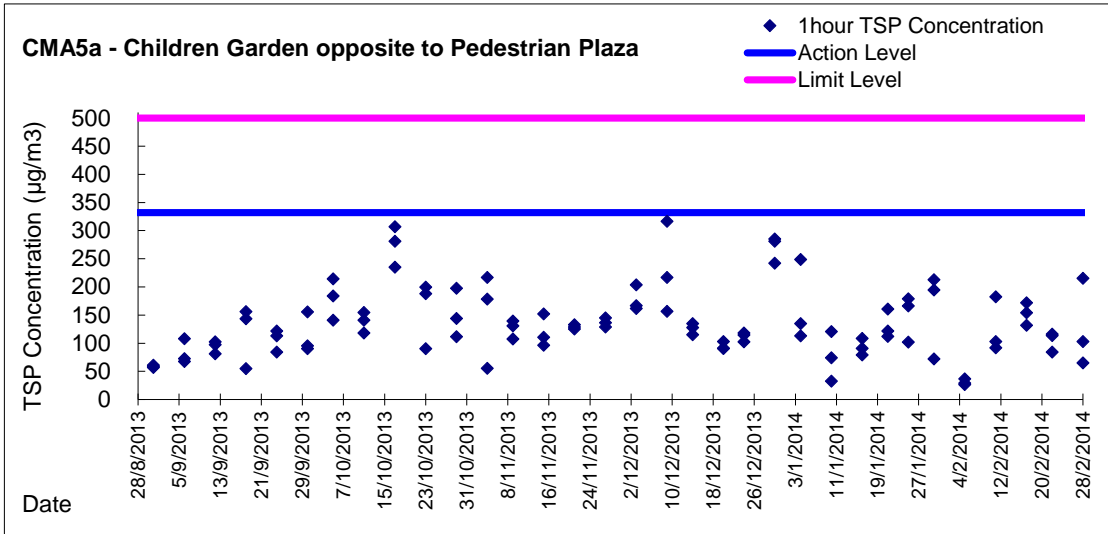




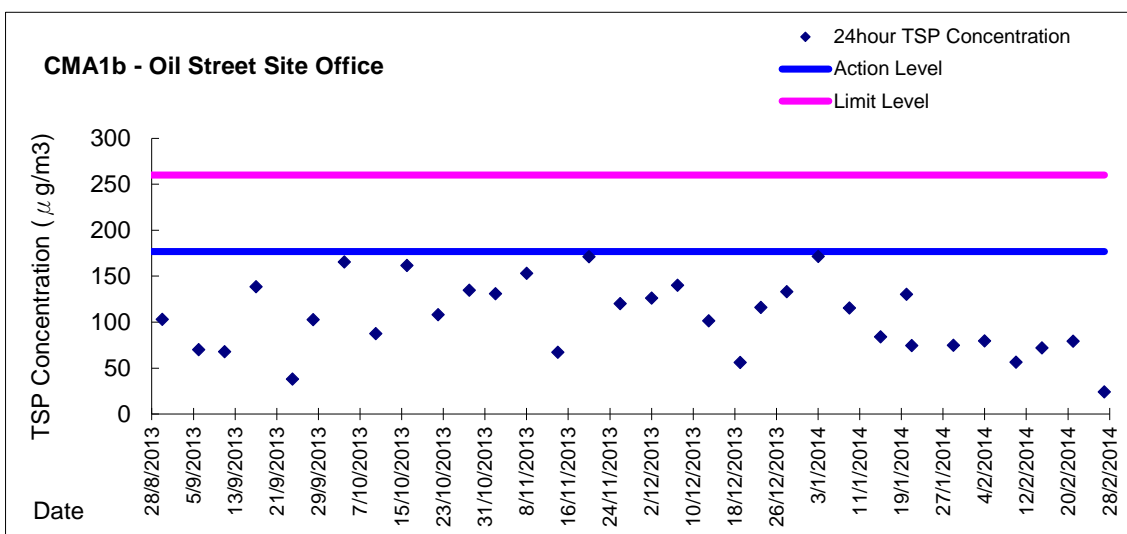
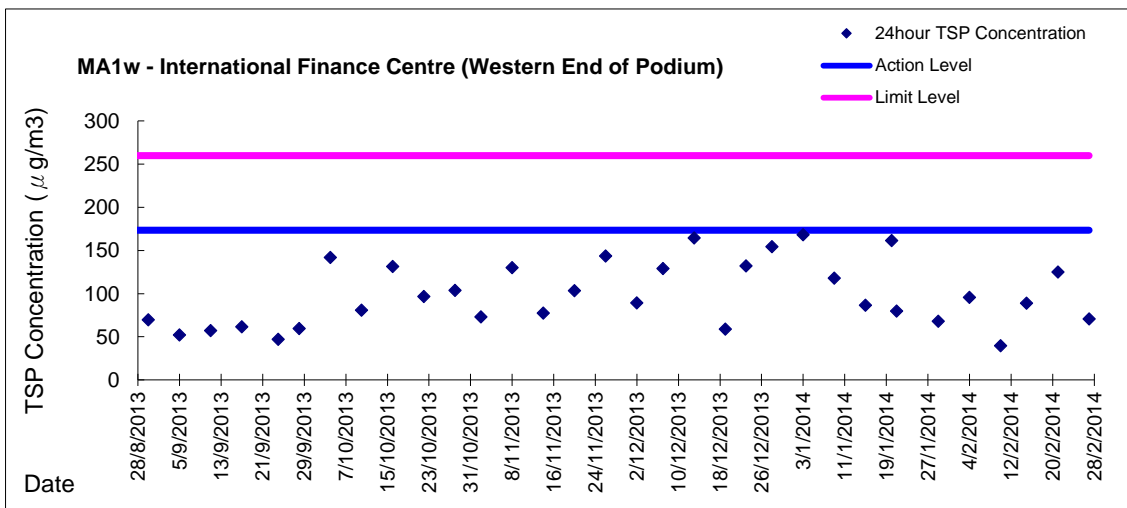
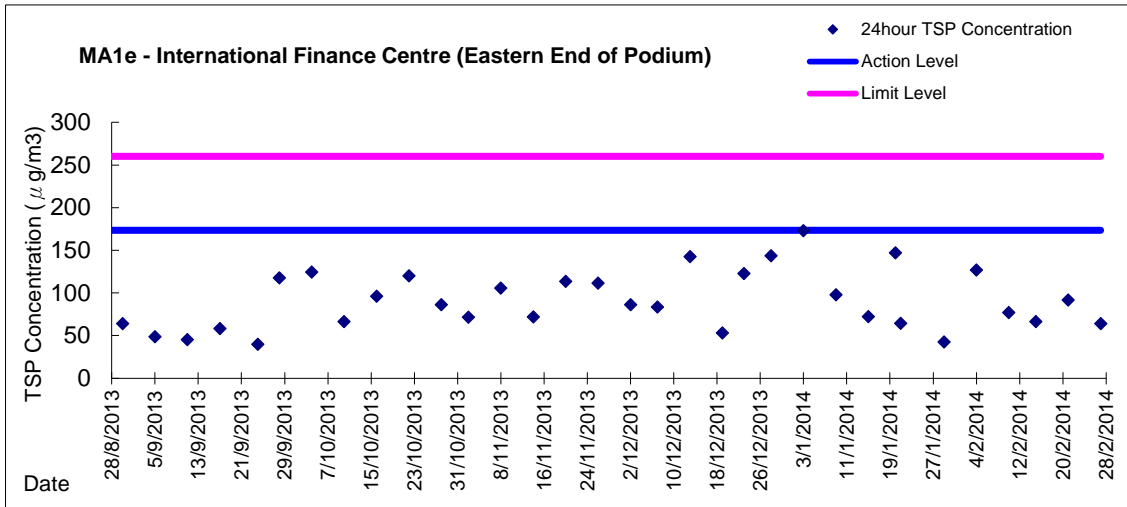
Graphic Presentation of 1 hour TSP Result



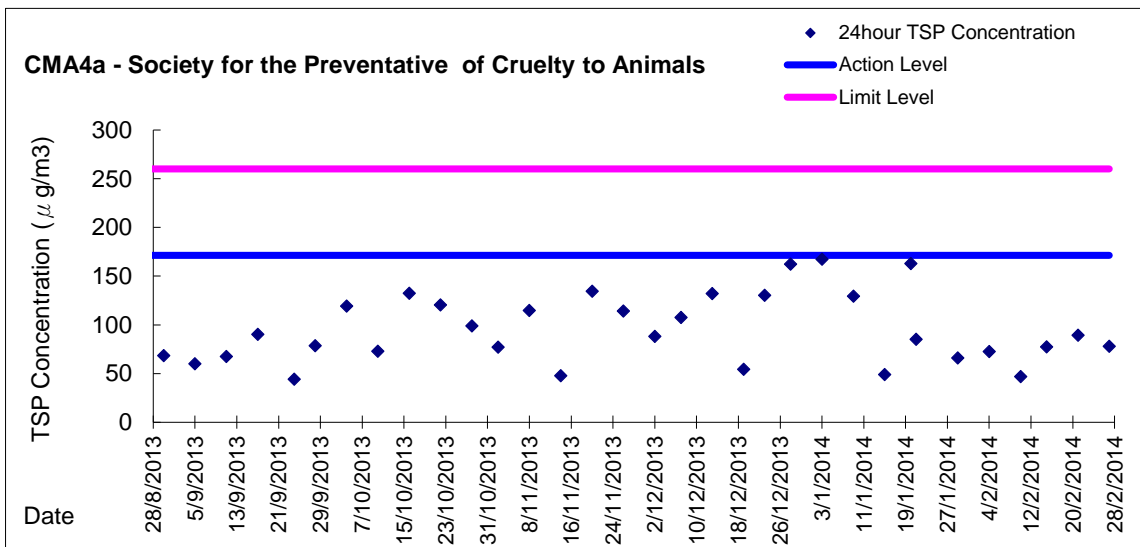
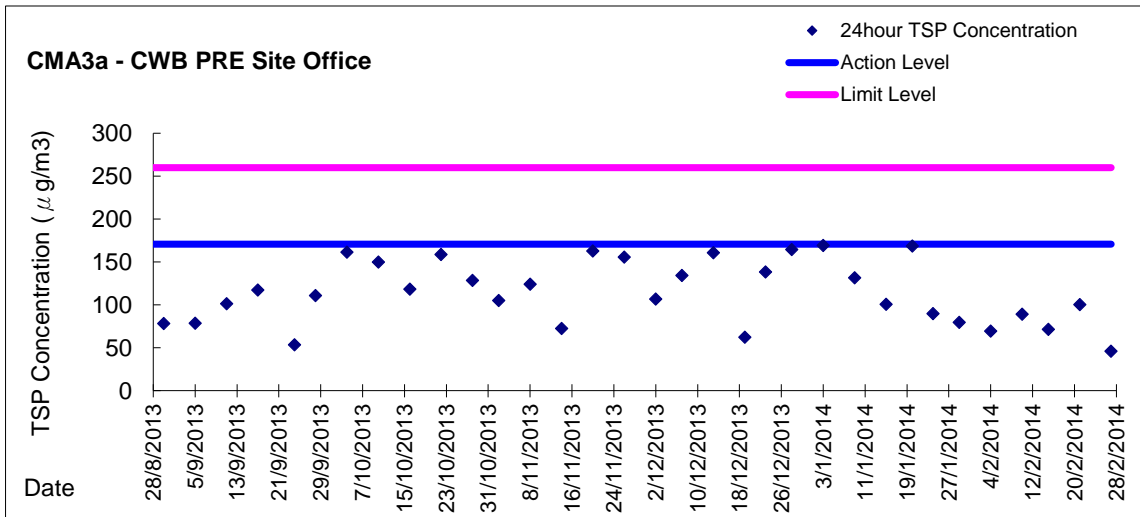
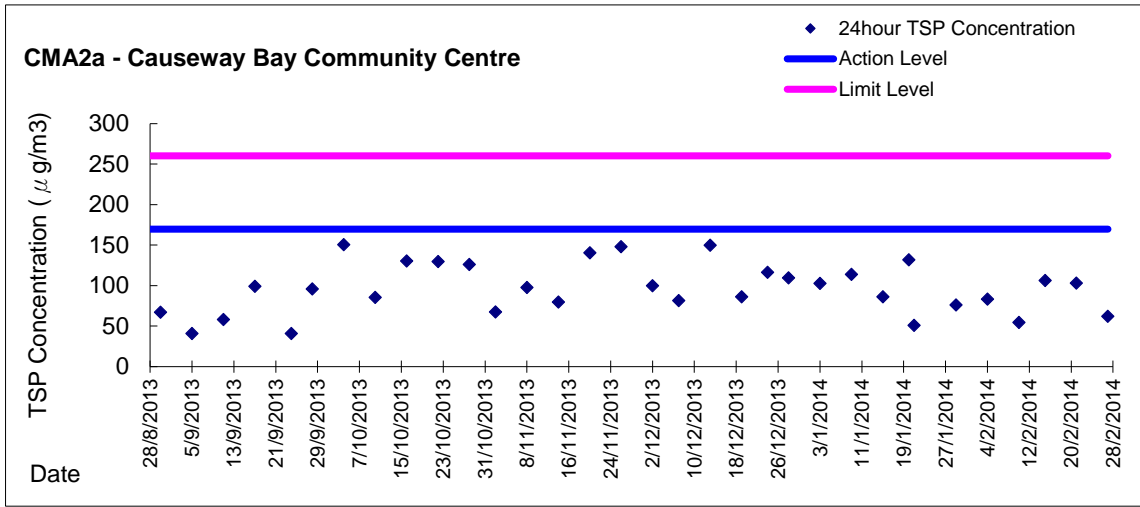
Graphic Presentation of 1 hour TSP Result



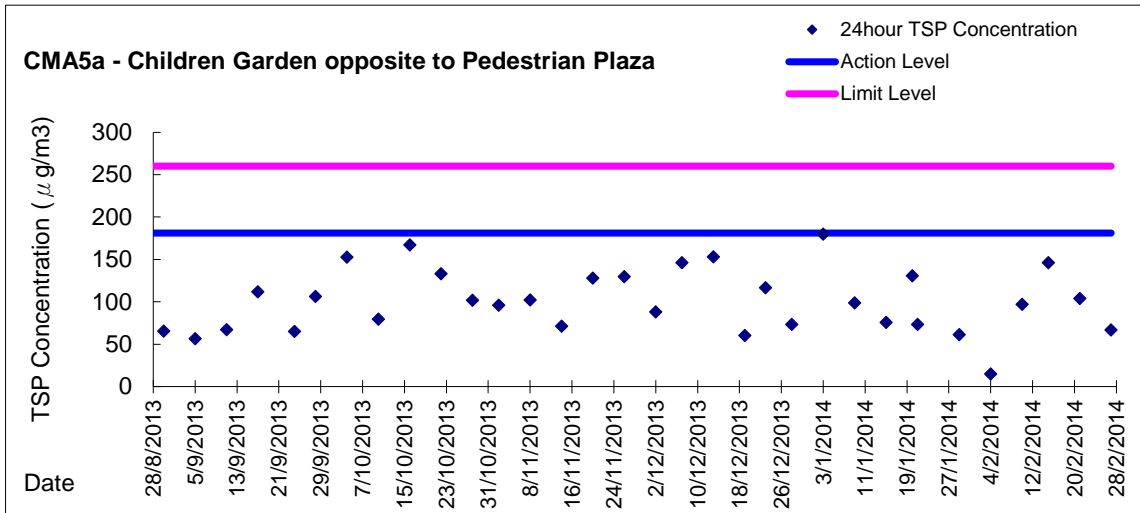
Graphic Presentation of 24 hour TSP Result



Graphic Presentation of 24 hour TSP Result



Graphic Presentation of 24 hour TSP Result





Appendix 5.4
Real Time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data RTN1 (Food and Environmental Hygiene Department Depot)

Table with 7 columns and 951 rows of noise data. Each row contains a date and time stamp followed by a numerical noise value. The data is organized in a grid-like structure with 7 columns and 951 rows.

Real-time Noise Data	RTN1 (Food and Environmental Hygiene Department Depot)
26/2/2014 1:36	61.8
26/2/2014 1:41	51.4
26/2/2014 1:46	45.1
26/2/2014 1:51	61.0
26/2/2014 1:56	61.8
26/2/2014 2:01	61.3
26/2/2014 2:06	60.7
26/2/2014 2:11	61.2
26/2/2014 2:16	57.9
26/2/2014 2:21	61.3
26/2/2014 2:26	60.3
26/2/2014 2:31	61.1
26/2/2014 2:36	59.0
26/2/2014 2:41	60.4
26/2/2014 2:46	61.4
26/2/2014 2:51	61.1
26/2/2014 2:56	59.8
26/2/2014 3:01	61.2
26/2/2014 3:06	60.5
26/2/2014 3:11	60.0
26/2/2014 3:16	60.1
26/2/2014 3:21	59.9
26/2/2014 3:26	60.1
26/2/2014 3:31	59.8
26/2/2014 3:36	60.6
26/2/2014 3:41	60.1
26/2/2014 3:46	60.0
26/2/2014 3:51	60.2
26/2/2014 3:56	60.4
26/2/2014 4:01	60.1
26/2/2014 4:06	60.4
26/2/2014 4:11	59.8
26/2/2014 4:16	60.0
26/2/2014 4:21	59.7
26/2/2014 4:26	60.4
26/2/2014 4:31	59.7
26/2/2014 4:36	55.0
26/2/2014 4:41	59.6
26/2/2014 4:46	60.2
26/2/2014 4:51	59.4
26/2/2014 4:56	59.7
26/2/2014 5:01	60.1
26/2/2014 5:06	59.8
26/2/2014 5:11	59.3
26/2/2014 5:16	60.4
26/2/2014 5:21	59.8
26/2/2014 5:26	59.8
26/2/2014 5:31	59.0
26/2/2014 5:36	60.2
26/2/2014 5:41	60.0
26/2/2014 5:46	59.8
26/2/2014 5:51	60.0
26/2/2014 5:56	60.8
26/2/2014 6:01	59.8
26/2/2014 6:06	61.3
26/2/2014 6:11	54.8
26/2/2014 6:16	60.4
26/2/2014 6:21	61.0
26/2/2014 6:26	61.7
26/2/2014 6:31	61.2
26/2/2014 6:36	61.3
26/2/2014 6:41	54.5
26/2/2014 6:46	61.7
26/2/2014 6:51	62.0
26/2/2014 6:56	53.1
26/2/2014 23:01	58.7
26/2/2014 23:06	61.7
26/2/2014 23:11	60.1
26/2/2014 23:16	57.7
26/2/2014 23:21	58.9
26/2/2014 23:26	57.9
26/2/2014 23:31	57.8
26/2/2014 23:36	57.4
26/2/2014 23:41	59.7
26/2/2014 23:46	58.5
26/2/2014 23:51	56.8
26/2/2014 23:56	58.5
27/2/2014 0:01	57.0
27/2/2014 0:06	55.2
27/2/2014 0:11	54.5
27/2/2014 0:16	52.3
27/2/2014 0:21	54.8
27/2/2014 0:26	50.6
27/2/2014 0:31	61.7
27/2/2014 0:36	61.6
27/2/2014 0:41	61.2
27/2/2014 0:46	61.2
27/2/2014 0:51	60.6
27/2/2014 0:56	61.1
27/2/2014 1:01	60.7
27/2/2014 1:06	60.8
27/2/2014 1:11	60.3
27/2/2014 1:16	60.5
27/2/2014 1:21	61.8
27/2/2014 1:26	61.4
27/2/2014 1:31	59.3
27/2/2014 1:36	59.5
27/2/2014 1:41	59.6
27/2/2014 1:46	59.4
27/2/2014 1:51	58.8
27/2/2014 1:56	59.6
27/2/2014 2:01	59.6
27/2/2014 2:06	60.3
27/2/2014 2:11	59.8
27/2/2014 2:16	59.5
27/2/2014 2:21	59.0
27/2/2014 2:26	59.3
27/2/2014 2:31	58.1
27/2/2014 2:36	57.5
27/2/2014 2:41	58.8
27/2/2014 2:46	58.7
27/2/2014 2:51	58.7
27/2/2014 2:56	58.1
27/2/2014 3:01	57.7
27/2/2014 3:06	57.5
27/2/2014 3:11	58.4
27/2/2014 3:16	57.8
27/2/2014 3:21	57.8
27/2/2014 3:26	57.3
27/2/2014 3:31	57.5
27/2/2014 3:36	57.2
27/2/2014 3:41	57.2
27/2/2014 3:46	58.6
27/2/2014 3:51	57.3
27/2/2014 3:56	58.1
27/2/2014 4:01	57.7
27/2/2014 4:06	58.5
27/2/2014 4:11	58.5
27/2/2014 4:16	58.3
27/2/2014 4:21	57.8
27/2/2014 4:26	57.4
27/2/2014 4:31	58.0
27/2/2014 4:36	58.1
27/2/2014 4:41	58.4
27/2/2014 4:46	57.5
27/2/2014 4:51	58.5
27/2/2014 4:56	58.4
27/2/2014 5:01	58.0
27/2/2014 5:06	59.5
27/2/2014 5:11	59.3
27/2/2014 5:16	59.9
27/2/2014 5:21	58.5
27/2/2014 5:26	59.4
27/2/2014 5:31	58.8
27/2/2014 5:36	59.6
27/2/2014 5:41	60.0
27/2/2014 5:46	60.5
27/2/2014 5:51	60.4
27/2/2014 5:56	61.2
27/2/2014 6:01	60.7
27/2/2014 6:06	60.8
27/2/2014 6:11	60.9
27/2/2014 6:16	61.5
27/2/2014 6:21	40.3
27/2/2014 6:26	54.4
27/2/2014 6:31	56.3
27/2/2014 6:36	56.9
27/2/2014 6:41	58.2
27/2/2014 6:46	60.7
27/2/2014 6:51	59.8
27/2/2014 6:56	61.9
27/2/2014 23:01	59.9
27/2/2014 23:06	61.0
27/2/2014 23:11	61.0
27/2/2014 23:16	60.8
27/2/2014 23:21	59.5
27/2/2014 23:26	60.9
27/2/2014 23:31	60.6
27/2/2014 23:36	62.0
27/2/2014 23:41	59.3
27/2/2014 23:46	58.2
27/2/2014 23:51	58.3
27/2/2014 23:56	59.9

Real-time Noise Data		RTN2a (Hong Kong Electric Centre)	
26/2/2014 1:36	60.4	27/2/2014 2:41	59.7
26/2/2014 1:41	59.4	27/2/2014 2:46	59.1
26/2/2014 1:46	60.5	27/2/2014 2:51	60.8
26/2/2014 1:51	59.6	27/2/2014 2:56	62.2
26/2/2014 1:56	61.2	27/2/2014 3:01	58.9
26/2/2014 2:01	60.0	27/2/2014 3:06	58.1
26/2/2014 2:06	60.1	27/2/2014 3:11	58.5
26/2/2014 2:11	59.5	27/2/2014 3:16	57.3
26/2/2014 2:16	58.5	27/2/2014 3:21	57.7
26/2/2014 2:21	59.3	27/2/2014 3:26	58.5
26/2/2014 2:26	59.9	27/2/2014 3:31	57.7
26/2/2014 2:31	60.6	27/2/2014 3:36	57.8
26/2/2014 2:36	58.0	27/2/2014 3:41	58.4
26/2/2014 2:41	58.2	27/2/2014 3:46	57.5
26/2/2014 2:46	58.2	27/2/2014 3:51	56.5
26/2/2014 2:51	59.1	27/2/2014 3:56	57.7
26/2/2014 2:56	59.4	27/2/2014 4:01	57.4
26/2/2014 3:01	58.6	27/2/2014 4:06	56.4
26/2/2014 3:06	57.7	27/2/2014 4:11	55.8
26/2/2014 3:11	57.9	27/2/2014 4:16	56.0
26/2/2014 3:16	57.8	27/2/2014 4:21	57.4
26/2/2014 3:21	57.8	27/2/2014 4:26	57.2
26/2/2014 3:26	57.0	27/2/2014 4:31	56.9
26/2/2014 3:31	55.8	27/2/2014 4:36	58.4
26/2/2014 3:36	58.6	27/2/2014 4:41	58.2
26/2/2014 3:41	57.1	27/2/2014 4:46	58.3
26/2/2014 3:46	56.7	27/2/2014 4:51	56.8
26/2/2014 3:51	56.0	27/2/2014 4:56	58.2
26/2/2014 3:56	56.7	27/2/2014 5:01	57.3
26/2/2014 4:01	56.8	27/2/2014 5:06	57.6
26/2/2014 4:06	57.9	27/2/2014 5:11	57.7
26/2/2014 4:11	56.2	27/2/2014 5:16	59.0
26/2/2014 4:16	57.4	27/2/2014 5:21	58.2
26/2/2014 4:21	55.4	27/2/2014 5:26	59.1
26/2/2014 4:26	56.3	27/2/2014 5:31	59.3
26/2/2014 4:31	56.5	27/2/2014 5:36	58.9
26/2/2014 4:36	56.3	27/2/2014 5:41	58.9
26/2/2014 4:41	58.4	27/2/2014 5:46	59.8
26/2/2014 4:46	58.3	27/2/2014 5:51	59.3
26/2/2014 4:51	56.4	27/2/2014 5:56	60.4
26/2/2014 4:56	58.5	27/2/2014 6:01	59.6
26/2/2014 5:01	57.3	27/2/2014 6:06	66.6
26/2/2014 5:06	58.7	27/2/2014 6:11	60.5
26/2/2014 5:11	58.9	27/2/2014 6:16	61.2
26/2/2014 5:16	58.1	27/2/2014 6:21	61.2
26/2/2014 5:21	59.5	27/2/2014 6:26	62.5
26/2/2014 5:26	59.0	27/2/2014 6:31	62.7
26/2/2014 5:31	58.6	27/2/2014 6:36	62.5
26/2/2014 5:36	58.9	27/2/2014 6:41	63.5
26/2/2014 5:41	59.5	27/2/2014 6:46	63.6
26/2/2014 5:46	60.0	27/2/2014 6:51	63.8
26/2/2014 5:51	59.1	27/2/2014 6:56	64.3
26/2/2014 5:56	59.1	27/2/2014 23:01	64.2
26/2/2014 6:01	59.3	27/2/2014 23:06	64.3
26/2/2014 6:06	61.1	27/2/2014 23:11	64.1
26/2/2014 6:11	60.7	27/2/2014 23:16	65.1
26/2/2014 6:16	60.8	27/2/2014 23:21	64.5
26/2/2014 6:21	61.3	27/2/2014 23:26	64.0
26/2/2014 6:26	61.9	27/2/2014 23:31	64.1
26/2/2014 6:31	62.2	27/2/2014 23:36	64.0
26/2/2014 6:36	62.5	27/2/2014 23:41	63.8
26/2/2014 6:41	63.2	27/2/2014 23:46	64.5
26/2/2014 6:46	63.3	27/2/2014 23:51	63.3
26/2/2014 6:51	64.0	27/2/2014 23:56	63.6
26/2/2014 6:56	63.7		
26/2/2014 23:01	64.4		
26/2/2014 23:06	64.2		
26/2/2014 23:11	64.0		
26/2/2014 23:16	64.1		
26/2/2014 23:21	64.1		
26/2/2014 23:26	64.2		
26/2/2014 23:31	63.9		
26/2/2014 23:36	63.4		
26/2/2014 23:41	63.9		
26/2/2014 23:46	63.5		
26/2/2014 23:51	63.1		
26/2/2014 23:56	63.2		
27/2/2014 0:01	64.1		
27/2/2014 0:06	63.4		
27/2/2014 0:11	63.1		
27/2/2014 0:16	63.1		
27/2/2014 0:21	63.7		
27/2/2014 0:26	63.3		
27/2/2014 0:31	63.2		
27/2/2014 0:36	62.2		
27/2/2014 0:41	62.3		
27/2/2014 0:46	62.2		
27/2/2014 0:51	62.2		
27/2/2014 0:56	62.4		
27/2/2014 1:01	61.1		
27/2/2014 1:06	61.1		
27/2/2014 1:11	61.5		
27/2/2014 1:16	61.2		
27/2/2014 1:21	61.1		
27/2/2014 1:26	61.2		
27/2/2014 1:31	61.1		
27/2/2014 1:36	59.7		
27/2/2014 1:41	60.3		
27/2/2014 1:46	59.4		
27/2/2014 1:51	61.8		
27/2/2014 1:56	59.6		
27/2/2014 2:01	61.5		
27/2/2014 2:06	59.9		
27/2/2014 2:11	59.5		
27/2/2014 2:16	59.6		
27/2/2014 2:21	60.1		
27/2/2014 2:26	59.1		
27/2/2014 2:31	58.5		
27/2/2014 2:36	59.1		

Real-time Noise Data		RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)	
26/2/2014 1:36	58.6	27/2/2014 2:41	52.6
26/2/2014 1:41	54.4	27/2/2014 2:46	62.8
26/2/2014 1:46	57.4	27/2/2014 2:51	61.5
26/2/2014 1:51	56.0	27/2/2014 2:56	60.1
26/2/2014 1:56	56.2	27/2/2014 3:01	62.9
26/2/2014 2:01	55.6	27/2/2014 3:06	61.5
26/2/2014 2:06	55.7	27/2/2014 3:11	62.2
26/2/2014 2:11	55.9	27/2/2014 3:16	61.5
26/2/2014 2:16	63.0	27/2/2014 3:21	61.0
26/2/2014 2:21	61.9	27/2/2014 3:26	61.1
26/2/2014 2:26	55.4	27/2/2014 3:31	60.8
26/2/2014 2:31	59.7	27/2/2014 3:36	61.1
26/2/2014 2:36	62.3	27/2/2014 3:41	62.4
26/2/2014 2:41	61.8	27/2/2014 3:46	61.3
26/2/2014 2:46	61.4	27/2/2014 3:51	60.4
26/2/2014 2:51	62.7	27/2/2014 3:56	62.0
26/2/2014 2:56	62.8	27/2/2014 4:01	61.9
26/2/2014 3:01	62.2	27/2/2014 4:06	60.4
26/2/2014 3:06	61.8	27/2/2014 4:11	60.0
26/2/2014 3:11	61.5	27/2/2014 4:16	60.9
26/2/2014 3:16	61.6	27/2/2014 4:21	61.2
26/2/2014 3:21	61.9	27/2/2014 4:26	61.2
26/2/2014 3:26	61.3	27/2/2014 4:31	60.9
26/2/2014 3:31	61.0	27/2/2014 4:36	62.5
26/2/2014 3:36	61.7	27/2/2014 4:41	61.2
26/2/2014 3:41	61.8	27/2/2014 4:46	62.4
26/2/2014 3:46	61.0	27/2/2014 4:51	61.1
26/2/2014 3:51	60.7	27/2/2014 4:56	62.7
26/2/2014 3:56	60.2	27/2/2014 5:01	62.0
26/2/2014 4:01	60.6	27/2/2014 5:06	62.0
26/2/2014 4:06	61.7	27/2/2014 5:11	61.8
26/2/2014 4:11	61.3	27/2/2014 5:16	62.7
26/2/2014 4:16	62.0	27/2/2014 5:21	62.7
26/2/2014 4:21	60.4	27/2/2014 5:26	62.8
26/2/2014 4:26	59.8	27/2/2014 5:31	62.4
26/2/2014 4:31	60.6	27/2/2014 5:36	62.6
26/2/2014 4:36	60.8	27/2/2014 5:41	62.9
26/2/2014 4:41	62.0	27/2/2014 5:46	54.1
26/2/2014 4:46	61.9	27/2/2014 5:51	56.7
26/2/2014 4:51	60.6	27/2/2014 5:56	57.8
26/2/2014 4:56	62.5	27/2/2014 6:01	55.0
26/2/2014 5:01	61.8	27/2/2014 6:06	71.0
26/2/2014 5:06	62.2	27/2/2014 6:11	59.6
26/2/2014 5:11	63.0	27/2/2014 6:16	60.2
26/2/2014 5:16	62.5	27/2/2014 6:21	61.3
26/2/2014 5:21	62.9	27/2/2014 6:26	63.5
26/2/2014 5:26	62.3	27/2/2014 6:31	64.0
26/2/2014 5:31	62.6	27/2/2014 6:36	64.9
26/2/2014 5:36	62.9	27/2/2014 6:41	65.2
26/2/2014 5:41	62.7	27/2/2014 6:46	66.0
26/2/2014 5:46	57.4	27/2/2014 6:51	65.7
26/2/2014 5:51	56.0	27/2/2014 6:56	66.6
26/2/2014 5:56	52.6	27/2/2014 23:01	65.2
26/2/2014 6:01	58.1	27/2/2014 23:06	65.4
26/2/2014 6:06	59.0	27/2/2014 23:11	64.9
26/2/2014 6:11	57.6	27/2/2014 23:16	65.4
26/2/2014 6:16	59.9	27/2/2014 23:21	64.8
26/2/2014 6:21	60.7	27/2/2014 23:26	65.3
26/2/2014 6:26	63.2	27/2/2014 23:31	64.2
26/2/2014 6:31	64.4	27/2/2014 23:36	65.0
26/2/2014 6:36	63.6	27/2/2014 23:41	64.8
26/2/2014 6:41	64.8	27/2/2014 23:46	65.2
26/2/2014 6:46	65.5	27/2/2014 23:51	64.6
26/2/2014 6:51	65.8	27/2/2014 23:56	64.8
26/2/2014 6:56	66.6		
26/2/2014 23:01	65.6		
26/2/2014 23:06	65.7		
26/2/2014 23:11	65.5		
26/2/2014 23:16	65.7		
26/2/2014 23:21	65.4		
26/2/2014 23:26	65.0		
26/2/2014 23:31	65.3		
26/2/2014 23:36	64.9		
26/2/2014 23:41	65.3		
26/2/2014 23:46	64.7		
26/2/2014 23:51	65.0		
26/2/2014 23:56	64.0		
27/2/2014 0:01	64.2		
27/2/2014 0:06	64.6		
27/2/2014 0:11	64.2		
27/2/2014 0:16	63.6		
27/2/2014 0:21	63.7		
27/2/2014 0:26	64.3		
27/2/2014 0:31	64.1		
27/2/2014 0:36	61.9		
27/2/2014 0:41	61.8		
27/2/2014 0:46	63.1		
27/2/2014 0:51	62.1		
27/2/2014 0:56	61.1		
27/2/2014 1:01	60.6		
27/2/2014 1:06	58.8		
27/2/2014 1:11	61.3		
27/2/2014 1:16	60.5		
27/2/2014 1:21	60.8		
27/2/2014 1:26	59.5		
27/2/2014 1:31	59.4		
27/2/2014 1:36	54.6		
27/2/2014 1:41	54.6		
27/2/2014 1:46	56.2		
27/2/2014 1:51	59.0		
27/2/2014 1:56	48.6		
27/2/2014 2:01	55.9		
27/2/2014 2:06	59.7		
27/2/2014 2:11	50.6		
27/2/2014 2:16	55.2		
27/2/2014 2:21	62.7		
27/2/2014 2:26	62.8		
27/2/2014 2:31	62.8		
27/2/2014 2:36	62.6		

Real-time Noise Data

RTN4 (Causeway Bay Community Centre)

Normal Day 07:00-19:00

Table with 12 columns of noise data. Each column contains a date and time followed by a noise level value. The data is organized into two main sections: 'Normal Day 07:00-19:00' and 'Normal Day 19:00-23:00 Sunday & Holiday 07:00-23:00'. The first section contains 95 rows of data, and the second section contains 10 rows of data.

Real-time Noise Data	RTN4 (Causeway Bay Community Centre)							
10/2/2014 21:51 56.3	12/2/2014 22:56 55.1	15/2/2014 20:01 51.8	16/2/2014 13:06 55.1	16/2/2014 22:11 55.2	19/2/2014 19:16 51.2			
10/2/2014 21:56 63.3	13/2/2014 19:01 63.1	15/2/2014 20:06 53.3	16/2/2014 13:11 55.9	16/2/2014 22:16 63.2	19/2/2014 19:21 57.5			
10/2/2014 22:01 62.8	13/2/2014 19:06 63.8	15/2/2014 20:11 50.6	16/2/2014 13:16 58.2	16/2/2014 22:21 51.4	19/2/2014 19:26 58.1			
10/2/2014 22:06 63.1	13/2/2014 19:11 63.7	15/2/2014 20:16 55.0	16/2/2014 13:21 51.2	16/2/2014 22:26 63.1	19/2/2014 19:31 59.9			
10/2/2014 22:11 54.8	13/2/2014 19:16 63.5	15/2/2014 20:21 51.1	16/2/2014 13:26 62.3	16/2/2014 22:31 58.4	19/2/2014 19:36 59.8			
10/2/2014 22:16 57.6	13/2/2014 19:21 63.0	15/2/2014 20:26 49.4	16/2/2014 13:31 61.9	16/2/2014 22:36 51.4	19/2/2014 19:41 59.3			
10/2/2014 22:21 55.2	13/2/2014 19:26 63.7	15/2/2014 20:31 63.5	16/2/2014 13:36 62.7	16/2/2014 22:41 63.2	19/2/2014 19:46 58.9			
10/2/2014 22:26 57.8	13/2/2014 19:31 63.6	15/2/2014 20:36 50.6	16/2/2014 13:41 63.4	16/2/2014 22:46 63.0	19/2/2014 19:51 60.7			
10/2/2014 22:31 61.6	13/2/2014 19:36 63.1	15/2/2014 20:41 63.2	16/2/2014 13:46 62.7	16/2/2014 22:51 62.7	19/2/2014 19:56 60.5			
10/2/2014 22:36 40.3	13/2/2014 19:41 62.9	15/2/2014 20:46 51.1	16/2/2014 13:51 63.3	16/2/2014 22:56 58.9	19/2/2014 20:01 60.3			
10/2/2014 22:41 50.0	13/2/2014 19:46 65.0	15/2/2014 20:51 52.5	16/2/2014 13:56 53.4	17/2/2014 19:01 59.1	19/2/2014 20:06 61.3			
10/2/2014 22:46 49.4	13/2/2014 19:51 62.8	15/2/2014 20:56 47.4	16/2/2014 14:01 54.4	17/2/2014 19:06 56.8	19/2/2014 20:11 60.3			
10/2/2014 22:51 54.1	13/2/2014 19:56 63.0	15/2/2014 21:01 63.4	16/2/2014 14:06 57.6	17/2/2014 19:11 58.6	19/2/2014 20:16 59.9			
10/2/2014 22:56 49.4	13/2/2014 20:01 63.5	15/2/2014 21:06 51.9	16/2/2014 14:11 56.8	17/2/2014 19:16 57.2	19/2/2014 20:21 59.4			
11/2/2014 19:01 62.4	13/2/2014 20:06 61.1	15/2/2014 21:11 47.8	16/2/2014 14:16 53.4	17/2/2014 19:21 59.0	19/2/2014 20:26 59.5			
11/2/2014 19:06 61.1	13/2/2014 20:11 61.1	15/2/2014 21:16 63.3	16/2/2014 14:21 58.9	17/2/2014 19:26 56.5	19/2/2014 20:31 58.2			
11/2/2014 19:11 60.7	13/2/2014 20:16 61.8	15/2/2014 21:21 63.7	16/2/2014 14:26 51.9	17/2/2014 19:31 54.0	19/2/2014 20:36 58.9			
11/2/2014 19:16 61.2	13/2/2014 20:21 62.5	15/2/2014 21:26 63.6	16/2/2014 14:31 55.3	17/2/2014 19:36 57.9	19/2/2014 20:41 54.5			
11/2/2014 19:21 61.6	13/2/2014 20:26 60.0	15/2/2014 21:31 45.8	16/2/2014 14:36 56.5	17/2/2014 19:41 56.2	19/2/2014 20:46 56.8			
11/2/2014 19:26 61.0	13/2/2014 20:31 61.2	15/2/2014 21:36 51.8	16/2/2014 14:41 59.1	17/2/2014 19:46 55.2	19/2/2014 20:51 57.3			
11/2/2014 19:31 60.1	13/2/2014 20:36 61.5	15/2/2014 21:41 63.5	16/2/2014 14:46 55.8	17/2/2014 19:51 58.5	19/2/2014 20:56 51.6			
11/2/2014 19:36 62.2	13/2/2014 20:41 60.7	15/2/2014 21:46 51.1	16/2/2014 14:51 58.0	17/2/2014 19:56 52.7	19/2/2014 21:01 58.4			
11/2/2014 19:41 60.3	13/2/2014 20:46 61.5	15/2/2014 21:51 50.0	16/2/2014 14:56 54.0	17/2/2014 20:01 55.2	19/2/2014 21:06 52.7			
11/2/2014 19:46 59.1	13/2/2014 20:51 60.1	15/2/2014 21:56 58.4	16/2/2014 15:01 57.4	17/2/2014 20:06 52.2	19/2/2014 21:11 56.9			
11/2/2014 19:51 59.6	13/2/2014 20:56 60.0	15/2/2014 22:01 53.9	16/2/2014 15:06 57.9	17/2/2014 20:11 54.0	19/2/2014 21:16 55.2			
11/2/2014 19:56 60.4	13/2/2014 21:01 59.0	15/2/2014 22:06 52.2	16/2/2014 15:11 54.7	17/2/2014 20:16 50.2	19/2/2014 21:21 56.0			
11/2/2014 20:01 60.1	13/2/2014 21:06 61.0	15/2/2014 22:11 52.5	16/2/2014 15:16 58.7	17/2/2014 20:21 63.6	19/2/2014 21:26 58.7			
11/2/2014 20:06 60.9	13/2/2014 21:11 60.6	15/2/2014 22:16 63.5	16/2/2014 15:21 57.0	17/2/2014 20:26 57.6	19/2/2014 21:31 55.8			
11/2/2014 20:11 58.6	13/2/2014 21:16 59.7	15/2/2014 22:21 55.2	16/2/2014 15:26 58.7	17/2/2014 20:31 63.5	19/2/2014 21:36 58.2			
11/2/2014 20:16 59.1	13/2/2014 21:21 59.5	15/2/2014 22:26 63.7	16/2/2014 15:31 59.2	17/2/2014 20:36 53.5	19/2/2014 21:41 57.6			
11/2/2014 20:21 59.3	13/2/2014 21:26 58.8	15/2/2014 22:31 63.5	16/2/2014 15:36 55.2	17/2/2014 20:41 51.4	19/2/2014 21:46 56.1			
11/2/2014 20:26 57.0	13/2/2014 21:31 58.9	15/2/2014 22:36 50.0	16/2/2014 15:41 58.3	17/2/2014 20:46 55.9	19/2/2014 21:51 59.4			
11/2/2014 20:31 58.9	13/2/2014 21:36 59.5	15/2/2014 22:41 54.6	16/2/2014 15:46 54.9	17/2/2014 20:51 58.1	19/2/2014 21:56 59.3			
11/2/2014 20:36 57.5	13/2/2014 21:41 60.3	15/2/2014 22:46 63.2	16/2/2014 15:51 60.5	17/2/2014 20:56 59.6	19/2/2014 22:01 59.4			
11/2/2014 20:41 63.4	13/2/2014 21:46 61.4	15/2/2014 22:51 63.1	16/2/2014 15:56 57.3	17/2/2014 21:01 63.2	19/2/2014 22:06 57.2			
11/2/2014 20:46 54.6	13/2/2014 21:51 62.0	15/2/2014 22:56 63.6	16/2/2014 16:01 52.5	17/2/2014 21:06 62.6	19/2/2014 22:11 58.7			
11/2/2014 20:51 60.0	13/2/2014 21:56 59.5	16/2/2014 7:01 52.6	16/2/2014 16:06 58.6	17/2/2014 21:11 63.6	19/2/2014 22:16 56.1			
11/2/2014 20:56 56.1	13/2/2014 22:01 61.4	16/2/2014 7:06 52.5	16/2/2014 16:11 58.5	17/2/2014 21:16 63.3	19/2/2014 22:21 55.8			
11/2/2014 21:01 51.2	13/2/2014 22:06 61.0	16/2/2014 7:11 50.7	16/2/2014 16:16 55.6	17/2/2014 21:21 48.2	19/2/2014 22:26 56.4			
11/2/2014 21:06 51.9	13/2/2014 22:11 61.6	16/2/2014 7:16 51.0	16/2/2014 16:21 59.4	17/2/2014 21:26 63.1	19/2/2014 22:31 52.1			
11/2/2014 21:11 59.4	13/2/2014 22:16 61.6	16/2/2014 7:21 51.8	16/2/2014 16:26 57.5	17/2/2014 21:31 49.2	19/2/2014 22:36 57.0			
11/2/2014 21:16 55.5	13/2/2014 22:21 61.6	16/2/2014 7:26 52.6	16/2/2014 16:31 55.6	17/2/2014 21:36 63.5	19/2/2014 22:41 53.8			
11/2/2014 21:21 56.3	13/2/2014 22:26 60.5	16/2/2014 7:31 53.1	16/2/2014 16:36 57.2	17/2/2014 21:41 63.6	19/2/2014 22:46 55.6			
11/2/2014 21:26 50.4	13/2/2014 22:31 62.4	16/2/2014 7:36 55.0	16/2/2014 16:41 55.6	17/2/2014 21:46 63.5	19/2/2014 22:51 50.0			
11/2/2014 21:31 51.9	13/2/2014 22:36 62.8	16/2/2014 7:41 52.9	16/2/2014 16:46 59.8	17/2/2014 21:51 53.9	19/2/2014 22:56 54.4			
11/2/2014 21:36 54.3	13/2/2014 22:41 60.7	16/2/2014 7:46 52.4	16/2/2014 16:51 53.9	17/2/2014 21:56 46.9	20/2/2014 19:01 58.1			
11/2/2014 21:41 57.1	13/2/2014 22:46 61.1	16/2/2014 7:51 53.0	16/2/2014 16:56 57.7	17/2/2014 22:01 56.6	20/2/2014 19:06 61.6			
11/2/2014 21:46 56.3	13/2/2014 22:51 61.6	16/2/2014 7:56 51.6	16/2/2014 17:01 62.1	17/2/2014 22:06 63.7	20/2/2014 19:11 58.8			
11/2/2014 21:51 53.5	13/2/2014 22:56 60.8	16/2/2014 8:01 52.2	16/2/2014 17:06 57.6	17/2/2014 22:11 43.4	20/2/2014 19:16 58.6			
11/2/2014 21:56 56.6	14/2/2014 19:01 60.1	16/2/2014 8:06 51.3	16/2/2014 17:11 59.0	17/2/2014 22:16 63.2	20/2/2014 19:21 60.8			
11/2/2014 22:01 52.2	14/2/2014 19:06 59.8	16/2/2014 8:11 51.0	16/2/2014 17:16 56.8	17/2/2014 22:21 40.3	20/2/2014 19:26 59.5			
11/2/2014 22:06 58.4	14/2/2014 19:11 59.2	16/2/2014 8:16 53.2	16/2/2014 17:21 57.9	17/2/2014 22:26 63.6	20/2/2014 19:31 58.8			
11/2/2014 22:11 57.2	14/2/2014 19:16 59.2	16/2/2014 8:21 52.3	16/2/2014 17:26 61.2	17/2/2014 22:31 63.4	20/2/2014 19:36 57.2			
11/2/2014 22:16 55.1	14/2/2014 19:21 62.7	16/2/2014 8:26 51.2	16/2/2014 17:31 54.0	17/2/2014 22:36 63.3	20/2/2014 19:41 63.7			
11/2/2014 22:21 55.7	14/2/2014 19:26 60.0	16/2/2014 8:31 51.3	16/2/2014 17:36 57.1	17/2/2014 22:41 63.4	20/2/2014 19:46 63.5			
11/2/2014 22:26 58.3	14/2/2014 19:31 61.0	16/2/2014 8:36 51.8	16/2/2014 17:41 55.2	17/2/2014 22:46 63.3	20/2/2014 19:51 62.9			
11/2/2014 22:31 57.0	14/2/2014 19:36 61.0	16/2/2014 8:41 50.7	16/2/2014 17:46 58.8	17/2/2014 22:51 63.4	20/2/2014 19:56 62.9			
11/2/2014 22:36 52.9	14/2/2014 19:41 60.4	16/2/2014 8:46 51.7	16/2/2014 17:51 57.6	17/2/2014 22:56 62.7	20/2/2014 20:01 63.5			
11/2/2014 22:41 54.8	14/2/2014 19:46 60.3	16/2/2014 8:51 50.8	16/2/2014 17:56 58.4	18/2/2014 19:01 62.8	20/2/2014 20:06 63.3			
11/2/2014 22:46 48.9	14/2/2014 19:51 60.6	16/2/2014 8:56 52.5	16/2/2014 18:01 58.3	18/2/2014 19:06 61.8	20/2/2014 20:11 62.6			
11/2/2014 22:51 50.4	14/2/2014 19:56 61.5	16/2/2014 9:01 51.2	16/2/2014 18:06 55.2	18/2/2014 19:11 60.1	20/2/2014 20:16 62.3			
11/2/2014 22:56 55.0	14/2/2014 20:01 61.8	16/2/2014 9:06 51.8	16/2/2014 18:11 57.2	18/2/2014 19:16 64.0	20/2/2014 20:21 63.4			
12/2/2014 19:01 61.4	14/2/2014 20:06 61.9	16/2/2014 9:11 51.7	16/2/2014 18:16 56.8	18/2/2014 19:21 60.2	20/2/2014 20:26 63.4			
12/2/2014 19:06 59.0	14/2/2014 20:11 55.6	16/2/2014 9:16 51.6	16/2/2014 18:21 56.3	18/2/2014 19:26 61.3	20/2/2014 20:31 56.0			
12/2/2014 19:11 59.2	14/2/2014 20:16 57.7	16/2/2014 9:21 51.4	16/2/2014 18:26 55.2	18/2/2014 19:31 60.7	20/2/2014 20:36 56.1			
12/2/2014 19:16 59.2	14/2/2014 20:21 60.5	16/2/2014 9:26 52.2	16/2/2014 18:31 57.6	18/2/2014 19:36 59.6	20/2/2014 20:41 55.7			
12/2/2014 19:21 60.3	14/2/2014 20:26 59.3	16/2/2014 9:31 50.4	16/2/2014 18:36 58.2	18/2/2014 19:41 61.5	20/2/2014 20:46 52.4			
12/2/2014 19:26 59.8	14/2/2014 20:31 59.4	16/2/2014 9:36 51.3	16/2/2014 18:41 54.8	18/2/2014 19:46 59.3	20/2/2014 20:51 53.9			
12/2/2014 19:31 59.4	14/2/2014 20:36 56.5	16/2/2014 9:41 53.7	16/2/2014 18:46 54.1	18/2/2014 19:51 60.7	20/2/2014 20:56 55.9			
12/2/2014 19:36 60.5	14/2/2014 20:41 58.0	16/2/2014 9:46 56.7	16/2/2014 18:51 56.9	18/2/2014 19:56 60.2	20/2/2014 21:01 60.7			
12/2/2014 19:41 58.7	14/2/2014 20:46 58.0	16/2/2014 9:51 57.0	16/2/2014 18:56 56.3	18/2/2014 20:01 57.1	20/2/2014 21:06 55.9			
12/2/2014 19:46 57.9	14/2/2014 20:51 56.8	16/2/2014 9:56 58.6	16/2/2014 19:01 63.7	18/2/2014 20:06 57.3	20/2/2014 21:11 56.8			
12/2/2014 19:51 60.1	14/2/2014 20:56 56.1	16/2/2014 10:01 57.9	16/2/2014 19:06 63.7	18/2/2014 20:11 59.4	20/2/2014 21:16 56.8			
12/2/2014 19:56 58.6	14/2/2014 21:01 53.5	16/2/2014 10:06 57.6	16/2/2014 19:11 40.3	18/2/2014 20:16 50.6	20/2/2014 21:21 53.3			
12/2/2014 20:01 58.6	14/2/2014 21:06 53.7	16/2/2014 10:11 57.9	16/2/2014 19:16 49.7	18/2/2014 20:21 54.8	20/2/2014 21:26 57.8			
12/2/2014 20:06 59.7	14/2/2014 21:11 58.2	16/2/2014 10:16 57.1	16/2/2014 19:21 54.2	18/2/2014 20:26 54.5	20/2/2014 21:31 58.1			
12/2/2014 20:11 53.8	14/2/2014 21:16 57.0	16/2/2014 10:21 57.8	16/2/2014 19:26 55.2	18/2/2014 20:31 50.0	20/2/2014 21:36 56.9			
12/2/2014 20:16 63.6	14/2/2014 21:21 59.5	16/2/2014 10:26 57.5	16/2/2014 19:31 54.1	18/2/2014 20:36 57.0	20/2/2014 21:41 54.7			
12/2/2014 20:21 56.3	14/2/2014 21:26 59.0	16/2/2014 10:31 59.7	16/2/2014 19:36 56.8	18/2/2014 20:41 54.4	20/2/2014 21:46 54.6			
12/2/2014 20:26 57.7	14/2/2014 21:31 55.6	16/2/2014 10:36 63.7	16/2/2014 19:41 63.3	18/2/2014 20:46 56.8	20/2/2014 21:51 54.7			
12/								

Real-time Noise Data	RTN4 (Causeway Bay Community Centre)				
21/2/2014 20:21 56.9	23/2/2014 9:26 55.9	23/2/2014 18:31 63.7	25/2/2014 19:36 56.4	27/2/2014 20:41 63.4	28/1/2014 6:36 58.0
21/2/2014 20:26 60.8	23/2/2014 9:31 55.6	23/2/2014 18:36 53.2	25/2/2014 19:41 54.1	27/2/2014 20:46 63.4	28/1/2014 6:41 58.5
21/2/2014 20:31 57.7	23/2/2014 9:36 58.8	23/2/2014 18:41 57.7	25/2/2014 19:46 63.6	27/2/2014 20:51 62.7	28/1/2014 6:46 58.8
21/2/2014 20:36 58.0	23/2/2014 9:41 55.8	23/2/2014 18:46 56.2	25/2/2014 19:51 55.5	27/2/2014 20:56 46.9	28/1/2014 6:51 59.1
21/2/2014 20:41 55.6	23/2/2014 9:46 55.2	23/2/2014 18:51 56.9	25/2/2014 19:56 53.8	27/2/2014 21:01 63.0	28/1/2014 6:56 60.6
21/2/2014 20:46 58.3	23/2/2014 9:51 57.1	23/2/2014 18:56 57.0	25/2/2014 20:01 56.8	27/2/2014 21:06 63.5	28/1/2014 7:01 57.4
21/2/2014 20:51 54.8	23/2/2014 9:56 56.5	23/2/2014 19:01 47.4	25/2/2014 20:06 55.2	27/2/2014 21:11 63.3	28/1/2014 7:06 59.6
21/2/2014 20:56 53.4	23/2/2014 10:01 54.7	23/2/2014 19:06 51.1	25/2/2014 20:11 57.3	27/2/2014 21:16 63.1	28/1/2014 7:11 60.3
21/2/2014 21:01 63.3	23/2/2014 10:06 55.9	23/2/2014 19:11 48.2	25/2/2014 20:16 55.8	27/2/2014 21:21 63.3	28/1/2014 7:16 57.4
21/2/2014 21:06 52.9	23/2/2014 10:11 55.2	23/2/2014 19:16 53.2	25/2/2014 20:21 53.7	27/2/2014 21:26 63.6	28/1/2014 7:21 58.0
21/2/2014 21:11 57.7	23/2/2014 10:16 63.3	23/2/2014 19:21 58.1	25/2/2014 20:26 63.5	27/2/2014 21:31 46.4	28/1/2014 7:26 57.6
21/2/2014 21:16 51.4	23/2/2014 10:21 56.1	23/2/2014 19:26 63.7	25/2/2014 20:31 52.4	27/2/2014 21:36 62.9	28/1/2014 7:31 56.7
21/2/2014 21:21 54.0	23/2/2014 10:26 52.5	23/2/2014 19:31 56.3	25/2/2014 20:36 63.6	27/2/2014 21:41 63.2	28/1/2014 7:36 58.7
21/2/2014 21:26 53.8	23/2/2014 10:31 57.3	23/2/2014 19:36 52.2	25/2/2014 20:41 51.4	27/2/2014 21:46 63.3	28/1/2014 7:41 58.3
21/2/2014 21:31 55.1	23/2/2014 10:36 49.7	23/2/2014 19:41 63.2	25/2/2014 20:46 63.4	27/2/2014 21:51 63.6	28/1/2014 7:46 56.4
21/2/2014 21:36 56.6	23/2/2014 10:41 63.5	23/2/2014 19:46 63.1	25/2/2014 20:51 63.4	27/2/2014 21:56 63.1	28/1/2014 7:51 59.6
21/2/2014 21:41 57.4	23/2/2014 10:46 63.0	23/2/2014 19:51 56.8	25/2/2014 20:56 63.2	27/2/2014 22:01 63.7	28/1/2014 7:56 58.7
21/2/2014 21:46 54.3	23/2/2014 10:51 63.5	23/2/2014 19:56 63.4	25/2/2014 21:01 63.3	27/2/2014 22:06 46.4	29/1/2014 0:01 54.9
21/2/2014 21:51 57.1	23/2/2014 10:56 55.9	23/2/2014 20:01 63.5	25/2/2014 21:06 63.4	27/2/2014 22:11 63.6	29/1/2014 0:06 57.8
21/2/2014 21:56 52.5	23/2/2014 11:01 54.7	23/2/2014 20:06 63.5	25/2/2014 21:11 45.8	27/2/2014 22:16 63.5	29/1/2014 0:11 55.7
21/2/2014 22:01 54.3	23/2/2014 11:06 55.4	23/2/2014 20:11 53.3	25/2/2014 21:16 63.0	27/2/2014 22:21 54.8	29/1/2014 0:16 56.8
21/2/2014 22:06 63.5	23/2/2014 11:11 63.6	23/2/2014 20:16 52.5	25/2/2014 21:21 46.4	27/2/2014 22:26 63.5	29/1/2014 0:21 55.3
21/2/2014 22:11 57.4	23/2/2014 11:16 49.7	23/2/2014 20:21 37.3	25/2/2014 21:26 63.6	27/2/2014 22:31 63.7	29/1/2014 0:26 56.9
21/2/2014 22:16 57.3	23/2/2014 11:21 54.9	23/2/2014 20:26 63.3	25/2/2014 21:31 51.1	27/2/2014 22:36 63.2	29/1/2014 0:31 57.8
21/2/2014 22:21 57.5	23/2/2014 11:26 58.4	23/2/2014 20:31 37.3	25/2/2014 21:36 63.5	27/2/2014 22:41 63.4	29/1/2014 0:36 50.9
21/2/2014 22:26 58.9	23/2/2014 11:31 63.2	23/2/2014 20:36 52.2	25/2/2014 21:41 60.6	27/2/2014 22:46 63.4	29/1/2014 0:41 53.3
21/2/2014 22:31 52.9	23/2/2014 11:36 56.4	23/2/2014 20:41 63.1	25/2/2014 21:46 49.4	27/2/2014 22:51 63.6	29/1/2014 0:46 55.0
21/2/2014 22:36 57.0	23/2/2014 11:41 63.5	23/2/2014 20:46 50.4	25/2/2014 21:51 63.4	27/2/2014 22:56 63.2	29/1/2014 0:51 60.1
21/2/2014 22:41 54.7	23/2/2014 11:46 54.3	23/2/2014 20:51 63.4	25/2/2014 21:56 63.4		29/1/2014 0:56 51.4
21/2/2014 22:46 57.2	23/2/2014 11:51 57.8	23/2/2014 20:56 63.0	25/2/2014 22:01 63.5	Night time: 23:00-07:00	29/1/2014 1:01 60.4
21/2/2014 22:51 57.3	23/2/2014 11:56 55.4	23/2/2014 21:01 63.7	25/2/2014 22:06 62.8	28/1/2014 0:01 59.7	29/1/2014 1:06 60.2
21/2/2014 22:56 52.7	23/2/2014 12:01 54.4	23/2/2014 21:06 63.3	25/2/2014 22:11 50.6	28/1/2014 0:06 54.8	29/1/2014 1:11 48.6
22/2/2014 19:01 63.6	23/2/2014 12:06 56.6	23/2/2014 21:11 63.4	25/2/2014 22:16 63.5	28/1/2014 0:11 58.9	29/1/2014 1:16 60.6
22/2/2014 19:06 63.6	23/2/2014 12:11 58.6	23/2/2014 21:16 63.7	25/2/2014 22:21 45.1	28/1/2014 0:16 51.8	29/1/2014 1:21 52.7
22/2/2014 19:11 56.5	23/2/2014 12:16 56.6	23/2/2014 21:21 55.6	25/2/2014 22:26 63.5	28/1/2014 0:21 54.6	29/1/2014 1:26 59.8
22/2/2014 19:16 40.3	23/2/2014 12:21 56.6	23/2/2014 21:26 63.3	25/2/2014 22:31 63.5	28/1/2014 0:26 51.1	29/1/2014 1:31 60.1
22/2/2014 19:21 52.1	23/2/2014 12:26 54.7	23/2/2014 21:31 63.4	25/2/2014 22:36 63.0	28/1/2014 0:31 54.1	29/1/2014 1:36 60.1
22/2/2014 19:26 63.4	23/2/2014 12:31 56.5	23/2/2014 21:36 57.8	25/2/2014 22:41 63.4	28/1/2014 0:36 45.7	29/1/2014 1:41 59.4
22/2/2014 19:31 47.4	23/2/2014 12:36 50.2	23/2/2014 21:41 48.5	25/2/2014 22:46 63.6	28/1/2014 0:41 60.8	29/1/2014 1:46 59.3
22/2/2014 19:36 57.2	23/2/2014 12:41 56.3	23/2/2014 21:46 63.4	25/2/2014 22:51 63.3	28/1/2014 0:46 60.8	29/1/2014 1:51 60.6
22/2/2014 19:41 56.3	23/2/2014 12:46 58.4	23/2/2014 21:51 63.7	25/2/2014 22:56 54.7	28/1/2014 0:51 60.2	29/1/2014 1:56 59.0
22/2/2014 19:46 57.9	23/2/2014 12:51 58.8	23/2/2014 21:56 48.9	26/2/2014 19:01 56.6	28/1/2014 0:56 54.6	29/1/2014 2:01 59.8
22/2/2014 19:51 50.0	23/2/2014 12:56 57.5	23/2/2014 22:01 63.3	26/2/2014 19:06 58.9	28/1/2014 1:01 60.8	29/1/2014 2:06 59.4
22/2/2014 19:56 57.1	23/2/2014 13:01 57.7	23/2/2014 22:06 63.7	26/2/2014 19:11 56.6	28/1/2014 1:06 60.0	29/1/2014 2:11 58.3
22/2/2014 20:01 57.6	23/2/2014 13:06 48.9	23/2/2014 22:11 45.8	26/2/2014 19:16 62.5	28/1/2014 1:11 59.9	29/1/2014 2:16 58.8
22/2/2014 20:06 52.2	23/2/2014 13:11 54.7	23/2/2014 22:16 63.1	26/2/2014 19:21 56.4	28/1/2014 1:16 60.2	29/1/2014 2:21 59.0
22/2/2014 20:11 48.2	23/2/2014 13:16 54.2	23/2/2014 22:21 63.3	26/2/2014 19:26 58.8	28/1/2014 1:21 59.9	29/1/2014 2:26 60.8
22/2/2014 20:16 57.8	23/2/2014 13:21 55.5	23/2/2014 22:26 63.4	26/2/2014 19:31 55.5	28/1/2014 1:26 59.6	29/1/2014 2:31 58.3
22/2/2014 20:21 51.9	23/2/2014 13:26 58.2	23/2/2014 22:31 57.0	26/2/2014 19:36 57.5	28/1/2014 1:31 60.0	29/1/2014 2:36 58.0
22/2/2014 20:26 56.9	23/2/2014 13:31 50.2	23/2/2014 22:36 63.4	26/2/2014 19:41 55.8	28/1/2014 1:36 59.2	29/1/2014 2:41 58.2
22/2/2014 20:31 59.4	23/2/2014 13:36 55.4	23/2/2014 22:41 63.3	26/2/2014 19:46 56.4	28/1/2014 1:41 59.1	29/1/2014 2:46 58.6
22/2/2014 20:36 56.5	23/2/2014 13:41 55.0	23/2/2014 22:46 63.2	26/2/2014 19:51 58.1	28/1/2014 1:46 60.2	29/1/2014 2:51 58.6
22/2/2014 20:41 40.3	23/2/2014 13:46 51.9	23/2/2014 22:51 63.5	26/2/2014 19:56 58.4	28/1/2014 1:51 58.9	29/1/2014 2:56 59.4
22/2/2014 20:46 44.3	23/2/2014 13:51 56.3	23/2/2014 22:56 63.2	26/2/2014 20:01 57.5	28/1/2014 1:56 58.4	29/1/2014 3:01 58.6
22/2/2014 20:51 56.3	23/2/2014 13:56 50.4	24/2/2014 19:01 59.4	26/2/2014 20:06 52.1	28/1/2014 2:01 58.9	29/1/2014 3:06 57.2
22/2/2014 20:56 63.1	23/2/2014 14:01 48.9	24/2/2014 19:06 56.0	26/2/2014 20:11 53.8	28/1/2014 2:06 58.6	29/1/2014 3:11 58.8
22/2/2014 21:01 63.6	23/2/2014 14:06 51.1	24/2/2014 19:11 58.2	26/2/2014 20:16 48.2	28/1/2014 2:11 59.3	29/1/2014 3:16 57.0
22/2/2014 21:06 54.4	23/2/2014 14:11 55.8	24/2/2014 19:16 59.6	26/2/2014 20:21 63.0	28/1/2014 2:16 60.3	29/1/2014 3:21 59.2
22/2/2014 21:11 53.2	23/2/2014 14:16 57.2	24/2/2014 19:21 58.5	26/2/2014 20:26 56.9	28/1/2014 2:21 58.2	29/1/2014 3:26 57.2
22/2/2014 21:16 52.5	23/2/2014 14:21 57.3	24/2/2014 19:26 57.8	26/2/2014 20:31 56.1	28/1/2014 2:26 58.7	29/1/2014 3:31 57.8
22/2/2014 21:21 63.4	23/2/2014 14:26 48.5	24/2/2014 19:31 59.2	26/2/2014 20:36 52.7	28/1/2014 2:31 57.6	29/1/2014 3:36 58.5
22/2/2014 21:26 44.3	23/2/2014 14:31 50.4	24/2/2014 19:36 59.6	26/2/2014 20:41 54.1	28/1/2014 2:36 57.3	29/1/2014 3:41 58.0
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22/2/2014 21:56 54.8	23/2/2014 15:01 63.6	24/2/2014 20:06 55.6	26/2/2014 21:11 48.9	28/1/2014 3:06 57.0	29/1/2014 4:11 57.9
22/2/2014 22:01 63.3	23/2/2014 15:06 53.8	24/2/2014 20:11 54.5	26/2/2014 21:16 63.3	28/1/2014 3:11 56.3	29/1/2014 4:16 57.1
22/2/2014 22:06 51.1	23/2/2014 15:11 63.6	24/2/2014 20:16 54.3	26/2/2014 21:21 49.7	28/1/2014 3:16 57.3	29/1/2014 4:21 56.9
22/2/2014 22:11 56.9	23/2/2014 15:16 52.8	24/2/2014 20:21 57.3	26/2/2014 21:26 63.7	28/1/2014 3:21 59.1	29/1/2014 4:26 57.9
22/2/2014 22:16 63.7	23/2/2014 15:21 56.1	24/2/2014 20:26 52.1	26/2/2014 21:31 55.3	28/1/2014 3:26 55.7	29/1/2014 4:31 57.1
22/2/2014 22:21 63.7	23/2/2014 15:26 50.9	24/2/2014 20:31 56.9	26/2/2014 21:36 63.5	28/1/2014 3:31 57.9	29/1/2014 4:36 57.7
22/2/2014 22:26 63.6	23/2/2014 15:31 50.0	24/2/2014 20:36 54.2	26/2/2014 21:41 45.1	28/1/2014 3:36 57.4	29/1/2014 4:41 57.0
22/2/2014 22:31 58.0	23/2/2014 15:36 55.2	24/2/2014 20:41 63.6	26/2/2014 21:46 54.0	28/1/2014 3:41 60.1	29/1/2014 4:46 58.8
22/2/2014 22:36 52.1	23/2/2014 15:41 63.7	24/2/2014 20:46 44.3	26/2/2014 21:51 55.2	28/1/2014 3:46 57.0	29/1/2014 4:51 56.6
22/2/2014 22:41 63.6	23/2/2014 15:46 62.5	24/2/2014 20:51 63.7	26/2/2014 21:56 53.5	28/1/2014 3:51 55.8	29/1/2014 4:56 57.3
22/2/2014 22:46 50.6	23/2/2014 15:51 46.9	24/2/2014 20:56 63.6	26/2/2014 22:01 50.6	28/1/2014 3:56 57.5	29/1/2014 5:01 58.1
22/2/2014 22:51 49.2	23/2/2014 15:56 45.8	24/2/2014 21:01 51.6	26/2/2014 22:06 63.7	28/1/2014 4:01 56.9	29/1/2014 5:06 59.3
22/2/2014 22:56 44.3	23/2/2014 16:01 49.7	24/2/2014 21:06 49.4	26/2/2014 22:11 54.3	28/1/2014 4:06 56.4	29/1/2014 5:11 57.9
23/2/2014 7:01 60.7	23/2/2014 16:06 49.2	24/2/2014 21:1			

Real-time Noise Data		RTN4 (Causeway Bay Community Centre)													
29/1/2014 23:41	59.2	31/1/2014 0:46	56.6	1/2/2014 1:51	60.7	2/2/2014 2:56	59.0	3/2/2014 4:01	53.7	4/2/2014 5:06	59.0				
29/1/2014 23:46	60.1	31/1/2014 0:51	55.9	1/2/2014 1:56	59.3	2/2/2014 3:01	59.7	3/2/2014 4:06	59.3	4/2/2014 5:11	57.6				
29/1/2014 23:51	60.1	31/1/2014 0:56	54.3	1/2/2014 2:01	52.8	2/2/2014 3:06	59.0	3/2/2014 4:11	58.5	4/2/2014 5:16	56.9				
29/1/2014 23:56	60.4	31/1/2014 1:01	55.7	1/2/2014 2:06	59.4	2/2/2014 3:11	58.7	3/2/2014 4:16	57.9	4/2/2014 5:21	58.5				
30/1/2014 0:01	59.1	31/1/2014 1:06	57.7	1/2/2014 2:11	58.4	2/2/2014 3:16	58.9	3/2/2014 4:21	58.6	4/2/2014 5:26	57.5				
30/1/2014 0:06	60.3	31/1/2014 1:11	55.8	1/2/2014 2:16	58.9	2/2/2014 3:21	59.1	3/2/2014 4:26	59.4	4/2/2014 5:31	58.9				
30/1/2014 0:11	59.7	31/1/2014 1:16	50.9	1/2/2014 2:21	59.2	2/2/2014 3:26	58.6	3/2/2014 4:31	58.2	4/2/2014 5:36	58.4				
30/1/2014 0:16	58.4	31/1/2014 1:21	53.0	1/2/2014 2:26	58.5	2/2/2014 3:31	59.7	3/2/2014 4:36	58.9	4/2/2014 5:41	58.5				
30/1/2014 0:21	59.1	31/1/2014 1:26	52.9	1/2/2014 2:31	60.7	2/2/2014 3:36	58.6	3/2/2014 4:41	58.0	4/2/2014 5:46	58.9				
30/1/2014 0:26	60.6	31/1/2014 1:31	50.0	1/2/2014 2:36	58.4	2/2/2014 3:41	58.7	3/2/2014 4:46	58.4	4/2/2014 5:51	60.2				
30/1/2014 0:31	58.1	31/1/2014 1:36	51.2	1/2/2014 2:41	58.7	2/2/2014 3:46	58.5	3/2/2014 4:51	57.8	4/2/2014 5:56	59.0				
30/1/2014 0:36	54.7	31/1/2014 1:41	52.0	1/2/2014 2:46	58.9	2/2/2014 3:51	58.7	3/2/2014 4:56	58.7	4/2/2014 6:01	59.6				
30/1/2014 0:41	58.0	31/1/2014 1:46	60.4	1/2/2014 2:51	57.4	2/2/2014 3:56	59.1	3/2/2014 5:01	59.1	4/2/2014 6:06	60.4				
30/1/2014 0:46	58.4	31/1/2014 1:51	52.4	1/2/2014 2:56	58.1	2/2/2014 4:01	58.2	3/2/2014 5:06	59.2	4/2/2014 6:11	60.9				
30/1/2014 0:51	58.4	31/1/2014 1:56	60.8	1/2/2014 3:01	58.2	2/2/2014 4:06	59.6	3/2/2014 5:11	58.9	4/2/2014 6:16	60.9				
30/1/2014 0:56	54.5	31/1/2014 2:01	60.3	1/2/2014 3:06	58.2	2/2/2014 4:11	59.1	3/2/2014 5:16	58.8	4/2/2014 6:21	41.5				
30/1/2014 1:01	57.4	31/1/2014 2:06	60.0	1/2/2014 3:11	59.2	2/2/2014 4:16	59.6	3/2/2014 5:21	58.5	4/2/2014 6:26	52.8				
30/1/2014 1:06	52.4	31/1/2014 2:11	60.1	1/2/2014 3:16	57.5	2/2/2014 4:21	59.1	3/2/2014 5:26	58.1	4/2/2014 6:31	48.1				
30/1/2014 1:11	51.2	31/1/2014 2:16	60.8	1/2/2014 3:21	58.8	2/2/2014 4:26	58.9	3/2/2014 5:31	58.5	4/2/2014 6:36	56.2				
30/1/2014 1:16	55.5	31/1/2014 2:21	60.2	1/2/2014 3:26	56.7	2/2/2014 4:31	58.6	3/2/2014 5:36	58.2	4/2/2014 6:41	52.2				
30/1/2014 1:21	54.7	31/1/2014 2:26	52.8	1/2/2014 3:31	58.5	2/2/2014 4:36	58.1	3/2/2014 5:41	59.8	4/2/2014 6:46	59.4				
30/1/2014 1:26	52.4	31/1/2014 2:31	60.4	1/2/2014 3:36	58.8	2/2/2014 4:41	58.1	3/2/2014 5:46	59.1	4/2/2014 6:51	58.3				
30/1/2014 1:31	51.4	31/1/2014 2:36	60.8	1/2/2014 3:41	58.6	2/2/2014 4:46	57.7	3/2/2014 5:51	60.1	4/2/2014 6:56	60.3				
30/1/2014 1:36	53.5	31/1/2014 2:41	60.3	1/2/2014 3:46	58.1	2/2/2014 4:51	58.8	3/2/2014 5:56	59.5	4/2/2014 7:01	57.8				
30/1/2014 1:41	48.8	31/1/2014 2:46	60.6	1/2/2014 3:51	59.0	2/2/2014 4:56	58.7	3/2/2014 6:01	59.2	4/2/2014 7:06	59.6				
30/1/2014 1:46	60.8	31/1/2014 2:51	59.8	1/2/2014 3:56	57.4	2/2/2014 5:01	58.5	3/2/2014 6:06	59.4	4/2/2014 7:11	57.4				
30/1/2014 1:51	56.2	31/1/2014 2:56	60.3	1/2/2014 4:01	56.7	2/2/2014 5:06	61.2	3/2/2014 6:11	59.8	4/2/2014 7:16	56.1				
30/1/2014 1:56	43.0	31/1/2014 3:01	58.6	1/2/2014 4:06	58.0	2/2/2014 5:11	44.1	3/2/2014 6:16	52.9	4/2/2014 7:21	57.0				
30/1/2014 2:01	45.0	31/1/2014 3:06	60.9	1/2/2014 4:11	56.7	2/2/2014 5:16	58.7	3/2/2014 6:21	60.5	4/2/2014 7:26	57.6				
30/1/2014 2:06	51.3	31/1/2014 3:11	60.6	1/2/2014 4:16	58.5	2/2/2014 5:21	57.9	3/2/2014 6:26	60.7	4/2/2014 7:31	53.5				
30/1/2014 2:11	42.3	31/1/2014 3:16	60.0	1/2/2014 4:21	57.6	2/2/2014 5:26	58.3	3/2/2014 6:31	60.2	4/2/2014 7:36	55.9				
30/1/2014 2:16	60.4	31/1/2014 3:21	60.1	1/2/2014 4:26	57.8	2/2/2014 5:31	59.0	3/2/2014 6:36	60.3	4/2/2014 7:41	54.1				
30/1/2014 2:21	60.6	31/1/2014 3:26	60.2	1/2/2014 4:31	57.5	2/2/2014 5:36	59.3	3/2/2014 6:41	56.6	4/2/2014 7:46	56.6				
30/1/2014 2:26	60.4	31/1/2014 3:31	63.4	1/2/2014 4:36	57.7	2/2/2014 5:41	59.5	3/2/2014 6:46	52.6	4/2/2014 7:51	52.3				
30/1/2014 2:31	51.9	31/1/2014 3:36	60.1	1/2/2014 4:41	57.6	2/2/2014 5:46	59.1	3/2/2014 6:51	58.0	4/2/2014 7:56	57.7				
30/1/2014 2:36	59.9	31/1/2014 3:41	60.3	1/2/2014 4:46	58.5	2/2/2014 5:51	58.8	3/2/2014 6:56	60.6	5/2/2014 0:01	56.9				
30/1/2014 2:41	60.1	31/1/2014 3:46	59.6	1/2/2014 4:51	56.3	2/2/2014 5:56	58.6	3/2/2014 7:01	59.6	5/2/2014 0:06	58.2				
30/1/2014 2:46	60.6	31/1/2014 3:51	56.2	1/2/2014 4:56	57.6	2/2/2014 6:01	60.7	3/2/2014 7:06	57.4	5/2/2014 0:11	55.7				
30/1/2014 2:51	60.6	31/1/2014 3:56	60.8	1/2/2014 5:01	57.7	2/2/2014 6:06	59.5	3/2/2014 7:11	59.2	5/2/2014 0:16	54.7				
30/1/2014 2:56	59.7	31/1/2014 4:01	59.9	1/2/2014 5:06	58.0	2/2/2014 6:11	59.4	3/2/2014 7:16	57.0	5/2/2014 0:21	57.1				
30/1/2014 3:01	59.9	31/1/2014 4:06	58.8	1/2/2014 5:11	57.4	2/2/2014 6:16	60.2	3/2/2014 7:21	57.5	5/2/2014 0:26	54.4				
30/1/2014 3:06	59.6	31/1/2014 4:11	52.0	1/2/2014 5:16	59.9	2/2/2014 6:21	60.6	3/2/2014 7:26	56.6	5/2/2014 0:31	45.7				
30/1/2014 3:11	59.2	31/1/2014 4:16	59.8	1/2/2014 5:21	58.7	2/2/2014 6:26	51.8	3/2/2014 7:31	60.6	5/2/2014 0:36	46.9				
30/1/2014 3:16	59.8	31/1/2014 4:21	56.0	1/2/2014 5:26	56.8	2/2/2014 6:31	60.8	3/2/2014 7:36	55.2	5/2/2014 0:41	55.7				
30/1/2014 3:21	60.3	31/1/2014 4:26	59.7	1/2/2014 5:31	58.3	2/2/2014 6:36	60.5	3/2/2014 7:41	58.7	5/2/2014 0:46	60.5				
30/1/2014 3:26	59.2	31/1/2014 4:31	59.4	1/2/2014 5:36	58.4	2/2/2014 6:41	60.7	3/2/2014 7:46	57.2	5/2/2014 0:51	58.1				
30/1/2014 3:31	58.3	31/1/2014 4:36	59.2	1/2/2014 5:41	59.9	2/2/2014 6:46	62.7	3/2/2014 7:51	54.8	5/2/2014 0:56	49.1				
30/1/2014 3:36	60.3	31/1/2014 4:41	59.1	1/2/2014 5:46	58.1	2/2/2014 6:51	53.3	3/2/2014 7:56	58.8	5/2/2014 1:01	47.2				
30/1/2014 3:41	58.5	31/1/2014 4:46	59.9	1/2/2014 5:51	58.1	2/2/2014 6:56	44.1	4/2/2014 0:01	56.3	5/2/2014 1:06	60.3				
30/1/2014 3:46	58.9	31/1/2014 4:51	59.6	1/2/2014 5:56	58.6	2/2/2014 7:01	58.9	4/2/2014 0:06	56.0	5/2/2014 1:11	60.1				
30/1/2014 3:51	59.7	31/1/2014 4:56	60.9	1/2/2014 6:01	60.0	2/2/2014 7:06	57.0	4/2/2014 0:11	55.6	5/2/2014 1:16	60.2				
30/1/2014 3:56	57.9	31/1/2014 5:01	59.8	1/2/2014 6:06	59.1	2/2/2014 7:11	58.6	4/2/2014 0:16	53.7	5/2/2014 1:21	59.6				
30/1/2014 4:01	58.9	31/1/2014 5:06	58.3	1/2/2014 6:11	58.4	2/2/2014 7:16	57.7	4/2/2014 0:21	54.7	5/2/2014 1:26	59.0				
30/1/2014 4:06	58.7	31/1/2014 5:11	55.7	1/2/2014 6:16	60.4	2/2/2014 7:21	58.2	4/2/2014 0:26	56.2	5/2/2014 1:31	59.7				
30/1/2014 4:11	58.4	31/1/2014 5:16	59.0	1/2/2014 6:21	59.4	2/2/2014 7:26	59.0	4/2/2014 0:31	50.1	5/2/2014 1:36	60.5				
30/1/2014 4:16	60.0	31/1/2014 5:21	59.4	1/2/2014 6:26	59.3	2/2/2014 7:31	59.9	4/2/2014 0:36	60.6	5/2/2014 1:41	59.3				
30/1/2014 4:21	58.2	31/1/2014 5:26	59.4	1/2/2014 6:31	59.3	2/2/2014 7:36	58.4	4/2/2014 0:41	49.0	5/2/2014 1:46	59.4				
30/1/2014 4:26	59.4	31/1/2014 5:31	58.9	1/2/2014 6:36	60.8	2/2/2014 7:41	59.6	4/2/2014 0:46	42.3	5/2/2014 1:51	59.4				
30/1/2014 4:31	59.2	31/1/2014 5:36	60.2	1/2/2014 6:41	60.1	2/2/2014 7:46	58.7	4/2/2014 0:51	60.7	5/2/2014 1:56	59.4				
30/1/2014 4:36	58.9	31/1/2014 5:41	60.1	1/2/2014 6:46	60.2	2/2/2014 7:51	58.2	4/2/2014 0:56	60.6	5/2/2014 2:01	58.4				
30/1/2014 4:41	59.3	31/1/2014 5:46	58.8	1/2/2014 6:51	60.7	2/2/2014 7:56	56.2	4/2/2014 1:01	60.0	5/2/2014 2:06	58.1				
30/1/2014 4:46	57.6	31/1/2014 5:51	59.8	1/2/2014 6:56	60.4	3/2/2014 0:01	57.9	4/2/2014 1:06	60.1	5/2/2014 2:11	59.8				
30/1/2014 4:51	58.7	31/1/2014 5:56	59.7	1/2/2014 7:01	57.1	3/2/2014 0:06	59.5	4/2/2014 1:11	59.8	5/2/2014 2:16	58.5				
30/1/2014 4:56	58.1	31/1/2014 6:01	60.3	1/2/2014 7:06	59.7	3/2/2014 0:11	58.1	4/2/2014 1:16	37.5	5/2/2014 2:21	58.8				
30/1/2014 5:01	58.9	31/1/2014 6:06	60.2	1/2/2014 7:11	58.0	3/2/2014 0:16	57.5	4/2/2014 1:21	59.7	5/2/2014 2:26	59.3				
30/1/2014 5:06	60.2	31/1/2014 6:11	60.4	1/2/2014 7:16	57.9	3/2/2014 0:21	55.2	4/2/2014 1:26	59.6	5/2/2014 2:31	58.0				
30/1/2014 5:11	55.2	31/1/2014 6:16	60.8	1/2/2014 7:21	59.0	3/2/2014 0:26	55.2	4/2/2014 1:31	60.5	5/2/2014 2:36	58.5				
30/1/2014 5:16	59.3	31/1/2014 6:21	60.1	1/2/2014 7:26	59.0	3/2/2014 0:31	57.2	4/2/2014 1:36	59.6	5/2/2014 2:41	59.2				
30/1/2014 5:21	60.0	31/1/2014 6:26	60.5	1/2/2014 7:31	60.7	3/2/2014 0:36	55.7	4/2/2014 1:41	59.6	5/2/2014 2:46	58.4				
30/1/2014 5:26	59.6	31/1/2014 6:31	60.6	1/2/2014 7:36	58.9	3/2/2014 0:41	52.0	4/2/2014 1:46	58.8	5/2/2014 2:51	59.0				
30/1/2014 5:31	59.8	31/1/2014 6:36	60.6	1/2/2014 7:41	58.6	3/2/2014 0:46	54.4	4/2/2014 1:51	59.1	5/2/2014 2:56	60.9				
30/1/2014 5:36	60.7	31/1/2014 6:41	50.4	1/2/2014 7:46	57.1	3/2/2014 0:51	51.2	4/2/2014 1:56	59.4	5/2/2014 3:01	58.3				
30/1/2014 5:41	58.8	31/1/2014 6:46	57.9	1/2/2014 7:51	58.3	3/2/2014 0:56	55.0	4/2/2014 2:01</							

Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
5/2/2014 6:11	51.9	6/2/2014 23:16	56.2	8/2/2014 0:21	50.9	9/2/2014 1:26	60.2	10/2/2014 2:31	59.5	11/2/2014 3:36	57.8
5/2/2014 6:16	60.6	6/2/2014 23:21	59.2	8/2/2014 0:26	54.1	9/2/2014 1:31	60.6	10/2/2014 2:36	58.4	11/2/2014 3:41	58.4
5/2/2014 6:21	60.3	6/2/2014 23:26	60.4	8/2/2014 0:31	54.2	9/2/2014 1:36	60.8	10/2/2014 2:41	59.1	11/2/2014 3:46	57.4
5/2/2014 6:26	56.8	6/2/2014 23:31	57.9	8/2/2014 0:36	51.9	9/2/2014 1:41	61.1	10/2/2014 2:46	58.7	11/2/2014 3:51	59.7
5/2/2014 6:31	57.0	6/2/2014 23:36	61.0	8/2/2014 0:41	60.7	9/2/2014 1:46	51.6	10/2/2014 2:51	58.7	11/2/2014 3:56	58.0
5/2/2014 6:36	56.6	6/2/2014 23:41	63.0	8/2/2014 0:46	60.6	9/2/2014 1:51	60.2	10/2/2014 2:56	58.7	11/2/2014 4:01	58.5
5/2/2014 6:41	58.3	6/2/2014 23:46	58.3	8/2/2014 0:51	37.5	9/2/2014 1:56	60.6	10/2/2014 3:01	58.6	11/2/2014 4:06	56.8
5/2/2014 6:46	57.9	6/2/2014 23:51	57.5	8/2/2014 0:56	60.9	9/2/2014 2:01	60.3	10/2/2014 3:06	57.4	11/2/2014 4:11	57.4
5/2/2014 6:51	59.1	6/2/2014 23:56	55.5	8/2/2014 1:01	53.1	9/2/2014 2:06	48.8	10/2/2014 3:11	59.6	11/2/2014 4:16	58.7
5/2/2014 6:56	60.4	7/2/2014 0:01	55.3	8/2/2014 1:06	49.0	9/2/2014 2:11	60.3	10/2/2014 3:16	59.0	11/2/2014 4:21	58.8
5/2/2014 23:01	57.4	7/2/2014 0:06	56.5	8/2/2014 1:11	51.4	9/2/2014 2:16	60.3	10/2/2014 3:21	57.9	11/2/2014 4:26	58.0
5/2/2014 23:06	56.2	7/2/2014 0:11	54.5	8/2/2014 1:16	52.8	9/2/2014 2:21	60.0	10/2/2014 3:26	58.5	11/2/2014 4:31	58.3
5/2/2014 23:11	58.2	7/2/2014 0:16	50.9	8/2/2014 1:21	53.0	9/2/2014 2:26	60.1	10/2/2014 3:31	59.3	11/2/2014 4:36	58.5
5/2/2014 23:16	57.2	7/2/2014 0:21	56.6	8/2/2014 1:26	60.6	9/2/2014 2:31	60.3	10/2/2014 3:36	58.5	11/2/2014 4:41	58.3
5/2/2014 23:21	55.8	7/2/2014 0:26	58.9	8/2/2014 1:31	41.5	9/2/2014 2:36	60.1	10/2/2014 3:41	57.5	11/2/2014 4:46	57.9
5/2/2014 23:26	55.6	7/2/2014 0:31	47.2	8/2/2014 1:36	60.7	9/2/2014 2:41	60.9	10/2/2014 3:46	57.7	11/2/2014 4:51	58.7
5/2/2014 23:31	56.4	7/2/2014 0:36	55.2	8/2/2014 1:41	60.7	9/2/2014 2:46	59.4	10/2/2014 3:51	59.3	11/2/2014 4:56	59.2
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5/2/2014 23:46	54.7	7/2/2014 0:51	60.6	8/2/2014 1:56	60.5	9/2/2014 3:01	59.7	10/2/2014 4:06	58.4	11/2/2014 5:11	59.2
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6/2/2014 0:51	60.7	7/2/2014 1:56	59.3	8/2/2014 3:01	59.7	9/2/2014 4:06	58.2	10/2/2014 5:11	59.6	11/2/2014 6:16	56.4
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6/2/2014 1:01	60.2	7/2/2014 2:06	59.6	8/2/2014 3:11	60.3	9/2/2014 4:16	58.5	10/2/2014 5:21	60.1	11/2/2014 6:26	60.0
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6/2/2014 3:21	56.5	7/2/2014 4:26	55.9	8/2/2014 5:31	59.0	9/2/2014 6:36	60.5	10/2/2014 23:41	58.7	12/2/2014 0:46	56.4
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6/2/2014 3:31	59.3	7/2/2014 4:36	58.5	8/2/2014 5:41	60.5	9/2/2014 6:46	60.2	10/2/2014 23:51	58.2	12/2/2014 0:56	49.6
6/2/2014 3:36	57.4	7/2/2014 4:41	56.4	8/2/2014 5:46	60.0	9/2/2014 6:51	60.5	10/2/2014 23:56	61.9	12/2/2014 1:01	52.1
6/2/2014 3:41	57.1	7/2/2014 4:46	57.0	8/2/2014 5:51	60.0	9/2/2014 6:56	60.6	11/2/2014 0:01	58.8	12/2/2014 1:06	57.0
6/2/2014 3:46	57.9	7/2/2014 4:51	57.1	8/2/2014 5:56	59.6	9/2/2014 23:01	60.9	11/2/2014 0:06	60.1	12/2/2014 1:11	50.4
6/2/2014 3:51	58.4	7/2/2014 4:56	57.5	8/2/2014 6:01	60.3	9/2/2014 23:06	60.7	11/2/2014 0:11	58.8	12/2/2014 1:16	55.2
6/2/2014 3:56	57.4	7/2/2014 5:01	58.6	8/2/2014 6:06	60.9	9/2/2014 23:11	60.6	11/2/2014 0:16	58.6	12/2/2014 1:21	60.2
6/2/2014 4:01	57.2	7/2/2014 5:06	58.4	8/2/2014 6:11	50.9	9/2/2014 23:16	61.1	11/2/2014 0:21	59.8	12/2/2014 1:26	60.7
6/2/2014 4:06	56.8	7/2/2014 5:11	58.2	8/2/2014 6:16	53.1	9/2/2014 23:21	60.1	11/2/2014 0:26	58.7	12/2/2014 1:31	60.3
6/2/2014 4:11	56.7	7/2/2014 5:16	57.9	8/2/2014 6:21	53.8	9/2/2014 23:26	59.6	11/2/2014 0:31	58.7	12/2/2014 1:36	54.1

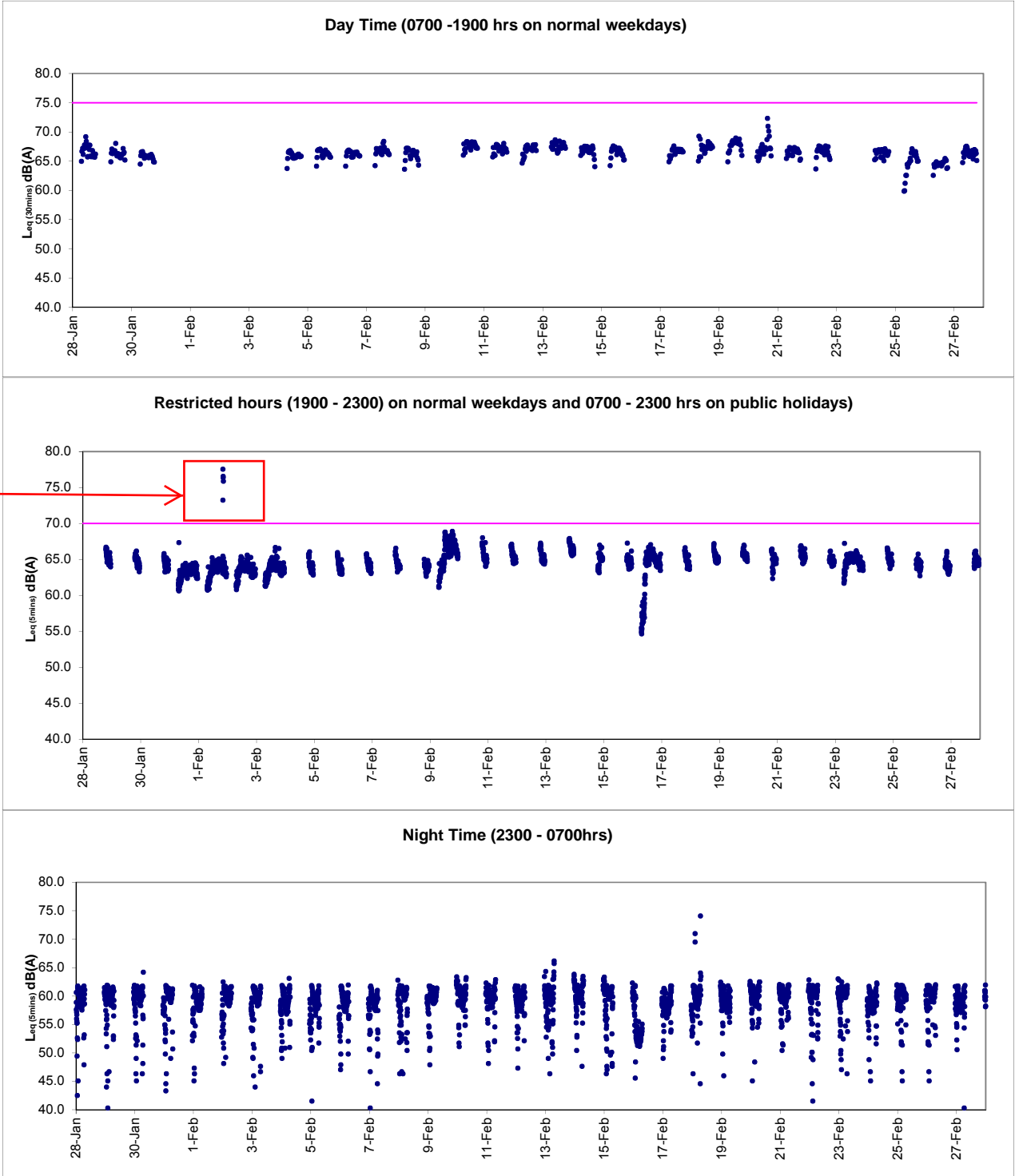
Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
12/2/2014 4:41	59.0	13/2/2014 5:46	46.4	14/2/2014 6:51	63.0	15/2/2014 23:56	61.6	17/2/2014 1:01	60.4	18/2/2014 2:06	58.2
12/2/2014 4:46	58.4	13/2/2014 5:51	51.9	14/2/2014 6:56	62.9	16/2/2014 0:01	60.5	17/2/2014 1:06	60.3	18/2/2014 2:11	60.9
12/2/2014 4:51	58.3	13/2/2014 5:56	69.0	14/2/2014 23:01	60.7	16/2/2014 0:06	59.9	17/2/2014 1:11	60.2	18/2/2014 2:16	59.3
12/2/2014 4:56	58.8	13/2/2014 6:01	53.7	14/2/2014 23:06	61.5	16/2/2014 0:11	60.3	17/2/2014 1:16	59.9	18/2/2014 2:21	59.1
12/2/2014 5:01	59.1	13/2/2014 6:06	59.2	14/2/2014 23:11	61.0	16/2/2014 0:16	58.2	17/2/2014 1:21	59.7	18/2/2014 2:26	59.3
12/2/2014 5:06	58.0	13/2/2014 6:11	54.8	14/2/2014 23:16	62.4	16/2/2014 0:21	59.2	17/2/2014 1:26	59.7	18/2/2014 2:31	59.0
12/2/2014 5:11	60.2	13/2/2014 6:16	59.7	14/2/2014 23:21	60.9	16/2/2014 0:26	58.4	17/2/2014 1:31	59.3	18/2/2014 2:36	58.3
12/2/2014 5:16	58.4	13/2/2014 6:21	58.7	14/2/2014 23:26	60.9	16/2/2014 0:31	59.6	17/2/2014 1:36	59.2	18/2/2014 2:41	58.2
12/2/2014 5:21	58.9	13/2/2014 6:26	61.1	14/2/2014 23:31	62.3	16/2/2014 0:36	57.9	17/2/2014 1:41	57.9	18/2/2014 2:46	58.7
12/2/2014 5:26	58.9	13/2/2014 6:31	61.3	14/2/2014 23:36	60.8	16/2/2014 0:41	55.4	17/2/2014 1:46	58.8	18/2/2014 2:51	58.3
12/2/2014 5:31	59.8	13/2/2014 6:36	61.6	14/2/2014 23:41	61.4	16/2/2014 0:46	56.8	17/2/2014 1:51	58.5	18/2/2014 2:56	58.8
12/2/2014 5:36	60.0	13/2/2014 6:41	62.2	14/2/2014 23:46	61.0	16/2/2014 0:51	58.8	17/2/2014 1:56	57.7	18/2/2014 3:01	57.3
12/2/2014 5:41	60.8	13/2/2014 6:46	62.9	14/2/2014 23:51	62.3	16/2/2014 0:56	57.8	17/2/2014 2:01	58.7	18/2/2014 3:06	55.1
12/2/2014 5:46	49.4	13/2/2014 6:51	64.0	14/2/2014 23:56	64.1	16/2/2014 1:01	53.3	17/2/2014 2:06	59.5	18/2/2014 3:11	58.1
12/2/2014 5:51	60.7	13/2/2014 6:56	64.3	15/2/2014 0:01	63.3	16/2/2014 1:06	55.5	17/2/2014 2:11	58.1	18/2/2014 3:16	58.5
12/2/2014 5:56	59.9	13/2/2014 23:01	62.6	15/2/2014 0:06	59.2	16/2/2014 1:11	60.5	17/2/2014 2:16	58.3	18/2/2014 3:21	58.0
12/2/2014 6:01	60.7	13/2/2014 23:06	63.1	15/2/2014 0:11	61.6	16/2/2014 1:16	53.3	17/2/2014 2:21	57.4	18/2/2014 3:26	59.1
12/2/2014 6:06	52.1	13/2/2014 23:11	63.9	15/2/2014 0:16	62.1	16/2/2014 1:21	60.6	17/2/2014 2:26	58.3	18/2/2014 3:31	58.5
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12/2/2014 6:16	51.5	13/2/2014 23:21	63.4	15/2/2014 0:26	60.7	16/2/2014 1:31	57.4	17/2/2014 2:36	55.8	18/2/2014 3:41	57.0
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12/2/2014 6:26	58.3	13/2/2014 23:31	62.3	15/2/2014 0:36	62.6	16/2/2014 1:41	56.4	17/2/2014 2:46	57.9	18/2/2014 3:51	59.0
12/2/2014 6:31	58.3	13/2/2014 23:36	62.4	15/2/2014 0:41	60.6	16/2/2014 1:46	50.7	17/2/2014 2:51	58.0	18/2/2014 3:56	57.5
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12/2/2014 6:41	59.3	13/2/2014 23:46	62.8	15/2/2014 0:51	57.9	16/2/2014 1:56	49.2	17/2/2014 3:01	56.2	18/2/2014 4:06	60.6
12/2/2014 6:46	61.6	13/2/2014 23:51	61.9	15/2/2014 0:56	58.4	16/2/2014 2:01	50.2	17/2/2014 3:06	57.0	18/2/2014 4:11	58.1
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12/2/2014 23:01	62.1	14/2/2014 0:06	61.6	15/2/2014 1:11	58.1	16/2/2014 2:16	48.7	17/2/2014 3:21	56.0	18/2/2014 4:26	58.5
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12/2/2014 23:16	62.4	14/2/2014 0:21	61.7	15/2/2014 1:26	53.3	16/2/2014 2:31	51.2	17/2/2014 3:36	56.7	18/2/2014 4:41	57.1
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13/2/2014 0:11	58.8	14/2/2014 1:16	56.9	15/2/2014 2:21	49.6	16/2/2014 3:26	46.6	17/2/2014 4:31	57.2	18/2/2014 5:36	59.7
13/2/2014 0:16	56.3	14/2/2014 1:21	57.9	15/2/2014 2:26	59.8	16/2/2014 3:31	46.9	17/2/2014 4:36	56.1	18/2/2014 5:41	59.1
13/2/2014 0:21	59.1	14/2/2014 1:26	54.4	15/2/2014 2:31	60.4	16/2/2014 3:36	47.5	17/2/2014 4:41	57.4	18/2/2014 5:46	60.7
13/2/2014 0:26	57.1	14/2/2014 1:31	56.8	15/2/2014 2:36	60.0	16/2/2014 3:41	46.9	17/2/2014 4:46	56.8	18/2/2014 5:51	60.2
13/2/2014 0:31	54.9	14/2/2014 1:36	51.9	15/2/2014 2:41	37.5	16/2/2014 3:46	49.4	17/2/2014 4:51	56.8	18/2/2014 5:56	60.6
13/2/2014 0:36	57.4	14/2/2014 1:41	60.9	15/2/2014 2:46	60.3	16/2/2014 3:51	46.6	17/2/2014 4:56	58.2	18/2/2014 6:01	59.8
13/2/2014 0:41	53.7	14/2/2014 1:46	51.1	15/2/2014 2:51	60.5	16/2/2014 3:56	48.6	17/2/2014 5:01	57.6	18/2/2014 6:06	50.9
13/2/2014 0:46	54.1	14/2/2014 1:51	46.9	15/2/2014 2:56	59.6	16/2/2014 4:01	47.3	17/2/2014 5:06	58.4	18/2/2014 6:11	52.8
13/2/2014 0:51	51.9	14/2/2014 1:56	51.5	15/2/2014 3:01	51.1	16/2/2014 4:06	48.1	17/2/2014 5:11	58.6	18/2/2014 6:16	54.2
13/2/2014 0:56	52.4	14/2/2014 2:01	60.8	15/2/2014 3:06	59.9	16/2/2014 4:11	46.5	17/2/2014 5:16	56.9	18/2/2014 6:21	55.6
13/2/2014 1:01	55.8	14/2/2014 2:06	46.6	15/2/2014 3:11	60.1	16/2/2014 4:16	47.3	17/2/2014 5:21	58.6	18/2/2014 6:26	58.8
13/2/2014 1:06	53.8	14/2/2014 2:11	48.6	15/2/2014 3:16	60.3	16/2/2014 4:21	46.4	17/2/2014 5:26	59.3	18/2/2014 6:31	57.4
13/2/2014 1:11	56.8	14/2/2014 2:16	59.9	15/2/2014 3:21	60.4	16/2/2014 4:26	46.1	17/2/2014 5:31	58.6	18/2/2014 6:36	58.2
13/2/2014 1:16	54.5	14/2/2014 2:21	60.1	15/2/2014 3:26	59.4	16/2/2014 4:31	46.5	17/2/2014 5:36	58.8	18/2/2014 6:41	61.4
13/2/2014 1:21	54.8	14/2/2014 2:26	59.2	15/2/2014 3:31	59.9	16/2/2014 4:36	48.3	17/2/2014 5:41	60.2	18/2/2014 6:46	61.7
13/2/2014 1:26	55.5	14/2/2014 2:31	59.3	15/2/2014 3:36	59.6	16/2/2014 4:41	46.4	17/2/2014 5:46	59.4	18/2/2014 6:51	61.1
13/2/2014 1:31	51.1	14/2/2014 2:36	43.6	15/2/2014 3:41	59.0	16/2/2014 4:46	46.4	17/2/2014 5:51	60.4	18/2/2014 6:56	69.0
13/2/2014 1:36	51.6	14/2/2014 2:41	60.1	15/2/2014 3:46	59.9	16/2/2014 4:51	46.3	17/2/2014 5:56	59.9	18/2/2014 23:01	59.3
13/2/2014 1:41	60.6	14/2/2014 2:46	59.6	15/2/2014 3:51	59.5	16/2/2014 4:56	47.3	17/2/2014 6:01	59.9	18/2/2014 23:06	61.6
13/2/2014 1:46	60.6	14/2/2014 2:51	59.8	15/2/2014 3:56	59.5	16/2/2014 5:01	48.4	17/2/2014 6:06	47.2	18/2/2014 23:11	61.4
13/2/2014 1:51	50.1	14/2/2014 2:56	59.0	15/2/2014 4:01	59.5	16/2/2014 5:06	49.0	17/2/2014 6:11	50.9	18/2/2014 23:16	59.3
13/2/2014 1:56	60.1	14/2/2014 3:01	59.7	15/2/2014 4:06	58.5	16/2/2014 5:11	50.9	17/2/2014 6:16	55.8	18/2/2014 23:21	60.1
13/2/2014 2:01	60.1	14/2/2014 3:06	59.5	15/2/2014 4:11	58.9	16/2/2014 5:16	49.3	17/2/2014 6:21	55.5	18/2/2014 23:26	60.9
13/2/2014 2:06	48.3	14/2/2014 3:11	59.7	15/2/2014 4:16	58.9	16/2/2014 5:21	50.3	17/2/2014 6:26	58.8	18/2/2014 23:31	59.2
13/2/2014 2:11	60.3	14/2/2014 3:16	59.7	15/2/2014 4:21	58.9	16/2/2014 5:26	52.3	17/2/2014 6:31	57.6	18/2/2014 23:36	59.9
13/2/2014 2:16	58.9	14/2/2014 3:21	59.2	15/2/2014 4:26	60.5	16/2/2014 5:31	50.3	17/2/2014 6:36	60.3	18/2/2014 23:41	59.8
13/2/2014 2:21	59.0	14/2/2014 3:26	58.8	15/2/2014 4:31	59.7	16/2/2014 5:36	50.1	17/2/2014 6:41	60.6	18/2/2014 23:46	56.7
13/2/2014 2:26	60.1	14/2/2014 3:31	59.8	15/2/2014 4:36	59.1	16/2/2014 5:41	53.6	17/2/2014 6:46	61.7	18/2/2014 23:51	58.0
13/2/2014 2:31	43.6	14/2/2014 3:36	60.5	15/2/2014 4:41	60.1	16/2/2014 5:46	54.4	17/2/2014 6:51	61.6		

Real-time Noise Data	RTN4 (Causeway Bay Community Centre)										
19/2/2014 3:11	58.9	20/2/2014 4:16	58.2	21/2/2014 5:21	60.3	22/2/2014 6:26	56.4	23/2/2014 23:31	57.7	25/2/2014 0:36	57.5
19/2/2014 3:16	57.1	20/2/2014 4:21	58.3	21/2/2014 5:26	59.5	22/2/2014 6:31	58.5	23/2/2014 23:36	58.5	25/2/2014 0:41	53.5
19/2/2014 3:21	58.5	20/2/2014 4:26	58.8	21/2/2014 5:31	59.3	22/2/2014 6:36	57.6	23/2/2014 23:41	57.7	25/2/2014 0:46	54.5
19/2/2014 3:26	58.2	20/2/2014 4:31	58.0	21/2/2014 5:36	59.9	22/2/2014 6:41	58.1	23/2/2014 23:46	59.6	25/2/2014 0:51	54.2
19/2/2014 3:31	58.3	20/2/2014 4:36	58.1	21/2/2014 5:41	59.5	22/2/2014 6:46	61.3	23/2/2014 23:51	58.0	25/2/2014 0:56	47.6
19/2/2014 3:36	58.6	20/2/2014 4:41	58.0	21/2/2014 5:46	60.6	22/2/2014 6:51	60.4	23/2/2014 23:56	55.8	25/2/2014 1:01	40.6
19/2/2014 3:41	56.7	20/2/2014 4:46	59.8	21/2/2014 5:51	43.6	22/2/2014 6:56	59.0	24/2/2014 0:01	59.5	25/2/2014 1:06	34.5
19/2/2014 3:46	58.2	20/2/2014 4:51	59.8	21/2/2014 5:56	59.9	22/2/2014 23:01	61.3	24/2/2014 0:06	58.1	25/2/2014 1:11	60.8
19/2/2014 3:51	58.0	20/2/2014 4:56	58.4	21/2/2014 6:01	53.0	22/2/2014 23:06	60.5	24/2/2014 0:11	56.6	25/2/2014 1:16	49.1
19/2/2014 3:56	57.9	20/2/2014 5:01	59.2	21/2/2014 6:06	60.5	22/2/2014 23:11	60.6	24/2/2014 0:16	54.0	25/2/2014 1:21	60.1
19/2/2014 4:01	57.3	20/2/2014 5:06	59.4	21/2/2014 6:11	51.9	22/2/2014 23:16	61.9	24/2/2014 0:21	57.1	25/2/2014 1:26	59.2
19/2/2014 4:06	57.4	20/2/2014 5:11	57.5	21/2/2014 6:16	56.9	22/2/2014 23:21	60.9	24/2/2014 0:26	52.2	25/2/2014 1:31	59.8
19/2/2014 4:11	56.5	20/2/2014 5:16	59.4	21/2/2014 6:21	57.9	22/2/2014 23:26	61.5	24/2/2014 0:31	50.6	25/2/2014 1:36	60.8
19/2/2014 4:16	56.2	20/2/2014 5:21	60.1	21/2/2014 6:26	59.2	22/2/2014 23:31	60.1	24/2/2014 0:36	60.6	25/2/2014 1:41	60.1
19/2/2014 4:21	58.0	20/2/2014 5:26	59.5	21/2/2014 6:31	57.5	22/2/2014 23:36	60.2	24/2/2014 0:41	60.6	25/2/2014 1:46	59.7
19/2/2014 4:26	56.6	20/2/2014 5:31	60.4	21/2/2014 6:36	61.8	22/2/2014 23:41	61.3	24/2/2014 0:46	59.6	25/2/2014 1:51	59.5
19/2/2014 4:31	56.7	20/2/2014 5:36	60.4	21/2/2014 6:41	60.8	22/2/2014 23:46	60.9	24/2/2014 0:51	50.9	25/2/2014 1:56	57.8
19/2/2014 4:36	58.7	20/2/2014 5:41	60.4	21/2/2014 6:46	62.6	22/2/2014 23:51	59.9	24/2/2014 0:56	59.9	25/2/2014 2:01	59.5
19/2/2014 4:41	56.7	20/2/2014 5:46	53.3	21/2/2014 6:51	64.2	22/2/2014 23:56	61.2	24/2/2014 1:01	60.5	25/2/2014 2:06	59.8
19/2/2014 4:46	58.2	20/2/2014 5:51	54.2	21/2/2014 6:56	62.7	23/2/2014 0:01	65.8	24/2/2014 1:06	59.9	25/2/2014 2:11	60.6
19/2/2014 4:51	58.5	20/2/2014 5:56	60.6	21/2/2014 23:01	60.7	23/2/2014 0:06	59.2	24/2/2014 1:11	59.4	25/2/2014 2:16	59.2
19/2/2014 4:56	58.0	20/2/2014 6:01	52.8	21/2/2014 23:06	61.3	23/2/2014 0:11	60.2	24/2/2014 1:16	60.2	25/2/2014 2:21	59.5
19/2/2014 5:01	59.1	20/2/2014 6:06	46.6	21/2/2014 23:11	61.8	23/2/2014 0:16	59.9	24/2/2014 1:21	59.5	25/2/2014 2:26	59.1
19/2/2014 5:06	57.7	20/2/2014 6:11	58.4	21/2/2014 23:16	62.3	23/2/2014 0:21	58.1	24/2/2014 1:26	55.7	25/2/2014 2:31	59.2
19/2/2014 5:11	58.6	20/2/2014 6:16	57.7	21/2/2014 23:21	61.6	23/2/2014 0:26	62.3	24/2/2014 1:31	60.1	25/2/2014 2:36	58.4
19/2/2014 5:16	60.9	20/2/2014 6:21	59.4	21/2/2014 23:26	62.1	23/2/2014 0:31	56.4	24/2/2014 1:36	59.4	25/2/2014 2:41	59.2
19/2/2014 5:21	58.9	20/2/2014 6:26	60.6	21/2/2014 23:31	62.1	23/2/2014 0:36	57.7	24/2/2014 1:41	57.8	25/2/2014 2:46	60.6
19/2/2014 5:26	59.1	20/2/2014 6:31	60.9	21/2/2014 23:36	61.0	23/2/2014 0:41	59.5	24/2/2014 1:46	60.4	25/2/2014 2:51	59.9
19/2/2014 5:31	59.1	20/2/2014 6:36	62.7	21/2/2014 23:41	60.2	23/2/2014 0:46	57.2	24/2/2014 1:51	59.2	25/2/2014 2:56	58.0
19/2/2014 5:36	59.5	20/2/2014 6:41	62.3	21/2/2014 23:46	60.2	23/2/2014 0:51	57.4	24/2/2014 1:56	58.2	25/2/2014 3:01	48.1
19/2/2014 5:41	60.4	20/2/2014 6:46	63.3	21/2/2014 23:51	59.9	23/2/2014 0:56	54.4	24/2/2014 2:01	58.9	25/2/2014 3:06	58.1
19/2/2014 5:46	60.4	20/2/2014 6:51	63.2	21/2/2014 23:56	60.3	23/2/2014 1:01	53.5	24/2/2014 2:06	57.7	25/2/2014 3:11	57.9
19/2/2014 5:51	60.9	20/2/2014 6:56	61.2	22/2/2014 0:01	60.8	23/2/2014 1:06	57.1	24/2/2014 2:11	59.9	25/2/2014 3:16	57.9
19/2/2014 5:56	60.4	20/2/2014 23:01	61.9	22/2/2014 0:06	59.7	23/2/2014 1:11	56.8	24/2/2014 2:16	58.0	25/2/2014 3:21	58.2
19/2/2014 6:01	60.0	20/2/2014 23:06	60.9	22/2/2014 0:11	60.8	23/2/2014 1:16	55.6	24/2/2014 2:21	58.2	25/2/2014 3:26	57.9
19/2/2014 6:06	43.6	20/2/2014 23:11	62.7	22/2/2014 0:16	59.4	23/2/2014 1:21	51.0	24/2/2014 2:26	58.8	25/2/2014 3:31	58.9
19/2/2014 6:11	58.0	20/2/2014 23:16	61.6	22/2/2014 0:21	60.8	23/2/2014 1:26	55.5	24/2/2014 2:31	58.3	25/2/2014 3:36	58.3
19/2/2014 6:16	55.3	20/2/2014 23:21	62.6	22/2/2014 0:26	59.4	23/2/2014 1:31	46.6	24/2/2014 2:36	57.2	25/2/2014 3:41	58.1
19/2/2014 6:21	58.0	20/2/2014 23:26	61.1	22/2/2014 0:31	59.6	23/2/2014 1:36	53.4	24/2/2014 2:41	57.3	25/2/2014 3:46	58.0
19/2/2014 6:26	59.1	20/2/2014 23:31	61.4	22/2/2014 0:36	58.6	23/2/2014 1:41	49.0	24/2/2014 2:46	56.6	25/2/2014 3:51	57.8
19/2/2014 6:31	58.2	20/2/2014 23:36	62.0	22/2/2014 0:41	58.5	23/2/2014 1:46	60.5	24/2/2014 2:51	57.9	25/2/2014 3:56	57.5
19/2/2014 6:36	60.7	20/2/2014 23:41	61.2	22/2/2014 0:46	57.3	23/2/2014 1:51	50.3	24/2/2014 2:56	56.4	25/2/2014 4:01	59.0
19/2/2014 6:41	58.8	20/2/2014 23:46	60.7	22/2/2014 0:51	57.5	23/2/2014 1:56	46.1	24/2/2014 3:01	56.1	25/2/2014 4:06	58.2
19/2/2014 6:46	60.0	20/2/2014 23:51	59.1	22/2/2014 0:56	58.1	23/2/2014 2:01	51.9	24/2/2014 3:06	57.6	25/2/2014 4:11	57.7
19/2/2014 6:51	60.2	20/2/2014 23:56	60.3	22/2/2014 1:01	56.4	23/2/2014 2:06	50.1	24/2/2014 3:11	57.9	25/2/2014 4:16	57.9
19/2/2014 6:56	61.3	21/2/2014 0:01	60.5	22/2/2014 1:06	58.3	23/2/2014 2:11	62.2	24/2/2014 3:16	56.2	25/2/2014 4:21	57.2
19/2/2014 23:01	61.8	21/2/2014 0:06	63.3	22/2/2014 1:11	56.0	23/2/2014 2:16	60.4	24/2/2014 3:21	56.5	25/2/2014 4:26	56.0
19/2/2014 23:06	62.1	21/2/2014 0:11	59.3	22/2/2014 1:16	57.5	23/2/2014 2:21	53.4	24/2/2014 3:26	56.6	25/2/2014 4:31	56.9
19/2/2014 23:11	62.3	21/2/2014 0:16	59.5	22/2/2014 1:21	59.7	23/2/2014 2:26	60.6	24/2/2014 3:31	56.4	25/2/2014 4:36	55.7
19/2/2014 23:16	62.4	21/2/2014 0:21	59.0	22/2/2014 1:26	55.1	23/2/2014 2:31	60.4	24/2/2014 3:36	57.0	25/2/2014 4:41	59.2
19/2/2014 23:21	62.2	21/2/2014 0:26	58.2	22/2/2014 1:31	55.4	23/2/2014 2:36	60.4	24/2/2014 3:41	55.8	25/2/2014 4:46	56.2
19/2/2014 23:26	62.0	21/2/2014 0:31	57.9	22/2/2014 1:36	59.2	23/2/2014 2:41	60.4	24/2/2014 3:46	56.9	25/2/2014 4:51	58.7
19/2/2014 23:31	61.2	21/2/2014 0:36	57.6	22/2/2014 1:41	57.1	23/2/2014 2:46	59.7	24/2/2014 3:51	57.7	25/2/2014 4:56	58.6
19/2/2014 23:36	60.9	21/2/2014 0:41	58.0	22/2/2014 1:46	52.9	23/2/2014 2:51	60.7	24/2/2014 3:56	56.3	25/2/2014 5:01	58.6
19/2/2014 23:41	60.8	21/2/2014 0:46	57.7	22/2/2014 1:51	54.5	23/2/2014 2:56	59.1	24/2/2014 4:01	56.3	25/2/2014 5:06	58.7
19/2/2014 23:46	61.7	21/2/2014 0:51	57.4	22/2/2014 1:56	55.5	23/2/2014 3:01	43.0	24/2/2014 4:06	57.4	25/2/2014 5:11	57.8
19/2/2014 23:51	61.2	21/2/2014 0:56	56.0	22/2/2014 2:01	47.8	23/2/2014 3:06	59.6	24/2/2014 4:11	57.3	25/2/2014 5:16	57.5
19/2/2014 23:56	61.8	21/2/2014 1:01	61.6	22/2/2014 2:06	60.8	23/2/2014 3:11	59.9	24/2/2014 4:16	57.0	25/2/2014 5:21	58.6
20/2/2014 0:01	60.6	21/2/2014 1:06	57.8	22/2/2014 2:11	56.6	23/2/2014 3:16	60.5	24/2/2014 4:21	57.4	25/2/2014 5:26	59.7
20/2/2014 0:06	60.6	21/2/2014 1:11	55.2	22/2/2014 2:16	48.4	23/2/2014 3:21	59.9	24/2/2014 4:26	57.4	25/2/2014 5:31	59.1
20/2/2014 0:11	61.4	21/2/2014 1:16	37.5	22/2/2014 2:21	43.0	23/2/2014 3:26	52.1	24/2/2014 4:31	58.3	25/2/2014 5:36	59.1
20/2/2014 0:16	59.9	21/2/2014 1:21	53.5	22/2/2014 2:26	60.4	23/2/2014 3:31	60.8	24/2/2014 4:36	56.6	25/2/2014 5:41	60.4
20/2/2014 0:21	60.6	21/2/2014 1:26	43.0	22/2/2014 2:31	51.0	23/2/2014 3:36	64.9	24/2/2014 4:41	58.0	25/2/2014 5:46	59.7
20/2/2014 0:26	59.0	21/2/2014 1:31	50.0	22/2/2014 2:36	60.8	23/2/2014 3:41	60.6	24/2/2014 4:46	57.2	25/2/2014 5:51	60.1
20/2/2014 0:31	57.4	21/2/2014 1:36	57.1	22/2/2014 2:41	60.8	23/2/2014 3:46	59.8	24/2/2014 4:51	56.9	25/2/2014 5:56	60.1
20/2/2014 0:36	58.1	21/2/2014 1:41	60.7	22/2/2014 2:46	49.1	23/2/2014 3:51	60.5	24/2/2014 4:56	56.6	25/2/2014 6:01	60.7
20/2/2014 0:41	61.0	21/2/2014 1:46	48.3	22/2/2014 2:51	60.7	23/2/2014 3:56	59.6	24/2/2014 5:01	57.8	25/2/2014 6:06	54.2
20/2/2014 0:46	58.9	21/2/2014 1:51	60.3	22/2/2014 2:56	60.3	23/2/2014 4:01	59.4	24/2/2014 5:06	58.2	25/2/2014 6:11	49.9
20/2/2014 0:51	59.9	21/2/2014 1:56	34.5	22/2/2014 3:01	57.1	23/2/2014 4:06	49.0	24/2/2014 5:11	57.8	25/2/2014 6:16	55.5
20/2/2014 0:56	54.5	21/2/2014 2:01	60.0	22/2/2014 3:06	40.6	23/2/2014 4:11	50.6	24/2/2014 5:16	57.4	25/2/2014 6:21	55.3
20/2/2014 1:01	56.8	21/2/2014 2:06	51.9	22/2/2014 3:11	56.7	23/2/2014 4:16	59.8	24/2/2014 5:21	58.5</		

Real-time Noise Data		RTN4 (Causeway Bay Community Centre)	
26/2/2014 1:41	59.4	27/2/2014 2:46	49.7
26/2/2014 1:46	59.8	27/2/2014 2:51	60.9
26/2/2014 1:51	60.1	27/2/2014 2:56	59.2
26/2/2014 1:56	59.9	27/2/2014 3:01	57.0
26/2/2014 2:01	59.1	27/2/2014 3:06	57.7
26/2/2014 2:06	59.1	27/2/2014 3:11	57.1
26/2/2014 2:11	58.3	27/2/2014 3:16	57.3
26/2/2014 2:16	58.1	27/2/2014 3:21	57.1
26/2/2014 2:21	58.9	27/2/2014 3:26	56.2
26/2/2014 2:26	60.5	27/2/2014 3:31	57.5
26/2/2014 2:31	57.6	27/2/2014 3:36	57.3
26/2/2014 2:36	57.7	27/2/2014 3:41	57.9
26/2/2014 2:41	57.9	27/2/2014 3:46	56.6
26/2/2014 2:46	58.5	27/2/2014 3:51	58.1
26/2/2014 2:51	57.9	27/2/2014 3:56	57.3
26/2/2014 2:56	59.3	27/2/2014 4:01	55.9
26/2/2014 3:01	57.6	27/2/2014 4:06	56.7
26/2/2014 3:06	57.3	27/2/2014 4:11	57.1
26/2/2014 3:11	57.8	27/2/2014 4:16	57.1
26/2/2014 3:16	58.0	27/2/2014 4:21	57.0
26/2/2014 3:21	56.4	27/2/2014 4:26	56.8
26/2/2014 3:26	56.6	27/2/2014 4:31	57.8
26/2/2014 3:31	57.9	27/2/2014 4:36	57.8
26/2/2014 3:36	58.1	27/2/2014 4:41	57.4
26/2/2014 3:41	56.3	27/2/2014 4:46	56.7
26/2/2014 3:46	57.2	27/2/2014 4:51	58.2
26/2/2014 3:51	55.6	27/2/2014 4:56	58.1
26/2/2014 3:56	55.9	27/2/2014 5:01	57.4
26/2/2014 4:01	57.9	27/2/2014 5:06	57.9
26/2/2014 4:06	57.0	27/2/2014 5:11	57.9
26/2/2014 4:11	58.0	27/2/2014 5:16	58.2
26/2/2014 4:16	56.6	27/2/2014 5:21	58.9
26/2/2014 4:21	55.8	27/2/2014 5:26	58.5
26/2/2014 4:26	56.9	27/2/2014 5:31	58.3
26/2/2014 4:31	56.5	27/2/2014 5:36	58.6
26/2/2014 4:36	58.8	27/2/2014 5:41	59.3
26/2/2014 4:41	59.4	27/2/2014 5:46	59.9
26/2/2014 4:46	56.3	27/2/2014 5:51	60.3
26/2/2014 4:51	58.4	27/2/2014 5:56	59.7
26/2/2014 4:56	58.3	27/2/2014 6:01	69.6
26/2/2014 5:01	57.8	27/2/2014 6:06	60.8
26/2/2014 5:06	58.8	27/2/2014 6:11	54.8
26/2/2014 5:11	58.4	27/2/2014 6:16	51.9
26/2/2014 5:16	58.2	27/2/2014 6:21	55.8
26/2/2014 5:21	58.3	27/2/2014 6:26	57.7
26/2/2014 5:26	58.5	27/2/2014 6:31	58.5
26/2/2014 5:31	58.4	27/2/2014 6:36	59.0
26/2/2014 5:36	58.8	27/2/2014 6:41	60.8
26/2/2014 5:41	59.8	27/2/2014 6:46	60.8
26/2/2014 5:46	59.6	27/2/2014 6:51	60.7
26/2/2014 5:51	59.3	27/2/2014 6:56	61.7
26/2/2014 5:56	59.8	27/2/2014 23:01	59.6
26/2/2014 6:01	60.6	27/2/2014 23:06	58.7
26/2/2014 6:06	60.6	27/2/2014 23:11	59.7
26/2/2014 6:11	49.6	27/2/2014 23:16	57.5
26/2/2014 6:16	53.4	27/2/2014 23:21	59.3
26/2/2014 6:21	57.2	27/2/2014 23:26	58.3
26/2/2014 6:26	59.0	27/2/2014 23:31	56.9
26/2/2014 6:31	57.1	27/2/2014 23:36	58.5
26/2/2014 6:36	59.5	27/2/2014 23:41	56.9
26/2/2014 6:41	59.6	27/2/2014 23:46	58.9
26/2/2014 6:46	61.5	27/2/2014 23:51	58.8
26/2/2014 6:51	61.5	27/2/2014 23:56	59.2
26/2/2014 6:56	60.0		
26/2/2014 23:01	58.5		
26/2/2014 23:06	58.8		
26/2/2014 23:11	59.9		
26/2/2014 23:16	60.1		
26/2/2014 23:21	59.5		
26/2/2014 23:26	58.4		
26/2/2014 23:31	58.5		
26/2/2014 23:36	58.4		
26/2/2014 23:41	59.8		
26/2/2014 23:46	57.8		
26/2/2014 23:51	56.6		
26/2/2014 23:56	59.6		
27/2/2014 0:01	58.5		
27/2/2014 0:06	58.8		
27/2/2014 0:11	57.3		
27/2/2014 0:16	57.3		
27/2/2014 0:21	62.9		
27/2/2014 0:26	58.8		
27/2/2014 0:31	51.1		
27/2/2014 0:36	49.0		
27/2/2014 0:41	54.9		
27/2/2014 0:46	55.7		
27/2/2014 0:51	51.0		
27/2/2014 0:56	51.9		
27/2/2014 1:01	60.1		
27/2/2014 1:06	60.5		
27/2/2014 1:11	60.6		
27/2/2014 1:16	60.5		
27/2/2014 1:21	60.6		
27/2/2014 1:26	59.9		
27/2/2014 1:31	59.6		
27/2/2014 1:36	59.5		
27/2/2014 1:41	59.1		
27/2/2014 1:46	34.5		
27/2/2014 1:51	59.8		
27/2/2014 1:56	59.2		
27/2/2014 2:01	53.4		
27/2/2014 2:06	59.1		
27/2/2014 2:11	59.2		
27/2/2014 2:16	58.1		
27/2/2014 2:21	58.8		
27/2/2014 2:26	59.1		
27/2/2014 2:31	57.5		
27/2/2014 2:36	58.9		
27/2/2014 2:41	59.3		



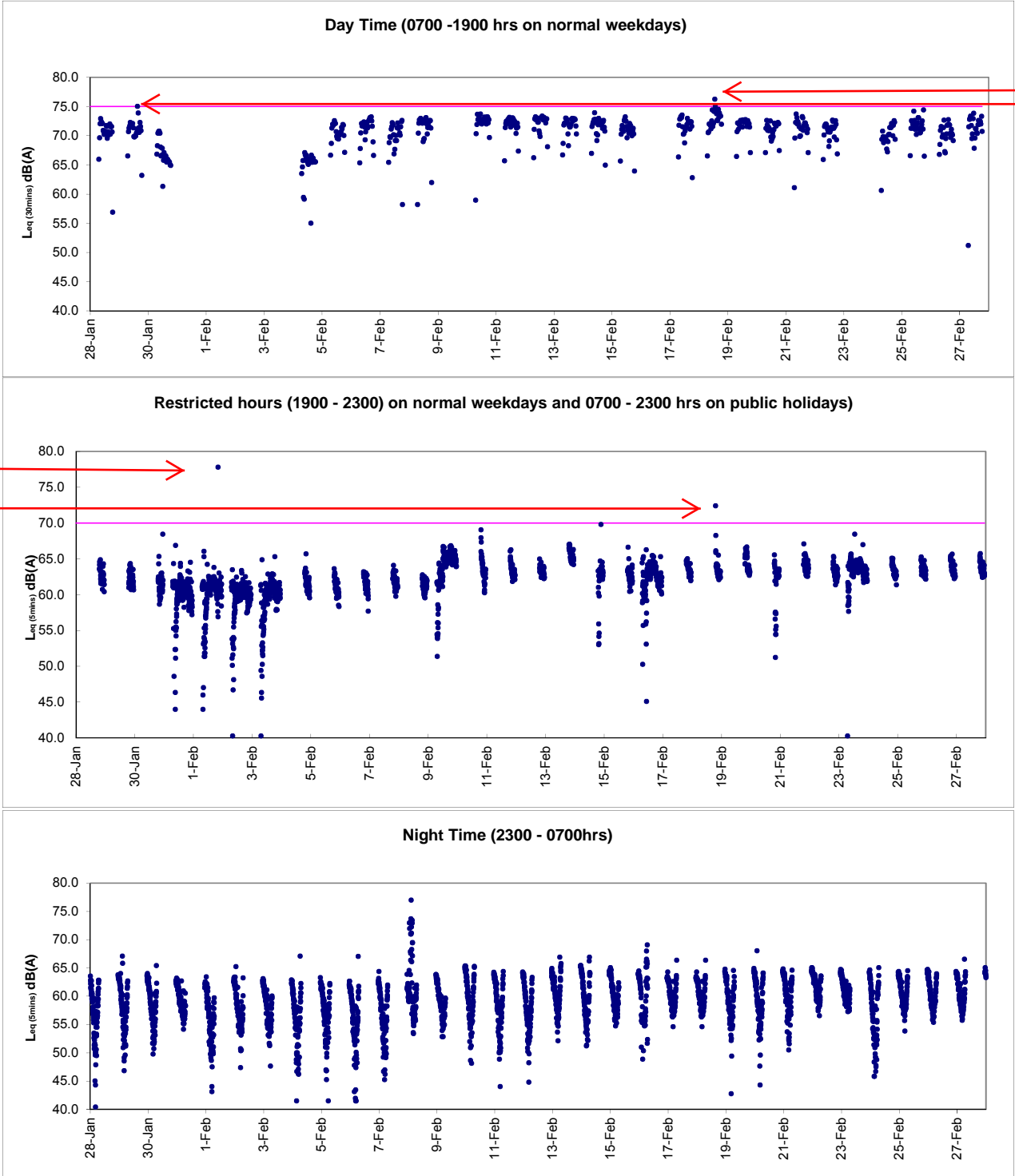
Graphic Presentation of Real Time Noise Monitoring Result (RTN1-Food and Environmental Hygiene Department Depot)



After checking with contractor HY/2009/19, only pumping test works were conducted at the concerned location during the recorded period. The exceedances were considered to be contributed by pyrotechnic display during Chinese New Year



Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)

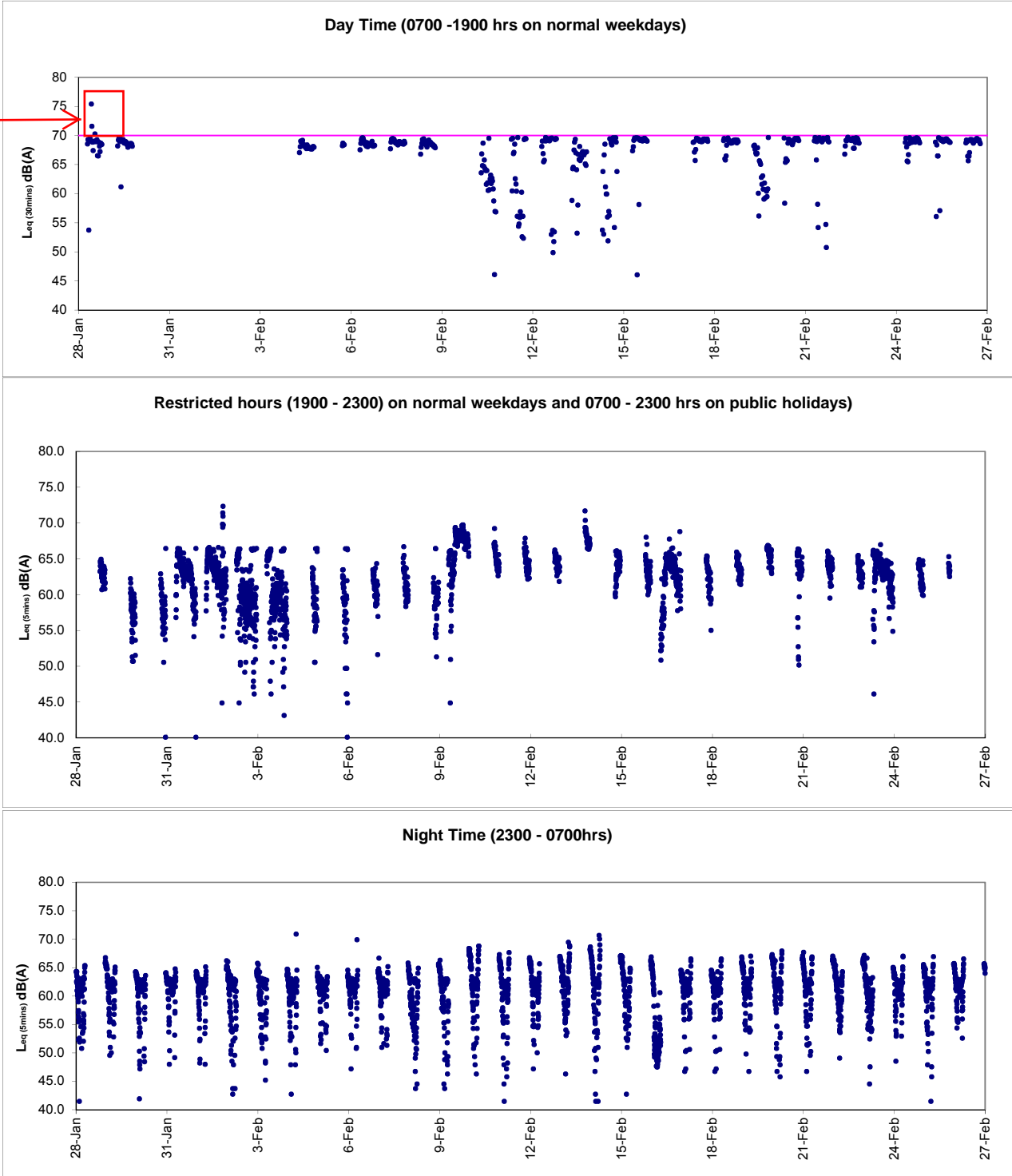


After checking with contractor HY/2009/19, no construction activities were conducted at the concerned location during the recorded period. The exceedances were considered to be contributed by nearby IEC traffic.

After checking with contractor HY/2009/19, no major noisy construction activities were conducted at the concerned location during the recorded period. The exceedances were non-continuous and were considered to be contributed by nearby IEC traffic.



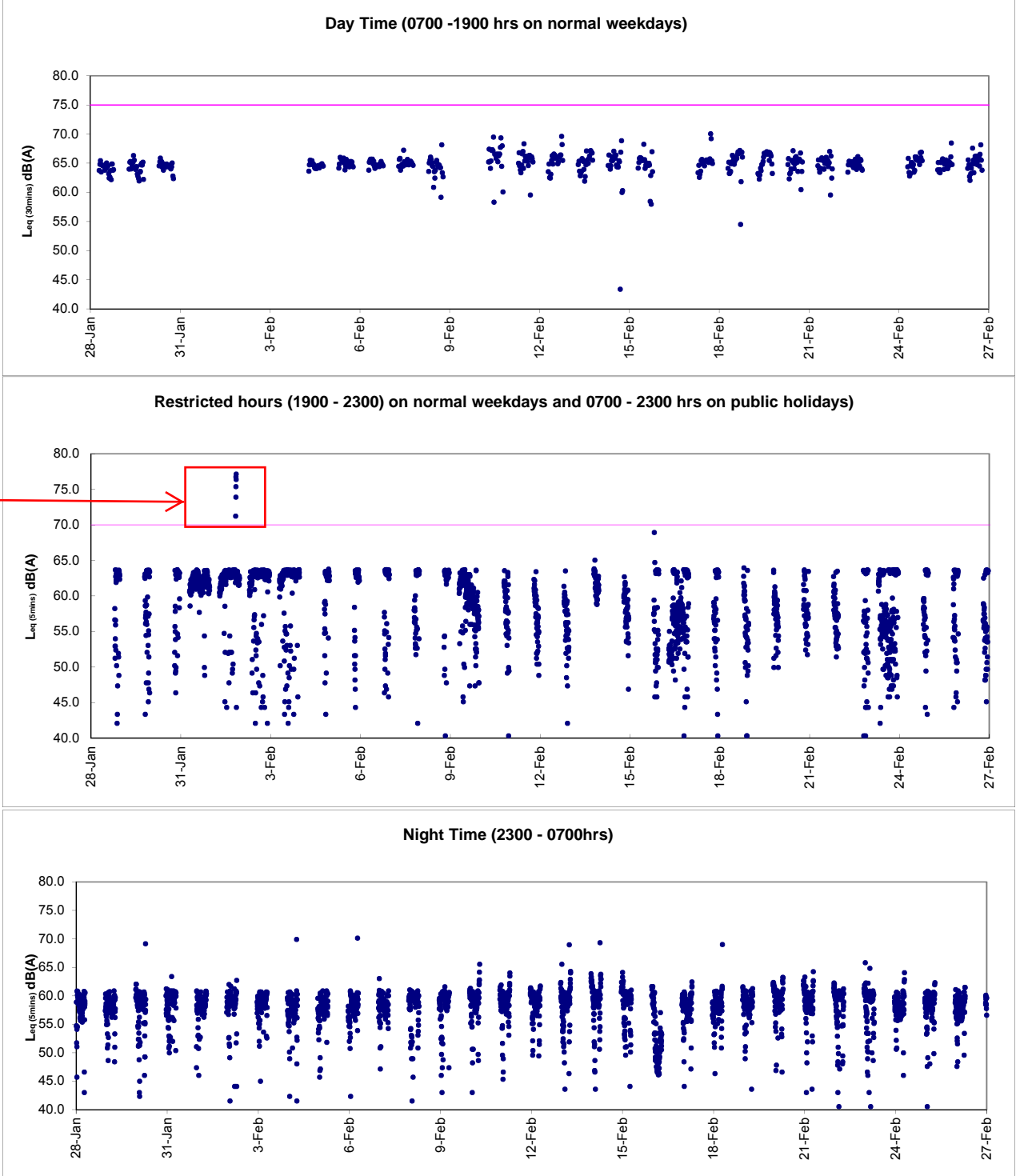
Graphic Presentation of Real Time Noise Monitoring Result (RTN3-Yu Lee Mo Fan Memorial School)



After checking with contractor HY/2009/19, no major noisy construction works were conducted at the concerned location during the recorded period.
The exceedances were considered to be contributed by nearby IEC traffic.



Graphic Presentation of Real Time Noise Monitoring Result (RTN4-Causeway Bay Community Centre)



After checking with contractor HY/2009/19, only pumping test works were conducted at the concerned location during the recorded period. The exceedances were considered to be contributed by pyrotechnic display during Chinese New Year



Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">1. Submit noise mitigation proposals to IEC and ER;2. Implement noise mitigation proposals. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	<ol style="list-style-type: none"> 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) 	<ol style="list-style-type: none"> 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) 	<ol style="list-style-type: none"> 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) 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Rectify any unacceptable practice; 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	<ol style="list-style-type: none"> Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; 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	<ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; 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)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; 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	<ol style="list-style-type: none"> Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; 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_10N155	13-Feb-14	15:22	M6 - HK Baptist Church Henrietta Secondary School	74	Leq(30-min)	when one documented complaint was received.	65	<p>Possible reason: Traffic nearby was observed during monitoring and was considered as the major noise contribution.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Scheduling of concreting hacking off works and use of acoustic mat to minimize potential noise impact to nearby education institute during examination period were implemented by the Contractor</p> <p>Remarks / Other Obs: Welding and support erection works at dolphin cap for Contract HY/2009/19 were conducted around the concerned location during the measurement. It was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.</p>
X_10N156	20-Feb-14	9:39	M6 - HK Baptist Church Henrietta Secondary School	67	Leq(30-min)	when one documented complaint was received.	65	<p>Possible reason: Traffic nearby was observed during monitoring and was considered as the major noise contribution.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Scheduling of concreting hacking off works and use of acoustic mat to minimize potential noise impact to nearby education institute during examination period were implemented by the Contractor</p> <p>Remarks / Other Obs: Welding works at dolphin cap for Contract HY/2009/19 were conducted around the concerned location during the measurement. It was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.</p>
X_10N157	25-Feb-14	16:05	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	<p>Possible reason: Traffic nearby was observed during monitoring and was considered as the major noise contribution.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.</p> <p>Remarks / Other Obs: Welding and cleaning works at dolphin cap for Contract HY/2009/19 were conducted around the concerned location during the measurement. It was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.</p>



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 complainant 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/200911 and HY/2009/19 and IEC on 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
					<p>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</p> <p>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.</p> <p>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.</p> <p>10) Contractors have fulfilled the requirement of site cleanness 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</p>	
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)	<p>1) RSS notified ET to carry out investigation on 17 October 2011.</p> <p>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 reprovision 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.</p> <p>3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</p> <p>4) Contractor was reminded to enhance regular checking and maintenance to all plants at site.</p> <p>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.</p>	Closed
111104	04/11/2011	Mr. Liu from	Wan Chai	Complain about a tree near the	<p>1) ET confirmed with the Resident Site Staff that</p>	Closed



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		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.	<ul style="list-style-type: none">• 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.	
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	<ol style="list-style-type: none">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	Closed



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					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 complainant. 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



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					CWB project to the complainant and she was satisfied on the arrangement and no further complaint was received after that.	
111230	30/12/2011	Residents of Harbour Heights	North Point	Construction air and noise nuisance generated by construction vehicles were found parked illegally at King Wah Road and lining up at Oil Street without the engine turning off.	1) RSS notified ET on 6 January 2011. 2) ET confirmed with the Resident Site Staff that a number of construction activities are concurrently proceeding in the vicinity of Oil Street, King Wah Street and a private development project in King Wah Street 3) The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and King Wah Road, however, this is the public road for all vehicles. Reviewing the results of air quality monitoring station (CMA1b) and noise monitoring (M4b). No exceedance was recorded during this period. Site inspections for HY/2009/19 were conducted on 4 January 2012. The condition of the site access at Oil Street and the public road nearby were found satisfactory. It is noted that HyD also allow and encourage their contractors to maximize the use of marine access, where available, to work sites, so as to minimize burdening nearby public roads. When land trips are unavoidable, they require contractors to tidy up their construction vehicles before leaving works sites. No contractor under CWB project parked their vehicles illegally at King Wah Street, and HyD still reminded them not to commit such offence. 4) According to HyD's staff replied the complaint letter on 10 January 2012, there is a private development project under construction at King Wah Road. To access these works sites, construction vehicles have to use public roads nearby. No further complaint received after HyD's reply.	Closed
120118	18/01/2012	N/A	North Point	A complaint regarding a tree located in front of Victoria Centre under IECL was covered by one meter mud without any protection. The complainant concerns the health of the tree in such condition.	1) RSS notified ET on 20 January 2012. 2) ET confirmed with the Resident Site Staff that The tree is inside the site area of HY/2009/19 and The Botanical name of the tree is Ficus superba var. japonica and the I.D. of the tree is UT48 3) According to the information provided by RSS on 20 Jan 2012, the tree shall be felled that has been approved by DLO on 29 August 2011. Moreover, the tree was felled	Closed



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					by contractor on 19 January 2012. 4) No further complaint received after HyD's reply.	
120305	03/03/2012	Resident of Harbour Heights complained via hotline 1823 (ICC Ref. No.: ICC#1-344632511)	North Point	A complaint regarding excessive noise from construction sites of CWB was observed outside Harbour Heights from Monday to Saturday before 8am. The plants were frequently turned on before 7:30am creating nuisance. The complainant requested a speedy follow-up and reply from relevant department.	1) RSS notified ET on 5 March 2012. 2) ET confirmed with the Resident Site Staff that PME for diaphragm wall construction started to operate at about 7:30am whilst the other PME, including those for land bored piling work, started to operate after 8am. 3) After reviewing the results of noise monitoring (M4b), no exceedance was recorded during daytime period and the noise level were below 75dB(A). Site inspection for HY/2009/19 was conducted on 7 March 2012. The condition of noise mitigation measures near Harbour Heights was found satisfactory. RSS confirmed that no operation was active before 7:00am everyday. The suspected nuisance was to be considered caused by the PME for diaphragm wall construction. A surprise check was performed on 13 March 2012 by RSS. It was found that no noisy PME was in operation by Contractor of HY/2009/19 before 8am, and the construction noise level was minimal and not disturbing. The noise level and operation time both complied with statutory requirements set up in NCO. 4) Complainant called ICC on 8 March 2012 to confirm HyD has provided a response. No further complaint was received after the response.	Closed
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	1) RSS notified ET on 5 April 2012. 2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. 3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. 4) HyD made a reply to the complainant on 16 April	Closed



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					2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
120415	15/04/2012	The complainant Ms. Law, resident of Fu Lee Loy Mansion, complained via hotline 1823 (ICC Ref. No.: 1-351021108)	North Point	A complaint regarding excessive noise generated from a HyD project that is located at the connection point of CWB and IEC affecting nearby residents. Lately during the middle of the night (around 00:00 to 05:00), low frequency noise, which possibly came from the operating power generator and the barges which were parked along the Oil Street work site, were making a nuisance to the complainant and residents nearby. The complainant requested that relevant department should follow-up.	<ol style="list-style-type: none">1) RSS notified ET on 17 April 2012.2) ET confirmed with the Resident Site Staff that there was no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.3) After reviewing the results of noise monitoring (M4b and M5b), no exceedance was recorded during day time period and the noise level was below 75dB(A). Site inspection for HY/2009/19 was conducted on 18 April 2012. The condition of noise mitigation measures near Harbour Heights were found satisfactory. RSS confirmed that no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.4) HyD made a reply to the complainant on 30 April 2012 via email. HyD replied that the current works near Oil Street, North Point, included CWB tunnel works, IEC connections and associated foundation works. According to RSS records, no operations were performed during the early hours of March and April at Oil Street and the waterbody nearby, and so it was believed that the noise nuisance was not generated from the CWB project. Despite that, RSS would continue to monitor the Contractor on the operations and effectiveness of the environmental mitigation measures implemented on site, as not to affect daily life of local residents nearby. No further complaint was received after the response.	Closed



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130308	06/03/2013	ICC Case#1-407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	<p>1) RSS notified ET on 8 March 2013</p> <p>2) ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013.</p> <p>3) Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality.</p> <p>Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found.</p> <p>The contractor was advised and committed to implement preventive measures to minimize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequate back up stock of silt curtain for emergency use.</p>	Closed



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130606	30/5/2013	ICC Ref. No.: #1-430164728	Central – Man Kat Street	1. A number of trees (approximately more than ten) along Man Kat Street were found to be in poor health condition with withered and yellow leaves. The complainant has requested a follow-up by relevant department.	1) RSS notify ET on 6 June 2013 2) ET confirmed with the Resident Site Staff that According to the information provided by RSS, 13 no. of the trees - Roystonea regia (T1674, T1675, T1676, T1677, T1678, T1679, T1680, T1681, T1683, T1644, T1643, T1641, T1639) at the concerned location raised by the complainant was found to be with withered and yellow leaves and 1 no. of tree- Khaya senegalensis (T1712) raised by the complainant was found to be in poor health condition. No construction works was undertaken by Contract HY/2009/18 at the concerned planter area where the affected trees are located. It was also observed that an active CEDD construction works area under a separate contractor not related to Central Wan Chai Bypass Project was found to be located within the concerned planter area. 3) A follow-up joint inspection with RSS and Landscape specialist was conducted on 10 June 2013, it was considered that the withered and yellow leaves of the affected trees (T1674, T1675, T1676, T1677, T1678, T1679, T1680, T1681, T1683, T1644, T1643, T1641, T1639) at the concerned planter area were contributed by natural life cycle of the affected trees and the health condition of the affected trees were considered to be fair. It was also noted that an active CEDD works area was located within the concerned planter area in close proximity to few of the concerned trees (T1644, T1643, T1641, T1639) According to tree inspection records from Jan 2013 to May 2013 confirmed by RSS (Document Ref: CI-F1-043b, CI-F1-044b, CI-F1-045b, CI-F1-046b, CI-F1-047b), the affected tree (T1712) at the concerned planter area was considered to show sign of withering and considered to be in poor health condition in latest tree survey report confirmed by RSS.	Closed



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					<p>During the follow-up inspection on 10 June 2013, It was observed that construction material and oil drum were placed near the the roots area of other trees within the CEDD works. Despite the above observation, no direct evidence was found on site which indicates the work front have contributed to the poor health condition of the affected tree (T1712) at the time of investigation.</p> <p>4) The relevant contractor have removed the construction material near the root area of the trees retained on site and conduct pruning to remove the withered and yellow leaves retained on tree trunk to minimize impact on the trees appearance.In addition, safety supporting wire was provided for concerned tree (T1712)</p> <p>5) ET recommended the contractor to keep in view the health condition of the concerned tree (T1712) and apply permission for tree felling together with tree compensation plan if considered necessary. Furthermore, the contractor was reminded to implement regular checking of tree health condition and regular removal of withered leaves to maintain the overall tree appearance.</p>	



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130611	30 May 2013 and 1 June 2013	EPD Ref.:H04/RS/000 11587-13	Area near Central Pier	1. Noise was emanated from the construction site near the Central Piers at around 0900 hrs on 30 May 2013 and other days and requested follow up action by relevant department.	<p>1) RSS notify ET on 11 June 2013</p> <p>2) ET confirmed with the Resident Site Staff that According the information confirmed by RSS, major noise generating construction activities undertaken at works area near Central Pier during the concerned time include</p> <ul style="list-style-type: none">- Breaking up existing D-wall concrete and excavation at portion 4B and 4C- Sheet piling works at Portion VI (Man Kat Street) <p>3) Total 1 no. of Backhoe with breaker, 1 no. of Backhoe with vibratory hammer and 4 no.s of pneumatic breakers were deployed for the above construction activities.</p> <p>Reviewing the noise monitoring data at monitoring stations (M7e- International Finance Centre Eastern End of Podium and M7w- International Finance Centre Western End of Podium), no limit level exceedances were recorded during routine noise monitoring event on 28 May 2013 and 03 June 2013. As similar construction works activities conducted on 30 May 2013 was continued across the above monitoring period, the noise emanated from the construction activities under Contract HY/2009/18 was considered to complied with the statutory requirement.</p> <p>In addition, weekly environmental site inspection was conducted on 30 May 2013 at around 10:00. According to the inspection record, no particular observation regarding noise impact was recorded and the mitigation measures including erection of temporary noise barrier was observed in place.</p> <p>As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified.</p> <p>4) ET recommend the contractor to review the need of additional noise mitigation measures to further reduce the noise enmated during construction works for pier side public area.</p>	<p>Interim report submitted to EPD on 19 June 2013,</p> <p>EPD advised no further comment on 5 Aug 2013 and final report for case closing submitted on 6 Aug 2013.</p>



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131010	03 Oct 2013	ICC Ref. No.1-467000768	Area between Central Pier and International Finance Centre	Noise and air quality impact was experienced at the area located between IFC and Central Pier during peak hours.	<p>ET confirmed with the Resident Site Staff that</p> <p>1) The major construction activities at the concerned location conducted over the past three months include;</p> <ul style="list-style-type: none">- Formwork, rebar and concreting- Backfilling- Water-proofing- Scaffolding erection <p>2) Mitigation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none">- Select quiet plant and work methods;- Check plant and equipment for condition;- For use of powered mechanical equipment during restricted hours: Obtain necessary Construction Noise Permit and strictly comply with their conditions;- Frequently spray water to major haul road and stockpiles to suppress dust generation; and- Cover stockpiles with impervious sheets <p>The construction activities including backfilling, concreting and other associated tunnel works were undertaken in the past three months. Having reviewing the monitoring data of the monitoring stations in the vicinity of the concerned location raised by the complainant, namely monitoring station M7e and M7w (Noise Monitoring Station) and MA1e and MA1w (Air Monitoring Station), no action or limit level exceedance was recorded.</p> <p>In addition, mitigations measures including water spraying and erection of noise barrier were observed during weekly site inspection in August and September 2013 and reminders on dust mitigations measures given during weekly site inspection to the contractor were rectified. As such, the construction activities under Contract HY/2009/18 were considered in compliance with the statutory requirement and no cumulative air/ noise quality impact was observed in the past three months.</p>	Closed



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					Elevated noise level at monitoring station M7e (International Finance Centre East Podium) was noted on 24 September 2013. The Contractor is recommended to review the current measures and to implement additional noise mitigation measures to further avoid potential impact to nearby public area during construction works.	
131217	16 Dec 2013	ICC Case Ref.: 1-484998552	Victoria Park near Hing Fat Street Exit	Sweeping of muddy water into public drains.	<p>ET confirmed with the Resident Site Staff that 1)The major construction activities around the concerned location conducted on 16 Dec 2013 a.m.includes: -Preparation work of rootball for tree transplanting</p> <p>According to the information provided by RSS, the construction activities around the concerned location on 16 Dec 2013 include preparation work of rootball for tree transplanting at Zone 17/18.</p> <p>A further investigation on the complaint was conducted on 19 Dec 2013 during weekly environmental inspection. It was observed that a tree worksarea comprised of mainly loosen soil was located near the concerned location. It was considered that the inclined surface and loosen soil nature of the concerned worksarea could have led to the muddy surface runoff in rain. Deposition of muddy runoff onto nearby public pavement outside worksarea was hence resulted and was subsequently cleaned into nearby public stormwater drain by the Contractor's workers on the complaint date. As such, the case was considered as works related.</p> <p>Sandbags, geotextile and gravels were immediately placed by the Contractor around the gullies at the concerned location to prevent leftover muddy runoff to the public stormwater drain as observed during the weekly inspection on 19 Dec 2013.</p> <p>With respect to the follow-up raised by the complainant on 19 Dec 2013, sandbags, geotextile and gravels placed at gullies located at public area were removed by the Contractor on the same day for maintaining passible public pavement. Follow up measures including sandbag bundle and covering of worksarea with impervious sheeting was immediately placed at the source of impact at the concerned worksarea boundary by the Contractor.</p>	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
131224	24 Dec 2013	(ICC Case Ref.: 1-486434321)	Victoria Park Children Playground	Odour and large amount of dust particles affecting the public user of the Victoria Park near Children playground	<p>ET confirmed with the Resident Site Staff that</p> <p>1) The major construction activities around the concerned location conducted on 24 Dec 2013 include:</p> <ul style="list-style-type: none">- Breaking up existing pillar box for new children playground Portion II- Pressing of sheet pile at bowling green for ELS works Portion XII- Welding work for preparation of sheetpiling work at bowling green Portion VI- Demolition of existing pavilion for bowling green Portion VI <p>-Felling of tree TA50 at Victoria Park Zone</p> <p>2) Mitigation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none">-Water spraying for demolition and other dust generating works. <p>According to the relevant site records, breaking up of existing pillar box, pressing of sheet pile, welding work for preparation of sheetpiling demolition of existing pavilion and felling of tree TA50 at Victoria Park Zone 13 were conducted at the concerned location during the time of complaint.</p> <p>Based on information and photo record provided by the RSS, dust mitigation measures including water spraying during dust generating works were implemented by the Contractor at the concerned location on 24 Dec 2013.</p> <p>Follow-up investigation was conducted on 27 Dec 2013 during weekly environmental inspection, dust mitigation measures including water spraying to dusty area and major dust generation works were confirmed in place despite a general reminder was given to the contractor to enhance the water spraying to dusty haul road during dry season. Based on on-going site inspection and the follow-up investigation, the site condition was considered generally satisfactory and no non-conformance was identified.</p> <p>Upon further review on the supplementary information provided by the complainant on 31 Dec 2013 and investigation conducted on 2 Jan 2014, the tree felling work of tree TA50 was located nearest to the location of the complainant. According to the location plan provided by the RSS and on site investigation, the tree felling work</p>	Case closed and full investigation report issued on 3 Jan 2014.



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					<p>for TA50 was immediately in front of the location of the complainant. Based on site observation, scrap material of bark and leaves inevitably generated from cutting of branches during tree felling work was considered to be the most probable cause for the observation raised by the complainant at the concerned location on 24 Dec 2013.</p> <p>Furthermore, welding work was observed near the concerned location and was considered to be the potential source for the smell and exhaust fumes as described by the complainant. Notwithstanding the above, welding work was not identified as a work activity with air quality impact under Project EIA report but it would be desirable to implement preventive measures to minimize potential nuisance to nearby public.</p>	
140123	22 Jan 2014	ICC Case Ref.:1-494077682	Causeway Bay Typhoon Shelter	<p>Construction works have been undertaken during restricted hours until 2300 hrs and occasionally the working hours were extended to around 0100 hrs at nighttime period over the last two to three months at a construction site located within Causeway Bay Typhoon Shelter. For instance, concreting and excavation works were conducted at the concerned location on 22 Jan 2014 during nighttime hours and generated noise impact to the complainant.</p>	<p>ET confirmed with the Resident Site Staff that No construction activity was undertaken at workzone TS1 under HY/2009/15 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. No construction activity was undertaken at workzone TS3 under HY/2010/08 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 1900 to 0000 hrs on 21 Jan 2014; Total 8 no.s of concrete lorry mixers, 1 no. of water pump, 2 no.s of concrete pumps (lorry mounted), 1 no. of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating from 1900 to 0000hrs on 21 Jan 2014.</p> <p>Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 0000 to 0700 hrs on 22 Jan 2014;</p> <p>Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were operating from 1900 to 0000hrs on 22 Jan 2014</p>	Case closed and full investigation report issued on 4 Feb 2014.



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					<p>According to the relevant site records, from 1900-0000hrs on 21 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 8 no.s of concrete lorry mixers, 1 no. of water pump, 2 no.s of concrete pumps (lorry mounted), 1 no. of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating at the above period.</p> <p>From 0000 to 0700 hrs on 22 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were found operating at the above period.</p> <p>After reviewing relevant photo records and information verified by RSS and the Construction Noise Permit (CNP) no.GW-RS1384-13, it was considered that several conditions of CNP GW-RS1384-13 were not fulfilled by the Contractor in particular for the item(s) below,</p> <p>No acoustic installation was provided for the relevant PME(s) used as stated in CNP condition 3.d.during the concerned concreting works.</p> <p>From 1900 to 2300 hours on 21 Jan 2014, the PME(s) used on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13.</p> <p>From 0000 to 0700 hours on 22 Jan 2014, the PME(s) used by the Contractor on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13.</p> <p>From 1900 to 2300 hours on 21 Jan 2014 and from 0000 to 0700 hours on 22 Jan 2014, PME (Concrete Lorry Mixer) was deployed by the Contractor without barge enclosure and was unable to comply with condition 3.a. in CNP no.GW-RS1384-13.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140127	24 Jan 2014	ICC Case Ref.: 1-494612639	Works area adjacent to the Victoria Park Bowling Green	Noise generated from piling works conducted at the works area adjacent to the Victoria Park Bowling Green have created nuisance to the Bowling Green users.	<p>ET confirmed with the Resident Site Staff that The major construction activities around the concerned location conducted on 23 Jan 2014 include:</p> <p>Pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works on 23 Jan 2014. Splicing of sheetpile Ch.275-285 (LHS) for ELS works on 23 Jan 2014.</p> <p>Mitigation measures implemented by the Contractor for the above construction works include:</p> <p>Installation of acoustic panels along hoarding line at East Bowling Green; Installation of addition noise barriers on top of hoarding at East Bowling Green; Display of publicity notices along hoarding line; and No noisy work shall be carried out at the areas adjoining East Bowling Green as if there is any Bowling Green competition event to be held (i.e. Saturday afternoon).</p> <p>According to relevant site records, pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works and splicing of sheetpile Ch.275-285 (LHS) for ELS works were conducted at the concerned location during the time of complaint.</p> <p>Based on the photo records and information verified by RSS, noise mitigation measures including installation of acoustic panels along hoarding line at East Bowling Green and installation of addition noise barriers on top of hoarding at East Bowling Green were implemented by the Contractor at the concerned location. Furthermore, no noisy work was conducted by contractor at the areas adjoining</p>	Case closed and full investigation report issued on 6 Feb 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>East Bowling Green when there is any Bowling Green competition event to be held.</p> <p>Follow-up investigation was conducted on 29 Jan 2014 during weekly environmental inspection, noise mitigation measures including noise barriers and acoustic panels were confirmed in place and maintained in good condition. According to previous environmental inspections recorded in Jan 2014, no particular observation regarding the noise impact was recorded. As such, no non-conformity was identified.</p>	



Appendix 10.1

Construction Programme of Individual Contracts

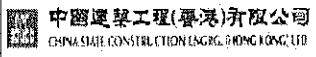
Activity Name	Original Duration	Planned Start	Planned Finish	2011				2012				2013				2014				2015				2016	
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
HY/2009/15 - CWB TUNNEL (CBTS SECTION)																									
SUBMISSIONS COMPLYING WITH EPs																									
EM&A Manual (rely on the Master EP's submission EP-364/2009/A Condition 2.9)																									
Baseline Monitoring Report (rely on the Master EP's submission EP-364/2009 Condition 3.3)																									
Monthly EM&A (rely on the masters EP's Submission, EP-364/2009/A Condition 3.4)																									
A dedicated website (rely on the master EP's submission, EP-364/2009/A Condition 4.2)																									
Management organization of main construction companies (FEP Condition 2.6)	1d	02-Oct-10	02-Oct-10																						
Work Schedule (FEP Condition 2.7)	1d	27-Oct-10	27-Oct-10																						
Location Plan (FEP Condition 2.8)	1d	27-Oct-10	27-Oct-10																						
Noise Management plan (FEP Condition 2.9)	1d	27-Oct-10	27-Oct-10																						
Landscape plan (FEP condition 2.10)	1d	31-Jan-11	31-Jan-11																						
EAST VENTILATION ADIT																									
CCT @ Portion 1, 2, 4, 6, 22	1315d	27-Sep-10	03-May-14																						
EV Adit @ Portion 4-Advance Works	526d	27-Sep-10	05-Mar-12																						
EV Adit Portion 1, 2, 6, 22	26d	22-Dec-11	16-Jan-12																						
EV Adit-based on Conforming Design	323d	15-Feb-12	02-Jan-13																						
TCBR1E (TS1 Area)																									
Diaphragm Wall Construction (incl. SI, & tests after completion)	107d	26-Apr-11	10-Aug-11																						
Excavation & Lateral Support, ELS	99d	16-Jul-11	22-Oct-11																						
Cut & Cover Tunnel Construction (incl. backfill)	78d	22-Oct-11	07-Jan-12																						
OHVD and Cable Trough (access from Portion 22)	76d	18-Dec-13	03-Mar-14																						
TCBR2 + TCBR3 (TS2 Area)																									
Diaphragm Wall Construction	118d	06-Jul-12	31-Oct-12																						
Excavation & Lateral Support, ELS	248d	06-Jul-12	10-Mar-13																						
Cut & Cover Tunnel Construction	164d	11-Mar-13	21-Aug-13																						
OHVD Cable Trough (Access from Portion 22)	150d	05-Aug-13	01-Jan-14																						
TCBR1W (TS4 Area)																									
Diaphragm Wall Construction	148d	28-Jun-11	22-Nov-11																						
Excavation & Lateral Support, ELS	319d	26-Jun-11	11-May-12																						
Landing Steps - Demolition/Reconstruct as footpath	40d	28-Jun-11	23-Aug-11																						

- ◆ Milestone
- ◆ Milestone
- Remaining Work
- Critical Remaining Work
- Actual Work

1 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: GC01a		
	(Layout:HY/2009/15: CWB - Summary)		



Activity Name	Original Duration	Planned Start	Planned Finish	2011					2012				2013				2014				2015				2016	
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
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	208d	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)	235d	22-May-15	11-Jan-16																							

- ◆ Milestone
- ◆ Milestone
- Remaining Work
- Critical Remaining Work
- Actual Work

2 of 2

China State Construction Engineering (Hong Kong) Ltd.

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

(CBTS Section)

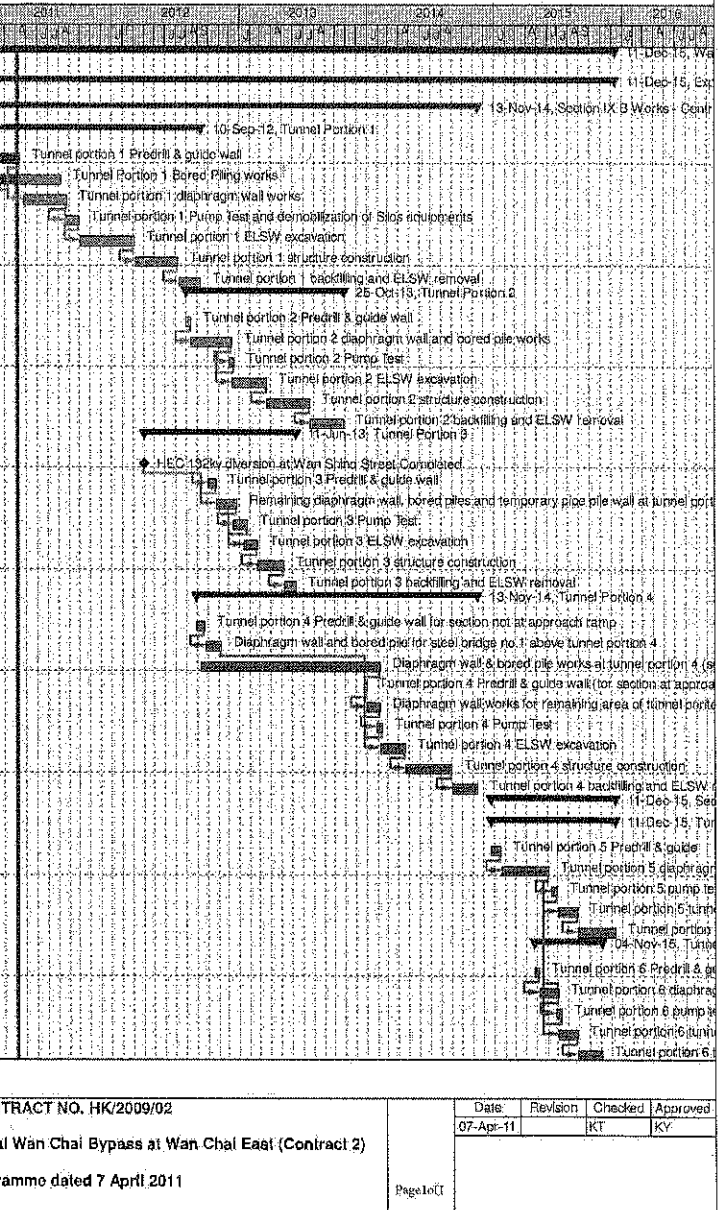
Prepared by William Caluza			
Date	Revision	Checked	Approved
14-Mar-11	Revision C	ST	KL
	File: 0001a		
	(Layout: HY/2009/15: CWB - Summary)		

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

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

CHUN WO - CRGL JV

Activity ID	Activity Name	OD	Start	Finish	% Planned	2011	2012	2013	2014	2015	2016
Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East											
Expanded and More Detailed Initial Works Programme											
Section IX B Works - Central - Wan Chai Bypass Tunnel Structure from chainage 3400 to eastern tunnel											
Tunnel Portion 1											
S9B-T1-0005	Tunnel portion 1 Predrill & guide wall	10	18-Feb-11	13-Apr-11	40%						
S9B-T1-0007	Tunnel Portion 1 Bored Piling works	105	09-Feb-11	08-Aug-11	0%						
S9B-T1-0010	Tunnel portion 1 diaphragm wall works	105	26-Apr-11	27-Aug-11	0%						
S9B-T1-0015	Tunnel portion 1 Pump Test and demobilization of Slos equipments	35	20-Aug-11	30-Sep-11	0%						
S9B-T1-0020	Tunnel portion 1 ELSW excavation	130	03-Oct-11	07-Mar-12	0%						
S9B-T1-0030	Tunnel portion 1 structure construction	100	09-Mar-12	09-Jul-12	0%						
S9B-T1-0040	Tunnel portion 1 backfilling and ELSW removal	54	10-Jul-12	10-Sep-12	0%						
Tunnel Portion 2											
S9B-T2-0105	Tunnel portion 2 Predrill & guide wall	10	02-Aug-12	13-Aug-12	0%						
S9B-T2-0010	Tunnel portion 2 diaphragm wall and bored pile works	100	14-Aug-12	10-Dec-12	0%						
S9B-T2-0015	Tunnel portion 2 Pump Test	14	03-Dec-12	18-Dec-12	0%						
S9B-T2-0020	Tunnel portion 2 ELSW excavation	80	11-Dec-12	19-Mar-13	0%						
S9B-T2-0030	Tunnel portion 2 structure construction	100	20-Mar-13	22-Jul-13	0%						
S9B-T2-0040	Tunnel portion 2 backfilling and ELSW removal	80	23-Jul-13	25-Oct-13	0%						
Tunnel Portion 3											
S9B-T3-0005	HEC 132kv diversion at Wan Shing Street Completed	0	01-Apr-12*		0%						
S9B-T3-0008	Tunnel portion 3 Predrill & guide wall	20	02-Oct-12	25-Oct-12	0%						
S9B-T3-0010	Remaining diaphragm wall, bored piles and temporary pipe pile wall at tunnel portion 3	50	25-Oct-12	22-Dec-12	0%						
S9B-T3-0015	Tunnel portion 3 Pump Test	30	15-Dec-12	22-Jan-13	0%						
S9B-T3-0020	Tunnel portion 3 ELSW excavation	30	15-Jan-13	20-Feb-13	0%						
S9B-T3-0030	Tunnel portion 3 structure construction	80	21-Feb-13	08-May-13	0%						
S9B-T3-0040	Tunnel portion 3 backfilling and ELSW removal	30	07-May-13	11-Jun-13	0%						
Tunnel Portion 4											
S9B-T4-0005	Tunnel portion 4 Predrill & guide wall for section not at approach ramp	21	30-Aug-12	22-Sep-12	0%						
S9B-T4-0010	Diaphragm wall and bored pile for steel bridge no.1 above tunnel portion 4	40	24-Sep-12	10-Nov-12	0%						
S9B-T4-0020	Diaphragm wall & bored pile works at tunnel portion 4 (section not at approach ramp)	420	11-Sep-12	05-Feb-14	0%						
S9B-T4-0025	Tunnel portion 4 Predrill & guide wall (for section at approach ramp)	5	23-Dec-13	30-Dec-13	0%						
S9B-T4-0030	Diaphragm wall works for remaining area of tunnel portion 4 (for section at approach ramp)	30	31-Dec-13	06-Feb-14	0%						
S9B-T4-0035	Tunnel portion 4 Pump Test	14	28-Jan-14	14-Feb-14	0%						
S9B-T4-0040	Tunnel portion 4 ELSW excavation	60	07-Feb-14	19-Apr-14	0%						
S9B-T4-0050	Tunnel portion 4 structure construction	110	22-Apr-14	01-Sep-14	0%						
S9B-T4-0060	Tunnel portion 4 backfilling and ELSW removal	60	02-Sep-14	13-Nov-14	0%						
Section X Works - Central - Wan Chai Bypass Tunnel Structure from western tunnel to chainage 3400											
Tunnel Portion 5											
S10-T5-0005	Tunnel portion 5 Predrill & guide	21	23-Dec-14	19-Jan-15	0%						
S10-T5-0010	Tunnel portion 5 diaphragm wall & bored pile works	110	20-Jan-15	04-Jun-15	0%						
S10-T5-0015	Tunnel portion 5 pump test	14	13-Jun-15	30-Jun-15	0%						
S10-T5-0020	Tunnel portion 5 tunnel ELSW excavation	45	04-Jul-15	25-Aug-15	0%						
S10-T5-0030	Tunnel portion 5 tunnel structure construction	90	26-Aug-15	11-Dec-15	0%						
Tunnel Portion 6											
S10-T6-0040	Tunnel portion 6 Predrill & guide	12	24-Apr-15	08-May-15	0%						
S10-T6-0050	Tunnel portion 6 diaphragm wall & bored pile works at Area 10	45	09-May-15	09-Jul-15	0%						
S10-T6-0055	Tunnel portion 6 pump test	14	23-Jun-15	11-Jul-15	0%						
S10-T6-0060	Tunnel portion 6 tunnel ELSW excavation at Area 10	45	04-Jul-15	26-Aug-15	0%						
S10-T6-0070	Tunnel portion 6 tunnel structure construction at Area 10	58	26-Aug-15	04-Nov-15	0%						



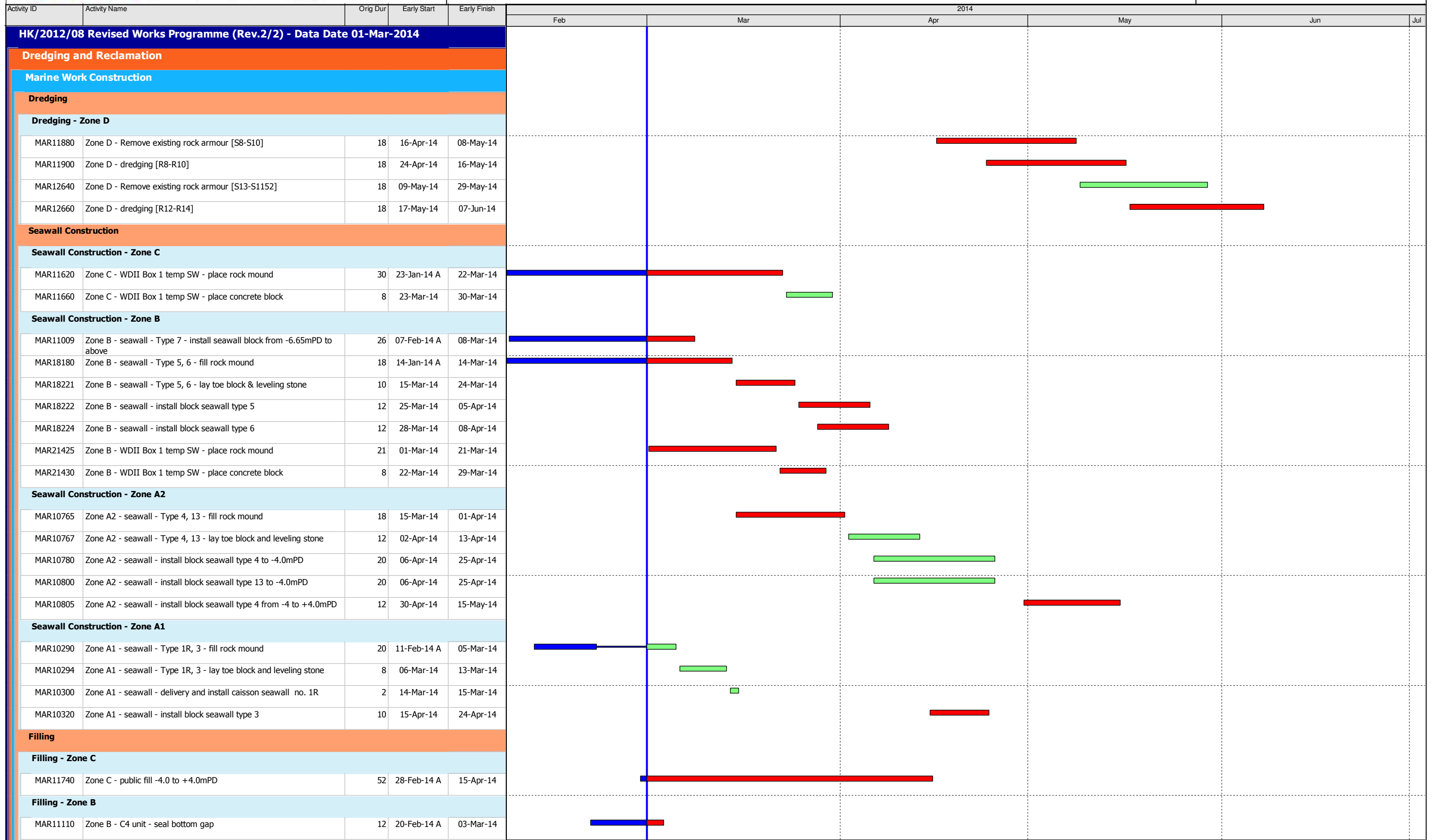
後和 - 中國中鐵聯合
 Chun Wo - CRGL JOINT VENTURE

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

CEDD CONTRACT NO. HK/2009/02
 Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai East (Contract 2)
 Revised Programme dated 7 April 2011

Date	Revision	Checked	Approved
07-Apr-11		KT	KY

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Data Date: 01-Mar-14

- ◆ Current Milestone
- Actual Work
- Critical Remaining Work
- Remaining Work
- Remaining Level of Effort

3-Month Rolling Programme for Works outside CRIII Area
(Mar 2014 to May 2014)

Date	Revision	Checked	Approved
01-Mar-14	Rev. 2		



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	2014						
					Feb	Mar	Apr	May	Jun	Jul	
Section VIII - Landscape Softworks											
Soft Landscaping Works											
SVIII10020	Sec VIII - Tree Felling/Transplanting at Portion 2 & 2A	90	20-Nov-13 A	12-Jun-14							
Section X - Protection & Preservation of Trees											
Soft Landscaping Works											
SX10020	Sec X - Protection & Preservation of Trees	1632	31-Jan-13 A	20-Jul-17							

Data Date: 20-Feb-14

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

TASK filters: 3 Months_1, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2014											
						Feb			Mar			Apr			May		
Update 2013-10-20 CWB - Central Interchange (2014-02-20) Revised DWP R5a																	
PRELIMINARIES																	
Major TTA's in Operation																	
3750	TTA Stage 3 Operation - Man Po St. Temporary Junction	511	21-Oct-11 A	13-Mar-14	0												
3760	TTA Stage 4 Operation - Man Yiu St. Diversion	472	24-Feb-12 A	27-Feb-14	0												
3770	TTA Stage 5a & 5b Operation	322	28-Feb-14	15-Jan-15	14												
Design																	
Temporary Works Design																	
ELS - Trough A																	
1174	ELS - ELS Trough A Prepare Design	52	09-Apr-14	30-May-14	14												
Procurement, Shop Drawing, Manufacture & Delivery																	
Excavation & Lateral Support																	
1172	ELS - Wailing & Shoring Material Sourcing, Procurement and Delivery (Retaining Wall)	30	20-Feb-14	21-Mar-14	188												
Interfacing																	
Interfacing with CWB Route Wide & TCSS Contract																	
1765	CWB Route Wide - Prepare & Submit Interfacing Management Plan with CWB Route Wide	28	20-Feb-14*	19-Mar-14	107												
1773	CWB Route Wide - Review & Endorse Interfacing Management Plan	28	20-Mar-14	16-Apr-14	107												
1775	CWB Route Wide - Engineer Review & Approve Interfacing Management Plan	28	17-Apr-14	14-May-14	107												
Establishment, Mobilisation & Advanced Works																	
Temporary Traffic Management, Site Establishment / Setup																	
Stage 5a1 (Divert Traffic on Tunnel Structure)																	
1316	Stage 5a1 - RWA	7	20-Feb-14	27-Feb-14	0												
1204	Stage 5a1 - Closure of Man Po Street Temporary Junction & Slip Road	0	28-Feb-14		0												
1116	Stage 5a1 - Demolish Man Kwong St. To Finance St. Slip Road	12	28-Feb-14	13-Mar-14	0												
SECTION 3A - ALL TUNNEL WORKS IN PORTION IIIB																	

- Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- Baseline Milestone
- Project Baseline
- Actual Work

Leighton Contractors (Asia) Limited Programme Update 41 (February 2014) THREE MONTH ROLLING

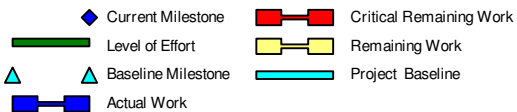
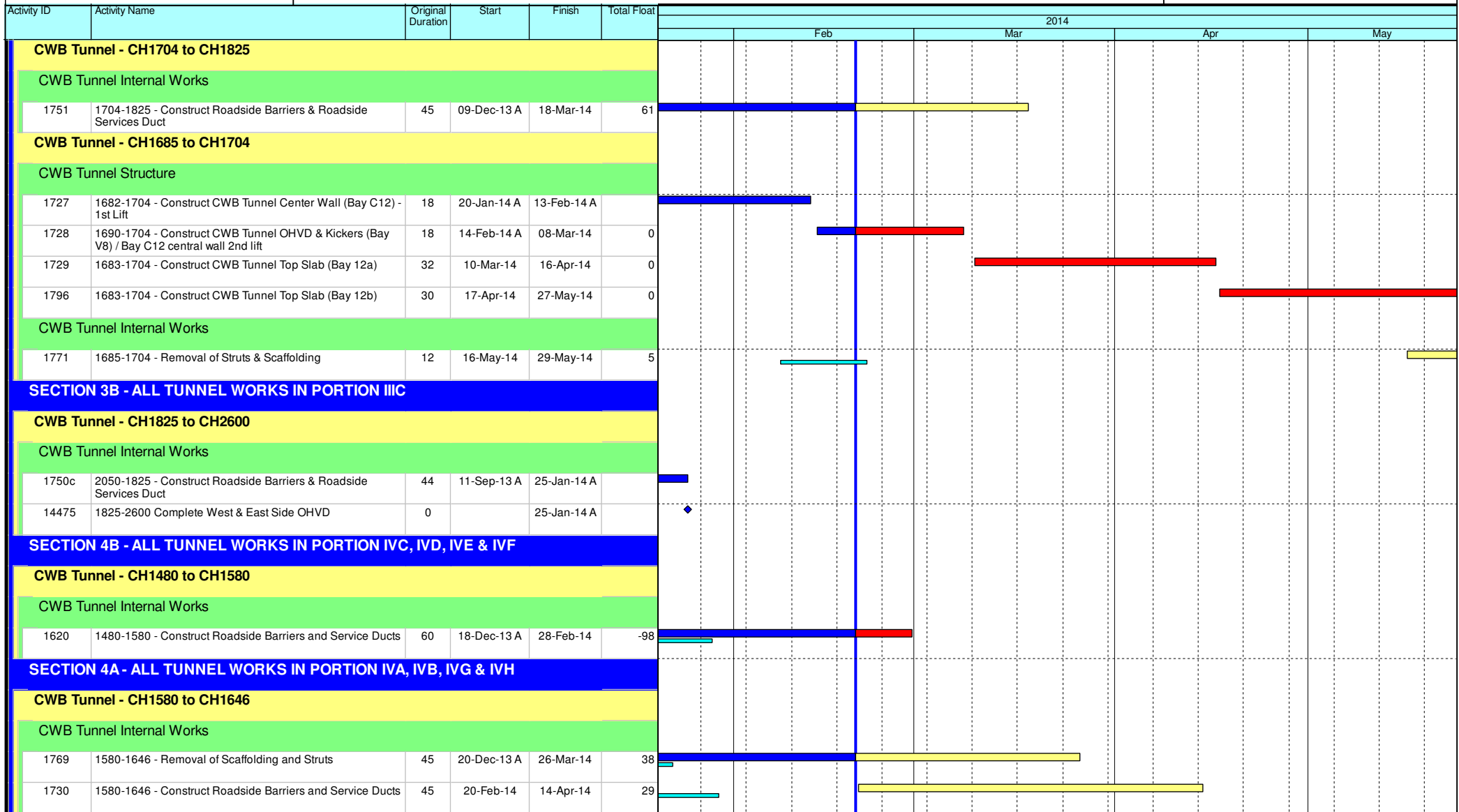
Project ID: U041
Baseline: DCP6-2
Layout: Update Three Month Rolling U041
Page 1 of 7

Date	Revision	Checked	Appro...
20-Jan-14	U040	AT	RW
20-Feb-14	U041	AT	RW

Data Date: 20-Feb-14

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

TASK filters: 3 Months_1, Not HL.



Leighton Contractors (Asia) Limited Programme Update 41 (February 2014) THREE MONTH ROLLING

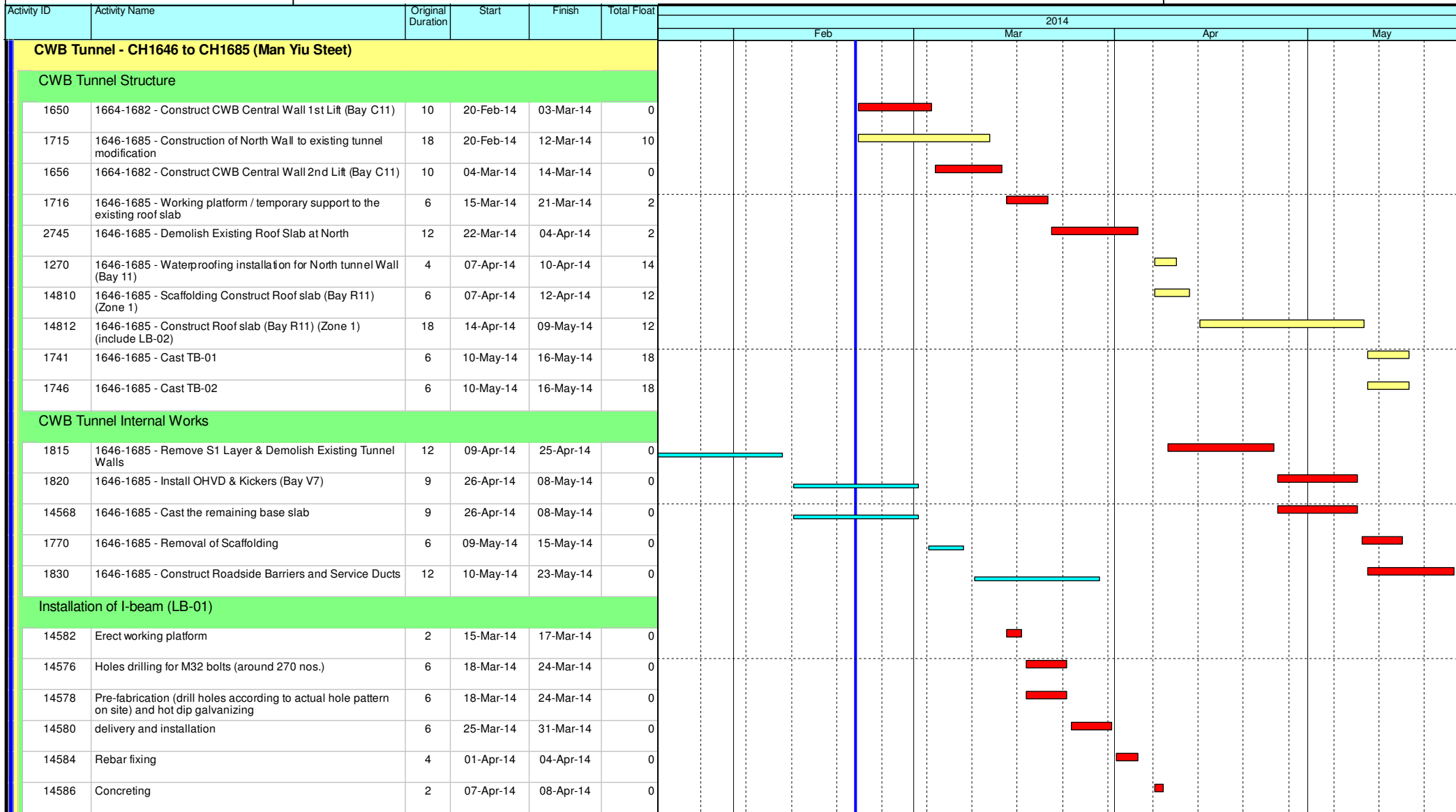
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Baseline: DCP6-2
Layout: Update Three Month Rolling U041
Page 2 of 7

Date	Revision	Checked	Appro...
20-Jan-14	U040	AT	RW
20-Feb-14	U041	AT	RW

Data Date: 20-Feb-14

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

TASK filters: 3 Months_1, Not HL.



- Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- Baseline Milestone
- Project Baseline
- Actual Work

Leighton Contractors (Asia) Limited Programme Update 41 (February 2014) THREE MONTH ROLLING

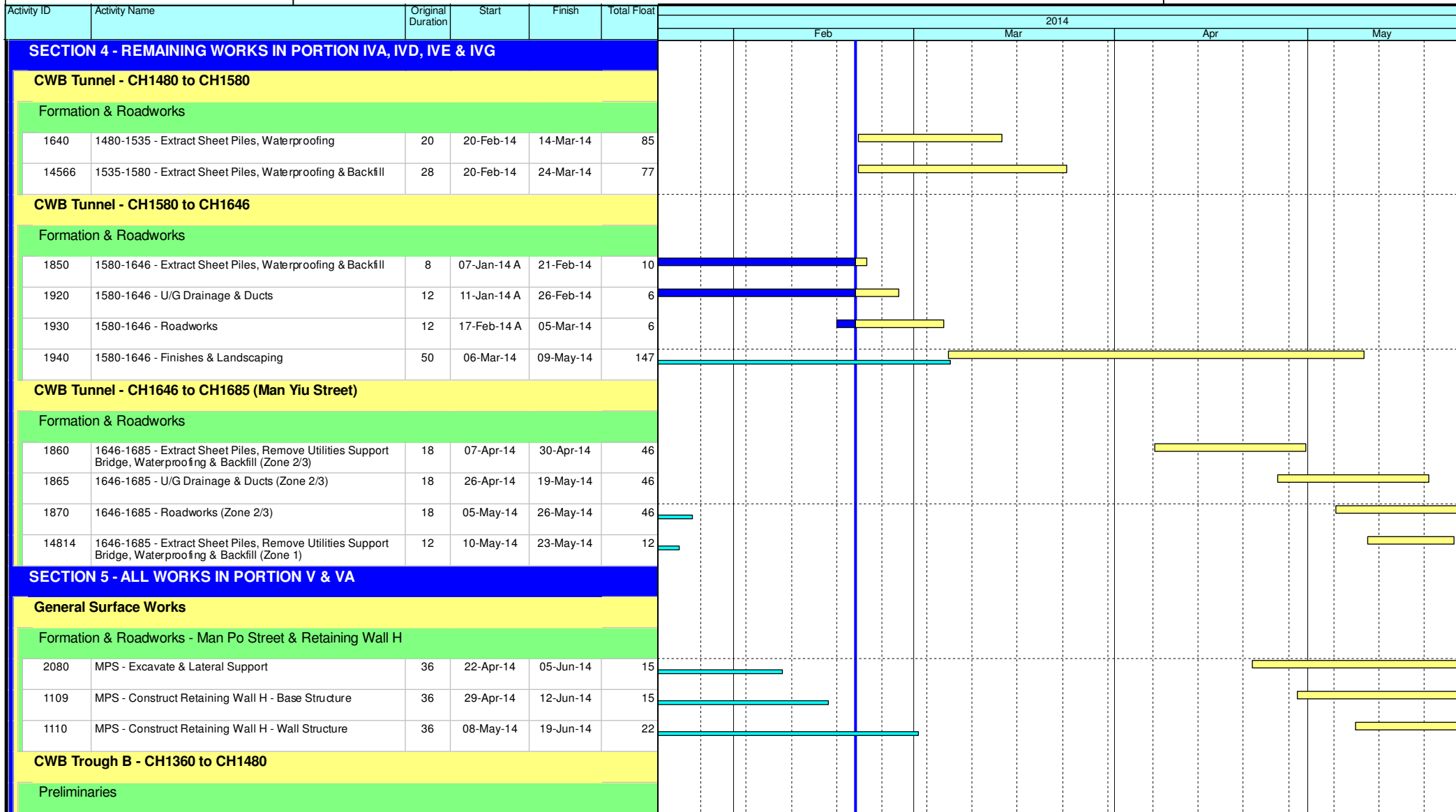
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Baseline: DCP6-2
Layout: Update Three Month Rolling U041
Page 3 of 7

Date	Revision	Checked	Appro...
20-Jan-14	U040	AT	RW
20-Feb-14	U041	AT	RW

Data Date: 20-Feb-14

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

TASK filters: 3 Months_1, Not HL.



- ◆ Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- ▲ Baseline Milestone
- Project Baseline
- Actual Work

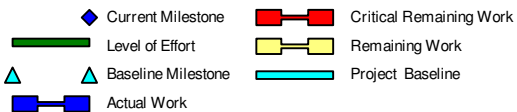
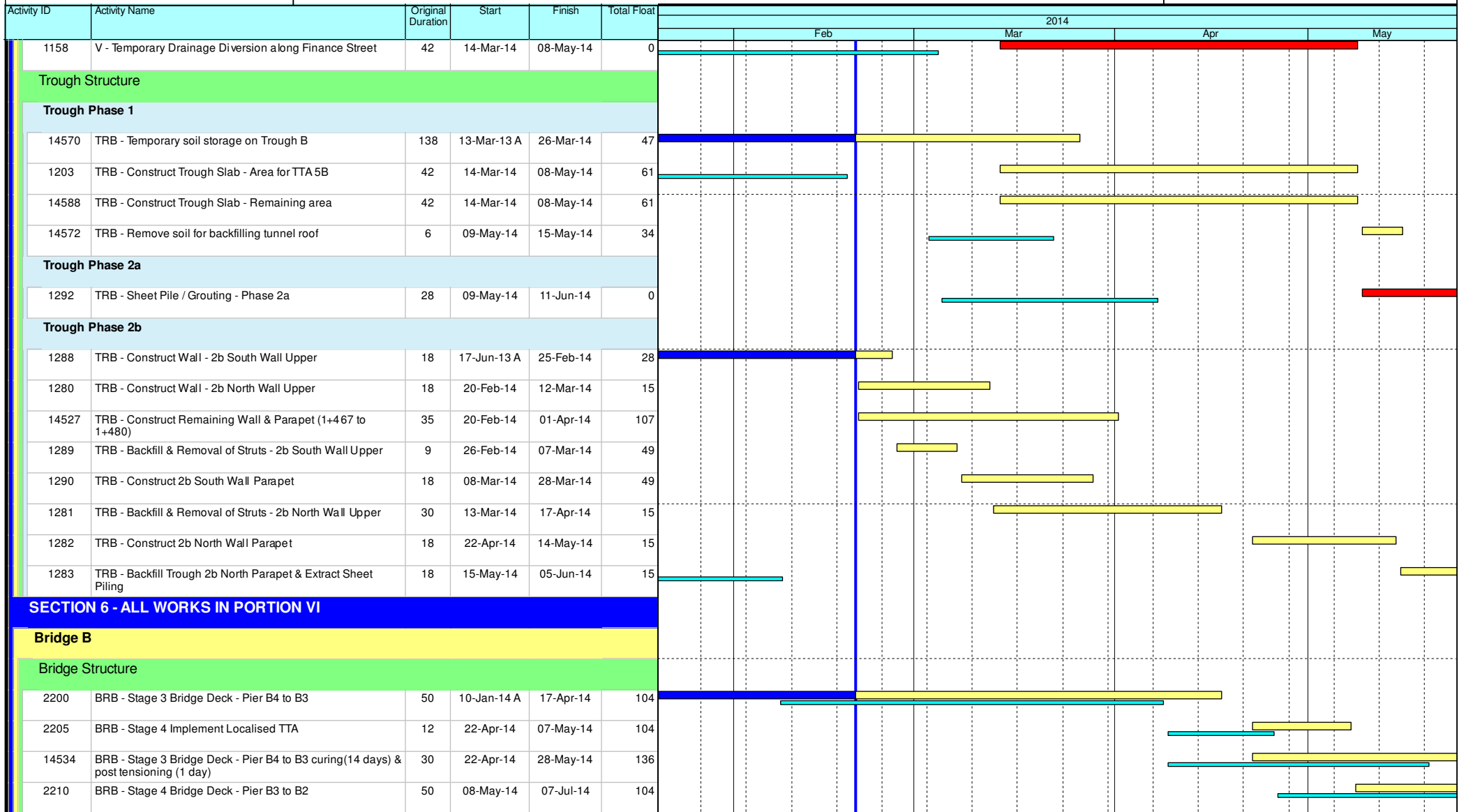
Leighton Contractors (Asia) Limited Programme Update 41 (February 2014) THREE MONTH ROLLING

Project ID: U041
Baseline: DCP6-2
Layout: Update Three Month Rolling U041
Page 4 of 7

Date	Revision	Checked	Appro...
20-Jan-14	U040	AT	RW
20-Feb-14	U041	AT	RW

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

TASK filters: 3 Months_1, Not HL.



Leighton Contractors (Asia) Limited Programme Update 41 (February 2014) THREE MONTH ROLLING

Project ID: U041
Baseline: DCP6-2
Layout: Update Three Month Rolling U041
Page 5 of 7

Date	Revision	Checked	Appro...
20-Jan-14	U040	AT	RW
20-Feb-14	U041	AT	RW

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

TASK filters: 3 Months_1, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2014			
						Feb	Mar	Apr	May
General Surface Works									
Formation & Roadworks - Man Kwong Street West Bound									
1783	MKSVIWB - Implement Localise TTA (Ch 100 - 200)	0	19-May-14		344				◆
1784	MKSVIWB - U/G Drainage (340 - 340A)	102	19-May-14	18-Sep-14	344	[Gantt bar: 19-May-14 to 18-Sep-14]			
Retaining Wall G (to be deleted)									
2810	RWG - Divert Existing Utilities	43	20-May-13 A	11-Mar-14	149	[Gantt bar: 20-May-13 to 11-Mar-14]			
2815	RWG - Install Sheet Piles	25	12-Mar-14	10-Apr-14	149	[Gantt bar: 12-Mar-14 to 10-Apr-14]			
2820	RWG - Excavate & Lateral Support	50	26-Mar-14	29-May-14	149	[Gantt bar: 26-Mar-14 to 29-May-14]			
2830	RWG - Construct Retaining Wall G - Base Structure	96	29-Apr-14	22-Aug-14	149	[Gantt bar: 29-Apr-14 to 22-Aug-14]			
1107	RWG - Construct Retaining Wall G - Wall Structure	96	15-May-14	05-Sep-14	149	[Gantt bar: 15-May-14 to 05-Sep-14]			
Bridge A									
Bridge Structure									
2300	BRA - Pier A2 Columns & Crosshead	36	01-Nov-13 A	20-Mar-14	89	[Gantt bar: 01-Nov-13 to 20-Mar-14]			
1622	BRA - Backfill Pile Cap Abutment A	6	20-Feb-14	26-Feb-14	98	[Gantt bar: 20-Feb-14 to 26-Feb-14]			
2358	BRA - Abutment A	35	27-Feb-14	09-Apr-14	98	[Gantt bar: 27-Feb-14 to 09-Apr-14]			
1623	BRA - Curing & Erection of Scaffold Pier A3 to A2 Bridge Deck	25	21-Mar-14	23-Apr-14	89	[Gantt bar: 21-Mar-14 to 23-Apr-14]			
2310	BRA - Pier A3 to A2 Bridge Deck	35	24-Apr-14	06-Jun-14	89	[Gantt bar: 24-Apr-14 to 06-Jun-14]			
1624	BRA - Curing & Erection of Scaffold Pier A2 to Abutment A Bridge Deck	25	24-Apr-14	24-May-14	99	[Gantt bar: 24-Apr-14 to 24-May-14]			
Elevated Layby at Rumsey Street Flyover East Bound									
Bridge Structure									
2760	RSFLB - Pier E1/E2 Columns	70	04-Dec-13 A	26-Mar-14	438	[Gantt bar: 04-Dec-13 to 26-Mar-14]			
2770	RSFLB - Pier E1/E2 Bridge Deck	36	27-Mar-14	14-May-14	438	[Gantt bar: 27-Mar-14 to 14-May-14]			
2780	RSFLB - Construct Parapet	18	15-May-14	05-Jun-14	438	[Gantt bar: 15-May-14 to 05-Jun-14]			
INTERFACING WORKS									
Interfacing with CWB(RW)									

<ul style="list-style-type: none"> ◆ Current Milestone ▬ Level of Effort ▲ Baseline Milestone ▬ Actual Work 	<ul style="list-style-type: none"> ▬ Critical Remaining Work ▬ Remaining Work ▬ Project Baseline
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Leighton Contractors (Asia) Limited Programme Update 41 (February 2014) THREE MONTH ROLLING

Project ID: U041
 Baseline: DCP6-2
 Layout: Update Three Month Rolling U041
 Page 6 of 7

Date	Revision	Checked	Appro...
20-Jan-14	U040	AT	RW
20-Feb-14	U041	AT	RW

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2014											
						Feb			Mar			Apr			May		
4215	INT - Section 3B - Joint Inspection & Handover to CWB(RW)	14	27-Jan-14 A	10-Feb-14 A													
4200	INT - Section 4B - Joint Inspection & Handover to CWB(RW)	14	01-Mar-14	14-Mar-14	-124												
Key Dates for Completion of Sections																	
Anticipated Completion																	
1034	KD5 - Anticipated Completion	0		25-Jan-14 A													
Contract Required Completion																	
1035	KD5 - Section 3B Complete (DAY-1229)	0		25-Jan-14 A													
Portion Handover Dates																	
Anticipated Handover																	
2910	Portion IIC Handover (KD5 + 28 days)	0		21-Feb-14*	7												
2900	Portion IVC Handover (KD8 + 28 days)	0		14-Mar-14*	-124												
2905	Portion IVF Handover (KD8 + 28 days)	0		14-Mar-14*	-124												
Contract Required Handover																	
3005	Portion IVC Handover (KD8 + 28 days)	0		20-Feb-14*	-101												
3015	Portion IVF Handover (KD8 + 28 days)	0		20-Feb-14*	-101												
3020	Portion IIC Handover (KD5 + 28 days)	0		21-Feb-14*	7												

- Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- Baseline Milestone
- Project Baseline
- Actual Work

Leighton Contractors (Asia) Limited

Programme Update 41 (February 2014)

THREE MONTH ROLLING

Project ID: U041
 Baseline: DCP6-2
 Layout: Update Three Month Rolling U041
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Date	Revision	Checked	Appro...
20-Jan-14	U040	AT	RW
20-Feb-14	U041	AT	RW

Activity ID	Activity Name	Rem Dur	Start	Finish	2014																
					February					March				April				May			
					0	27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12
3MRP - Feb 2014 to May 2014																					
01 - CONTRACT DATES																					
01.2 - Possession of Site																					
0120-3000	Possession to Portion IVA	0	09-Mar-14*																		
0120-3100	Possession to Portion IVB	0	09-Mar-14*																		
0120-3200	Possession to Portion IIA	0	09-Mar-14*																		
02 - PRE-CONSTRUCTION WORKS																					
02.2 - Contractor's Submission																					
0220-1510	Road Work Materials/Street Furnitures - Submission	48	20-Feb-14	08-Apr-14																	
0220-1520	Road Work Materials/Street Furniture - ER Review/Comment	48	04-Mar-14	20-Apr-14																	
0220-1530	Road Work Materials/Street Furniture - Resubmission	48	16-Mar-14	02-May-14																	
0220-1540	Road Work Materials/Street Furniture - ER Approval	48	25-Mar-14	11-May-14																	
0220-1550	Road Work Materials/Street Furniture - Procurement & Delivery	60	25-Mar-14	23-May-14																	
0220-1560	Noise Enclosure/Barrier - Steel Material Submission	28	02-Jan-14 A	19-Mar-14																	
0220-1570	Noise Enclosure/Barrier - Steel Material Comment/Resubmission	18	12-Feb-14 A	06-Apr-14																	
0220-1580	Noise Enclosure/Barrier - Steel Material No Adverse Comment	12	07-Apr-14	18-Apr-14																	
02.3 - Method Statement / Shop Drawings																					
0230-1580	MS Bridge F1A/F2A Int. Noise Semi Enclosure - Submission	28	10-Mar-14*	06-Apr-14																	
0230-1590	MS Bridge F1A/F2A Int. Noise Semi Enclosure - ER Review / Comment	15	07-Apr-14	21-Apr-14																	
0230-1600	MS Bridge F1A/F2A Int. Noise Semi Enclosure - Resubmission	12	22-Apr-14	03-May-14																	
0230-1610	MS Bridge F1A/F2A Int. Noise Semi Enclosure - No Adverse Comment	15	04-May-14	18-May-14																	
0230-1500	MS Bridge Demolition Pier E3 to P20 - Submission	24	01-Apr-14*	24-Apr-14																	
0230-1510	MS Bridge Demolition Pier E3 to P20 - ER Review & Comment	18	25-Apr-14	12-May-14																	
0230-1520	MS Bridge Demolition Pier E3 to P20 - Resubmission	18	13-May-14	30-May-14																	
0230-1940	MS Beam Erection D1 to E2 - Submission	18	10-Feb-14 A	09-Mar-14																	
0230-1950	MS Beam Erection D1 to E2 - Comment/Resubmission	18	10-Mar-14	27-Mar-14																	
0230-1960	MS Beam Erection D1 to E2 - No Adverse Comment	12	28-Mar-14	08-Apr-14																	
0230-2030	MS Beam Erection F8 to F15 - Submission	0	02-Jan-14 A	06-Feb-14 A																	
0230-2040	MS Beam Erection F8 to F15 - Review/Comment	0	07-Feb-14 A	18-Feb-14 A																	
0230-2050	MS Beam Erection F8 to F15 - Resubmission	9	19-Feb-14 A	28-Feb-14																	
0230-2060	MS Beam Erection F8 to F15 - No Adverse Comment	15	01-Mar-14	15-Mar-14																	
0230-2080	MS ADB Pre-bored H-pile - No Adverse Comment	0	02-Dec-13 A	19-Feb-14 A																	
0230-1420	MS Permanent Noise Barrier Cantilever - Submission	18	10-Feb-14 A	09-Mar-14																	
0230-1430	MS Permanent Noise Barrier Cantilever - ER Review & Comment	15	10-Mar-14	24-Mar-14																	
0230-1440	MS Permanent Noise Barrier Cantilever - Resubmission	15	25-Mar-14	08-Apr-14																	
0230-1450	MS Permanent Noise Barrier Cantilever - No Adverse Comment	15	09-Apr-14	23-Apr-14																	
0230-1780	MS Temporary Bridge TD - Submission	9	02-Jan-14 A	28-Feb-14																	
0230-1790	MS Temporary Bridge TD - ER Review & Comment	18	01-Mar-14	18-Mar-14																	
0230-1800	MS Temporary Bridge TD - Resubmission	18	19-Mar-14	05-Apr-14																	
0230-1810	MS Temporary Bridge TD - No Adverse Comment	18	06-Apr-14	23-Apr-14																	
02.4 - Contractor's Design and Build Items																					
0240-1041	Temp Bridge "TD" Design - Submission	12	01-Mar-13 A	03-Mar-14																	
0240-1042	Temp Bridge "TD" Design - ER review and comment	15	04-Mar-14	18-Mar-14																	
0240-1043	Temp Bridge "TD" Design - Resubmission	15	19-Mar-14	02-Apr-14																	

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

Contract HY/2009/19

Three Month Rolling Programme (20 Feb 2014 to 19 May 2014)

3MRP

3MRP - Feb 2014 to May 2014

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Activity ID	Activity Name	Rem Dur	Start	Finish	2014																		
					February					March					April					May			
					0	27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19	
0240-1044	Temp Bridge "TD" Design - No Adverse Comment	15	03-Apr-14	17-Apr-14																Temp Bridge "TD" Design - No Adverse Comment			
0240-1045	Temp Bridge "TD" - Fabrication Pier F8 to F10	48	03-Feb-14 A	17-Apr-14																Temp Bridge "TD" - Fabrication Pier F8 to F10			
A1000	Temp Bridge "TD" - Fabrication Pier F5 to F8 and F10 to F15	60	18-Apr-14	16-Jun-14																			
0240-1110	Int. Noise Enclosure Structural Design - ER Review/Resubmission	14	17-Jan-14 A	05-Mar-14																Int. Noise Enclosure Structural Design - ER Review/Resubmission			
0240-1111	Int. Noise Enclosure Structural Design - No Adverse Comment	28	06-Mar-14	02-Apr-14																Int. Noise Enclosure Structural Design - No Adverse Comment			
0240-1113	Int. Noise Enclosure Structural - Shop Drawings Bridge F1A/F2A	24	02-Jan-14 A	15-Mar-14																Int. Noise Enclosure Structural - Shop Drawings Bridge F1A/F2A			
0240-1114	Int. Noise Enclosure - Fabrication Yard Inspection	12	22-Mar-14	02-Apr-14																Int. Noise Enclosure - Fabrication Yard Inspection			
0240-1115	Int. Noise Enclosure - Fabrication/Delivery Bridge F1A/F2A	60	13-Apr-14	11-Jun-14																			
0240-1132	Noise Barrier Structural - Shop Drawings	24	02-Jan-14 A	15-Mar-14																Noise Barrier Structural - Shop Drawings			
0240-1133	Noise Barrier Structural - Fabrication/Delivery	90	22-Mar-14	19-Jun-14																			
0240-1134	Noise Barrier Panel - Submission	24	29-Jan-14 A	15-Mar-14																Noise Barrier Panel - Submission			
0240-1136	Noise Barrier Panel - Design ER Review/Resubmission	18	19-Feb-14 A	02-Apr-14																Noise Barrier Panel - Design ER Review/Resubmission			
0240-1137	Noise Barrier Panel - Design No Adverse Comment	28	03-Apr-14	30-Apr-14																Noise Barrier Panel - Design			
0240-1138	Noise Barrier Panel - Fabrication Delivery	60	03-Apr-14	01-Jun-14																			
0240-1050	Temp Bridge "TB" & "TC" Design - Prep & Submit	60	10-Mar-14*	08-May-14																Temp Bridge "TB"			
0240-1060	Temp Bridge "TB" & "TC" Design - ER review and comment	28	09-May-14	05-Jun-14																			
0240-1430	Temp. Tie-in Bridge F3A to Existing E/B Bridge - Design Submission	30	03-Mar-14*	01-Apr-14																Temp. Tie-in Bridge F3A to Existing E/B Bridge - Design Submission			
0240-1440	Temp. Tie-in Bridge F3A to Existing E/B Bridge - Comment/Resubmission	18	02-Apr-14	19-Apr-14																Temp. Tie-in Bridge F3A to Existing E/B Bridge			
0240-1450	Temp. Tie-in Bridge F3A to Existing E/B Bridge - No Adverse Comment	12	20-Apr-14	01-May-14																Temp. Tie-in Bridge F3A to			
02.5 - Bridge Segment/Beam Off-site Precasting																							
0250-1650.20	Bridge D1 Pier D02 Precasting Segment (1-17) - Mould S1	9	23-Dec-13 A	28-Feb-14																Bridge D1 Pier D02 Precasting Segment (1-17) - Mould S1			
03 - PRELIMINARY WORKS																							
03.2 - Geotechnical Instrumentation & Monitoring Works																							
0320-1300	Geotechnical Instrumentation Portion IVB	12	10-Mar-14	22-Mar-14																Geotechnical Instrumentation Portion IVB			
03.3 - Interface Works																							
0330-1200	Agreement of HGHK Interim Temp Carpark	0	20-Jun-13 A	31-Jan-14 A																Agreement of HGHK Interim Temp Carpark			
0330-1300	Erect Interim Temp Carpark for HGHK	15	10-Feb-14 A	08-Mar-14																Erect Interim Temp Carpark for HGHK			
0330-1350	Erect Special Hoarding at Portion IVB	36	10-Mar-14	23-Apr-14																Erect Special Hoarding at Portion IVB			
05 - SECTION 2 & 2A OF THE WORKS																							
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)																							
05.1.1 - D-Wall Construction																							
0511-1100	Pump Test Ch 4855-4932	0	30-Dec-13 A	19-Feb-14 A																Pump Test Ch 4855-4932			
05.1.2 - ELS																							
0512-1102	Zone 2 EVB Area 2nd Layer Excav (3000/6100m3@750m3/d)	0	31-Dec-13 A	05-Feb-14 A																Zone 2 EVB Area 2nd Layer Excav (3000/6100m3@750m3/d)			
0512-1103	Zone 2 EVB Area 2nd Layer Strut Install	0	25-Jan-14 A	15-Feb-14 A																Zone 2 EVB Area 2nd Layer Strut Install			
0512-1105	Zone 3 EVB Area 3rd Layer Excava (6120m3@750m3/d)	9	14-Feb-14 A	01-Mar-14																Zone 3 EVB Area 3rd Layer Excava (6120m3@750m3/d)			
0512-1107	Zone 3 EVB Area 3rd Layer Strut Install	9	03-Mar-14	12-Mar-14																Zone 3 EVB Area 3rd Layer Strut Install			
0512-1130	Zone 5 EVB Area 2nd Layer Excav (5520/7890m3@750m3/d)	0	13-Jan-14 A	06-Feb-14 A																Zone 5 EVB Area 2nd Layer Excav (5520/7890m3@750m3/d)			
0512-1135	Zone 5 EVB Area 2nd Layer Strut Install	0	07-Feb-14 A	15-Feb-14 A																Zone 5 EVB Area 2nd Layer Strut Install			
0512-1140	Zone 6 EVB Area 3rd Layer Excav (11050m3@750m3/d)	15	19-Feb-14 A	08-Mar-14																Zone 6 EVB Area 3rd Layer Excav (11050m3@750m3/d)			
0512-1145	Zone 6 EVB Area 3rd Layer Strut Install	9	13-Mar-14	22-Mar-14																Zone 6 EVB Area 3rd Layer Strut Install			
0512-1150	Zone 7 EVB Area 4th Layer Excav (14490m3@750m3/d)	19	13-Mar-14	03-Apr-14																Zone 7 EVB Area 4th Layer Excav (14490m3@750m3/d)			
0512-1155	Zone 7 EVB Area 4th Layer Strut Install	18	24-Mar-14	14-Apr-14																Zone 7 EVB Area 4th Layer Strut Install			
0512-1160	Zone 8 EVB Area 5th Layer Excav (12230m3@750m3/d)	16	04-Apr-14	25-Apr-14																Zone 8 EVB Area 5th Layer Excav (12230m3@750m3/d)			

- █ Remaining Level of Effort
- █ Actual Level of Effort
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Feb 2014 to 19 May 2014)

3MRP

3MRP - Feb 2014 to May 2014

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Activity ID	Activity Name	Rem Dur	Start	Finish	2014																		
					February					March					April					May			
					0	27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19	
0512-1165	Zone 8 EVB Area 5th Layer Strut Install	16	15-Apr-14	06-May-14																			
0512-1170	Zone 9 EVB Area 6th Layer Excav (10430m3@750m3/d)	14	26-Apr-14	13-May-14																			
0512-1175	Zone 9 EVB Area 6th Layer Strut Install	14	07-May-14	22-May-14																			
0512-1180	Zone 10 EVB Area 7th Layer Excav (10430m3@750m3/d)	14	14-May-14	29-May-14																			
0512-1210	Access Zone 4A EVB Area 1st Layer Excav (1610m3@200m3/d)	8	26-Mar-14	03-Apr-14																			
0512-1215	Access Zone 4A EVB Area 1st Layer Strut Install	6	04-Apr-14	11-Apr-14																			
0512-1230	Access Zone 5A EVB Area 2nd Layer Excav (1770m3@200m3/d)	9	12-Apr-14	24-Apr-14																			
0512-1235	Access Zone 5A EVB Area 2nd Layer Strut Install	7	25-Apr-14	03-May-14																			
0512-1240	Access Zone 6A EVB Area 3rd Layer Excav (2500m3@200m3/d)	12	05-May-14	17-May-14																			
0512-1250	Access Zone 6A EVB Area 3rd Layer Strut Install	9	19-May-14	28-May-14																			
05.2 - Cut & Cover Tunnel Ch 4932-5149																							
05.2.1 - D-Wall Construction																							
0521-2170	Pump Test Ch 4932-5149	0	30-Dec-13 A	19-Feb-14 A																			
05.2.3 - ELS																							
0524-2888	Pump Sump - Sheet Piling	18	17-Jan-14 A	12-Mar-14																			
0524-2889	Pump Sump - Excavation & Lateral Support	12	13-Mar-14	26-Mar-14																			
0524-2890	Pump Sump - Structure	15	27-Mar-14	14-Apr-14																			
0524-3005	Tunnel Phase 2 Zone 9 - Excav	0	19-Dec-13 A	30-Jan-14 A																			
05.2.4 - Tunnel Structure																							
0524-3015	Bay 1 Tunnel Vertical Wall	7	15-Apr-14	24-Apr-14																			
0524-3025	Bay 1 Tunnel False Works	6	25-Apr-14	02-May-14																			
0524-3035	Bay 1 Tunnel OHVD Slab	8	03-May-14	12-May-14																			
0524-3045	Bay 1 Tunnel Roof Slab	12	13-May-14	26-May-14																			
0524-3095	Bay 3 Tunnel Roof Slab	0	06-Dec-13 A	23-Jan-14 A																			
0524-3195	Bay 6 Tunnel Roof Slab	6	27-Jan-14 A	26-Feb-14																			
0524-3325	Bay 9 Tunnel Vertical Wall	0	13-Jan-14 A	28-Jan-14 A																			
0524-3335	Bay 9 Tunnel False Works	11	10-Feb-14 A	04-Mar-14																			
0524-3345	Bay 9 Tunnel OHVD Slab North Side	8	10-Feb-14 A	28-Feb-14																			
0524-3355	Bay 9 Tunnel Roof Slab	12	05-Mar-14	18-Mar-14																			
0524-3115	Bay 2 Tunnel Vertical Wall	7	07-Apr-14	14-Apr-14																			
0524-3125	Bay 2 Tunnel False Works	6	15-Apr-14	23-Apr-14																			
0524-3135	Bay 2 Tunnel OHVD Slab	8	24-Apr-14	03-May-14																			
0524-3145	Bay 2 Tunnel Roof Slab	12	05-May-14	17-May-14																			
0524-3295	Bay 5 Tunnel Roof Slab	0	06-Jan-14 A	28-Jan-14 A																			
0524-3385	Bay 7 Tunnel Vertical Wall	0	26-Dec-13 A	11-Feb-14 A																			
0524-3395	Bay 7 Tunnel False Works	6	12-Feb-14 A	26-Feb-14																			
0524-3405	Bay 7 Tunnel OHVD Slab	12	17-Feb-14 A	05-Mar-14																			
0524-3415	Bay 7 Tunnel Roof Slab	12	06-Mar-14	19-Mar-14																			
0524-3435	Bay 8 Tunnel Vertical Wall	0	27-Dec-13 A	11-Feb-14 A																			
0524-3445	Bay 8 Tunnel False Works	6	12-Feb-14 A	26-Feb-14																			
0524-3455	Bay 8 Tunnel OHVD Slab	12	17-Feb-14 A	05-Mar-14																			
0524-3465	Bay 8 Tunnel Roof Slab	12	13-Mar-14	26-Mar-14																			
0524-3485	Bay 10 Tunnel Base Slab	0	30-Jan-14 A	14-Feb-14 A																			
0524-3495	Bay 10 Tunnel Vertical Wall	7	20-Feb-14	27-Feb-14																			

- Remaining Level of Effort
- Actual Level of Effort
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Contract HY/2009/19

Three Month Rolling Programme (20 Feb 2014 to 19 May 2014)

3MRP

3MRP - Feb 2014 to May 2014

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Activity ID	Activity Name	Rem Dur	Start	Finish	2014																	
					February					March					April				May			
					0	27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19
0524-3505	Bay 10 Tunnel False Works	6	05-Mar-14	11-Mar-14																		
0524-3515	Bay 10 Tunnel OHVD Slab	8	12-Mar-14	20-Mar-14																		
0524-3525	Bay 10 Tunnel Roof Slab	12	21-Mar-14	03-Apr-14																		
0524-3535	Bay 11 Tunnel Base Slab	3	06-Feb-14 A	22-Feb-14																		
0524-3545	Bay 11 Tunnel Vertical Wall	7	24-Feb-14	03-Mar-14																		
0524-3555	Bay 11 Tunnel False Works	6	31-Mar-14	07-Apr-14																		
0524-3565	Bay 11 Tunnel OHVD Slab	8	08-Apr-14	16-Apr-14																		
0524-3575	Bay 11 Tunnel Roof Slab	12	17-Apr-14	03-May-14																		
0524-3585	Bay 12 Tunnel Base Slab	7	27-Feb-14	06-Mar-14																		
0524-3595	Bay 12 Tunnel Vertical Wall	7	07-Mar-14	14-Mar-14																		
0524-3605	Bay 12 Tunnel False Works	6	15-Mar-14	21-Mar-14																		
0524-3615	Bay 12 Tunnel OHVD Slab	8	28-Mar-14	07-Apr-14																		
0524-3625	Bay 12 Tunnel Roof Slab	12	08-Apr-14	23-Apr-14																		
0524-3635	Bay 13 Tunnel Base Slab	7	24-Feb-14	03-Mar-14																		
0524-3645	Bay 13 Tunnel Vertical Wall	7	04-Mar-14	11-Mar-14																		
0524-3655	Bay 13 Tunnel False Works	6	12-Mar-14	18-Mar-14																		
0524-3665	Bay 13 Tunnel OHVD Slab	8	19-Mar-14	27-Mar-14																		
0524-3675	Bay 13 Tunnel Roof Slab	12	28-Mar-14	11-Apr-14																		
0524-3685	Waterproof Top Slab Bays 12 and 13	12	15-Apr-14	30-Apr-14																		
0524-3475	Waterproof Top Slab Bay 5 to Bay 9	12	02-May-14	15-May-14																		
05.2.5 - Road & Miscellaneous Works																						
0525-2950	Backfill above Tunnel Structure Bay 10 to Bay 13	11	28-Apr-14	10-May-14																		
0525-2940	Backfill above Tunnel Structure Bay 5 to Bay 9	15	16-May-14	03-Jun-14																		
06 - SECTION 3 OF THE WORKS																						
06.1 - Westbound - Pier 29-34																						
0610-2124	Pier 29-4 Bored Pile	6	07-Jan-14 A	26-Feb-14																		
0610-2126	Pier 29-3 Bored Pile	30	27-Feb-14	02-Apr-14																		
06.2 - Box Culvert U1																						
0620-2630	1500mm Drainage MH 1-42 to 1-43 - Excavation	7	24-Feb-14	03-Mar-14																		
0620-2640	1500mm Drainage MH 1-42 to 1-43 - Pipe Laying	5	04-Mar-14	08-Mar-14																		
0620-2650	1500mm Drainage Construct MH 1-42	12	10-Mar-14	22-Mar-14																		
0620-2660	1500mm Drainage MH 1-42 to 1-43 - Backfill + Extract Sheet Pile	9	24-Mar-14	02-Apr-14																		
06.3 - Admin Building																						
0630-3100	Predrill for Adm Building (27 no) (3 set)	3	31-Oct-13 A	22-Feb-14																		
0630-3105	Admin Bldg Pile G.I. Report / Founding Level	18	13-Jan-14 A	12-Mar-14																		
0630-3111	Admin Bldg Pre-bored H-pile GL A-F (31 nos.)	90	24-Feb-14	13-Jun-14																		
0630-3112	Admin Bldg Pre-bored H-pile GL G-N (25 nos.)	72	03-Mar-14	29-May-14																		
09 - SECTION 6 OF THE WORKS																						
09.2 - Westbound - Pier 26-27																						
0920-2100	Pre-drilling for Piling at IVB (pier 26) (possession on 25Feb14) (2 no)	12	24-Apr-14	08-May-14																		
0920-2105	Pier 26 Pile G.I. Final Report / Founding Level	12	09-May-14	22-May-14																		
10 - SECTION X OF THE WORKS																						
10.1 - E/B Bridges (Bridge D, E and F)																						
10.1.1 - Marine Pier Construction																						

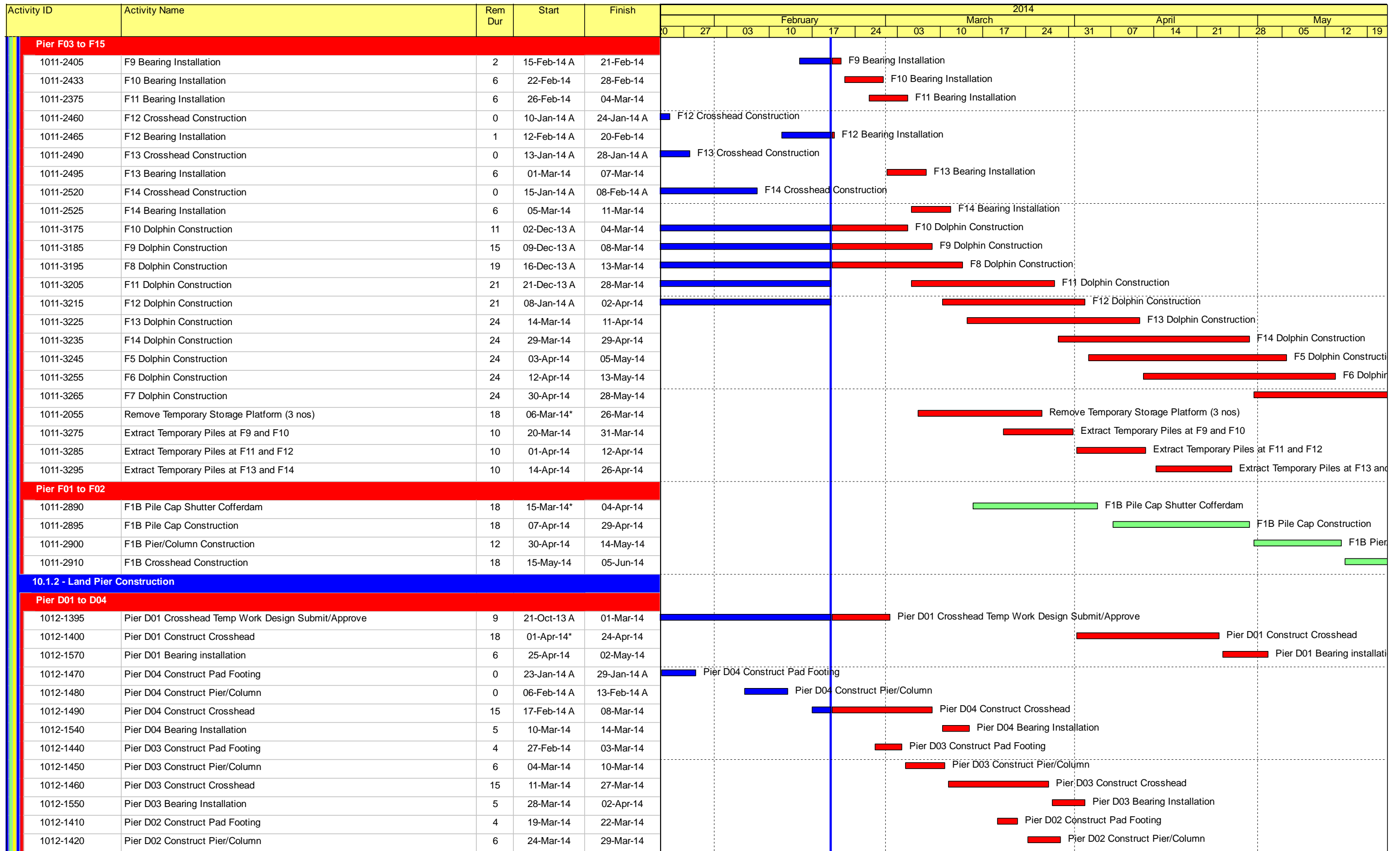
- Remaining Level of Effort
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Activity ID	Activity Name	Rem Dur	Start	Finish	2014																		
					February					March				April				May					
					0	27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19	
1013-1570	Bridge D2 Construct Parapet (320/6m, 2 sets @ 2d)	54	29-Apr-14	03-Jul-14																			
Bridge D1																							
1013-1591	Bridge D1 Pier Segment Erection at Pier D03	4	14-Apr-14	17-Apr-14																			
1013-1592	Launch Forward LG to Pier D02	1	19-Apr-14	19-Apr-14																			
1013-1860	Bridge D1 Pier Segment Erection at Pier D03	4	22-Apr-14	25-Apr-14																			
1013-1600	Bridge D1 Segment Launching T-span Pier D03 (16 nos)	4	26-Apr-14	30-Apr-14																			
1013-1605	Bridge D1 Segment Launching End-span at Pier D04 (7 nos)	4	02-May-14	06-May-14																			
1013-1630	Bridge D1 Stitching at midspan between D03-D04	5	07-May-14	12-May-14																			
1013-1870	Launch Forward LG to Pier D01	1	17-May-14	17-May-14																			
1013-1880	Bridge D1 Pier Segment Erection at Pier D01	3	19-May-14	21-May-14																			
All E/B Bridges (Common)																							
1013-1770	Procurement of Parapet Sub-contractor	0	21-Oct-13 A	10-Feb-14 A																			
1013-1780	Parapet Temp. Work Design + ICE	12	11-Feb-14 A	05-Mar-14																			
1013-1790	Parapet Temp. Work Design ER No Adverse Comment	15	06-Mar-14	22-Mar-14																			
1013-1800	Parapet Temp. Work Fabrication	18	06-Mar-14	26-Mar-14																			
1013-1710	Permanent Noise Barrier Type C1 E/B Bridge Ch 1059-1362 (304m)	42	12-May-14	30-Jun-14																			
10.1.4 - Bridge E / Hing Fat Slip Road																							
Pier Construction																							
1014-1040	Pier E1b Construct Pier/Column	0	16-Jan-14 A	29-Jan-14 A																			
1014-1070	Pier E1a Construct Pier/Column	0	25-Jan-14 A	31-Jan-14 A																			
1014-1050	Pier E1b Construct Crosshead	18	20-Feb-14	12-Mar-14																			
1014-1080	Pier E1a Construct Crosshead	18	20-Feb-14	12-Mar-14																			
1014-1090	Pier E1a/E1b Bearing installation	6	13-Mar-14	19-Mar-14																			
Bridge Construction																							
1014-1174	Bridge E - Pier E1 to E2 Install Precast Beam (3 nos.)	5	20-Mar-14	25-Mar-14																			
1014-1175	Bridge E - Pier E1 to D1 Install Precast Beam (3 nos.)	5	12-May-14	16-May-14																			
10.5 - Temporary Bridge																							
10.5.1 - Temporary Bridge 'TA'																							
1051-1017	Temporary Bridge TA1 - Bridge Decking + Tie-in to Existing HFSR	6	23-Sep-13 A	10-May-14																			
1051-1018	Temporary Bridge TA1 - Parapet	6	13-Jan-14 A	10-May-14																			
10.5.3 - Temporary Bridge 'TD'																							
1053-1050	Temporary Bridge "TD" Between Piers F8 and F10 - Structural Support	18	19-Apr-14	12-May-14																			
1053-1060	Temporary Bridge "TD" Between Piers F8 and F10 - Bridge Deck & Parapet	24	13-May-14	10-Jun-14																			
10.6 - Tunnel Approach Ramp																							
10.6.1 - Approach Ramp (Excluding Portion IIB)																							
Bored Piles																							
1061-1670	Remaining Pre-drilling for Approach Ramp Bored Piles	36	19-Jul-13 A	02-Apr-14																			
1061-1750	Bored Pile Ramp - BN37	0	13-Jan-14 A	24-Jan-14 A																			
1061-1720	Bored Pile Ramp - BM39	4	10-Jan-14 A	24-Feb-14																			
1061-1800	Bored Pile Ramp - BM47	0	22-Jan-14 A	07-Feb-14 A																			
1061-1770	Bored Pile Ramp - BM35	7	08-Feb-14 A	27-Feb-14																			
1061-1780	Bored Pile Ramp - BM48	8	12-Feb-14 A	28-Feb-14																			
1061-1785	Bored Pile Ramp - BM36	15	28-Feb-14	17-Mar-14																			
1061-1790	Bored Pile Ramp - BM30	15	01-Mar-14	18-Mar-14																			

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Activity ID	Activity Name	Rem Dur	Start	Finish	2014																			
					February					March					April				May					
					0	27	03	10	17	24	03	10	17	24	31	07	14	21	28	05	12	19		
1061-1810	Bored Pile Ramp - BM33	15	18-Mar-14	03-Apr-14												Bored Pile Ramp - BM33								
1061-1820	Bored Pile Ramp - BM29	15	19-Mar-14	04-Apr-14												Bored Pile Ramp - BM29								
1061-1830	Bored Pile Ramp - BM32	15	04-Apr-14	24-Apr-14												Bored Pile Ramp - BM32								
1061-1840	Bored Pile Ramp - BM28	15	07-Apr-14	25-Apr-14												Bored Pile Ramp - BM28								
1061-1850	Bored Pile Ramp - BM34	15	25-Apr-14	13-May-14												Bored Pile Ramp - BM34								
1061-1860	Bored Pile Ramp - BM31	15	26-Apr-14	14-May-14												Bored Pile Ramp - BM31								
10.7 - Section X - Miscellaneous Works																								
10.7.1 - TTM Stages																								
1071-1005	TTA Stage 2A - TMLG / TD / Police Consultation and Endorsement	36	03-May-14	14-Jun-14																Critical Remaining Work				

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Activity ID	Activity Name	Original Duration	Start	Finish	Qtr 1, 2014		Qtr 2, 2014			
					Feb	Mar	Apr	May	Jun	
					HY/2010/08: CWB-SR8 Three Months Rolling Programm					
Works in TS3										
TS3 East & West Reclamation Works										
TS3E - Reclamation (Advance Works)										
TS3E.MW.1030	TS3E North - Rockfill + Levelling Works	13	20-Jan-14 A	07-Feb-14 A	TS3E North - Rockfill + Levelling Works					
TS3E.MW.1080	TS3E South - Dredging Works (Type 3)	19	12-Mar-14*	02-Apr-14	TS3E South - Dredging Works (Type 3)					
TS3E.MW.1085	TS3E South - Dredging Works (Type 1 & 2)	28	03-Apr-14	12-May-14	TS3E South - Dredging Works (Type 1 & 2)					
TS3E.MW.1090	TS3E South - Rockfill + Levelling	20	02-May-14	26-May-14	TS3E South - Rockfill + Levelling					
TS3E.MW.1110	TS3E South - Commence Water Intake Diversion	0	29-May-14		TS3E South - Commence Water Intake Diversion					
TS3E.MW.1100	TS3E South - Seawall Block Installation	48	17-May-14	14-Jul-14	TS3E South - Seawall Block Installation					
Works in SR8 (Open Cut Method)										
SR8 - Cofferdam & Cut & Cover Tunnel Works										
SR8 East Bound - (Seaside to Victoria Road / IEC Central Divider)										
TTA Stage 0 - East Bound										
Stage 0B - East Bound (Seaside) (Ref. DRG. No. CDD/SR8/081)										
SR8.EB.0240	Demolish Island / Construct & Relocate New Bus Stop (West of Footbridge)	24	16-Nov-13 A	21-Mar-14	Demolish Island / Construct & Relocate New Bus Stop (West of Footbridge)					
Stage 1A - East Bound (Seaside) (Ref. DRG. No. CDD/SR8/082)										
SR8.EB.1040	Carry out Stage 1A Pipe Piling Work (A25, A28-A31, B9, B12-B13)	28	09-Jan-14 A	08-Feb-14 A	Carry out Stage 1A Pipe Piling Work (A25, A28-A31, B9, B12-B13)					
SR8.EB.1060	Trim down the Sheet Pile and Pipe Pile and construct the Gas Main Trough	12	08-Mar-14	21-Mar-14	Trim down the Sheet Pile and Pipe Pile and construct the Gas Main Trough					
SR8.EB.1050	Carry out Stage 1A TAM Grout	10	22-Mar-14	02-Apr-14	Carry out Stage 1A TAM Grout					
Water Mains										
SR8.EB.1150	Prelying of Water Main	7	20-Feb-14 A	27-Feb-14	Prelying of Water Main					
SR8.EB.1160	Excavation oand Expose Water Mains	7	20-Feb-14 A	27-Feb-14	Excavation oand Expose Water Mains					
SR8.EB.1170	Connect Water Lines including Test report	7	28-Feb-14	07-Mar-14	Connect Water Lines including Test report					
Telecoms (PCCW)										
SR8.EB.1240	Lay cable containment (PVC Pipes) for Telecom Cables (PCCW)	8	03-Mar-14	11-Mar-14	Lay cable containment (PVC Pipes) for Telecom Cables (PCCW)					
SR8.EB.1300	Excavate and Expose existing Telecom lines	8	03-Mar-14*	11-Mar-14	Excavate and Expose existing Telecom lines					
SR8.EB.1180	Pull Telecom Cables to New Containment	6	12-Mar-14	18-Mar-14	Pull Telecom Cables to New Containment					
SR8.EB.1190	Connect and Test Telecom Cables	6	19-Mar-14	25-Mar-14	Connect and Test Telecom Cables					
Gas Mains										
SR8.EB.1200	Construct and Install Gas Main Trough	12	10-Feb-14 A	28-Feb-14	Construct and Install Gas Main Trough					
SR8.EB.1280	Lay and Connect New Gas Line	12	01-Mar-14	14-Mar-14	Lay and Connect New Gas Line					



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Date	Revision	Checked	Approved
20-Feb-14	3 Month Rolling Programme	DL	

Activity ID	Activity Name	Original Duration	Start	Finish	Qtr 1, 2014		Qtr 2, 2014			
					Feb	Mar	Apr	May	Jun	
SR8.EB.1290	Backfill Trench	2	15-Mar-14	17-Mar-14		■ Backfill Trench				
Stage 1B - East Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)		66	18-Mar-14	10-Jun-14						
SR8.EB.1400	Carry-out pretreatment for Stage 1B Sheet Pile	4	18-Mar-14	21-Mar-14		■ Carry-out pretreatment for Stage 1B Sheet Pile				
SR8.EB.1210	Carry-out preboring for Stage 1B Sheet Pile	8	22-Mar-14	31-Mar-14		■ Carry-out preboring for Stage 1B Sheet Pile				
SR8.EB.1220	Carry-out Stage 1B Sheet Piling works	6	29-Mar-14	04-Apr-14		■ Carry-out Stage 1B Sheet Piling works				
SR8.EB.1140	Carry out Pipe Piling Work (A21-A24,A24a,A24b, A34-A35, B2-B8, B14-B18) 20nos.	28	02-Apr-14	10-May-14			■ Carry out Pipe Piling Work (A21-A24)			
SR8.EB.1255	Carry-out Stage 1B TAM Grout + Jet Grouting (12nos)	8	09-May-14	17-May-14			■ Carry-out Stage 1B TAM Grout			
SR8.EB.1530	Pre-fabrication of Steel Traffic Deck	36	01-Apr-14*	19-May-14			■ Pre-fabrication of Steel Traffic Deck			
SR8.EB.1250	Install King Post for Traffic Deck (8 nos.)	12	19-May-14	31-May-14			■ Install King Post for Traffic Deck			
SR8.EB.1260	Construct Traffic Deck and Temporary Road (including Road Marking & Traffic Signage)	19	19-May-14	10-Jun-14			■ Construct Traffic Deck and Temporary Road			
SR8 West Bound - Ch. 369.000 to 495.000 (Victoria Road / IEC Central Di)		145	29-Nov-13 A	08-Jul-14						
TTA Stage 0 (West Bound)		145	29-Nov-13 A	08-Jul-14						
Stage 1A - West Bound (Inside VP) (Ref. DRG. No.CDD/SR8/085)		82	29-Nov-13 A	09-Apr-14						
SR8.WB.1115	Trench Excavation & Diversion of Existing 11kv Cable	64	20-Dec-13 A	08-Mar-14	■ Trench Excavation & Diversion of Existing 11kv Cable					
SR8.WB.1035.1	Pipe Piling Works Row B (B83-B92, B101-B113) - 16nos	4	10-Feb-14 A	11-Mar-14	■ Pipe Piling Works Row B (B83-B92, B101-B113) - 16nos					
SR8.WB.1080	Pipe Piling Work Row A (A119-A155) - 19nos	63	10-Feb-14 A	14-Mar-14	■ Pipe Piling Work Row A (A119-A155) - 19nos					
SR8.WB.1035.2	Install Sheet Pile for Road Diversion (Row C)	28	29-Nov-13 A	31-Mar-14	■ Install Sheet Pile for Road Diversion (Row C)					
SR8.WB.1100	Install King Post for Traffic Deck (9nos)	18	19-Mar-14*	09-Apr-14	■ Install King Post for Traffic Deck (9nos)					
Stage 1B - West Bound (Inside VP) (Ref. DRG. No.CDD/SR8/085)		77	01-Apr-14	08-Jul-14						
SR8.WB.1220	Carry out Stage 1B Sheet Pile Work	5	01-Apr-14	07-Apr-14		■ Carry out Stage 1B Sheet Pile Work				
SR8.WB.1230	Carry out Stage 1B Pipe Piling Work A118, B93-B100 (9nos)	12	08-Apr-14	24-Apr-14		■ Carry out Stage 1B Pipe Piling Work A118, B93-B100 (9nos)				
SR8.WB.1112	Carry out TAM Grout	26	25-Apr-14	27-May-14		■ Carry out TAM Grout				
SR8.WB.1240	Carry out Stage 1B TAM Grout	6	28-May-14	04-Jun-14		■ Carry out Stage 1B TAM Grout				
SR8.WB.1270	Construct Traffic Deck and Temporary Road (including Road Marking & Traffic Signage)	30	03-May-14	10-Jun-14		■ Construct Traffic Deck and Temporary Road				
SR8.WB.1250	Construction of Traffic Deck and Temporary Road	30	29-May-14	04-Jul-14		■ Construction of Traffic Deck and Temporary Road				
SR8.WB.1122	Carry out remaining Pipe Piling Works in VP	60	25-Apr-14	08-Jul-14		■ Carry out remaining Pipe Piling Works in VP				
SR8 Ch.369.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)		90	19-Dec-13 A	21-Jun-14						
Stage 4 - SR8 Ch.369.000 to Ch317.500 (Tunnel Portal) (Ref. DRG. No.CDD/SI)		90	19-Dec-13 A	21-Jun-14						
SR8.VP.4010	Carry Out Stage 4 Sheet Pile Works	90	19-Dec-13 A	21-Jun-14			■ Carry Out Stage 4 Sheet Pile Works			
SR8 Ch 317.500 to Ch 210.000 - U-Structure & Slab (Victoria Park)		30	18-Dec-13 A	05-Mar-14						
Excavation and Lateral Support		30	18-Dec-13 A	05-Mar-14						
SR8_1760	Sheet pile driving	30	18-Dec-13 A	05-Mar-14	■ Sheet pile driving					
Tsing Fung St - RW & Subway Extension & Toe Wall at Hing Fat St		52	01-Apr-14	07-Jun-14						



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Activity ID	Activity Name	Original Duration	Start	Finish	Qtr 1, 2014			Qtr 2, 2014		
					Feb	Mar	Apr	May	Jun	
Ret. Wall & TF Subway Extension (Portion V)										
Retaining Wall at Tsing Fung Street (Portion V)										
VP_1215	Construct Temporary Pedestrian Walkway	26	01-Apr-14*	07-May-14						Construct Temporary Pedestrian Walkway
VP_1205	Implement TTA	2	08-May-14	09-May-14						Implement TTA
VP_1225	Pre-boring for Sheet Pile	12	10-May-14	23-May-14						Pre-boring for Sheet Pile
VP_1235	TFS New Ret. Wall -sheet pile (400 m2)	12	24-May-14	07-Jun-14						
Works in Victoria Park										
Re-Provisioning Works										
Children's Playground										
Construction Works										
VP_1140	CP - Lighting System	4	24-Feb-14*	27-Feb-14						CP - Lighting System
VP_1230	CP - Install Safety Matting	4	24-Feb-14*	27-Feb-14						CP - Install Safety Matting
VP_1160	CP - Completion of KD4 - Works in Section1B	0		07-Mar-14						CP - Completion of KD4 - Works in Section1B
VP_1210	Site Clearance	10	25-Feb-14*	07-Mar-14						Site Clearance
VP_1560	Landscape Works	28	04-Feb-14 A	07-Mar-14						Landscape Works
Bowling Green Office										
BGO - Construction Works										
VP_1100.02	BGO - site clearance	24	02-Dec-13 A	19-Feb-14 A						BGO - site clearance
VP_1150	BGO - Underground utilities & foundation works	26	19-Mar-14*	22-Apr-14						BGO - Underground utilities & foundation works
VP_1180.01	BGO - Base Slab	24	23-Apr-14	22-May-14						BGO - Base Slab
VP_1180.02	BGO - Walls	36	09-May-14	20-Jun-14						
Tree Transplanting at Portion XIV (Victoria Park Open Space)										
VP_1040	Tree Transplanting & Upkeep at Portion XIV	347	16-Oct-13 A	10-Feb-15						
Mooring Components Upkeep (CBTS and ATS)										
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14	09-Dec-15						
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14	17-Jan-17						
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	20-Mar-17						
Works for Public Works Regional Laboratory (North Lantau)										
Maintenance and Upkeep of New PWRL (Portion XVII)										
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	13-Jan-18						



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