CONTRACT NO: HK/2009/05

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

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

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- SEPTEMBER 2011 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

14 October 2011

ENVIRON

Ref.: AACWBIECEM00_0_1972L.11 17 October 2011

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

By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

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

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for September 2011 dated 14 October 2011.

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

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

Yours sincerely,

David Yeung
Independent Environmental Checker

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

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EXECUTIVE SUMMARY

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

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

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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Sheet piling and grout curtain
- Guide wall construction
- Diaphragm wall construction
- Slip road construction between Man Kwong Street and Finance Street
- Pedestrian subway across slip road

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

- Construction works were completed and a duly signed report on Completion of Works was issued by the Engineer dated on 1 March 2011. In addition, acknowledge of FEP surrender was under preparation by the Contractor

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

- Ground treatment works for proposed diaphragm wall in SCL Tunnels Protection Works.
- Diaphragm wall construction works for SCL Protection Works and CWB (stage 1).

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at

Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Tunnel bored pile works at WCR1 area
- Diaphragm wall construction at WCR1 area
- Toe grout at WCR1 area
- Shear pin at WCR1 area
- Pumping test wells at WCR1 area
- King Post at WCR1 area

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

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

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

- Marine Pre-drilling
- Remove existing dolphin
- Preparation works and removal of existing marine piles
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Pretreatment
- Construction of Guide Wall

Noise Monitoring

iii. Noise monitoring during daytime was conducted at M1a - Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Center; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w – International Finance Centre Eastern and Western End of Podium on a weekly basis. Three limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 7, 15 and 20 September 2011 during restricted hour. After checking contractors' work schedules and investigation found that construction works were conducted with a valid CNP during monitoring and traffic noises as major noise sources contributed in the noise monitoring. Moreover, one limit level exceedance was recorded at M7e - International Finance Centre (Eastern End of Podium) on 20 September 2011 during day time. After checking contractors' work schedules and investigation found that construction works were conducted as the major noise sources contributed in the noise monitoring. It was considered that the exceedances were not related at M1a but related at M7e. Also, no action level exceedance was recorded in this reporting month.

iv. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitefield Depot for the pilling works in FEHD Whitfield Depot and RTN2 – Tunnel (North Point Section) and Island Eastern Corridor Link. No monitoring was conducted during the mentioned periods. Also, no project related action and limit level exceedance was recorded in the reporting period. Maintenance was conducted at station RTN2 on 22 September 2011 during 1200 – 1300 hours, no monitoring was conducted during the period.

Air Monitoring

v. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b - Oil Street Community Liaison Centre; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5a - Children Garden opposite to Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western wing on every six days basis. No action and limit level exceedance were recorded in the reporting period. The monitoring station was temporary suspension until obtainment of a representative long-term air monitoring station on 18 September 2011.

Complaints, Notifications of Summons and Successful Prosecutions

vi. There was one environmental complaint received on 29 August 2011. No further complaint was received after follow-up action and investigation.

Site Inspections and Audit

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

Future Key Issues

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

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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Tree transplanting
- Installation of coupler in CR3

- Drainage diversion works
- Site investigation and pre-drilling works
- Sheet piling and grout curtain
- Guide wall construction
- Diaphragm wall construction
- Slip road construction between Man Kwong Street and Finance Street
- Pedestrian subway across slip road
- Cable detection, pre-drilling in CR3

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

- Construction works were completed and a duly signed report on Completion of Works was issued by the Engineer dated on 1 March 2011. In addition, acknowledge of FEP surrender was under preparation by the Contractor

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

- Pre-drilling works for both CWB and SCL Protection Works would be continued.
- Diaphragm wall construction works for CWB and SCL Protection Works within HKCEC1.

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

- Tunnel bored pile and diaphragm wall construction works.
- Toe grout, Shear pine, Pumping test and King Post at WCR1 area.

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

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

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

- Preparation works and removal of existing marine piles
- Pre-drilling works for bored pile and Diaphragm wall
- Marine Pre-drilling
- Remove existing dolphin
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling

- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Pretreatment
- D-wall and Barrette Piling
- Construction of Guide Wall

INTRODUCTION

1.1 Scope of the Report

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

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

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

1.2 Structure of the Report

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

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

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

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

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

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

Section 7 ***Cumulative Construction Impact due to the Concurrent Projects*** – summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

Section 8 ***Site Inspection*** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

Section 9 ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution

Section 10 ***Conclusion***

PROJECT BACKGROUND

2.1 Background

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

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

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

2.2 Scope of the Project and Site Description

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

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

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

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

Table 2.1 Schedule 2 Designated Projects under this Project

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

2.3 Division of the Project Responsibility

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

2.3.2. In the reporting month, Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) was commenced on 13 July 2011. The details of individual contracts are summarized in ***Table2.2***.

Table 2.2 Details of Individual Contracts under the Project

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

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

2.4 Project Organization and Contact Personnel

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

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

Table 2.3 Contact Details of Key Personnel

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

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

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

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

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

- Construction works were completed and a duly signed report on Completion of Works was issued by the Engineer dated on 1 March 2011. In addition, acknowledge of FEP surrender was under preparation by the Contractor

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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Sheet piling and grout curtain
- Guide wall construction
- Diaphragm wall construction
- Slip road construction between Man Kwong Street and Finance Street
- Pedestrian subway across slip road

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

- Ground treatment works for proposed diaphragm wall in SCL Tunnels Protection Works.

- Diaphragm wall construction works for SCL Protection Works and CWB (stage 1).

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

- Tunnel bored pile works at WCR1 area
- Diaphragm wall construction at WCR1 area
- Toe grout at WCR1 area
- Shear pin at WCR1 area
- Pumping test wells at WCR1 area
- King Post at WCR1 area

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

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

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

- Marine Pre-drilling
- Remove existing dolphin
- Preparation works and removal of existing marine piles
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Pretreatment
- Construction of Guide Wall

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

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

- Construction works were completed and a duly signed report on Completion of Works was issued by the Engineer dated on 1 March 2011. In addition, acknowledge of FEP surrender was under preparation by the Contractor

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

- ELS works for basement construction for pile cap construction.

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

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Sheet piling and grout curtain
- Guide wall construction
- Diaphragm wall construction
- Slip road construction between Man Kwong Street and Finance Street
- Pedestrian subway across slip road
- Cable detection, pre-drilling in CR3

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

- Pre-drilling works for both CWB and SCL Protection Works would be continued.
- Diaphragm wall construction works for CWB and SCL Protection Works within HKCEC1.

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

- Tunnel bored pile and diaphragm wall construction works.
- Toe grout, Shear pine, Pumping test and King Post at WCR1 area.

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

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

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

- Preparation works and removal of existing marine piles
- Pre-drilling works for bored pile and Diaphragm wall
- Marine Pre-drilling
- Remove existing dolphin
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall

- D-wall Pretreatment
- D-wall and Barrette Piling
- Construction of Guide Wall

STATUS OF REGULATORY COMPLIANCE

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0107-11	8 Feb 2011	16 Mar 2011 to 15 Sep 2011	Expired
	GW-RS0384-11	29 Apr 2011	27 May 2011 to 26 Nov 2011	Valid
	GW-RS0680-11	22 Jul 2011	29 Jul 2011 to 19 Jan 2012	Valid
	GW-RS0689-11	28 Jul 2011	29 Jul 2011 to 28 Jan 2012	Valid
	GW-RS0832-11	7 Sep 2011	03 Sep 2011 to 02 Mar 2012	Valid
	GW-RS0850-11	12 Sept 2011	14 Sept 2011 to 13 Mar 2012	Valid
	GW-RS0851-11	12 Sept 2011	16 Sept 2011 to 15 Mar 2012	Valid
	GW-RE0683-11	26 Sept 2011	20 Sept 2011 to 19 Mar 2012	Valid
	GW-RE0716-11	28 Sept 2011	07 Oct 2011 to 29 Mar 2012	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid

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

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0011-11	27 April 2011	1 June 2011 to 30 Nov 2011	Valid
	GW-RS0225-11	17 Mar 2011	31 Mar 2011 to 30 Sept 2011	Cancel

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0280-11	30 Mar 2011	31 Mar 2011 to 30 Sept 2011	Cancel
	GW-RS0335-11	8 April 2011	11 Apr 2011 to 30 Sept 2011	Cancel
	GW-RS0343-11	11 April 2011	25 Apr 2011 to 10 Oct 2011	Valid
	GW-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Valid
	GW-RS0377-11	27 April 2011	1 May 2011 to 31 Oct 2011	Valid
	GW-RE0311-11	4 May 2011	5 May 2011 to 31 Oct 2011	Valid
	GW-RS0401-11	3 May 2011	18 May 2011 to 17 Nov 2011	Valid
	GW-RS0414-11	3 May 2011	9 May 2011 to 8 Nov 2011	Cancel
	GW-RS0423-11	9 May 2011	22 May 2011 to 21 Nov 2011	Valid
	GW-RS0430-11	9 May 2011	16 May 2011 to 15 Nov 2011	Cancel
	GW-RS0453-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0458-11	17 May 2011	21 May 2011 to 20 Nov 2011	Cancel
	GW-RS0461-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0473-11	27 May 2011	01 May 2011 to 30 Nov 2011	Cancel
	GW-RS0496-11	31 May 2011	07 Jun 2011 to 06 Dec 2011	Valid
	GW-RS0502-11	8 Jun 2011	13 Jun 2011 to 12 Dec 2011	Valid
	GW-RS0579-11	22 June 2011	17 July 2011 to 16 Jan 2012	Valid
	GW-RS0645-11	18 July 2011	22 Jul 2011 to 21 Jan 2012	Valid
	GW-RS0649-11	22 July 2011	1 Aug 2011 to 31 Jan 2011	Valid
	GW-RS0691-11	25 July 2011	27 July 2011 to 26 Jan 2011	Valid
	GW-RS0716-11	2 Aug 2011	12 Aug 2011 to 11 Feb 2012	Valid
	GW-RS0722-11	2 Aug 2011	5 Aug 2011 to 5 Oct 2011	Valid
	GW-RS0723-11	12 Aug 2011	15 Aug 2011 to 14 Feb 2012	Valid
	GW-RS0833-11	8 Sept 2011	10 Sept 2011 to 4 Mar 2012	Valid
	GW-RS0857-11	16 Sept 2011	6 Oct 2011 to 5 Apr 2012	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid

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

EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.7 & 2.8	Works Schedule and Location Plan	14 Jun 2011
Special Conditions, Clause 2.6	Environmental Management Organization Chart	14 Jun 2011
Special Conditions, Clause 2.6	Commencement Date of Works	21 Jun 2011
Special Conditions, Clause 2.9	Noise Management Plan	28 Jun 2011
Condition 2.11	Landscape Plan	23 Aug 2011
Condition 2.9	Noise Management Plan (Rev.A)	28-Sep-11

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Permit issued	Valid
Notification of Works Under APCO	322293	07 Oct 2010	Notified	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0795-11	24 Aug 2011	24 Aug 2011 21:00 – 21 Jan 2012 06:00	Valid
	GW-RS0840-11	09 Sept 2011	09 Sept 2011 21:00 – 21 Jan 2012 06:00	Valid
	GW-RS0878-11	22 Sept 2011	22 Sept 2011 19:00 – 17 Dec 2011 21:00	Valid
Discharge Licence	WT00008229-2011	13 Jan 2011	31 Jan 2016	Valid
Registration as a Waste Producer	WPN: 8335-121-L1048-04	17 Dec 2010	Registration completed	Valid
Application for a Billing Account for Disposal of Construction Waste (Construction Work Contract with Value of $1 million or Above) under the Waste Disposal Ordinance (Cap. 354) sections 5 & 9 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulation.	Account No.: 7011587	11 Oct 2010	Account approved	Valid

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

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status

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-RS0847-11	14 Sep 2011	19 Sep 2011 to 16 Mar 2012	Valid
	GW-RS0858-11	16 Sep 2011	18 Sep 2011 to 16 Mar 2012	Valid
	GW-RS0883-11	4 Oct 2011	5 Oct 2011to 4 Apr 2012	Valid
	GW-RS0820-11	5 Sep 2011	8 Sep 2011 to 7 Mar 2012	Valid
	GW-RS0220-11	16 Mar 2011	16 Mar to 15 Sep 2011	Expired
	GW-RS0308-11	1 Apr 2011	4 Apr to 27 Sep 2011	Cancelled
	GW-RS0710-11	3 Aug 2011	5 Aug 2011 to 1 Feb 2012	Cancelled
	GW-RS0727-11	11 Aug 2011	24 Aug 2011 to 23 Feb 2012	Cancelled
	GW-RS0749-11	11 Aug 2011	15 Aug 2011 to 7 Feb 2012	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	28 Apr 2011	1 May 2011 to 30 Oct 2011	Valid
Water Discharge Licence (Discharge at Portion VII)	WT00008780-2011	22 Mar 2011	22 Mar 2011 to 31 Mar 2016	Valid
Water Discharge Licence (Discharge at Hung Hing Road)	WT00010482-2011	30 Sep 2011	30 Sep 2011 to 30 Sep 2013	Valid

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

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	N/A	Valid
Notification of Works Under APCO	326160	24 Jan 2011	N/A	Valid
Registration as a Waste Producer	7012306	10 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	N/A	Valid
Application for Vessel Disposal	7012306	21 July 2011	N/A	Valid

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

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

Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

Table 4.1 Noise Monitoring Stations

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

REAL TIME NOISE MONITORING STATIONS

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

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

Table 4.2 Real Time Noise Monitoring Stations

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

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

4.1.5. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:

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

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

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

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

MONITORING EQUIPMENT

4.1.8. As referred to in the Technical Memorandum ™ 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 July be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

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

Table 4.3 Air Monitoring Stations

Station ID	Monitoring Location	Description

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Garden opposite to Pedestrian Plaza	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (western End of Podium)	Central

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

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.

4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:

- 0.6 – 1.7 m3 per minute adjustable flow range;
- Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- Capable of providing a minimum exposed area of 406 cm2;
- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;

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

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

LABORATORY MEASUREMENT / ANALYSIS

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

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

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

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

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

MONITORING RESULTS

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

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

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

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

5.1 Noise Monitoring Results

5.1.1. The noise monitoring at stations were M1a and M5b during day time, M1a, M7e and M7w during restricted hour were rescheduled on 11 July 2011 due to rain.

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

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

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

Station	Description
M4b	Victoria Centre

5.1.3. No action and limit level exceedance was recorded during day time and restricted hour period in the reporting month. Noise monitoring results measured in this reporting period are

reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2***.

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

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

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

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

5.1.5. No action level and one limit level exceedance was recorded during day time on 20 September 2011 in the reporting month. After checking contractor's work schedules and investigation found that excavation works were conducted by hydraulic extractor during monitoring. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2***.

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

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

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

Station	Description
M1a	Harbour Road Sports Centre

5.1.7. No action level and three limit level exceedances were recorded at M1a – Harbour Road Sports Centre due to a recorded noise complaint on 7, 15 and 20 September 2011 during restricted hour for the contractor of HK/2009/02. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. Details of the Notification of Exceedance can be referred in ***Appendix 6.2***. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring

results and graphical presentation can be referred in ***Appendix 5.2*** and the complaints can be referred in ***Appendix 9.1***.

Contract no. HY/2009/15 – 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 division of noise monitoring stations are summarized in ***Table 5.4*** below.

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

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

5.1.9. No action level and limit level exceedance was recorded during day time and restricted hour period in the reporting month. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2*** and the complaints can be referred in ***Appendix 9.1***.

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

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

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

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

5.1.11. No action level and limit level exceedance was recorded during day time period. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2*** and details of the Notification of Exceedance can be referred in ***Appendix 6.2***.

5.2 Real Time Noise Monitoring Results

5.2.1. Maintenance was conducted at station RTN2 on 22 September 2011 during 1200 – 1300 hours, no monitoring was conducted during the period.

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

Contract no. HY/2009/17 –Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works under FEP-03/364/2009 and Contract no. HY/2009/19 – Central –

Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

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

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

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

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

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

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

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

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

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

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

5.3 Air Monitoring Results

5.3.1 The monitoring station was temporary suspension until obtainment of a representative long-term air monitoring station on 18 September 2011.

5.3.2 Due to lack of electricity supply at station MA1w, the 24 hr-TSP monitoring were rescheduled to conduct on 23 September 2011.

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

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

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

Station	Description
CMA2a	Causeway Bay Community Centre

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

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

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

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

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

5.3.4. Due to lack of power supply, the 24-hr TSP at MA1w was re-scheduled from 22/9/2011 to 23/9/2011

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

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

5.3.6. The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011. Air quality monitoring was commenced on 25 August 2011. The proposed division of air monitoring stations are summarized in ***Table 5.10*** below.

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

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza

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

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

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

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

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

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

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

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

Station	Description
CMA3a	CWB PRE Site Office

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

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

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

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

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

5.3.12. Since the land located the Oil Street Community Liaison Centre will be handed-over to Food and Environmental Hygiene Department (FEHD) for the construction of temporary FEHD depot by the end of September 2011, the air monitoring station – CMA1b was then removed on 18 September 2011 and is not available for the air quality monitoring in the existing location at Oil Street Community Liaison Centre. Owing to the rejection or no response from the nearby air sensitive receivers in allowing the implementation of impact air quality monitoring, CMA1b was proposed to be temporary suspension until obtainment of a representative long-term air monitoring station.

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

5.4 Waste Monitoring Results

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

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

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

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

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

5.4.2. Construction works were completed and a duly signed report on Completion of Works was issued by the Engineer dated on 1 March 2011. In addition, acknowledge of FEP surrender was under preparation by the Contractor. No inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.15.***

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

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

Contract nos. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass

at Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009

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

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

Waste Type*	Quantity this month, m^3	Cumulative-to-Date, m^3	Disposal / Dumping Grounds
Inert C&D materials disposed	2259.53	2466.2	TKO137
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	31.78	67.7	SENT Landfill
Non-inert C&D materials recycled	459	459	N/A
Chemical waste disposed	1000	1000	Kwun Kee (Chemical Waste Collector)

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

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

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

Waste Type*	Quantity this month, m^3	Cumulative-to-Date, m^3	Disposal / Dumping Grounds
Inert C&D materials disposed	12,712	41, 971	TM 38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	16	16	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	1,104	N/A

Contractor clarified that no Inert and Non-inert C&D materials disposed in June 2011

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

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

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

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

Waste Type*	Quantity this month, m^3	Cumulative-to-Date, m^3	Disposal / Dumping Grounds
Inert C&D materials disposed	630.5	4593.0	T.K.O. 137
Inert C&D materials recycled	NIL	58.5	N/A
Non-inert C&D materials disposed	18.1	170.1	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

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

5.4.6. Inert & 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/2009/15

Waste Type*	Quantity this month, m^3	Cumulative-to-Date, m^3	Disposal / Dumping Grounds
Inert C&D materials disposed	5.4	1,957.4	Tuen Mun Area 38
Inert C&D materials recycled	275	304	N/A
Non-inert C&D materials disposed	12.7	50.8	SENT Landfill
Non-inert C&D materials recycled	NIL	61.3	N/A
Chemical waste disposed	2,000	2,000	N/A

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

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

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

Waste Type*	Quantity this month, m^3	Cumulative-to-Date, m^3	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	0.998	2.803	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A

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

Compliance Audit

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

6.1 Noise Monitoring

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

6.1.1. No exceednace was recorded in the reporting month.

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

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

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

6.1.3. No action level and one project related limit level exceedance was recorded on 20 September 2011 in the reporting month. Investigation found that excavation works were conducted by hydraulic extractor during monitoring.

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

6.1.4. No exceednace was recorded in the reporting month.

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

6.1.5. No action level and three limit level exceedance were recorded at M1a – Harbour Road Sports Centre on 7, 15 and 20 September 2011 during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring and not related to the Project.

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

6.1.6. No exceednace 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

6.1.1 No exceednace was recorded in the reporting month.

6.2 Real Time Noise Monitoring

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

6.2.1 No exceednace was recorded in the reporting month.

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

6.2.2 No exceednace was recorded in the reporting month.

6.3 Air Monitoring

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

6.3.1. No exceedance was recorded in the reporting month.

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

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

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

6.3.3. No exceednace was recorded in the reporting month.

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

6.3.4. No exceednace 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

6.3.5. No exceednace was recorded in the reporting month.

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

6.3.6. No exceednace was recorded in the reporting month.

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

6.3.1 No exceednace was recorded in the reporting month.

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

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

6.4.2. There was exceedance of noise level recorded during day time on 20 September 2011 at M7e that was considered in relation to the sheeting piling during monitoring.

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

6.5.1 According to the Event and Action Plan stated in Appendix 6.1, repeated measurement for noise monitoring station (M7e) would be conducted immediately once Limit Level exceedance recorded in relation to Contract no. HY/2009/18, site investigations would be arranged accordingly to observe and record the sources of the exceedance(s). Excavation by hydraulic extractor was observed through out the period of noise monitoring. Moreover, refurbishment works were observed on the upper level which is behind the monitoring station at IFC during the first and repeated monitoring. Excavation works was suspended from 20 September 2011 and noise barrier for the works were recommended to the contractor to implement. An additional monitoring was conducted on 20 September 2011 to investigate the effectiveness

of the noise barrier. Excavation by hydraulic extractor operated with noise barrier erected was observed during noise monitoring. No further exceedance was recorded during the monitoring.

6.5.2 No further exceedance was recorded in the subsequent noise monitoring during non-restricted hours. Nevertheless, the effectiveness of remedial actions implemented by the Contractor will be continuously reviewed

7 Cumulative Construction Impact due to the Concurrent Projects

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

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

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

7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II were the filling works at NPR2E and HKCEC1, seawall block construction at TCBR1W, maintenance dredging of navigation channel and mooring area, HKCEC3w and marine bored piling at MTR Tunnel Crossing. Advanced piling works at FEHD Whitfield Depot, Central Interchange, cross-harbour water mains, tunnel works at WCR1 and marine pre-drilling in the reporting month. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activity were advance piling works at FEHD Whitfield Depot, sheet piling and pre-drilling works at Central, marine pre-drilling at North Point in the reporting month and tunnel works at Wan Chai East.

advance piling works at FEHD Whitfield Depot, sheet piling and pre-drilling works at Central, marine pre-drilling at North Point in the reporting month and tunnel works at Wan Chai East.

7.0.4. The major environmental impacts generated from advanced piling works at FEHD Whitfield Depot were undertaken and sheet piling, pre-drilling and sheet piling works at Central and tunnel works at Wan Chai East in the reporting month. No significant air impact was anticipated in the reporting month. No significant air impact was anticipated in the reporting month. Notwithstanding, a project-related exceedance regarding construction noise was recorded during non-restricted hours referred to Contract no. HY/2009/18 in the reporting month. In general, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II, and Central Reclamation Phase III was mainly insignificant.

8 Environmental Site Audit

8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/15, HY/2009/17, HY/2009/18, HY/2009/19, HK/2009/01 and HK/2009/02. No non-conformance was identified during the site audits.

8.0.2. Five 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
110830_01	30-Aug-11	Drain hole of drip tray shall be plug and the stagnant water inside it shall be cleared.	Plugging the drain hole of the drip tray and clear the stagnant water inside it	Completion as observed on 6 Sep 2011
110830_02	30-Aug-11	Water spraying shall be conducted for dust suppression.	Conduct water spraying	Completion as observed on 6 Sep 2011
110830_03	30-Aug-11	The contractor was reminded to instruct the concrete trucks' drivers to use wheel washing facilities at EXTCPWA.	Instruct the concrete trucks' drivers to use wheel washing facilities	Completion as observed on 6 Sep 2011
110906_01	6-Sep-11	Gaps were found between seawall blocks (SE and NE corner of TS1). The contractor was reminded to fill them up in order to prevent any overflow.	Fill the gaps up in order to prevent any overflow	Completion as observed on 15-Sep-11
110906_02	6-Sep-11	Drip tray and chemical label shall be provided for oil drum.	Provide drip tray and chemical label for oil drum	Completion as observed on 15-Sep-11
110915_01	15-Sep-11	Oil leakage was observed from the broken oil drums. The contractor should provide drip tray for oil drum storage, and disposed of the oil stains as chemical waste. (abutment A)	Provide drip tray for oil drum and treated the contaminated soil surface as chemical waste	Completion as observed on 27-Sep-11
110915_02	15-Sep-11	Silty water was observed discharged into the sea after treated by waste water treatment plant. The contractor was reminded to review the efficiency of the waste water treatment plant. (TS1)	Review the efficiency of the waste water treatment plant	Completion as observed on 20-Sep-11
110920_01	20-Sep-11	Some Gaps between seawall blocks were found not filled at TS1.	Fill the gaps up in order to prevent any overflow	Completion as observed on 27-Sep-11
110920_02	20-Sep-11	Waste water leakage from shoes washing facility was found from the drainage at TS1. The contractor should improve the drainage system to collect and treat the waste water	Improve the drainage system to collect and treat the waste water	Completion as observed on 27-Sep-11
110920_03	20-Sep-11	Relocation of the oil drums	Provide drip tray for	Completion as

Item	Date	Observations	Action taken by Contractor	Outcome
		under abutment A was observed and without drip tray. The area was contaminated by the leakage oil.	oil drum and treated the contaminated soil surface as chemical waste	observed on 27-Sep-11
110920_04	20-Sep-11	Stockpile at TS4 near the seafront should be covered properly. Provide tarpaulin or clean up the stockpile near the seafront	Cover the stockpile and clear it near the sea front	Completion as observed on 27-Sep-11
110927_01	27-Sep-11	Wastewater was found discharged into the u-channel near POC. The Contractor was reminded to treat the water prior to discharge properly.	Treated the water prior to discharge properly	Completion as observed on 4-Oct-11
110927_02	27-Sep-11	Wastewater was found discharged into the u-channel near POC. The Contractor was reminded to treat the water prior to discharge properly.	Treated the water prior to discharge properly	Completion as observed on 4-Oct-11
110927_03	27-Sep-11	The contractor was reminded to enclose the dredging point by silt curtain (temporary monitoring area)	Enclose the dredging point by silt curtain	Completion as observed on 4-Oct-11

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

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

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

Item	Date	Observations	Action taken by Contractor	Outcome
1-Sep-11	110901_01	Top cover should be provided for grouting area.	Provide top cover for grouting area	Completion as observed on 8 Sep 2011
1-Sep-11	110901_02	Oil leakage was observed from the drip tray and hydraulic extractor. The contactor was reminded to maintain the facilities well.	Repair the hydraulic extractor	Completion as observed on 8 Sep 2011
8-Sep-11	110908_01	The contractor was reminded to store the chemical on the drip tray.	Store the chemical on the drip tray	Completion as observed on 15 Sep 2011
8-Sep-11	110908_02	The contractor was reminded to cover the cement well by tarpaulin.	Cover the cement well by tarpaulin.	Completion as observed on 15 Sep 2011

Item	Date	Observations	Action taken by Contractor	Outcome
8-Sep-11	110908_03	The contractor was reminded that cover the idle stockpile	cover the idle stockpile	Completion as observed on 15 Sep 2011
15-Sep-11	110915_01	Drip tray near the low level need to be protected or relocated to high level location to avoid flooding into the drip tray causing spillage.	Protected the Drip tray near the low level	Completion as observed on 22 Sep 2011
22-Sep-11	110922_01	The contractor was reminded to maintain the enclosure of the grouting plant, as gap was found at it.	Maintain the enclosure of the grouting plant	Completion as observed on 29 Sep 2011

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

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

Item	Date	Observations	Action taken by Contractor	Outcome
110914_01	14-Sep-11	Proper label should be provided to the oil drums near generator G-09.(At positron 7)	provided proper label to the oil drums near generator G-09	Completion as observed on 21-Aug-11
110921_01	21-Sep-11	The contractor was reminded to improve the water quality of the discharge; as the existing treatment facilities were considered not enough.	Improve the water quality of the discharge	Completion as observed on 28-Aug-11

8.0.6. As construction works for Contract no.04/HY/2006 were completed, no site inspection was carried out since February 2011.

8.0.7. Four site inspections for Contract no. HK/2009/01 was carried out during this reporting period as the commencement date of the project was on 25 August 2011.

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

Item	Date	Observations	Action taken by Contractor	Outcome
110831_01	31-Aug-11	Floating silt curtain at HKCEC water channel and east bridge shall be maintained.	Weighting down the silt curtain	Completion as observed on 6-Sep-11
110831_02	31-Aug-11	3-sides with top cover enclosure for the grouting work shall be enhanced the effectiveness to avoid dust emission.	Providing the proper shelter when grouting mixing	Completion as observed on 6-Sep-11
110831_03	31-Aug-11	FEP and relevant CNP shall be displayed at site access of Pump House P5.	Adhering permit s and licences at the site access	Completion as observed on 6-Sep-11
110831_04	31-Aug-11	Material shall be relocated away from the trees at P5.	Relocation of the material away from the trees	Completion as observed on 6-Sep-11
110907_01	6-Sep-11	Contractor was reminded to close the door of the plants to avoid noise emission.	Closure of the door of plants	Completion as observed on 14-Sep-11
110914_01	14-Sep-11	The discharge pipes arrangement at TST shall be improved to	Improvement of the drainage system at	Completion as observed on 22-

Item	Date	Observations	Action taken by Contractor	Outcome
		proceed the wastewater treatment	TST	Sep-11
110922_01	22-Sep-11	The construction material was found located closed to the trees at TST. Contractor was reminded to relocate the materials away from the trees.	Relocation of the material away from the trees	Completion as observed on 22-Sep-11
110922_02	22-Sep-11	The drain hole of the drip tray at HKCEC1 shall be plugged.	Plugging the drain hole of the drip tray and remove the stagnant water inside it	Completion as observed on 28-Sep-11

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

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

Item	Date	Observations	Action taken by Contractor	Outcome
110901_01	1-Sep-11	Protective screen at mud-barge shall be regular maintained.	Providing the proper protective screen at the mud barge	Completion as observed on 8-Sep-11
110908_01	8-Sep-11	Rock-fill material along the walkway of derrick barge (B22338Y) shall be removed.	Regular removal of the fill material at the walkway	Completion as observed on 15-Sep-11
110908_02	8-Sep-11	Sand was observed located next to the gully at Wan Shing Street. Protective measure to the drain shall be provided.	Removal of the sand near the gully. Sand bags were provided around the gully.	Completion as observed on 15-Sep-11
110908_03	8-Sep-11	Idling stockpile at Wan Shing Street and Finger Pier shall be covered or other measures to avoid dust emission.	Covered the stockpile by tarpaulin sheet	Completion as observed on 15-Sep-11
110915_01	15-Sep-11	Oil leakage was observed from the crawler drill rig at receiving pit.	Maintenance of the excavator and clearance of the oil stain.	Completion as observed on 21-Sep-11
110921_01	21-Sep-11	The silt curtain shall be enhanced to have sufficient depth for the rock filling works.	Providing proper silt curtain when the rock filling work was undertaken.	Completion as observed on 30-Sep-11
110921_01	21-Sep-11	The sedimentation tank shall be enhanced for the wastewater treatment in Wan Shing Street.	Additional sedimentation tanks were provided at Wan Ching Street.	Completion as observed on 30-Sep-11
110921_01	21-Sep-11	Chemical container at Wan Shing Street shall be properly stored.	Drip tray was provided for the chemical container.	Completion as observed on 30-Sep-11

COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.0.1. There was one environmental complaint received on 26 August 2011 for the investigation and follow-up action in the reporting month.

9.0.2. A water impact complaint was received by ET on 29 August 2011. It was complained by Mr. Au from Cayley Property Management Limited (CPML) that large amount of rubbishes were found at the harbour front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011 after the contractors set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed. An ad-hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractors of HY/200911 and HY/2009/19, ET and IEC on 29 August 2011.

9.0.3. During on-site inspection, floating refuses were observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation. All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed 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. 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. The contractors were reminded to strengthen the communication with City Garden and no further complaint from complainant was received after proposed the mitigation measure.

9.0.4. To follow up the ICC complaint no. 1 – 306740207 regarding the discharged muddy water from work site to the seafront near Oil Street during heavy rain in last month, it was confirmed with RE that 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.

9.0.5. 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.

9.0.6. 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.

9.0.7. The details of cumulative complaint log and updated summary of complaints are presented in ***Appendix 9.1***

9.0.8. 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
September 2011	1
Sep 10 to August 11	9
Total	10

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10. CONCLUSION

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

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

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

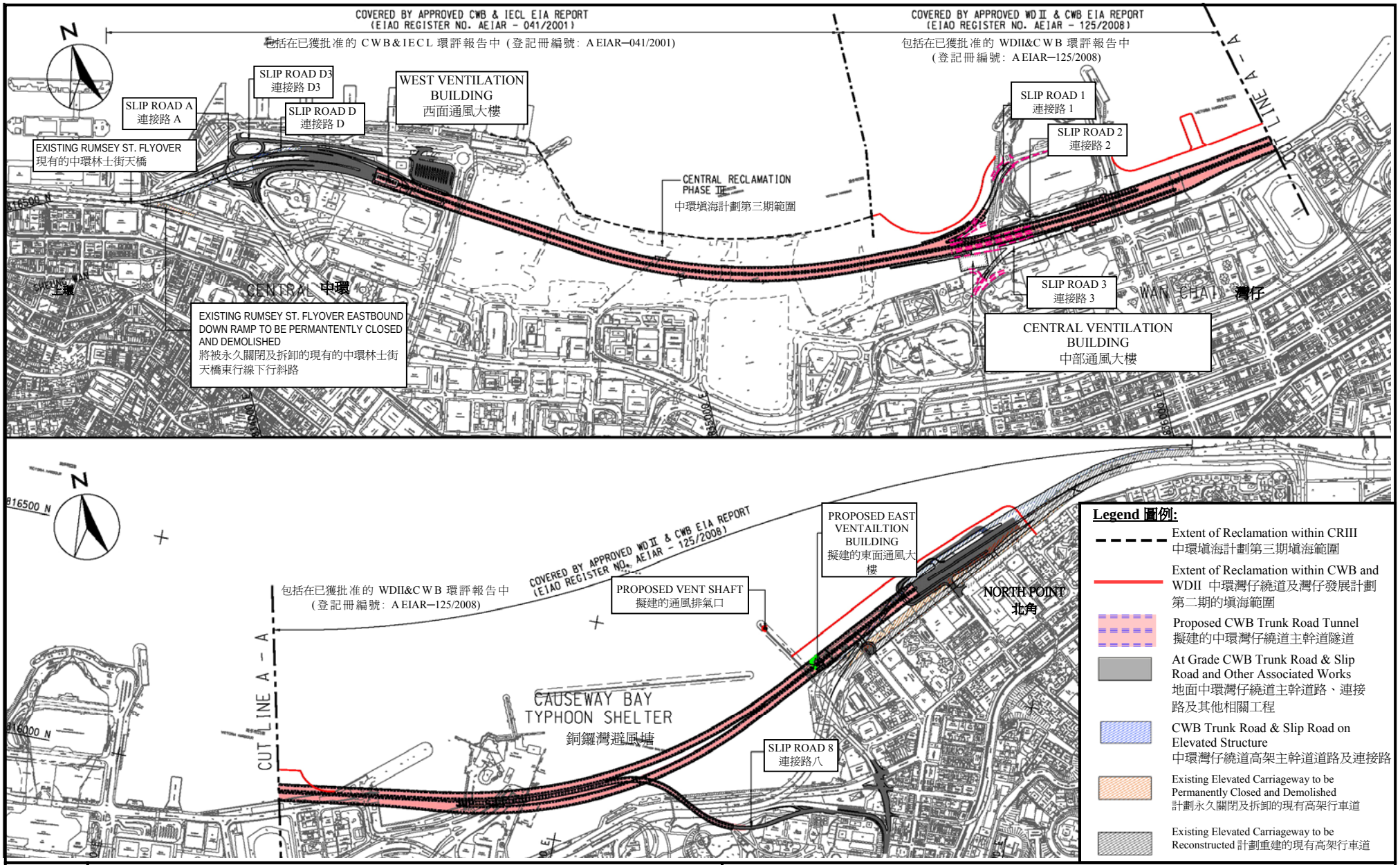
Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	• Diaphragm wall construction at TS1 and TPCWAE • Construction of dewatering well at Hung Hing Road and POC	• Watering any dust generating activities • Checking all drip trays frequently and clear any stagnant water and mud inside it.
HY/2009/17	• ELS works for basement construction for pile cap construction.	• Noise barrier shall be implemented; and • Watering any dust generating activities
HY/2009/18	• Instrumentation Manholes and Intake Culvert Survey • Excavation of trial pit • Tree transplanting • Installation of coupler in CR3 • Drainage diversion works • Site investigation and pre-drilling works • Sheet piling and grout curtain • Guide wall construction • Diaphragm wall construction • Slip road construction between Man Kwong Street and Finance Street • Pedestrian subway across slip road	• Noise barrier shall be implemented; and • Noise level shall be controlled by reducing piling rate and no. of plants working in parallel. • Dust control during dust generating works

HY2009/19	• Marine Pre-drilling • Remove existing dolphin • Preparation works and removal of existing marine piles • Set up of Contractor's site office at Oil Street • Road works at Watson Road • Fabrication of bored piling platform • Bored piling • Ground contamination assessment • Pre-drilling works for bored pile and Diaphragm wall • D-wall Pretreatment • Construction of Guide Wall	• Noise level shall be controlled by reducing drilling rate. • Noise barrier shall be deployed for dolphin pier removal.
HK2009/01	• Pre-drilling works for both CWB and SCL Protection Works • Diaphragm wall construction works for CWB and SCL Protection Works	• Noise level shall be controlled by reducing pilling rate. • Well maintain the enclosures for grouting and bentonite mixing plants.
HK/2009/02	• Tunnel bored pile and diaphragm wall construction works.	• Noise level shall be controlled by reducing pilling rate. • Well maintain the enclosures for grouting and bentonite mixing plants.

10.0.3. Construction works were completed and a duly signed report on Completion of Works was issued by the Engineer dated on 1 March 2011. In addition, acknowledge of FEP surrender was under preparation by the Contractor

Figure 2.1

Project Layout



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

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

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

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

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

Legend:

REV.	DATE	DESCRIPTION	CHK.BY	AUTH.BY

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LIN

PWP ITEM NO. 工務計劃項目編號 579 TH K

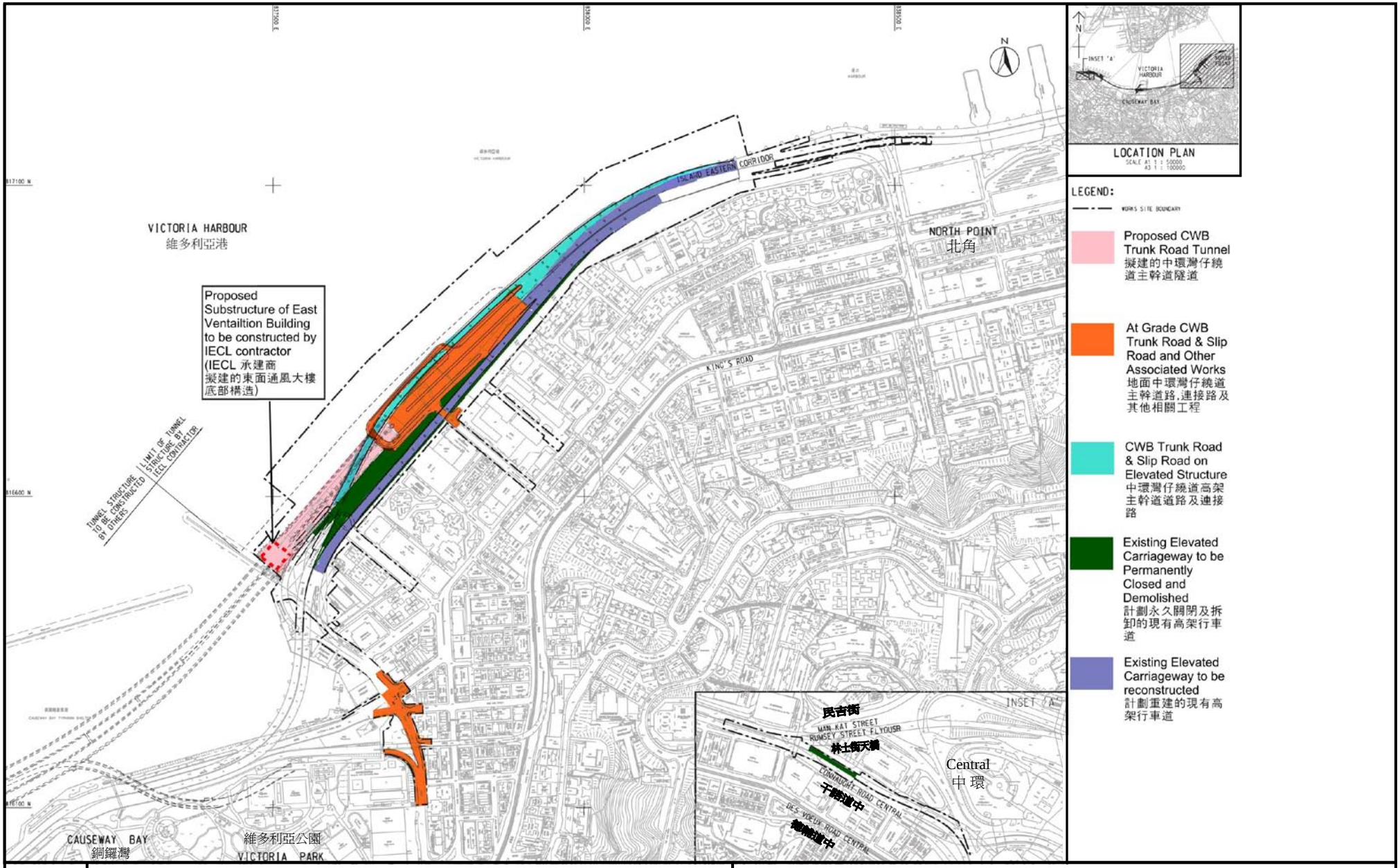
Project:
CENTRAL – WAN CHAI BYPASS –FEHD WHITFIELD DEPOT RE-PROVISIONING WORKS

AECOM

Drawing Title
PILING PLAN FOR MODIFIED ICE BRIDGE

Contractor
LAM WOO & COMPANY LIMITED

DRAWING NO. 0020
SURVEY DATE 12-06-2010
DRAWN BY KENG
CHECKED BY
SCALE 1:1000 *SHEET* 1



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

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

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

Figure 2.2

Project Organization Chart

Project Organization Chart

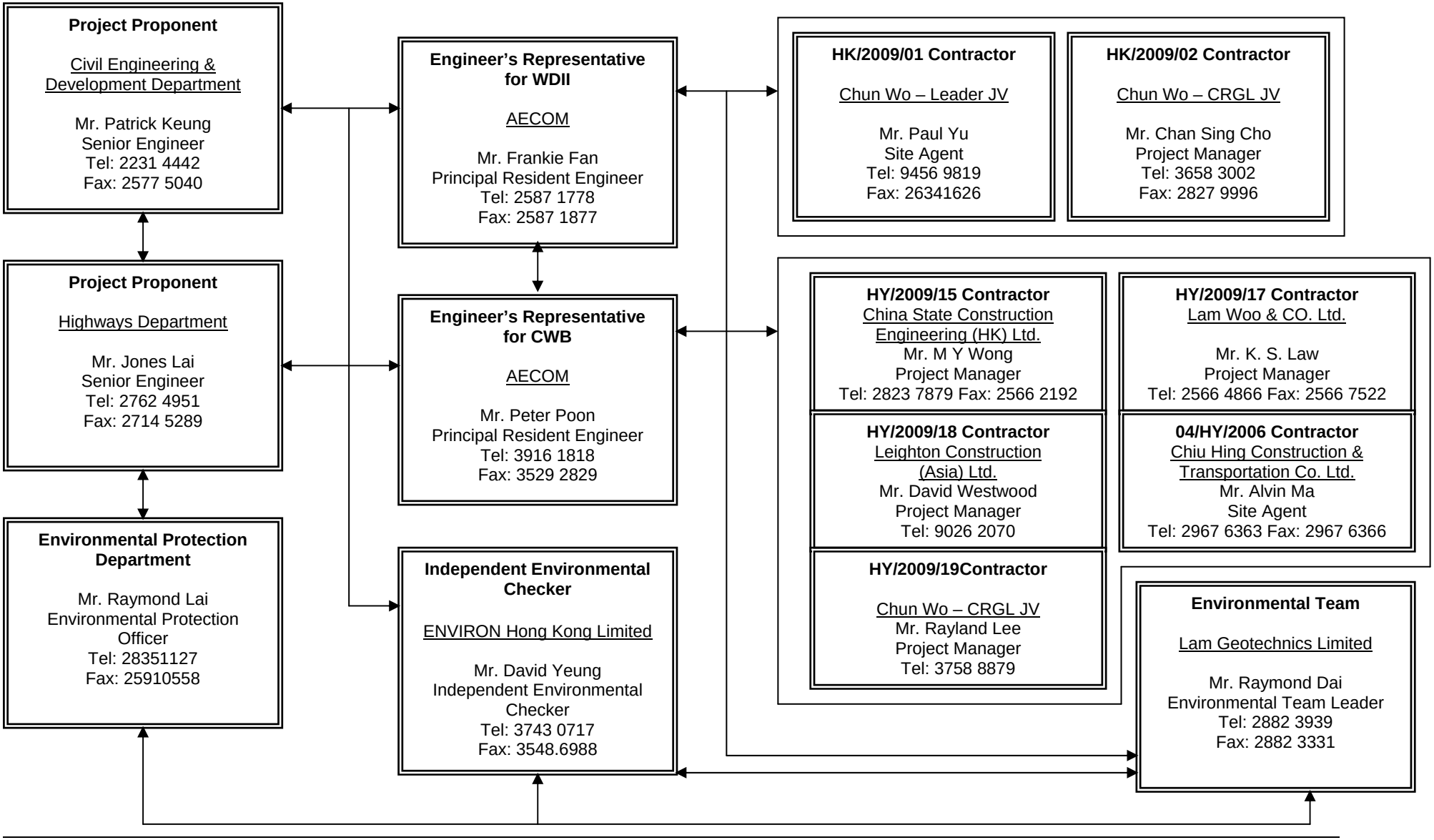
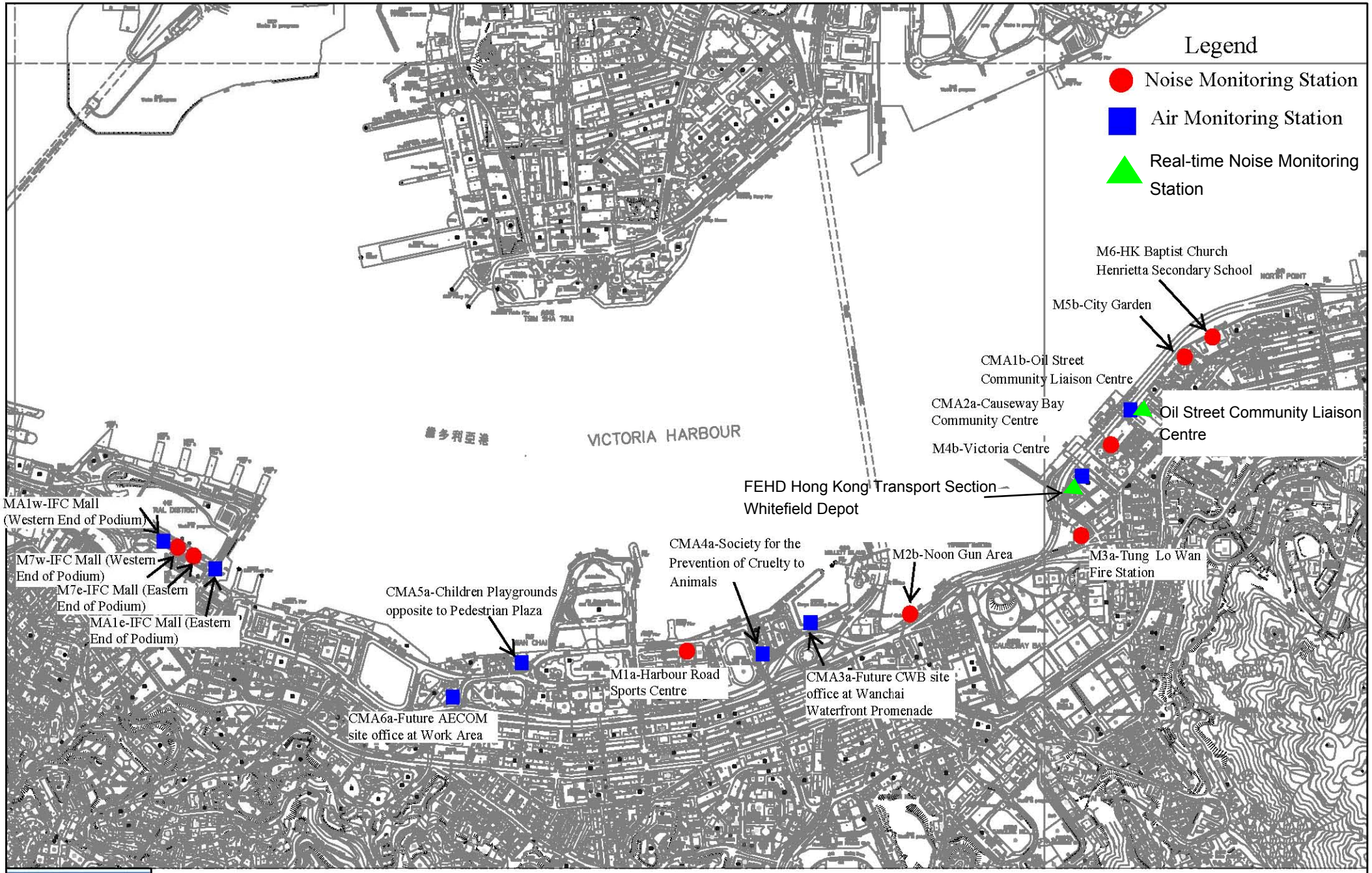


Figure 4.1

Locations of Monitoring Stations



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Location plan of Environmental Monitoring Stations

Appendix 3.1

Environmental Mitigation Implementation Schedule

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

Table A.1 Implementation Schedule for Air Quality Control

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

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

Table A.2 Implementation Schedule for Noise Control

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

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

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

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

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

Table A.4 Implementation Schedule for Waste Management

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

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

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

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

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

Table A.5 Implementation Schedule for Land Contamination

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

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

Table A.7 Implementation Schedule for Landscape and Visual

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

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

Appendix 4.1

Action and Limit Level

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 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 $\mu g/m^3$		24-hour TSP Level in $\mu g/m^3$	
	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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. **12888**

Customer : Lam Geotechnics Limited

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

Order No. : Q10982 **Date of receipt :** 25-May-11

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-14 **Serial No. :** 10303242

Test Conditions

Date of Test : 26-May-11 **Supply Voltage :** --

Ambient Temperature : (23 ± 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 or IEC 804 Type 1 specification after adjustment.

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Alan Chu

Date: 26-May-11

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

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香港校正有限公司

Calibration Certificate

Certificate No. 12888

Results :

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.2 dB

2. **Level Stability** : 0.1 dB
IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

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Calibration Certificate

3. Linearity

3.1 Level Linearity

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

Uncertainty : ± 0.1 dB

3.2 Differential level linearity

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

Uncertainty : ± 0. 1 dB

4. Frequency Weighting

A weighting

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

Uncertainty : ± 0.1 dB

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Calibration Certificate

5. Time Averaging

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

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 004 hPa.
4. *Out of Specification

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

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香港校正有限公司

Calibration Certificate

Certificate No. **12889**

Customer : Lam Geotechnics Limited

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

Order No. : Q10982 **Date of receipt :** 25-May-11

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73 **Serial No. :** 10465798

Test Conditions

Date of Test : 26-May-11 **Supply Voltage :** --

Ambient Temperature : (23 ± 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 after adjustment.

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Alan Chu

Date: 26-May-11

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

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Calibration Certificate

Certificate No. 12889

Results :

1. Level Accuracy (at 1 kHz)

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

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

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

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.5 %
Mfr's Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. The above measured values are the mean of 3 measurement.
4. Atmospheric Pressure : 1 004 hPa
5. *Out of Specification

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

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Calibration Certificate

Certificate No. **06680**

Customer : Lam Geotechnics Limited

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

Order No. : Q02553 **Date of receipt :** 18-Nov-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ACO

Model : Type 6224 **Serial No.** : 050112

Test Conditions

Date of Test : 19-Nov-10 **Supply Voltage** : --

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong **Approved by :** Dorothy Cheuk

Date: 23-Nov-10

This Certificate is issued by:
Hong Kong Calibration Ltd.
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--

Calibration Certificate

Results :

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

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

Uncertainty : ± 0.1 dB

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Calibration Certificate

3.2 Differential level linearity

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

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

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

Uncertainty : ± 0.1 dB

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Calibration Certificate

4. Time Averaging

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

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 009 hPa.

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

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Calibration Certificate

Certificate No. **06681**

Customer : Lam Geotechnics Limited

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

Order No. : Q02553 **Date of receipt :** 18-Nov-10

Item Tested

Description : Sound Level Calibrator (EL469)

Manufacturer : ACO

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

Test Conditions

Date of Test : 19-Nov-10 **Supply Voltage :** --

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

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification.

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 23-Nov-10

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

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Calibration Certificate

Certificate No. 06681

Results :

1. Level

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

The above measured values are the mean of 3 measurements.
Uncertainty : ± 0.1 dB

2. Frequency

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

Uncertainty : ± 3.6 x 10^{-6}

3. Level Stability : 0.0 dB
IEC 942 Class 1 Spec. : ± 0.1 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.2 %
IEC 942 Class 1 Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 009 hPa.

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

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

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

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

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9817	0.7160	1.4042		0.9957	0.7263	0.8919
0.9775	1.0046	1.9859		0.9915	1.0190	1.2613
0.9754	1.1225	2.2203		0.9894	1.1385	1.4101
0.9743	1.1739	2.3286		0.9882	1.1907	1.4790
0.9690	1.4126	2.8084		0.9829	1.4328	1.7837

Qstd slope (m) = 2.01593
intercept (b) = -0.03978
coefficient (r) = 0.99999

Qa slope (m) = 1.26234
intercept (b) = -0.02526
coefficient (r) = 0.99999

y axis = SQRT[H2O(Pa/760)(298/Ta)] y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. **13784**

Customer : Lam Geotechnics Limited

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

Order No. : Q11569 **Date of receipt :** 6-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250 **Serial No. :** 2722311

Test Conditions

Date of Test : 6-Jul-11 **Supply Voltage :** --

Ambient Temperature : (23 ± 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:

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

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 6-Jul-11

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

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Calibration Certificate

Certificate No. **13784**

Results :

1. SPL

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

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB
IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

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

Uncertainty : ± 0.1 dB

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Calibration Certificate

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.8	- 39.4 dB, ± 1.5 dB
63 Hz	-26.5	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.1	+ 1.2 dB, ± 1 dB
4 kHz	+1.1	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.9	- 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	--	--
1/10	40.0	40.1	± 0.5 dB
$1/10^2$	40.0	40.0	
$1/10^3$	40.0	40.0	± 1.0 dB
$1/10^4$	40.0	40.0	

Uncertainty : ± 0.1 dB

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Calibration Certificate

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

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

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric pressure : 996 hPa.

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

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Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. **13813**

Customer : Lam Geotechnics Limited

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

Order No. : Q11569 **Date of receipt :** 7-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250 **Serial No. :** 2722310

Test Conditions

Date of Test : 8-Jul-11 **Supply Voltage :** --

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 8-Jul-11

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

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Calibration Certificate

Results :

1. SPL

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

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.2 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

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

Uncertainty : ± 0.1 dB

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Calibration Certificate

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 1.5 dB
63 Hz	-26.6	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.4	+ 1.2 dB, ± 1 dB
4 kHz	+1.2	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.8	- 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	--	--
1/10	40.0	40.0	± 0.5 dB
$1/10^2$	40.0	39.9	
$1/10^3$	40.0	40.0	± 1.0 dB
$1/10^4$	40.0	40.0	

Uncertainty : ± 0.1 dB

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Calibration Certificate

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

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

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric pressure : 1 000 hPa.

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

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Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	MA1e	**Calbration Date**	:	23-Aug-11
Equipment no.	:	EL080	**Calbration Due Date**	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7435	58	57.2371
2	4.9	4.9	9.8	1.5522	50	49.3424
3	3.8	3.8	7.6	1.3693	41	40.4607
4	2.4	2.4	4.8	1.0922	29	28.6186
5	1.5	1.5	3.0	0.8676	17	16.7764

By Linear Regression of Y on X

Slope, m	=	45.9809	Intercept, b	=	-22.4359
Correlation Coefficient*	=	0.9992			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	23-Aug-11	**Date**	:	23-Aug-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	MA1w	**Calbration Date**	:	23-Aug-11
Equipment no.	:	EL080	**Calbration Due Date**	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
	(up)	(down)	(difference)			
1	5.8	5.8	11.6	1.6870	51	50.3292
2	4.7	4.7	9.4	1.5206	45	44.4081
3	3.6	3.6	7.2	1.3333	39	38.4870
4	2.4	2.4	4.8	1.0922	29	28.6186
5	1.5	1.5	3.0	0.8676	18	17.7632

By Linear Regression of Y on X

Slope, m	=	39.3380	Intercept, b	=	-15.2235
Correlation Coefficient*	=	0.9967			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	23-Aug-11	**Date**	:	23-Aug-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	23-Aug-11
Equipment no.	:	EL452	**Calbration Due Date**	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
	(up)	(down)	(difference)			
1	6.4	6.4	12.8	1.7711	61	60.1977
2	5.2	5.2	10.4	1.5984	54	53.2897
3	4.0	4.0	8.0	1.4043	46	45.3950
4	2.5	2.5	5.0	1.1143	35	34.5396
5	1.4	1.4	2.8	0.8389	21	20.7238

By Linear Regression of Y on X

Slope, m	=	41.7132	Intercept, b	=	-13.2921
Correlation Coefficient*	=	0.9985			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	23-Aug-11	**Date**	:	23-Aug-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	23-Aug-11
Equipment no.	:	EL449	**Calbration Due Date**	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
	(up)	(down)	(difference)			
1	6.3	6.3	12.6	1.7574	52	51.3161
2	5.0	5.0	10.0	1.5677	45	44.4081
3	3.8	3.8	7.6	1.3693	37	36.5133
4	2.4	2.4	4.8	1.0922	27	26.6449
5	1.5	1.5	3.0	0.8676	14	13.8159

By Linear Regression of Y on X

Slope, m	=	41.1960	Intercept, b	=	-20.2858
Correlation Coefficient*	=	0.9959			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	23-Aug-11	**Date**	:	23-Aug-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	23-Aug-11
Equipment no.	:	EL888	**Calbration Due Date**	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
	(up)	(down)	(difference)			
1	5.4	5.4	10.8	1.6285	46	45.3950
2	4.3	4.3	8.6	1.4553	41	40.4607
3	3.5	3.5	7.0	1.3149	35	34.5396
4	2.3	2.3	4.6	1.0696	26	25.6580
5	1.5	1.5	3.0	0.8676	18	17.7632

By Linear Regression of Y on X

Slope, m	=	36.7801	Intercept, b	=	-13.8439
Correlation Coefficient*	=	0.9988			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	23-Aug-11	**Date**	:	23-Aug-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	23-Aug-11
Equipment no.	:	EL390	**Calbration Due Date**	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
	(up)	(down)	(difference)			
1	5.8	5.8	11.6	1.6870	54	53.2897
2	4.5	4.5	9.0	1.4883	48	47.3687
3	3.5	3.5	7.0	1.3149	41	40.4607
4	2.3	2.3	4.6	1.0696	31	30.5923
5	1.4	1.4	2.8	0.8389	21	20.7238

By Linear Regression of Y on X

Slope, m	=	38.8337	Intercept, b	=	-11.2100
Correlation Coefficient*	=	0.9982			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	23-Aug-11	**Date**	:	23-Aug-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	23-Aug-11
Equipment no.	:	EL380	**Calbration Due Date**	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
	(up)	(down)	(difference)			
1	5.8	5.8	11.6	1.6870	54	53.2897
2	4.6	4.6	9.2	1.5045	49	48.3555
3	3.6	3.6	7.2	1.3333	43	42.4344
4	2.3	2.3	4.6	1.0696	34	33.5528
5	1.5	1.5	3.0	0.8676	27	26.6449

By Linear Regression of Y on X

Slope, m	=	32.8954	Intercept, b	=	-1.6589
Correlation Coefficient*	=	0.9993			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	23-Aug-11	**Date**	:	23-Aug-11

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

Tentative Environmental Monitoring Schedule
September 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Aug	29-Aug	30-Aug 24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2300	31-Aug 1hr TSP x 3	01-Sep	02-Sep	03-Sep
04-Sep	05-Sep 24hr TSP	06-Sep 1hr TSP x 3	07-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	08-Sep	09-Sep	10-Sep 24hr TSP
11-Sep	12-Sep 1hr TSP x 3	**13-Sep**	14-Sep	15-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	16-Sep 24hr TSP	17-Sep 1hr TSP x 3
18-Sep	19-Sep	20-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	21-Sep	22-Sep 24hr TSP	23-Sep 1hr TSP x 3 24hr TSP (MA1w)	24-Sep
25-Sep	26-Sep	27-Sep Noise (Day time) Noise (Restricted hr) 1900-2300	28-Sep	29-Sep	30-Sep	01-Oct

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

Tentative Environmental Monitoring Schedule
October 2011

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

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

Tentative Environmental Monitoring Schedule
November 2011

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

Remarks (Air)

1. Cut-off date is at the 27th of each reporting month
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below

- Contract 04/HY/2006: MA1e and MA1w (major works were compelted, no monitoring was conducted)
- Contract HK/2009/01: CMA5a
- Contract HK/2009/02: CMA4a
- Contract HY/2009/15: CMA3a
- Contract HY/2009/17: CMA2a
- Contract HY/2009/18: MA1e and MA1w
- Contract HY/2009/19: CMA1b and CMA2a '

Remarks (Noise)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Noise Monitoring Stations corresponding to active contracts are sub-divided below:

- Contract HK/2009/01 M1a
- Contract HK/2009/02: M1a
- Contract HY/2009/15: M2b
- Contract HY/2009/17: M4b
- Contract HY/2009/19: M3a, M4b, M5b, M6
- Contract 04/HY/2006: M7e, M7w (major works were compelted, no monitoring was conducted)
- Contract HY/2009/19: M3a, M4b M5b, M6

4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s). &
Restricted hours noise (i.e. outside 07:00-19:00 of normal weekday) will be monitored for 3 nos. Leq(5min) as per the relevant Construction Noise Permit(s) in force

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)					
30/08/11	9:18	Haze	73.6	76.2	69.6	69.2	72	75
07/09/11	10:33	Fine	73.1	76.0	68.8	69.2	71	75
15/09/11	9:55	Fine	73.8	76.6	68.6	69.2	72	75
20/09/11	11:16	Cloudy	74.1	76.5	70.3	69.2	72	75
27/09/11	9:30	Fine	76.3	79.1	71.3	69.2	75	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)					
30/08/11	10:06	Haze	69.4	70.6	67.2	-	69	75
07/09/11	11:18	Fine	69.4	71.8	66.1	-	69	75
15/09/11	10:48	Fine	69.7	71.0	67.3	-	70	75
20/09/11	13:23	Cloudy	70.7	73.0	67.5	-	71	75
27/09/11	10:45	Fine	70.8	72.5	68.5	-	71	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)					
30/08/11	10:50	Haze	68.0	69.5	66.3	-	68	75
07/09/11	13:00	Sunny	67.1	68.8	64.8	-	67	75
15/09/11	13:10	Fine	69.2	71.7	66.8	-	69	75
20/09/11	13:30	Cloudy	68.6	70.3	66.4	-	69	75
27/09/11	11:30	Fine	69.5	70.8	68.0	-	70	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
30/08/11	11:30	Haze	71.8	73.5	66.1	-	72	75
07/09/11	13:41	Sunny	69.3	70.5	67.7	-	69	75
15/09/11	13:58	Fine	75.3	76.0	74.3	-	75	75
20/09/11	14:13	Cloudy	72.2	73.8	68.5	-	72	75
27/09/11	13:00	Fine	72.1	75.0	67.6	-	72	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
30/08/11	13:33	Haze	69.9	71.6	67.5	-	70	75
07/09/11	15:13	Fine	71.2	72.4	68.9	-	71	75
15/09/11	14:08	Fine	70.7	72.3	68.5	-	71	75
20/09/11	15:27	Cloudy	71.6	73.5	68.3	-	72	75
27/09/11	13:53	Fine	70.4	71.5	67.6	-	70	75

Location: M6 - HK baptist Church henrietta Secondary School

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/08/11	15:55	Haze	72.1	73.5	68.7	70.7	67	70
07/09/11	14:31	Fine	72.6	74.1	70.4	70.7	68	70
15/09/11	15:25	Fine	72.6	73.8	70.9	70.7	68	70
20//9/11	15:09	Cloudy	73.2	74.3	71.6	70.7	70	70
27/09/11	14:43	Fine	72.1	73.6	70.0	70.7	67	70

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/08/11	18:00	Haze	69.8	72.1	66.7	-	70	75
07/09/11	9:03	Cloudy	73.7	76.2	70.4	-	74	75
15/09/11	8:00	Fine	74.9	76.8	72.3	-	75	75
20/09/11	8:16	Cloudy	77.5	78.3	75.4	-	78	75
27/09/11	15:40	Fine	74.0	75.6	71.3	-	74	75

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
30/08/11	17:10	Haze	69.3	71.5	64.5	-	69	75
07/09/11	9:41	Fine	68.5	70.7	66.0	-	69	75
15/09/11	8:37	Sunny	68.2	69.8	66.3	-	68	75
20/09/11	9:14	Cloudy	74.8	76.3	71.0	-	75	75
27/09/11	16:22	Fine	67.4	68.9	65.0	-	67	75

Noise Monitoring Result

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

Location: M1a - Harbour Road Sports Center

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
30/08/11	21:02	Fine	69.3	72.4	63.1	70.4	61.1	70	70
	21:07		69.4	72.6	63.3				
	21:12		71.9	73.0	63.4				
07/09/11	20:15	Fine	73.0	74.6	68.9	71.9	61.1	72	70
	20:21		71.0	73.5	67.6				
	20:27		71.4	73.3	68.1				
15/09/11	20:08	Fine	72.2	75.0	67.1	72.1	61.1	72	70
	20:13		72.7	76.2	66.6				
	20:19		71.3	73.8	66.3				
20/09/11	19:15	Cloudy	72.3	75.0	68.6	72.5	61.1	72	70
	19:20		72.8	75.0	68.9				
	19:25		72.5	74.6	68.7				
27/09/11	21:23	Fine	68.2	71.8	62.4	68.8	61.1	68	70
	21:28		69.0	71.6	63.4				
	21:34		69.2	72.4	62.0				

Location: M2b -Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
30/08/11	19:30	Fine	66.7	69.1	64.3	66.9	-	67	70
	19:35		67.1	69.5	65.0				
	19:40		66.8	69.0	64.7				
07/09/11	20:27	Fine	67.3	66.5	65.4	67.0	-	67	70
	20:32		67.0	68.4	65.3				
	20:37		66.8	68.1	65.1				
15/09/11	20:02	Fine	70.4	72.5	66.3	68.7	-	69	70
	20:07		67.4	68.4	66.2				
	20:12		67.7	69.2	65.9				
20/09/11	19:12	Fine	67.6	68.8	65.6	68.3	-	68	70
	19:17		68.6	70.9	66.2				
	19:22		68.6	70.4	66.0				
27/09/11	19:31	Fine	67.4	68.9	64.8	67.3	-	67	70
	19:36		67.0	68.3	65.4				
	19:41		67.5	69.2	65.7				

Noise Monitoring Result

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

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

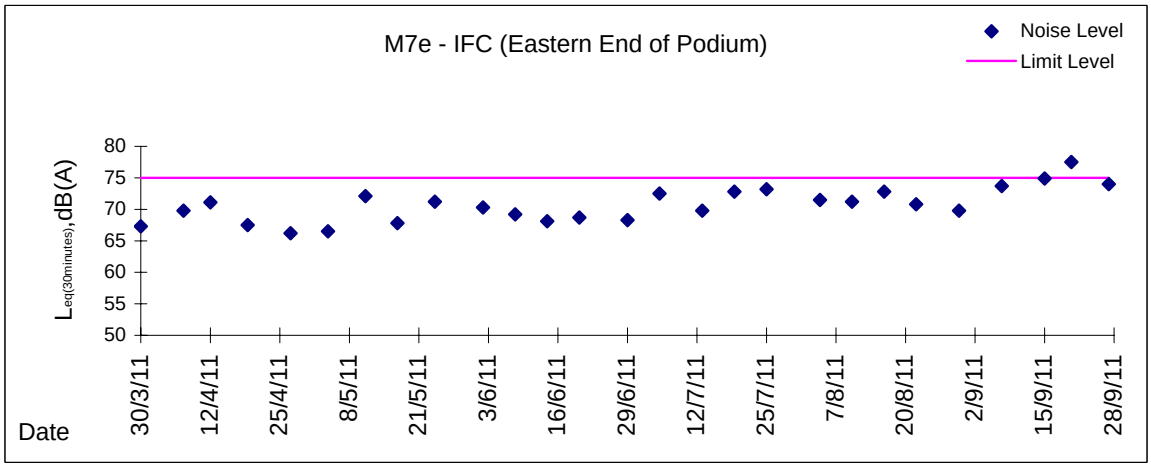
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
30/08/11	19:25	Fine	64.1	65.8	61.4	64.0	-	64	70
	19:30		64.4	66.1	61.9				
	19:35		63.4	64.8	61.2				
07/09/11	19:30	Fine	63.8	65.4	61.0	64.0	-	64	70
	19:36		64.2	67.0	59.9				
	19:42		64.1	66.5	60.4				
15/09/11	19:02	Fine	66.0	68.3	62.8	65.6	-	66	70
	19:08		66.2	68.5	63.5				
	19:14		64.2	66.1	61.5				
20/09/11	21:37	Cloudy	64.7	66.6	61.7	64.6	-	65	70
	21:42		64.0	65.9	60.3				
	21:47		64.9	66.8	61.0				
27/09/11	19:00	Fine	64.0	66.0	60.9	64.1	-	64	70
	19:05		63.4	65.9	60.2				
	19:11		64.7	66.4	60.7				

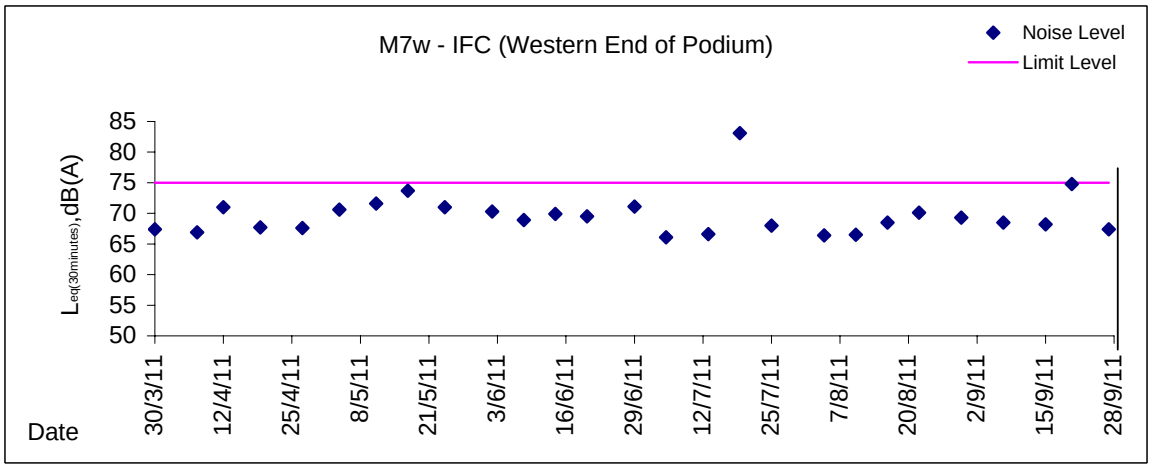
Location: M7w - International Finance Centre (Western End of Podium)

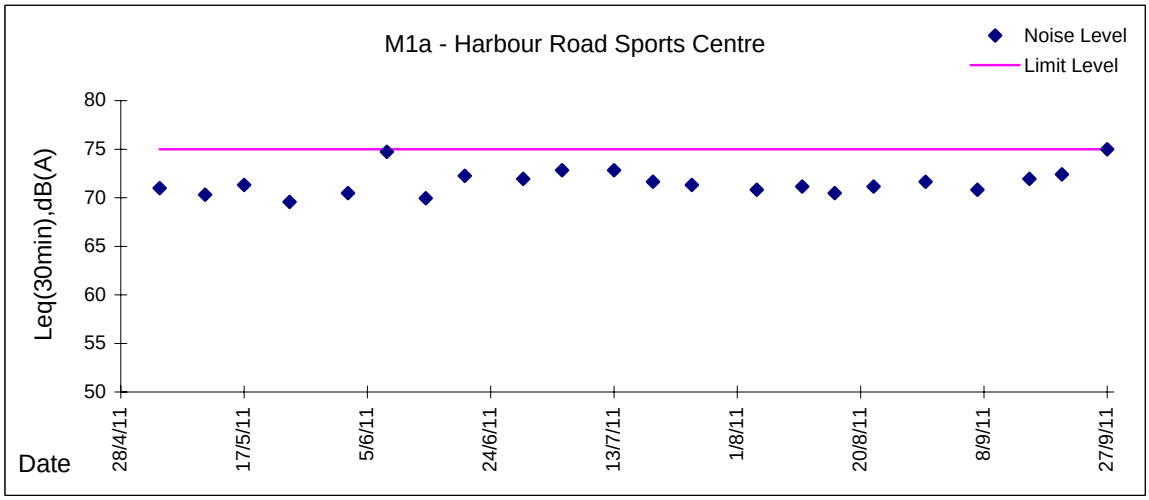
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
30/08/11	19:52	Fine	63.5	65.3	61.5	63.4	-	63	70
	19:57		63.7	65.4	61.8				
	20:02		63.0	64.6	60.8				
07/09/11	19:00	Fine	64.8	66.9	61.5	64.4	-	64	70
	19:06		63.9	64.9	62.1				
	19:12		64.4	65.3	62.9				
15/09/11	19:27	Fine	66.3	68.7	63.0	65.2	-	65	70
	19:33		64.7	66.0	62.0				
	19:39		64.4	66.3	61.7				
20/09/11	21:59	Cloudy	64.3	66.0	61.7	64.1	-	64	70
	22:04		64.0	65.2	62.6				
	22:09		64.1	65.6	62.3				
27/09/11	19:22	Fine	64.3	66.7	61.1	64.7	-	65	70
	19:27		65.2	67.7	60.8				
	19:33		64.5	67.2	60.5				

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

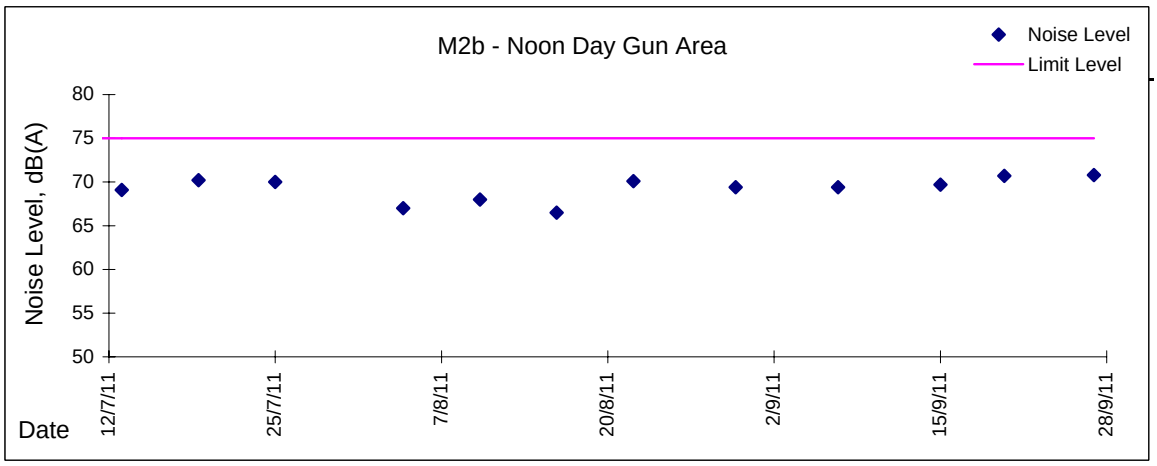


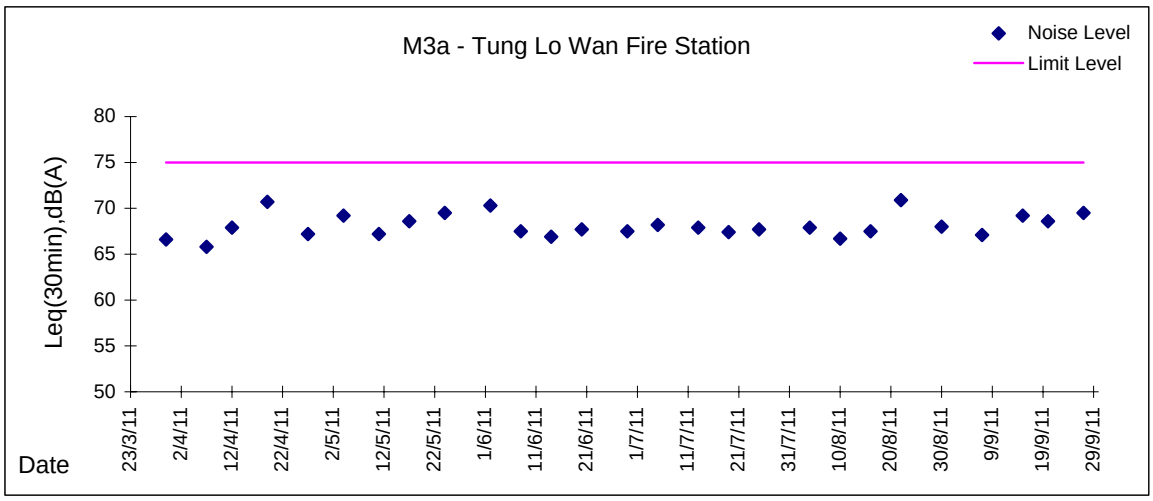


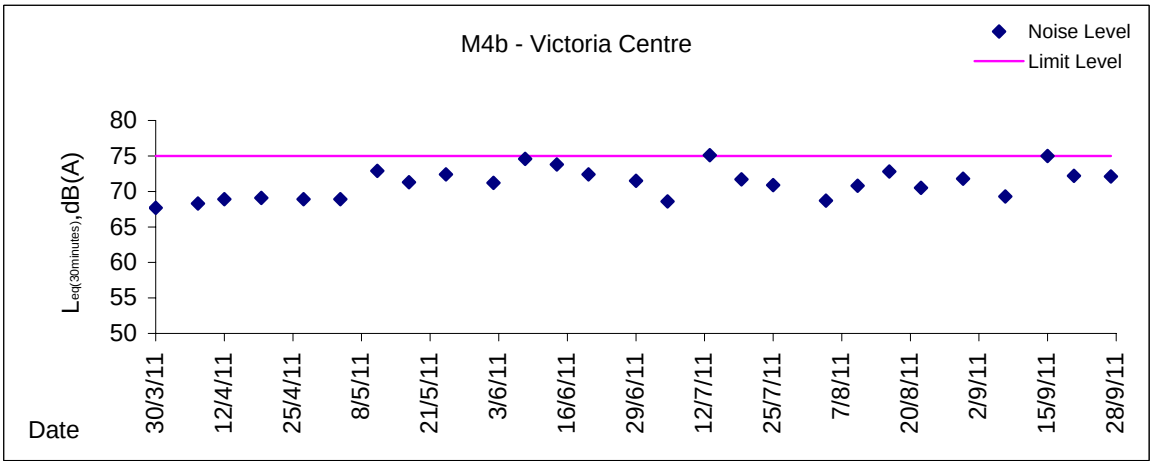


Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

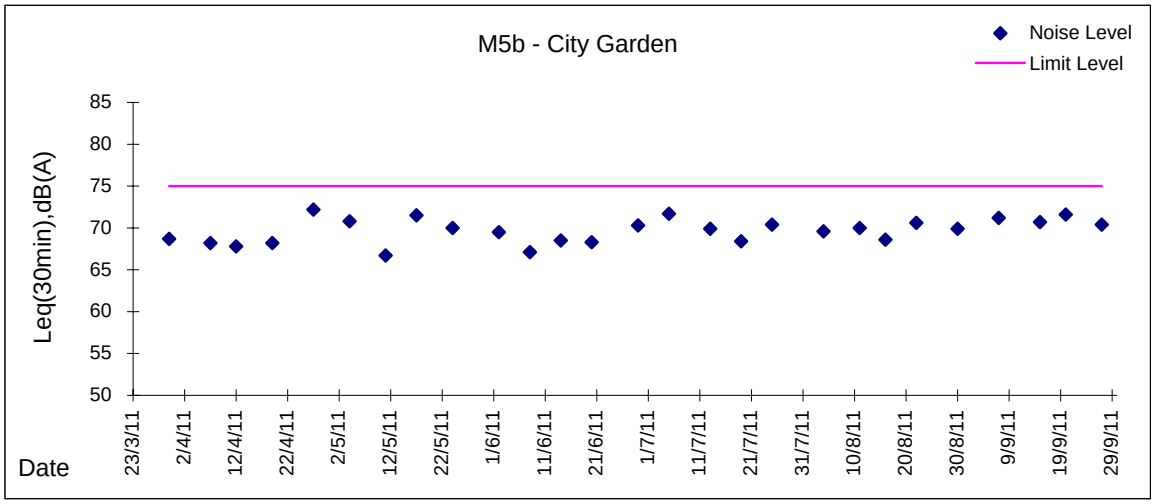


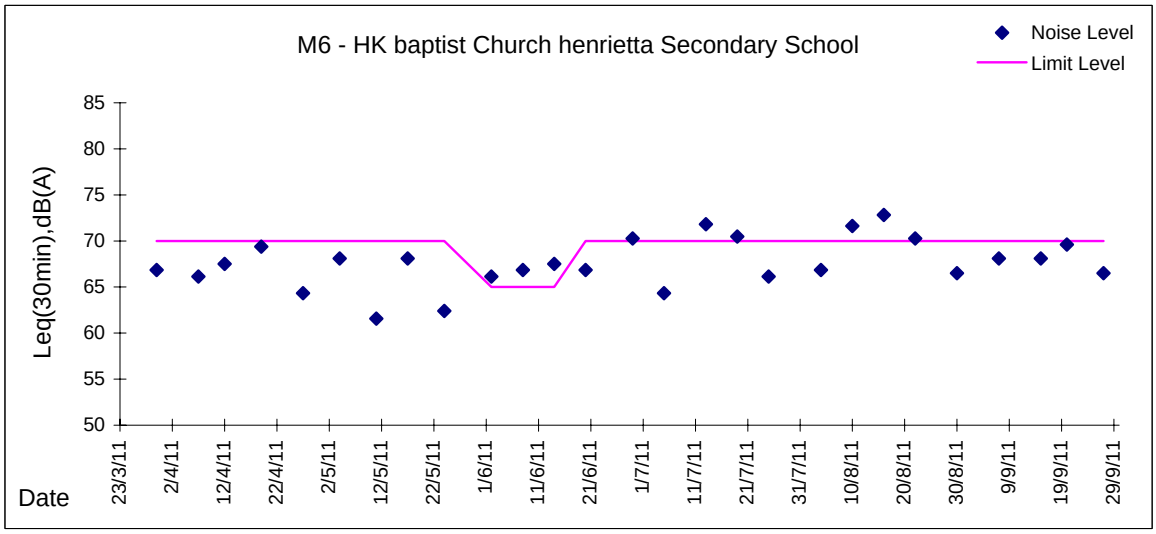




Graphic Presentation of Noise Monitoring Result

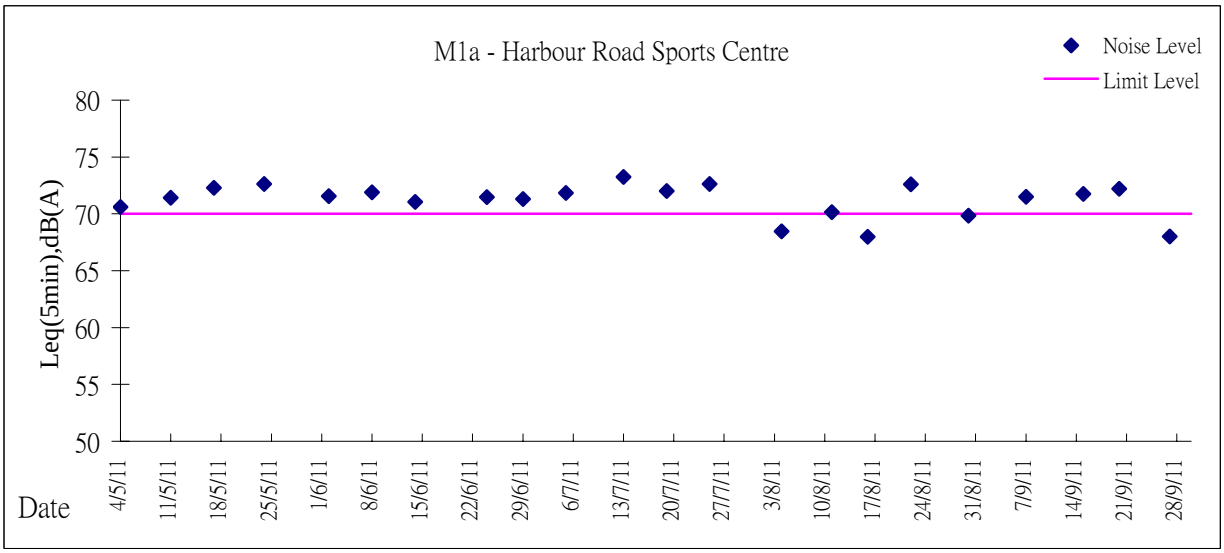
Day Time (0700 - 1900hrs on normal weekdays)

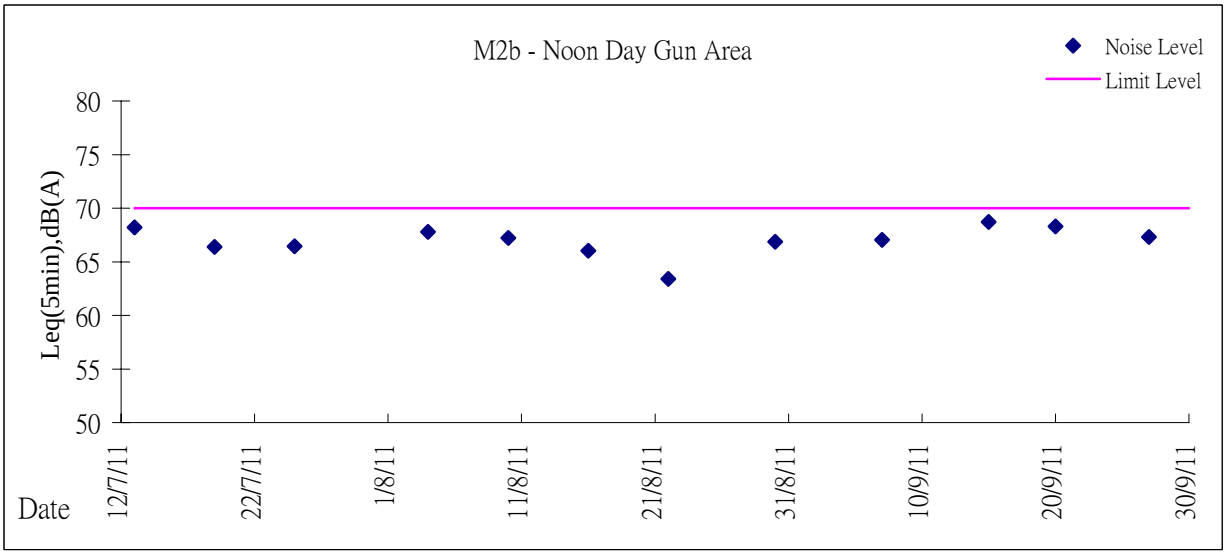


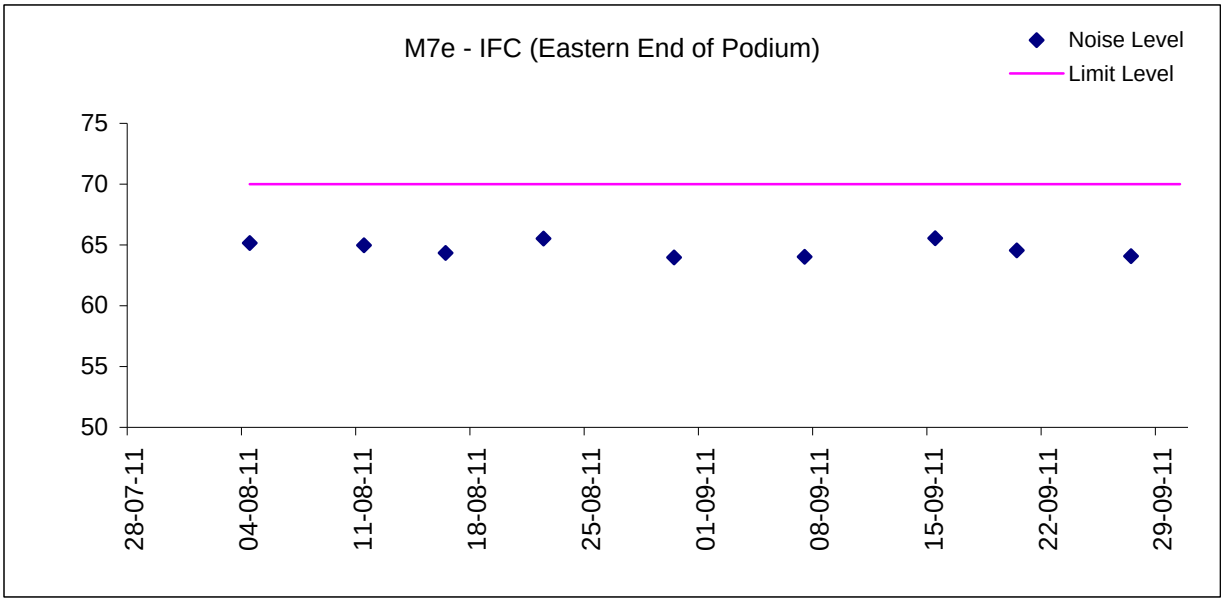


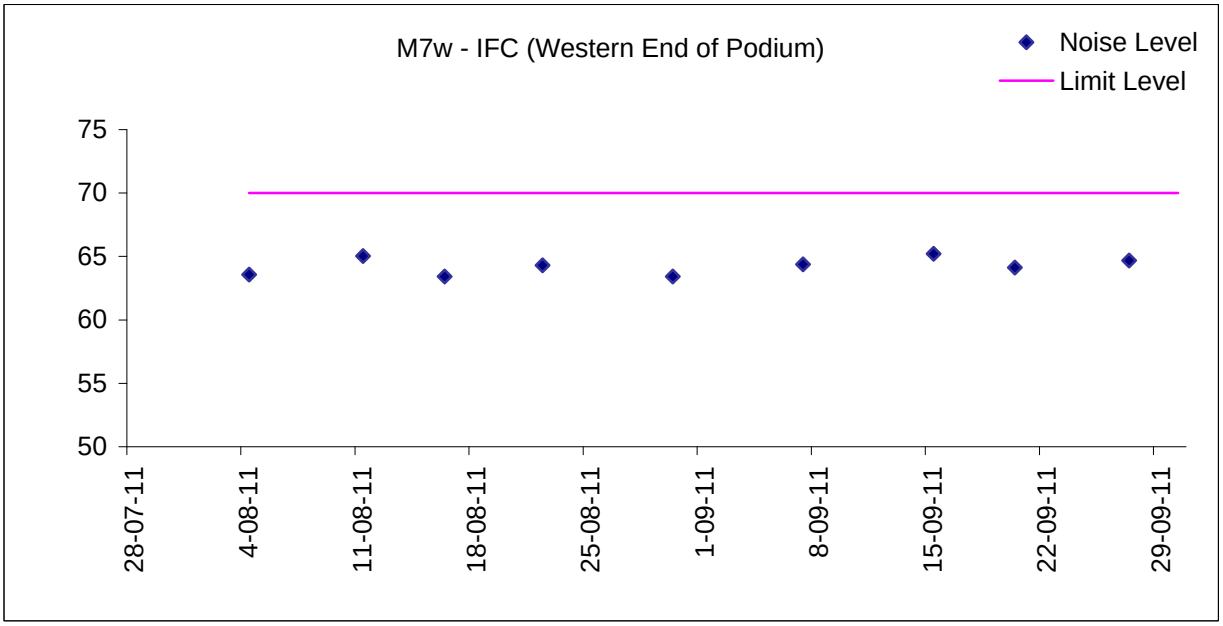
Graphic Presentation of Noise Monitoring Result

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






M7e - IFC (Eastern End of Podium)
Noise Level
Limit Level
75
70
65
60
55
50
28-07-11
04-08-11
11-08-11
18-08-11
25-08-11
01-09-11
08-09-11
15-09-11
22-09-11
29-09-11


M7w - IFC (Western End of Podium)
Noise Level
Limit Level
75
70
65
60
55
50
28-07-11
4-08-11
11-08-11
18-08-11
25-08-11
1-09-11
8-09-11
15-09-11
22-09-11
29-09-11

Appendix 5.3

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

Location: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring
Action Level (μg/m3) - 176.7
Limit Level (μg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30/8/2011	8:00	Fine	001085	2.7986	3.1005	9785.03	9809.02	23.99	1.23	1.19	1.21	1744	173
5/9/2011	8:00	Fine	000973	2.7890	2.8827	9789.90	9813.90	24.00	1.09	1.09	1.09	1576	59
10/9/2011	8:00	Fine	001086	2.7863	2.9156	0.15	24.16	24.01	1.19	1.19	1.19	1710	76
16/9/2011	8:00	Sunny	001259	2.8856	2.9707	27.16	51.14	23.98	1.21	1.21	1.21	1738	49

Report on 1-hour TSP monitoring
Action Level (μg/m3) - 320.1
Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31/8/2011	9:45	Fine	000972	2.8145	2.8360	9809.02	9810.02	1.00	1.15	1.09	1.12	67	320
31/8/2011	10:55	Fine	000977	2.7530	2.7681	9810.02	9811.02	1.00	1.18	1.06	1.12	67	225
31/8/2011	13:00	Fine	000978	2.7628	2.7769	9811.02	9812.02	1.00	1.22	1.13	1.18	71	200
6/9/2011	10:05	Fine	000983	2.7652	2.7742	9813.90	9814.90	1.00	1.09	1.05	1.07	64	140
6/9/2011	13:00	Fine	000984	2.7716	2.7779	9814.90	9815.90	1.00	1.09	1.00	1.05	63	100
6/9/2011	14:05	Fine	000987	2.7930	2.7993	9816.90	9817.90	1.00	1.14	1.14	1.14	68	92
12/9/2011	8:25	Cloudy	001147	2.7572	2.7637	24.16	25.16	1.00	1.21	1.19	1.20	72	90
12/9/2011	9:50	Cloudy	001251	2.8646	2.8725	25.16	26.16	1.00	1.19	1.19	1.19	71	111
12/9/2011	11:00	Cloudy	001255	2.8771	2.8851	26.16	27.16	1.00	1.19	1.19	1.19	71	112
17/9/2011	8:30	Sunny	001205	2.7318	2.7379	51.14	52.14	1.00	1.21	1.18	1.20	72	85
17/9/2011	9:35	Sunny	001282	2.8474	2.8539	52.14	53.14	1.00	1.14	1.09	1.12	67	97
17/9/2011	10:43	Sunny	001284	2.8416	2.8469	53.14	54.14	1.00	1.14	1.05	1.09	66	81

The monitoring station was temporary suspension until obtainment of a representative long-term air monitoring station on 18 September 2011

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring
Action Level (μg/m3) - 169.5
Limit Level (μg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30/8/2011	8:00	Fine	001084	2.8092	3.1203	14258.90	14282.89	23.99	1.39	1.39	1.39	1998	156
5/9/2011	8:00	Fine	001041	2.7709	2.8961	14285.90	14309.88	23.98	1.32	1.37	1.35	1938	65
10/9/2011	8:00	Fine	001114	2.8018	2.9234	14312.88	14336.88	24.00	1.42	1.42	1.42	2042	60
16/9/2011	8:00	Sunny	001049	2.7580	2.8337	14339.88	14363.86	23.98	1.42	1.42	1.42	2037	37
22/9/2011	8:00	Cloudy	001286	2.8339	3.0183	14366.86	14390.86	24.00	1.38	1.42	1.40	2014	92

Report on 1-hour TSP monitoring
Action Level (μg/m3) - 323.4
Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31/8/2011	9:30	Fine	000971	2.8114	2.8288	14282.89	14283.89	1.00	1.41	1.41	1.41	84	206
31/8/2011	10:35	Fine	000974	2.8157	2.8343	14283.89	14284.89	1.00	1.41	1.41	1.41	84	220
31/8/2011	13:00	Fine	000975	2.7655	2.7853	14284.89	14285.89	1.00	1.32	1.32	1.32	79	251
6/9/2011	10:00	Fine	000982	2.7595	2.7682	14309.88	14310.88	1.00	1.42	1.37	1.39	84	104
6/9/2011	11:00	Fine	000985	2.7696	2.7771	14310.88	14311.88	1.00	1.37	1.32	1.35	81	93
6/9/2011	13:00	Fine	000986	2.7696	2.7757	14311.88	14312.88	1.00	1.35	1.37	1.36	82	75
12/9/2011	8:00	Cloudy	001242	2.8680	2.8771	14336.88	14337.88	1.00	1.44	1.42	1.43	86	106
12/9/2011	10:00	Cloudy	001252	2.8602	2.8683	14337.88	14338.88	1.00	1.42	1.42	1.42	85	95
12/9/2011	11:00	Cloudy	001256	2.8714	2.8800	14338.88	14339.88	1.00	1.42	1.42	1.42	85	101
17/9/2011	8:42	Sunny	001281	2.8588	2.8652	14363.86	14364.86	1.00	1.30	1.28	1.29	77	83
17/9/2011	9:46	Sunny	001283	2.8555	2.8622	14364.86	14365.86	1.00	1.42	1.39	1.40	84	80
17/9/2011	10:52	Sunny	001285	2.8445	2.8508	14365.86	14366.86	1.00	1.37	1.37	1.37	82	77
23/9/2011	8:30	Cloudy	001288	2.8548	2.8677	14390.86	14391.86	1.00	1.42	1.42	1.42	85	151
23/9/2011	9:40	Cloudy	001289	2.8560	2.8695	14391.86	14392.86	1.00	1.38	1.38	1.38	83	164
23/9/2011	11:00	Cloudy	001291	2.8610	2.8725	14392.86	14393.86	1.00	1.33	1.33	1.33	80	144

Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring
Action Level (μg/m3) - 171
Limit Level (μg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30/8/2011	8:00	Fine	001122	2.7984	3.1425	10091.64	10115.64	24.00	1.41	1.41	1.41	2030	170
5/9/2011	8:00	Fine	001111	2.7897	2.9283	10118.56	10142.56	24.00	1.41	1.41	1.41	2032	68
10/9/2011	8:00	Fine	001145	2.7608	2.9331	10145.56	10169.55	23.99	1.47	1.47	1.47	2109	82
16/9/2011	8:00	Sunny	001260	2.8868	2.9915	10172.55	10196.54	23.99	1.41	1.41	1.41	2031	52
22/9/2011	8:00	Cloudy	001265	2.8748	3.1238	10199.52	10223.52	24.00	1.44	1.47	1.46	2098	119

Report on 1-hour TSP monitoring
Action Level (μg/m3) - 311.3
Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31/8/2011	9:35	Fine	001203	2.7328	2.7522	10115.62	10116.63	1.01	1.40	1.40	1.40	84	231
31/8/2011	13:00	Fine	000746	2.7986	2.8237	10116.63	10117.63	1.00	1.55	1.55	1.55	93	269
31/8/2011	14:39	Fine	001131	2.7515	2.7714	10117.63	10118.47	0.84	1.40	1.40	1.40	71	282
6/9/2011	10:08	Fine	001238	2.8724	2.8824	10142.56	10143.56	1.00	1.41	1.41	1.41	85	118
6/9/2011	13:00	Fine	001141	2.7528	2.7596	10143.56	10144.56	1.00	1.41	1.41	1.41	85	80
6/9/2011	14:50	Fine	001143	2.7603	2.7688	10144.56	10145.56	1.00	1.41	1.41	1.41	85	100
12/9/2011	9:15	Cloudy	001149	2.7616	2.7707	10169.55	10170.55	1.00	1.47	1.47	1.47	88	104
12/9/2011	10:28	Cloudy	001253	2.8843	2.8942	10170.55	10171.55	1.00	1.52	1.52	1.52	91	109
12/9/2011	13:00	Cloudy	001257	2.8957	2.9052	10171.55	10172.55	1.00	1.52	1.52	1.52	91	104
17/9/2011	10:09	Sunny	001201	2.7519	2.7628	10196.54	10197.52	0.98	1.41	1.41	1.41	83	131
17/9/2011	13:00	Sunny	001287	2.8462	2.8566	10197.52	10198.53	1.01	1.38	1.38	1.38	84	124
17/9/2011	14:20	Sunny	001236	2.8613	2.8714	10198.53	10199.51	0.98	1.41	1.41	1.41	84	121
23/9/2011	9:40	Cloudy	001273	2.8531	2.8720	10223.52	10224.52	1.00	1.42	1.42	1.42	85	222
23/9/2011	10:55	Cloudy	001229	2.8503	2.8686	10224.52	10225.52	1.00	1.42	1.42	1.42	85	215
23/9/2011	13:00	Cloudy	001293	2.8707	2.8851	10225.52	10226.52	1.00	1.31	1.31	1.31	79	183

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring
Action Level (µg/m3) - 171.2
Limit Level (µg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, µg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30/8/2011	8:00	Fine	001158	2.7534	3.0015	13741.25	13765.25	24.00	1.14	1.14	1.14	1645	151
5/9/2011	8:00	Fine	000988	2.7537	2.8571	13768.24	13792.23	23.99	1.15	1.15	1.15	1650	63
10/9/2011	8:00	Fine	001146	2.7537	2.8674	13795.23	13819.23	24.00	1.12	1.12	1.12	1618	70
16/9/2011	8:00	Sunny	001159	2.7372	2.7996	13822.23	13846.21	23.98	1.12	1.12	1.12	1614	39
22/9/2011	8:00	Cloudy	001266	2.8641	3.0091	13849.21	13873.21	24.00	1.15	1.15	1.15	1658	87

Report on 1-hour TSP monitoring
Action Level (µg/m3) - 312.5
Limit Level (µg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, µg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31/8/2011	9:25	Fine	001204	2.7327	2.7486	13765.24	13766.24	1.00	1.14	1.14	1.14	68	233
31/8/2011	13:00	Fine	000747	2.7929	2.8131	13766.24	13767.24	1.00	1.11	1.11	1.11	67	302
31/8/2011	14:26	Fine	001130	2.7853	2.8033	13767.24	13768.24	1.00	1.11	1.11	1.11	67	269
6/9/2011	9:54	Fine	001237	2.8664	2.8712	13792.23	13793.23	1.00	1.07	1.10	1.09	65	74
6/9/2011	13:22	Fine	001142	2.7571	2.7615	13793.23	13794.23	1.00	1.12	1.12	1.12	67	65
6/9/2011	14:58	Fine	001144	2.7654	2.7698	13794.23	13795.23	1.00	1.12	1.12	1.12	67	65
12/9/2011	8:58	Cloudy	001148	2.7670	2.7721	13819.23	13820.23	1.00	1.12	1.12	1.12	67	76
12/9/2011	10:38	Cloudy	001254	2.8851	2.8914	13820.23	13821.23	1.00	1.12	1.12	1.12	67	94
12/9/2011	13:00	Cloudy	001258	2.8880	2.8949	13821.23	13822.23	1.00	1.15	1.15	1.15	69	100
17/9/2011	9:53	Sunny	001202	2.7452	2.7504	13846.21	13847.21	1.00	1.12	1.15	1.13	68	77
17/9/2011	13:00	Sunny	001187	2.7714	2.7755	13847.21	13848.21	1.00	1.12	1.12	1.12	67	61
17/9/2011	14:30	Sunny	001264	2.8688	2.8741	13848.21	13849.21	1.00	1.10	1.12	1.11	67	80
23/9/2011	9:29	Cloudy	001272	2.8663	2.8761	13873.21	13874.21	1.00	1.20	1.18	1.19	71	137
23/9/2011	10:50	Cloudy	001230	2.8457	2.8560	13874.21	13875.21	1.00	1.18	1.18	1.18	71	146
23/9/2011	13:00	Cloudy	001228	2.8532	2.8634	13875.21	13876.21	1.00	1.18	1.18	1.18	71	145

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring
Action Level (µg/m3) - 181
Limit Level (µg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, µg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30/8/2011	8:00	Fine	001073	2.7797	3.0599	14724.44	14748.42	23.98	1.17	1.17	1.17	1686	166
5/9/2011	8:00	Fine	001040	2.7764	2.9069	14751.42	14775.41	23.99	1.15	1.15	1.15	1655	79
10/9/2011	8:00	Fine	001048	2.8057	2.9302	14778.41	14802.40	23.99	1.15	1.15	1.15	1658	75
16/9/2011	8:00	Sunny	001210	2.7441	2.8673	14805.40	14829.39	23.99	1.15	1.15	1.15	1654	74
22/9/2011	8:00	Cloudy	001186	2.7591	2.9137	14832.39	14856.38	23.99	1.13	1.16	1.14	1644	94

Report on 1-hour TSP monitoring
Action Level (µg/m3) - 332
Limit Level (µg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, µg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31/8/2011	8:18	Fine	001123	2.7861	2.7945	14748.42	14749.42	1.00	1.02	1.02	1.02	61	137
31/8/2011	9:23	Fine	001035	2.7899	2.8042	14749.42	14750.42	1.00	1.14	1.14	1.14	68	209
31/8/2011	10:28	Fine	001037	2.7736	2.7914	14750.42	14751.42	1.00	1.14	1.14	1.14	68	261
6/9/2011	8:15	Fine	001064	2.8039	2.8122	14775.41	14776.41	1.00	1.15	1.15	1.15	69	120
6/9/2011	9:43	Fine	001043	2.7725	2.7795	14776.41	14777.41	1.00	1.15	1.15	1.15	69	102
6/9/2011	10:45	Fine	001045	2.8026	2.8095	14777.41	14778.41	1.00	1.15	1.15	1.15	69	100
12/9/2011	9:45	Cloudy	001304	2.8633	2.8705	14802.40	14803.40	1.00	1.09	1.09	1.09	66	110
12/9/2011	10:47	Cloudy	001303	2.8731	2.8794	14803.40	14804.40	1.00	1.01	1.01	1.01	60	104
12/9/2011	13:00	Cloudy	000989	2.7568	2.7624	14804.40	14805.40	1.00	0.80	0.80	0.80	48	116
17/9/2011	8:25	Sunny	001180	2.7678	2.7750	14829.39	14830.39	1.00	1.15	1.15	1.15	69	105
17/9/2011	9:31	Sunny	001182	2.7710	2.7765	14830.39	14831.39	1.00	1.15	1.15	1.15	69	80
17/9/2011	10:35	Sunny	001184	2.7695	2.7753	14831.39	14832.39	1.00	1.03	1.03	1.03	62	94
23/9/2011	8:15	Cloudy	001167	2.7449	2.7603	14856.38	14857.38	1.00	1.16	1.16	1.16	69	222
23/9/2011	9:18	Cloudy	001168	2.7586	2.7723	14857.38	14858.38	1.00	1.16	1.16	1.16	69	197
23/9/2011	10:20	Cloudy	001290	2.8416	2.8494	14858.38	14859.38	1.00	1.16	1.16	1.16	69	112

Location: MA1w - International Finance Centre (Western Wing)

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, µg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30/8/2011	8:00	Fine	001154	2.7476	3.0070	10542.57	10566.56	23.99	1.25	1.25	1.25	1803	144
5/9/2011	8:00	Fine	001129	2.7847	2.9086	10569.55	10593.54	23.99	1.26	1.26	1.26	1811	68
10/9/2011	8:00	Fine	001140	2.7446	2.8561	10596.54	10620.54	24.00	1.26	1.26	1.26	1814	61
16/9/2011	8:00	Sunny	001263	2.8736	2.9393	10623.54	10647.53	23.99	1.26	1.26	1.26	1810	36
23/9/2011*	16:15	Cloudy	001302	2.8641	3.0384	10653.53	10677.53	24.00	1.34	1.34	1.34	1924	91

*Due to lack of power supply, the 24-hr TSP was re-scheduled from 22/9/2011 to 23/9/2011

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, µg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31/8/2011	8:27	Fine	001031	2.7752	2.7866	10566.56	10567.56	1.00	1.25	1.30	1.27	76	149
31/8/2011	9:32	Fine	001033	2.7939	2.8057	10567.56	10568.56	1.00	1.25	1.25	1.25	75	157
31/8/2011	10:40	Fine	001127	2.7707	2.7853	10568.56	10569.55	0.99	1.25	1.25	1.25	74	197
6/9/2011	8:32	Fine	001134	2.7757	2.7812	10593.54	10594.54	1.00	1.26	1.26	1.26	75	73
6/9/2011	9:56	Fine	001136	2.7606	2.7662	10594.54	10595.54	1.00	1.26	1.26	1.26	75	74
6/9/2011	11:00	Fine	001138	2.7683	2.7742	10595.54	10596.54	1.00	1.26	1.26	1.26	75	78
12/9/2011	9:05	Cloudy	001307	2.8683	2.8758	10620.54	10621.54	1.00	1.26	1.21	1.24	74	101
12/9/2011	10:07	Cloudy	001309	2.8686	2.8761	10621.54	10622.54	1.00	1.26	1.11	1.19	71	105
12/9/2011	13:00	Cloudy	001310	2.8818	2.8878	10622.54	10623.54	1.00	1.31	1.02	1.16	70	86
17/9/2011	8:35	Sunny	001165	2.7646	2.7675	10647.53	10648.53	1.00	1.31	1.31	1.31	78	37
17/9/2011	9:38	Sunny	001231	2.8677	2.8709	10648.53	10649.53	1.00	1.31	1.31	1.31	78	41
17/9/2011	10:46	Sunny	001233	2.8686	2.8721	10649.53	10650.53	1.00	1.21	1.22	1.22	73	48
23/9/2011	13:00	Cloudy	001235	2.8438	2.8620	10650.53	10651.53	1.00	1.26	1.26	1.26	76	240
23/9/2011	14:05	Cloudy	001271	2.8499	2.8608	10651.53	10652.53	1.00	1.07	1.07	1.07	64	170
23/9/2011	15:10	Cloudy	001274	2.8718	2.8839	10652.53	10653.53	1.00	1.34	1.34	1.34	80	151

Location: MA1e - International Finance Centre (Eastern Wing)

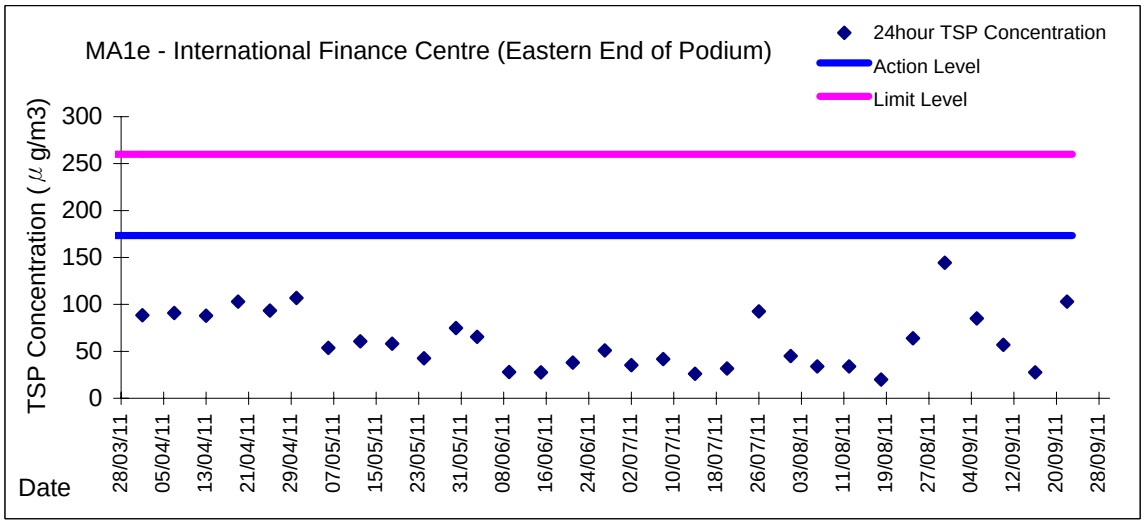
Report on 24-hour TSP monitoring
Action Level (µg/m3) - 173.4
Limit Level (µg/m3) - 260

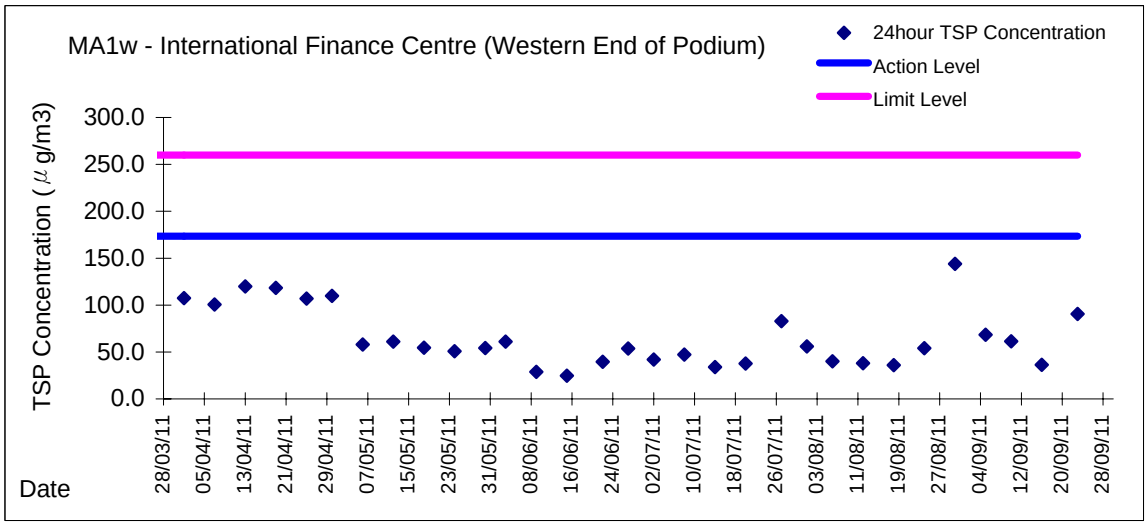
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30/8/2011	8:00	Fine	001163	2.7485	3.0209	7364.26	7388.25	23.99	1.31	1.31	1.31	1887	144
5/9/2011	8:00	Fine	001128	2.7766	2.9377	7391.25	7415.25	24.00	1.32	1.32	1.41	1895	85
10/9/2011	8:00	Fine	001139	2.7731	2.8809	7418.24	7442.23	23.99	1.32	1.32	1.32	1896	57
16/9/2011	8:00	Sunny	001262	2.8757	2.9279	7445.23	7469.22	23.99	1.32	1.32	1.32	1893	28
22/9/2011	8:00	Cloudy	001234	2.8468	3.0456	7472.22	7496.22	24.00	1.34	1.34	1.34	1932	103

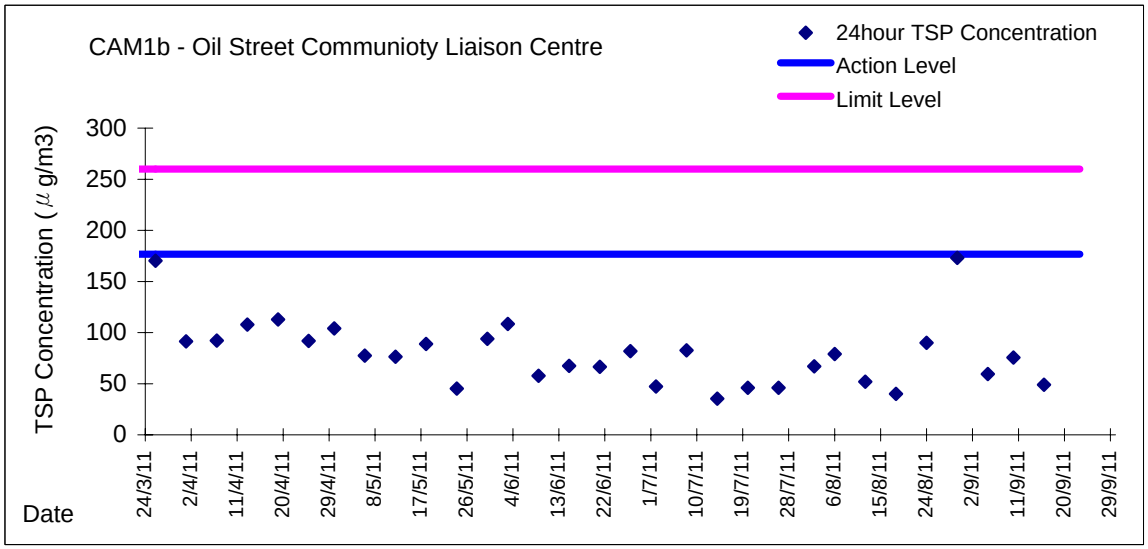
Report on 1-hour TSP monitoring
Action Level (µg/m3) - 325.1
Limit Level (µg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31/8/2011	8:20	Fine	001030	2.7970	2.8082	7388.25	7389.25	1.00	1.29	1.31	1.30	78	144
31/8/2011	9:26	Fine	001032	2.7867	2.7985	7389.25	7390.25	1.00	1.31	1.31	1.31	78	150
31/8/2011	10:31	Fine	001126	2.7512	2.7667	7390.25	7391.25	1.00	1.31	1.31	1.31	78	198
6/9/2011	8:25	Fine	001132	2.7748	2.7800	7415.24	7416.24	1.00	1.30	1.32	1.31	78	66
6/9/2011	9:50	Fine	001135	2.7777	2.7889	7416.24	7417.24	1.00	1.32	1.32	1.32	79	142
6/9/2011	10:50	Fine	001137	2.7718	2.7766	7417.24	7418.24	1.00	1.32	1.32	1.32	79	61
12/9/2011	9:01	Cloudy	001306	2.8794	2.8858	7442.23	7443.23	1.00	1.28	1.32	1.30	78	82
12/9/2011	10:03	Cloudy	001308	2.8690	2.8753	7443.23	7444.23	1.00	1.28	1.32	1.30	78	81
12/9/2011	13:00	Cloudy	001261	2.8820	2.8878	7444.23	7445.23	1.00	1.32	1.32	1.32	79	73
17/9/2011	8:27	Sunny	001164	2.7633	2.7657	7469.22	7470.22	1.00	1.31	1.31	1.31	79	30
17/9/2011	9:30	Sunny	001166	2.7709	2.7736	7470.22	7471.22	1.00	1.31	1.31	1.31	79	34
17/9/2011	10:40	Sunny	001232	2.8591	2.8619	7471.22	7472.22	1.00	1.31	1.31	1.31	79	36
23/9/2011	8:18	Cloudy	001267	2.8589	2.8687	7496.22	7497.22	1.00	1.34	1.34	1.34	81	122
23/9/2011	9:56	Cloudy	001268	2.8584	2.8691	7497.22	7498.22	1.00	1.34	1.34	1.34	81	133
23/9/2011	11:00	Cloudy	001269	2.8432	2.8550	7498.22	7499.22	1.00	1.34	1.34	1.34	81	147

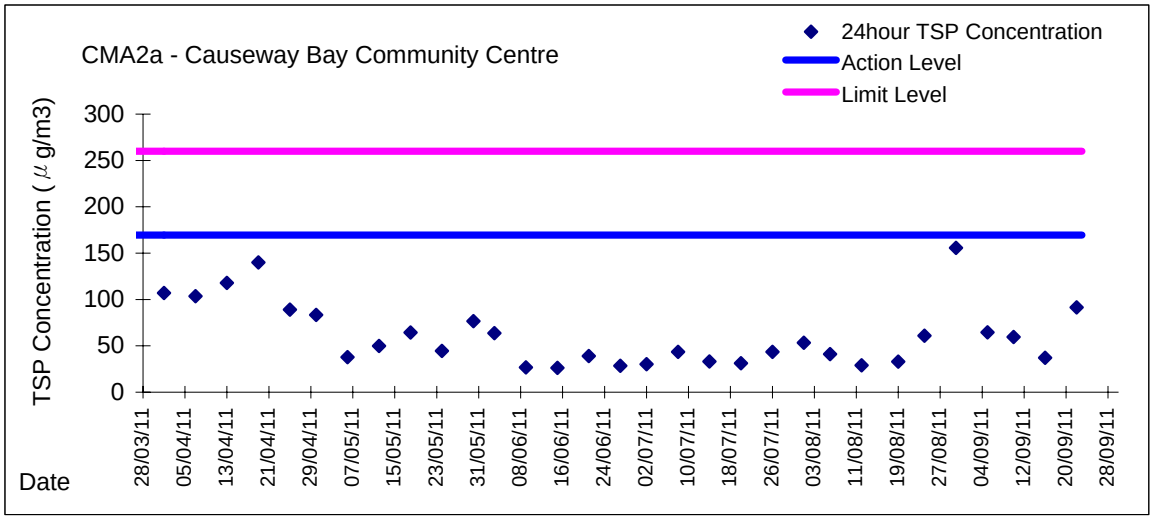
Graphic Presentation of 24 hour TSP Result

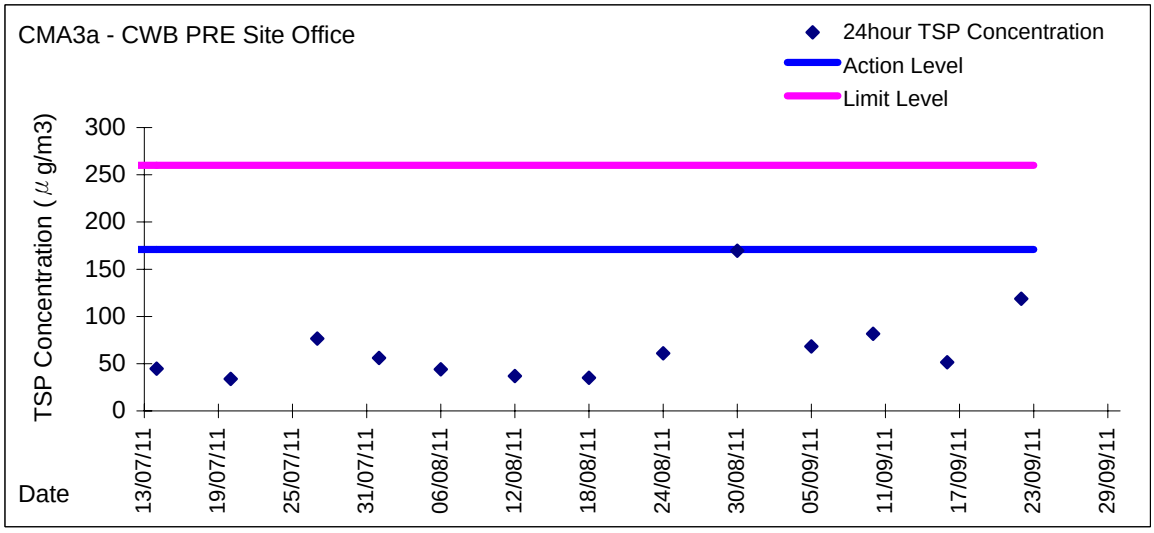


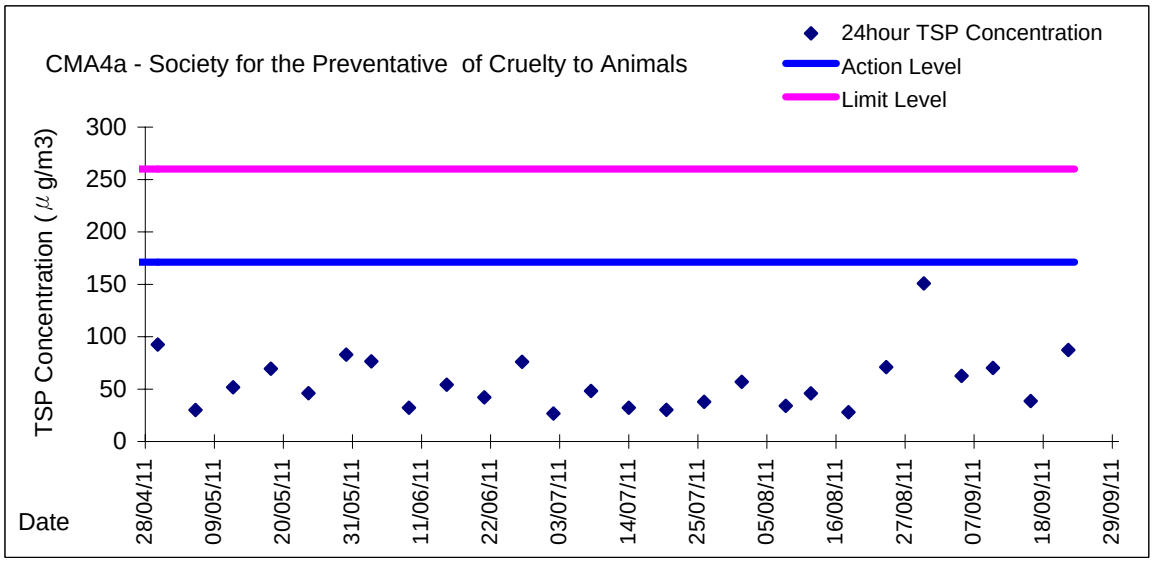




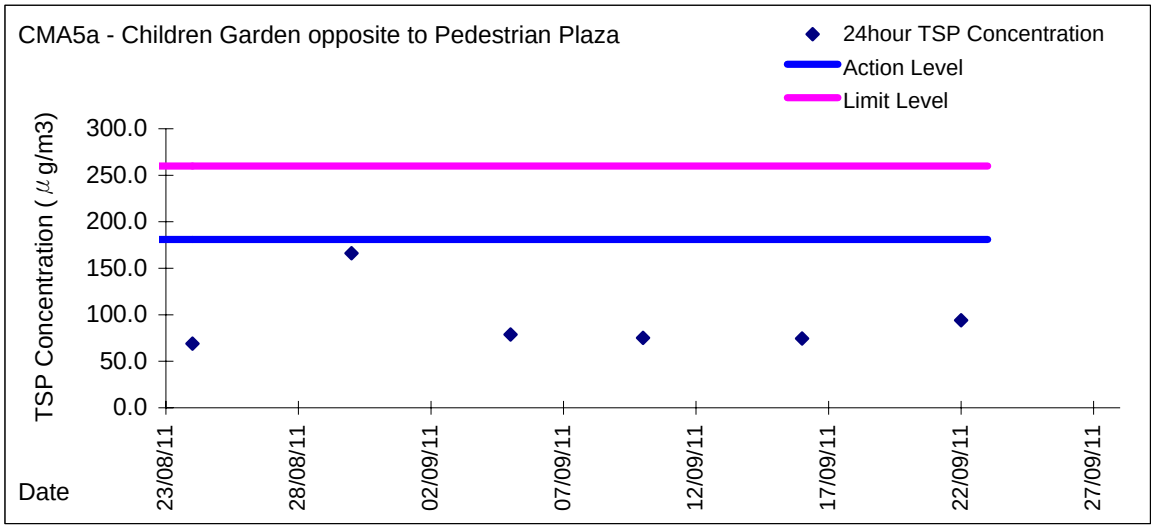
Graphic Presentation of 24 hour TSP Result



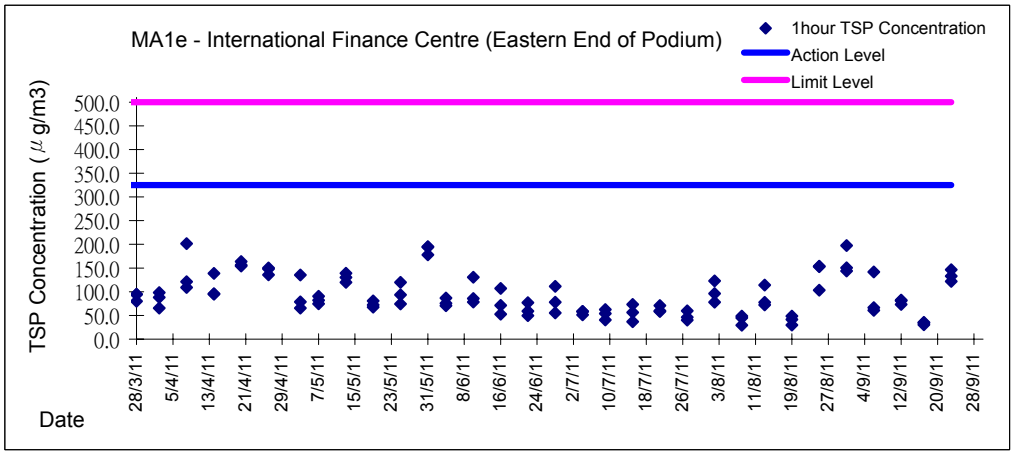


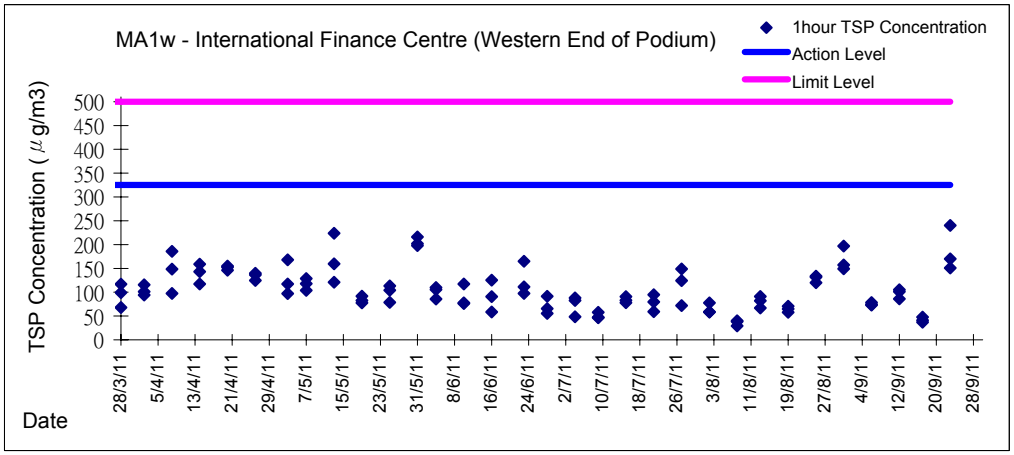


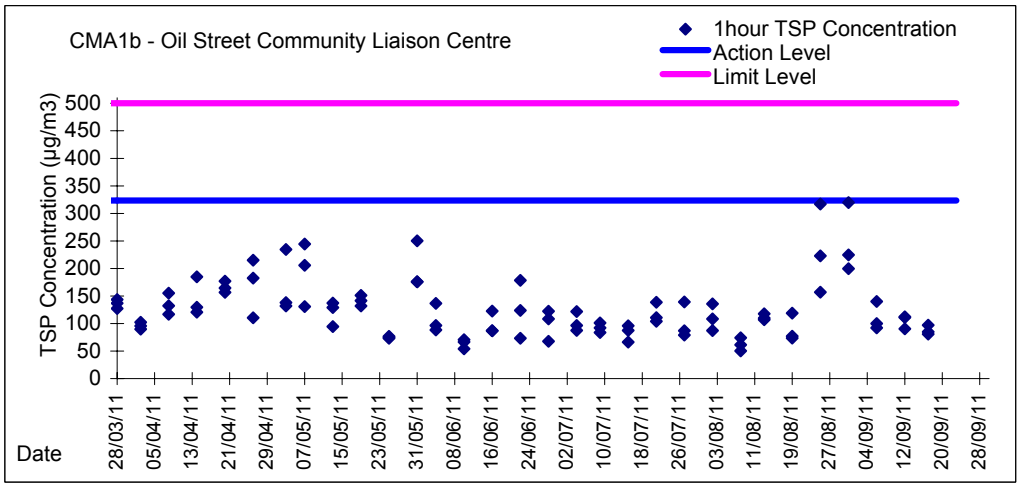
Graphic Presentation of 24 hour TSP Result



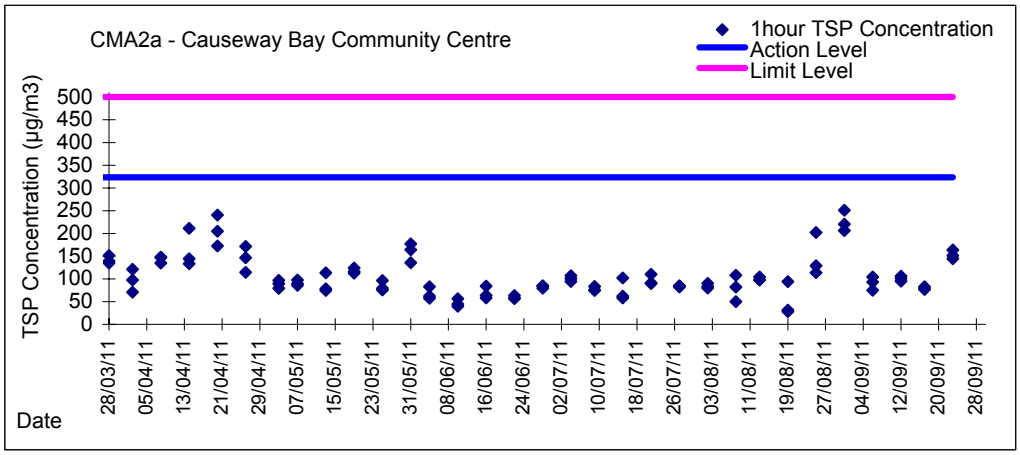
Graphic Presentation of 1 hour TSP Result

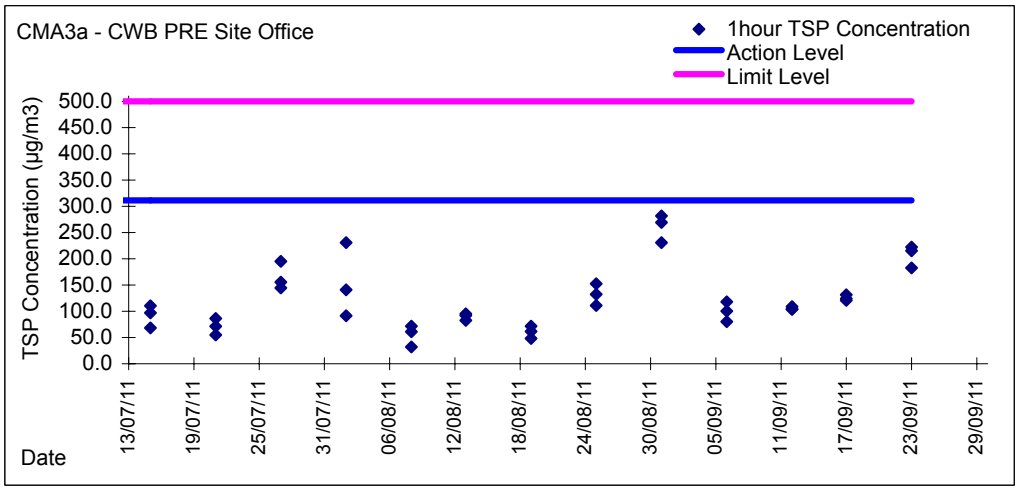


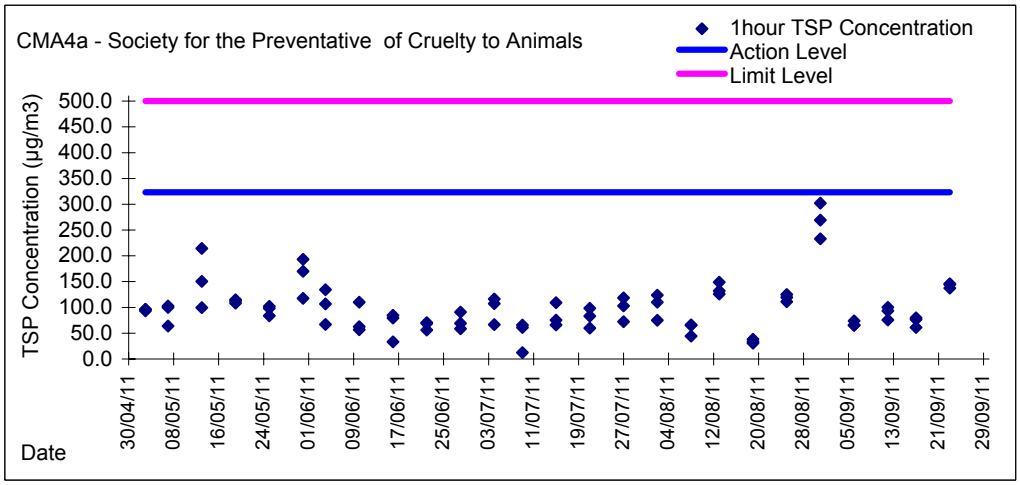




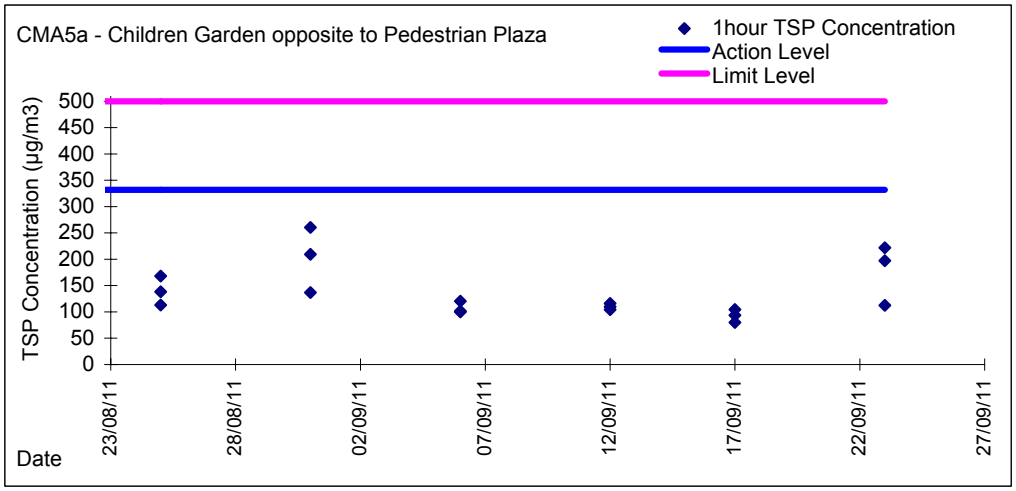
Graphic Presentation of 1 hour TSP Result







Graphic Presentation of 1 hour TSP Result



Appendix 5.4

Real Time Noise *Monitoring Results and Graphical Presentations*

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

Normal Day 07:00-19:00

29/8/2011 7:01	64.9
29/8/2011 7:31	65.1
29/8/2011 8:01	64.8
29/8/2011 8:31	67.1
29/8/2011 9:01	66.7
29/8/2011 9:31	69.6
29/8/2011 10:01	69.9
29/8/2011 10:31	69.3
29/8/2011 11:01	69.7
29/8/2011 11:31	66.3
29/8/2011 12:01	65.1
29/8/2011 12:31	64.7
29/8/2011 13:01	68.6
29/8/2011 13:31	67.5
29/8/2011 14:01	66.4
29/8/2011 14:31	67.0
29/8/2011 15:01	67.4
29/8/2011 15:31	67.2
29/8/2011 16:01	66.7
29/8/2011 16:31	69.8
29/8/2011 17:01	68.2
29/8/2011 17:31	68.0
29/8/2011 18:01	65.7
29/8/2011 18:31	65.6
30/8/2011 7:01	66.0
30/8/2011 7:31	68.9
30/8/2011 8:01	68.8
30/8/2011 8:31	63.3
30/8/2011 9:01	69.0
30/8/2011 9:31	68.8
30/8/2011 10:01	66.9
30/8/2011 10:31	67.5
30/8/2011 11:01	67.4
30/8/2011 11:31	68.4
30/8/2011 12:01	65.5
30/8/2011 12:31	65.1
30/8/2011 13:01	67.6
30/8/2011 13:31	68.1
30/8/2011 14:01	67.2
30/8/2011 14:31	71.0
30/8/2011 15:01	71.6
30/8/2011 15:31	68.6
30/8/2011 16:01	68.0
30/8/2011 16:31	68.0
30/8/2011 17:01	69.1
30/8/2011 17:31	65.7
30/8/2011 18:01	65.3
30/8/2011 18:31	64.6
31/8/2011 7:01	64.9
31/8/2011 7:31	65.8
31/8/2011 8:01	65.2
31/8/2011 8:31	65.6
31/8/2011 9:01	68.7
31/8/2011 9:31	68.1
31/8/2011 10:01	66.4
31/8/2011 10:31	66.0
31/8/2011 11:01	65.7
31/8/2011 11:31	69.3
31/8/2011 12:01	63.8
31/8/2011 12:31	64.3
31/8/2011 13:01	66.1
31/8/2011 13:31	66.8
31/8/2011 14:01	67.9
31/8/2011 14:31	68.9
31/8/2011 15:01	66.9
31/8/2011 15:31	66.9
31/8/2011 16:01	69.2
31/8/2011 16:31	67.7
31/8/2011 17:01	67.0
31/8/2011 17:31	66.5
31/8/2011 18:01	64.8
31/8/2011 18:31	64.4
1/9/2011 7:01	64.6
1/9/2011 7:31	65.1
1/9/2011 8:01	64.7
1/9/2011 8:31	65.8
1/9/2011 9:01	69.5
1/9/2011 9:31	68.4
1/9/2011 10:01	67.2
1/9/2011 10:31	66.9
1/9/2011 11:01	67.8
1/9/2011 11:31	66.7
1/9/2011 12:01	65.4
1/9/2011 12:31	64.6
1/9/2011 13:01	66.7
1/9/2011 13:31	67.2
1/9/2011 14:01	67.4
1/9/2011 14:31	66.5
1/9/2011 15:01	66.8
1/9/2011 15:31	66.8
1/9/2011 16:01	67.6
1/9/2011 16:31	68.0
1/9/2011 17:01	68.7
1/9/2011 17:31	66.4
1/9/2011 18:01	64.8
1/9/2011 18:31	64.8
2/9/2011 7:01	64.8
2/9/2011 7:31	65.4
2/9/2011 8:01	65.0
2/9/2011 8:31	69.8
2/9/2011 9:01	68.1
2/9/2011 9:31	69.5
2/9/2011 10:01	70.8
2/9/2011 10:31	69.5
2/9/2011 11:01	71.5
2/9/2011 11:31	65.7
2/9/2011 12:01	64.9
2/9/2011 12:31	65.1
2/9/2011 13:01	66.8
2/9/2011 13:31	68.0
2/9/2011 14:01	68.7
2/9/2011 14:31	68.1
2/9/2011 15:01	68.3
2/9/2011 15:31	69.2
2/9/2011 16:01	67.3
2/9/2011 16:31	68.3
2/9/2011 17:01	67.5
2/9/2011 17:31	65.1
2/9/2011 18:01	64.1
2/9/2011 18:31	62.7
3/9/2011 7:01	64.1
3/9/2011 7:31	65.5
3/9/2011 8:01	66.8
3/9/2011 8:31	69.6
3/9/2011 9:01	66.6
3/9/2011 9:31	66.3
3/9/2011 10:01	69.7
3/9/2011 10:31	67.8
3/9/2011 11:01	67.5
3/9/2011 11:31	68.0
3/9/2011 12:01	65.0
3/9/2011 12:31	65.2
3/9/2011 13:01	66.2
3/9/2011 13:31	71.9
3/9/2011 14:01	68.8
3/9/2011 14:31	66.8
3/9/2011 15:01	69.9
3/9/2011 15:31	68.5
3/9/2011 16:01	69.2
3/9/2011 16:31	67.6
3/9/2011 17:01	65.6
3/9/2011 17:31	64.8
3/9/2011 18:01	64.6
3/9/2011 18:31	63.6
5/9/2011 7:01	65.1
5/9/2011 7:31	65.0
5/9/2011 8:01	64.9
5/9/2011 8:31	65.6
5/9/2011 9:01	65.9
5/9/2011 9:31	67.1
5/9/2011 10:01	67.3
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5/9/2011 11:01	67.6
5/9/2011 11:31	65.5
5/9/2011 12:01	63.9
5/9/2011 12:31	64.8
5/9/2011 13:01	69.1
5/9/2011 13:31	66.5
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5/9/2011 14:31	68.5
5/9/2011 15:01	65.6
5/9/2011 15:31	65.1
5/9/2011 16:01	70.6
5/9/2011 16:31	65.0
5/9/2011 17:01	69.2
5/9/2011 17:31	67.1
5/9/2011 18:01	65.3
5/9/2011 18:31	63.3
6/9/2011 7:01	64.9
6/9/2011 7:31	65.1
6/9/2011 8:01	64.3
6/9/2011 8:31	71.2
6/9/2011 9:01	72.7
6/9/2011 9:31	69.8
6/9/2011 10:01	70.3
6/9/2011 10:31	49.0
6/9/2011 11:01	71.4
6/9/2011 11:31	65.7
6/9/2011 12:01	64.9
6/9/2011 12:31	64.7
6/9/2011 13:01	69.2
6/9/2011 13:31	68.9
6/9/2011 14:01	66.6
6/9/2011 14:31	66.0
6/9/2011 15:01	66.0
6/9/2011 15:31	65.1
6/9/2011 16:01	66.2
6/9/2011 16:31	66.6
6/9/2011 17:01	66.8
6/9/2011 17:31	65.2
6/9/2011 18:01	64.5
6/9/2011 18:31	63.0
7/9/2011 7:01	64.7
7/9/2011 7:31	65.3
7/9/2011 8:01	64.9
7/9/2011 8:31	68.5
7/9/2011 9:01	67.2
7/9/2011 9:31	67.4
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7/9/2011 11:01	68.9
7/9/2011 11:31	67.8
7/9/2011 12:01	65.4
7/9/2011 12:31	64.6
7/9/2011 13:01	65.6
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7/9/2011 14:01	66.7
7/9/2011 14:31	71.5
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7/9/2011 17:01	66.8
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7/9/2011 18:31	64.0
8/9/2011 7:01	64.7
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10/9/2011 18:31	63.0
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12/9/2011 8:31	71.0
12/9/2011 9:01	68.7
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12/9/2011 10:31	68.6
12/9/2011 11:01	69.1
12/9/2011 11:31	66.4
12/9/2011 12:01	65.3
12/9/2011 12:31	63.8
12/9/2011 13:01	70.6
12/9/2011 13:31	71.0
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12/9/2011 14:31	66.7
12/9/2011 15:01	70.2
12/9/2011 15:31	65.7
12/9/2011 16:01	65.9
12/9/2011 16:31	69.6
12/9/2011 17:01	66.8
12/9/2011 17:31	64.6
12/9/2011 18:01	63.8
12/9/2011 18:31	63.0
14/9/2011 7:01	64.6
14/9/2011 7:31	65.3
14/9/2011 8:01	66.1
14/9/2011 8:31	71.0
14/9/2011 9:01	69.7
14/9/2011 9:31	68.2
14/9/2011 10:01	68.1
14/9/2011 10:31	72.5
14/9/2011 11:01	70.1
14/9/2011 11:31	67.3
14/9/2011 12:01	65.1
14/9/2011 12:31	65.0
14/9/2011 13:01	68.7
14/9/2011 13:31	69.4
14/9/2011 14:01	69.2
14/9/2011 14:31	66.5
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14/9/2011 15:31	67.7
14/9/2011 16:01	65.2
14/9/2011 16:31	66.7
14/9/2011 17:01	66.1
14/9/2011 17:31	66.8
14/9/2011 18:01	65.4
14/9/2011 18:31	64.6
15/9/2011 7:01	64.4
15/9/2011 7:31	65.7
15/9/2011 8:01	65.3
15/9/2011 8:31	67.6
15/9/2011 9:01	71.0
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15/9/2011 10:01	69.4
15/9/2011 10:31	69.4
15/9/2011 11:01	69.3
15/9/2011 11:31	67.2
15/9/2011 12:01	65.2
15/9/2011 12:31	65.1
15/9/2011 13:01	66.7
15/9/2011 13:31	68.5
15/9/2011 14:01	68.9
15/9/2011 14:31	66.5
15/9/2011 15:01	68.0
15/9/2011 15:31	68.4
15/9/2011 16:01	68.4
15/9/2011 16:31	70.0
15/9/2011 17:01	68.1
15/9/2011 17:31	65.5
15/9/2011 18:01	65.5
15/9/2011 18:31	65.4
16/9/2011 7:01	65.4
16/9/2011 7:31	65.0
16/9/2011 8:01	64.5
16/9/2011 8:31	68.1
16/9/2011 9:01	66.8
16/9/2011 9:31	65.8
16/9/2011 10:01	67.1
16/9/2011 10:31	68.5
16/9/2011 11:01	67.7
16/9/2011 11:31	66.9
16/9/2011 12:01	65.7
16/9/2011 12:31	64.6
16/9/2011 13:01	66.9
16/9/2011 13:31	70.0
16/9/2011 14:01	67.8
16/9/2011 14:31	67.5
16/9/2011 15:01	67.0
16/9/2011 15:31	65.7
16/9/2011 16:01	67.3
16/9/2011 16:31	65.3
16/9/2011 17:01	65.0
16/9/2011 17:31	65.2
16/9/2011 18:01	64.9
16/9/2011 18:31	62.8
17/9/2011 7:01	64.4
17/9/2011 7:31	65.9
17/9/2011 8:01	66.5
17/9/2011 8:31	67.0
17/9/2011 9:01	67.7
17/9/2011 9:31	67.0
17/9/2011 10:01	66.9
17/9/2011 10:31	66.2
17/9/2011 11:01	66.3
17/9/2011 11:31	65.4
17/9/2011 12:01	64.8
17/9/2011 12:31	64.8
17/9/2011 13:01	65.3
17/9/2011 13:31	65.6
17/9/2011 14:01	65.6
17/9/2011 14:31	65.7
17/9/2011 15:01	65.6
17/9/2011 15:31	65.1
17/9/2011 16:01	67.4
17/9/2011 16:31	67.2
17/9/2011 17:01	66.2
17/9/2011 17:31	64.6
17/9/2011 18:01	64.5
17/9/2011 18:31	64.0
19/9/2011 7:01	64.9
19/9/2011 7:31	65.0
19/9/2011 8:01	64.7
19/9/2011 8:31	65.4
19/9/2011 9:01	64.9
19/9/2011 9:31	67.4
19/9/2011 10:01	67.7
19/9/2011 10:31	67.6
19/9/2011 11:01	67.2
19/9/2011 11:31	66.2
19/9/2011 12:01	65.5
19/9/2011 12:31	65.3
19/9/2011 13:01	66.6
19/9/2011 13:31	65.9
19/9/2011 14:01	66.4
19/9/2011 14:31	68.3
19/9/2011 15:01	70.6
19/9/2011 15:31	66.4
19/9/2011 16:01	66.6
19/9/2011 16:31	67.2
19/9/2011 17:01	66.7
19/9/2011 17:31	66.7
19/9/2011 18:01	64.5
19/9/2011 18:31	65.4
20/9/2011 7:01	65.5
20/9/2011 7:31	65.4
20/9/2011 8:01	65.2
20/9/2011 8:31	69.8
20/9/2011 9:01	68.7
20/9/2011 9:31	69.1
20/9/2011 10:01	64.6
20/9/2011 10:31	72.3
20/9/2011 11:01	72.9
20/9/2011 11:31	68.0
20/9/2011 12:01	66.4
20/9/2011 12:31	65.8
20/9/2011 13:01	68.8
20/9/2011 13:31	68.4
20/9/2011 14:01	69.2
20/9/2011 14:31	68.9
20/9/2011 15:01	67.8
20/9/2011 15:31	67.0
20/9/2011 16:01	67.1
20/9/2011 16:31	68.9
20/9/2011 17:01	71.9
20/9/2011 17:31	68.7
20/9/2011 18:01	65.4
20/9/2011 18:31	65.7
21/9/2011 7:01	65.2
21/9/2011 7:31	65.7
21/9/2011 8:01	66.3
21/9/2011 8:31	70.5
21/9/2011 9:01	69.5
21/9/2011 9:31	68.8
21/9/2011 10:01	68.0
21/9/2011 10:31	70.9
21/9/2011 11:01	70.4
21/9/2011 11:31	68.2
21/9/2011 12:01	66.3
21/9/2011 12:31	65.9
21/9/2011 13:01	68.6
21/9/2011 13:31	72.7
21/9/2011 14:01	72.3
21/9/2011 14:31	69.8
21/9/2011 15:01	66.2
21/9/2011 15:31	69.4
21/9/2011 16:01	71.8
21/9/2011 16:31	71.7
21/9/2011 17:01	70.1
21/9/2011 17:31	66.5
21/9/2011 18:01	65.3
21/9/2011 18:31	64.7
22/9/2011 7:01	65.7
22/9/2011 7:31	65.8
22/9/2011 8:01	66.4
22/9/2011 8:31	71.6
22/9/2011 9:01	71.9
22/9/2011 9:31	69.1
22/9/2011 10:01	67.9
22/9/2011 10:31	69.9
22/9/2011 11:01	70.0
22/9/2011 11:31	66.9
22/9/2011 12:01	66.3
22/9/2011 12:31	65.9
22/9/2011 13:01	70.5
22/9/2011 13:31	72.4
22/9/2011 14:01	70.6
22/9/2011 14:31	69.1
22/9/2011 15:01	70.7
22/9/2011 15:31	67.3
22/9/2011 16:01	68.8
22/9/2011 16:31	69.2
22/9/2011 17:01	69.4
22/9/2011 17:31	66.9
22/9/2011 18:01	64.9
22/9/2011 18:31	65.0
23/9/2011 7:01	64.6
23/9/2011 7:31	65.6
23/9/2011 8:01	66.1
23/9/2011 8:31	69.3
23/9/2011 9:01	68.3
23/9/2011 9:31	68.7
23/9/2011 10:01	70.7
23/9/2011 10:31	70.7
23/9/2011 11:01	70.6
23/9/2011 11:31	68.0
23/9/2011 12:01	66.7
23/9/2011 12:31	66.2
23/9/2011 13:01	71.2
23/9/2011 13:31	72.0
23/9/2011 14:01	70.0
23/9/2011 14:31	69.5
23/9/2011 15:01	71.4
23/9/2011 15:31	68.0
23/9/2011 16:01	69.3
23/9/2011 16:31	69.4
23/9/2011 17:01	69.7
23/9/2011 17:31	67.7
23/9/2011 18:01	65.2
23/9/2011 18:31	64.2
24/9/2011 7:01	64.6
24/9/2011 7:31	65.3
24/9/2011 8:01	66.0
24/9/2011 8:31	69.7
24/9/2011 9:01	70.1
24/9/2011 9:31	69.3
24/9/2011 10:01	70.8
24/9/2011 10:31	70.5
24/9/2011 11:01	70.7
24/9/2011 11:31	67.2
24/9/2011 12:01	66.0
24/9/2011 12:31	65.7
24/9/2011 13:01	72.8
24/9/2011 13:31	72.2
24/9/2011 14:01	70.1
24/9/2011 14:31	69.9
24/9/2011 15:01	70.4
24/9/2011 15:31	68.3
24/9/2011 16:01	68.8
24/9/2011 16:31	70.1
24/9/2011 17:01	70.4
24/9/2011 17:31	66.9
24/9/2011 18:01	65.0
24/9/2011 18:31	64.2
26/9/2011 7:01	64.5
26/9/2011 7:31	65.0
26/9/2011 8:01	66.1
26/9/2011 8:31	70.4
26/9/2011 9:01	69.9
26/9/2011 9:31	69.0
26/9/2011 10:01	70.8
26/9/2011 10:31	71.1
26/9/2011 11:01	71.1
26/9/2011 11:31	67.8
26/9/2011 12:01	66.5
26/9/2011 12:31	66.1
26/9/2011 13:01	72.2
26/9/2011 13:31	72.7
26/9/2011 14:01	70.7
26/9/2011 14:31	69.3
26/9/2011 15:01	71.6
26/9/2011 15:31	68.0
26/9/2011 16:01	69.6
26/9/2011 16:31	70.1
26/9/2011 17:01	70.4
26/9/2011 17:31	67.1
26/9/2011 18:01	65.0
26/9/2011 18:31	64.3
27/9/2011 7:01	65.4
27/9/2011 7:31	65.8
27/9/2011 8:01	66.3
27/9/2011 8:31	66.1
27/9/2011 9:01	68.0
27/9/2011 9:31	69.7
27/9/2011 10:01	68.8
27/9/2011 10:31	68.5
27/9/2011 11:01	67.8
27/9/2011 11:31	69.2
27/9/2011 12:01	65.7
27/9/2011 12:31	64.2
27/9/2011 13:01	66.3
27/9/2011 13:31	71.0
27/9/2011 14:01	69.2
27/9/2011 14:31	68.2
27/9/2011 15:01	68.5
27/9/2011 15:31	67.0
27/9/2011 16:01	67.4
27/9/2011 16:31	70.9
27/9/2011 17:01	67.2
27/9/2011 17:31	66.2
27/9/2011 18:01	65.0
27/9/2011 18:31	64.8

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

28/8/2011 7:01	62.4
28/8/2011 7:06	63.0
28/8/2011 7:11	63.2
28/8/2011 7:16	62.9
28/8/2011 7:21	63.2
28/8/2011 7:26	63.4
28/8/2011 7:31	63.0
28/8/2011 7:36	62.9
28/8/2011 7:41	63.8
28/8/2011 7:46	63.3
28/8/2011 7:51	65.6
28/8/2011 7:56	64.0
28/8/2011 8:01	63.7
28/8/2011 8:06	63.8
28/8/2011 8:11	63.7
28/8/2011 8:16	64.0
28/8/2011 8:21	63.6
28/8/2011 8:26	64.1
28/8/2011 8:31	63.5
28/8/2011 8:36	64.9
28/8/2011 8:41	63.7
28/8/2011 8:46	64.9
28/8/2011 8:51	64.1
28/8/2011 8:56	64.9
28/8/2011 9:01	64.1
28/8/2011 9:06	64.4
28/8/2011 9:11	66.4
28/8/2011 9:16	64.5
28/8/2011 9:21	64.3
28/8/2011 9:26	64.4
28/8/2011 9:31	64.6
28/8/2011 9:36	64.6
28/8/2011 9:41	65.2
28/8/2011 9:46	64.6
28/8/2011 9:51	64.6
28/8/2011 9:56	64.2
28/8/2011 10:01	64.8
28/8/2011 10:06	65.3
28/8/2011 10:11	64.9
28/8/2011 10:16	65.1
28/8/2011 10:21	64.8
28/8/2011 10:26	64.5
28/8/2011 10:31	67.7
28/8/2011 10:36	64.9
28/8/2011 10:41	64.6
28/8/2011 10:46	64.4
28/8/2011 10:51	64.9
28/8/2011 10:56	64.5
28/8/2011 11:01	65.0
28/8/2011 11:06	64.6
28/8/2011 11:11	64.9
28/8/2011 11:16	64.7
28/8/2011 11:21	64.8
28/8/2011 11:26	64.9
28/8/2011 11:31	64.3
28/8/2011 11:36	64.3

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

28/8/2011 11:41	64.4	28/8/2011 20:51	63.8	30/8/2011 22:01	63.5	2/9/2011 19:11	63.6	4/9/2011 8:21	64.3	4/9/2011 17:31	66.3
28/8/2011 11:46	64.5	28/8/2011 20:56	63.2	30/8/2011 22:06	63.6	2/9/2011 19:16	62.3	4/9/2011 8:26	64.3	4/9/2011 17:36	66.7
28/8/2011 11:51	64.6	28/8/2011 21:01	63.7	30/8/2011 22:11	63.4	2/9/2011 19:21	62.8	4/9/2011 8:31	64.5	4/9/2011 17:41	65.0
28/8/2011 11:56	64.6	28/8/2011 21:06	63.8	30/8/2011 22:16	63.8	2/9/2011 19:26	63.0	4/9/2011 8:36	64.4	4/9/2011 17:46	64.3
28/8/2011 12:01	64.1	28/8/2011 21:11	63.6	30/8/2011 22:21	64.0	2/9/2011 19:31	64.1	4/9/2011 8:41	63.9	4/9/2011 17:51	64.3
28/8/2011 12:06	64.6	28/8/2011 21:16	64.1	30/8/2011 22:26	63.3	2/9/2011 19:36	64.0	4/9/2011 8:46	64.9	4/9/2011 17:56	64.4
28/8/2011 12:11	64.3	28/8/2011 21:21	63.5	30/8/2011 22:31	63.7	2/9/2011 19:41	64.8	4/9/2011 8:51	64.8	4/9/2011 18:01	65.2
28/8/2011 12:16	64.5	28/8/2011 21:26	63.4	30/8/2011 22:36	63.5	2/9/2011 19:46	63.8	4/9/2011 8:56	64.6	4/9/2011 18:06	65.0
28/8/2011 12:21	63.6	28/8/2011 21:31	63.6	30/8/2011 22:41	63.7	2/9/2011 19:51	64.3	4/9/2011 9:01	65.6	4/9/2011 18:11	65.2
28/8/2011 12:26	63.8	28/8/2011 21:36	64.1	30/8/2011 22:46	63.0	2/9/2011 19:56	63.9	4/9/2011 9:06	65.0	4/9/2011 18:16	65.6
28/8/2011 12:31	64.5	28/8/2011 21:41	63.7	30/8/2011 22:51	63.5	2/9/2011 20:01	65.2	4/9/2011 9:11	65.4	4/9/2011 18:21	65.0
28/8/2011 12:36	63.0	28/8/2011 21:46	63.7	30/8/2011 22:56	63.5	2/9/2011 20:06	64.8	4/9/2011 9:16	65.0	4/9/2011 18:26	65.4
28/8/2011 12:41	63.2	28/8/2011 21:51	64.3	31/8/2011 19:01	65.1	2/9/2011 20:11	64.2	4/9/2011 9:21	64.6	4/9/2011 18:31	65.6
28/8/2011 12:46	63.4	28/8/2011 21:56	63.6	31/8/2011 19:06	65.0	2/9/2011 20:16	65.2	4/9/2011 9:26	64.7	4/9/2011 18:36	64.6
28/8/2011 12:51	63.4	28/8/2011 22:01	63.6	31/8/2011 19:11	65.3	2/9/2011 20:21	64.7	4/9/2011 9:31	65.4	4/9/2011 18:41	65.1
28/8/2011 12:56	64.0	28/8/2011 22:06	63.9	31/8/2011 19:16	64.8	2/9/2011 20:26	64.7	4/9/2011 9:36	65.4	4/9/2011 18:46	65.0
28/8/2011 13:01	64.9	28/8/2011 22:11	63.5	31/8/2011 19:21	66.0	2/9/2011 20:31	64.7	4/9/2011 9:41	65.2	4/9/2011 18:51	64.3
28/8/2011 13:06	64.5	28/8/2011 22:16	63.8	31/8/2011 19:26	64.3	2/9/2011 20:36	65.5	4/9/2011 9:46	65.2	4/9/2011 18:56	64.7
28/8/2011 13:11	64.8	28/8/2011 22:21	63.8	31/8/2011 19:31	65.2	2/9/2011 20:41	64.3	4/9/2011 9:51	65.3	4/9/2011 19:01	63.9
28/8/2011 13:16	64.5	28/8/2011 22:26	64.3	31/8/2011 19:36	65.8	2/9/2011 20:46	64.8	4/9/2011 9:56	65.3	4/9/2011 19:06	65.2
28/8/2011 13:21	64.6	28/8/2011 22:31	63.5	31/8/2011 19:41	65.2	2/9/2011 20:51	65.5	4/9/2011 10:01	65.7	4/9/2011 19:11	66.1
28/8/2011 13:26	64.7	28/8/2011 22:36	63.7	31/8/2011 19:46	65.2	2/9/2011 20:56	63.8	4/9/2011 10:06	65.1	4/9/2011 19:16	66.4
28/8/2011 13:31	64.7	28/8/2011 22:41	64.1	31/8/2011 19:51	65.0	2/9/2011 21:01	64.6	4/9/2011 10:11	65.2	4/9/2011 19:21	66.0
28/8/2011 13:36	64.3	28/8/2011 22:46	63.9	31/8/2011 19:56	65.4	2/9/2011 21:06	64.4	4/9/2011 10:16	65.6	4/9/2011 19:26	65.9
28/8/2011 13:41	64.0	28/8/2011 22:51	63.7	31/8/2011 20:01	66.2	2/9/2011 21:11	64.3	4/9/2011 10:21	65.1	4/9/2011 19:31	65.3
28/8/2011 13:46	64.8	28/8/2011 22:56	64.1	31/8/2011 20:06	64.9	2/9/2011 21:16	64.1	4/9/2011 10:26	63.7	4/9/2011 19:36	64.3
28/8/2011 13:51	65.1	29/8/2011 19:01	64.8	31/8/2011 20:11	64.8	2/9/2011 21:21	64.3	4/9/2011 10:31	64.5	4/9/2011 19:41	63.9
28/8/2011 13:56	64.5	29/8/2011 19:06	65.3	31/8/2011 20:16	65.4	2/9/2011 21:26	65.0	4/9/2011 10:36	64.1	4/9/2011 19:46	64.5
28/8/2011 14:01	66.3	29/8/2011 19:11	66.0	31/8/2011 20:21	65.1	2/9/2011 21:31	64.7	4/9/2011 10:41	63.4	4/9/2011 19:51	65.0
28/8/2011 14:06	64.7	29/8/2011 19:16	65.3	31/8/2011 20:26	64.9	2/9/2011 21:36	64.2	4/9/2011 10:46	65.3	4/9/2011 19:56	64.4
28/8/2011 14:11	65.0	29/8/2011 19:21	65.1	31/8/2011 20:31	65.6	2/9/2011 21:41	64.3	4/9/2011 10:51	62.6	4/9/2011 20:01	64.1
28/8/2011 14:16	64.7	29/8/2011 19:26	64.9	31/8/2011 20:36	64.3	2/9/2011 21:46	64.6	4/9/2011 10:56	63.2	4/9/2011 20:06	65.1
28/8/2011 14:21	64.8	29/8/2011 19:31	65.0	31/8/2011 20:41	65.0	2/9/2011 21:51	64.2	4/9/2011 11:01	63.2	4/9/2011 20:11	64.4
28/8/2011 14:26	64.8	29/8/2011 19:36	65.6	31/8/2011 20:46	64.2	2/9/2011 21:56	64.5	4/9/2011 11:06	63.8	4/9/2011 20:16	63.8
28/8/2011 14:31	65.0	29/8/2011 19:41	65.2	31/8/2011 20:51	64.7	2/9/2011 22:01	63.9	4/9/2011 11:11	62.9	4/9/2011 20:21	63.4
28/8/2011 14:36	64.4	29/8/2011 19:46	64.7	31/8/2011 20:56	64.5	2/9/2011 22:06	64.3	4/9/2011 11:16	63.8	4/9/2011 20:26	63.8
28/8/2011 14:41	65.6	29/8/2011 19:51	64.9	31/8/2011 21:01	64.2	2/9/2011 22:11	63.9	4/9/2011 11:21	63.9	4/9/2011 20:31	63.8
28/8/2011 14:46	65.0	29/8/2011 19:56	64.7	31/8/2011 21:06	64.5	2/9/2011 22:16	64.2	4/9/2011 11:26	62.9	4/9/2011 20:36	64.4
28/8/2011 14:51	65.4	29/8/2011 20:01	65.1	31/8/2011 21:11	64.5	2/9/2011 22:21	63.5	4/9/2011 11:31	63.2	4/9/2011 20:41	63.0
28/8/2011 14:56	65.2	29/8/2011 20:06	65.4	31/8/2011 21:16	64.3	2/9/2011 22:26	63.7	4/9/2011 11:36	63.0	4/9/2011 20:46	63.7
28/8/2011 15:01	63.7	29/8/2011 20:11	64.9	31/8/2011 21:21	64.9	2/9/2011 22:31	63.8	4/9/2011 11:41	62.7	4/9/2011 20:51	63.7
28/8/2011 15:06	64.9	29/8/2011 20:16	64.8	31/8/2011 21:26	64.7	2/9/2011 22:36	64.5	4/9/2011 11:46	63.8	4/9/2011 20:56	63.8
28/8/2011 15:11	64.1	29/8/2011 20:21	64.2	31/8/2011 21:31	65.4	2/9/2011 22:41	64.0	4/9/2011 11:51	62.8	4/9/2011 21:01	63.9
28/8/2011 15:16	64.1	29/8/2011 20:26	64.5	31/8/2011 21:36	65.3	2/9/2011 22:46	64.0	4/9/2011 11:56	62.9	4/9/2011 21:06	65.0
28/8/2011 15:21	63.3	29/8/2011 20:31	64.7	31/8/2011 21:41	65.0	2/9/2011 22:51	64.0	4/9/2011 12:01	62.5	4/9/2011 21:11	64.0
28/8/2011 15:26	63.5	29/8/2011 20:36	64.4	31/8/2011 21:46	64.6	2/9/2011 22:56	63.8	4/9/2011 12:06	63.0	4/9/2011 21:16	63.5
28/8/2011 15:31	63.7	29/8/2011 20:41	64.2	31/8/2011 21:51	64.6	3/9/2011 19:01	63.8	4/9/2011 12:11	62.5	4/9/2011 21:21	63.9
28/8/2011 15:36	63.6	29/8/2011 20:46	64.5	31/8/2011 21:56	65.0	3/9/2011 19:06	63.8	4/9/2011 12:16	63.0	4/9/2011 21:26	65.9
28/8/2011 15:41	64.1	29/8/2011 20:51	64.4	31/8/2011 22:01	64.8	3/9/2011 19:11	64.1	4/9/2011 12:21	62.5	4/9/2011 21:31	63.9
28/8/2011 15:46	63.6	29/8/2011 20:56	65.3	31/8/2011 22:06	64.7	3/9/2011 19:16	64.4	4/9/2011 12:26	62.2	4/9/2011 21:36	63.9
28/8/2011 15:51	63.6	29/8/2011 21:01	64.8	31/8/2011 22:11	64.0	3/9/2011 19:21	64.7	4/9/2011 12:31	63.0	4/9/2011 21:41	63.9
28/8/2011 15:56	64.7	29/8/2011 21:06	64.4	31/8/2011 22:16	64.3	3/9/2011 19:26	65.5	4/9/2011 12:36	63.5	4/9/2011 21:46	63.8
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28/8/2011 17:41	64.9	29/8/2011 22:51	63.7	1/9/2011 20:01	64.9	3/9/2011 21:11	64.1	4/9/2011 14:21	64.7	5/9/2011 19:26	63.7
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28/8/2011 19:06	63.7	30/8/2011 20:16	64.8	1/9/2011 21:26	64.1	3/9/2011 22:36	63.6	4/9/2011 15:46	64.1	5/9/2011 20:51	64.6
28/8/2011 19:11	63.7	30/8/2011 20:21	64.6	1/9/2011 21:31	64.5	3/9/2011 22:41	62.7	4/9/2011 15:51	64.7	5/9/2011 20:56	64.6
28/8/2011 19:16	64.0	30/8/2011 20:26	64.5	1/9/2011 21:36	64.6	3/9/2011 22:46	62.9	4/9/2011 15:56	63.7	5/9/2011 21:01	64.3
28/8/2011 19:21	64.0	30/8/2011 20:31	64.0	1/9/2011 21:41	64.2	3/9/2011 22:51	62.7	4/9/2011 16:01	64.2	5/9/2011 21:06	64.4
28/8/2011 19:26	64.3	30/8/2011 20:36	64.1	1/9/2011 21:46	63.9	3/9/2011 22:56	63.4	4/9/2011 16:06	64.2	5/9/2011 21:11	65.8
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28/8/2011 19:51	64.9	30/8/2011 21:01	64.0	1/9/2011 22:11	64.2	4/9/2011 7:21	63.6	4/9/2011 16:31	64.2	5/9/2011 21:36	63.9
28/8/2011 19:56	64.1	30/8/2011 21:06	64.2	1/9/2011 22:16	64.2	4/9/2011 7:26	62.8	4/9/2011 16:36	64.8	5/9/2011 21:41	63.8
28/8/2011 20:01	63.5	30/8/2011 21:11	63.6	1/9/2011 22:21	64.3	4/9/2011 7:31	62.8	4/9/2011 16:41	64.5	5/9/2011 21:46	64.3
28/8/2011 20:06	64.4	30/8/2011 21:16	63.7	1/9/2011 22:26	64.4	4/9/2011 7:36	63.5	4/9/2011 16:46	64.7	5/9/2011 21:51	63.8
28/8/2011 20:11	64.5	30/8/2011 21:21	64.5	1/9/2011 22:31	63.5	4/9/2011 7:41	67.6	4/9/2011 16:51	65.8	5/9/2011 21:56	64.5
28/8/2011 20:16	63.9	30/8/2011 21:26	63.9	1/9/2011 22:36	64.7	4/9/2011 7:46	65.4	4/9/2011 16:56	64.9	5/9/2011 22:01	64.3
28/8/2011 20:21	63.9	30/8/2011 21:31	63.7	1/9/2011 22:41	63.7	4/9/2011 7:51	64.0	4/9/2011 17:01	65.6	5/9/2011 22:06	63.8
28/8/2011 20:26	63.1	30/8/2011 21:36	64.6	1/9/2011 22:46	63.4	4/9/2011 7:56	64.6	4/9/2011 17:06	65.5	5/9/2011 22:11	64.5
28/8/2011 20:31	63.5	30/8/2011 21:41	63.8	1/9/2011 22:51	64.0	4/9/2011 8:01	65.2	4/9/2011 17:11	65.5	5/9/2011 22:16	63.6
28/8/2011 20:36	64.3	30/8/2011 21:46	64.1	1/9/2011 22:56	64.0	4/9/2011 8:06	63.3	4/9/2011 17:16	65.1	5/9/2011 22:21	63.6
28/8/2011 20:41	63.7	30/8/2011 21:51	63.6	2/9/2011 19:01	64.8	4/9/2011 8:11	64.3	4/9/2011 17:21	65.7	5/9/2011 22:26	63.9
28/8/2011 20:46	63.4	30/8/2011 21:56	63.6	2/9/2011 19:06	62.3	4/9/2011 8:16	63.6	4/9/2011 17:26	65.8	5/9/2011 22:31	63.5

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

5/9/2011 22:36	64.2	8/9/2011 19:46	65.2	10/9/2011 20:56	63.7	11/9/2011 14:06	64.0	12/9/2011 19:16	63.2	13/9/2011 12:26	63.6
5/9/2011 22:41	63.8	8/9/2011 19:51	64.2	10/9/2011 21:01	64.4	11/9/2011 14:11	64.1	12/9/2011 19:21	63.2	13/9/2011 12:31	63.8
5/9/2011 22:46	63.8	8/9/2011 19:56	65.0	10/9/2011 21:06	64.3	11/9/2011 14:16	63.8	12/9/2011 19:26	64.4	13/9/2011 12:36	63.4
5/9/2011 22:51	64.7	8/9/2011 20:01	65.9	10/9/2011 21:11	63.3	11/9/2011 14:21	64.4	12/9/2011 19:31	64.0	13/9/2011 12:41	63.1
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7/9/2011 22:01	64.4	10/9/2011 19:11	63.0	11/9/2011 12:21	64.2	11/9/2011 21:31	63.4	13/9/2011 10:41	64.0	13/9/2011 19:51	64.0
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7/9/2011 22:16	63.7	10/9/2011 19:26	64.4	11/9/2011 12:36	63.4	11/9/2011 21:46	62.7	13/9/2011 10:56	64.1	13/9/2011 20:06	65.6
7/9/2011 22:21	63.8	10/9/2011 19:31	64.0	11/9/2011 12:41	63.1	11/9/2011 21:51	62.9	13/9/2011 11:01	64.6	13/9/2011 20:11	64.0
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7/9/2011 22:31	63.7	10/9/2011 19:41	65.0	11/9/2011 12:51	63.4	11/9/2011 22:01	62.8	13/9/2011 11:11	64.0	13/9/2011 20:21	63.7
7/9/2011 22:36	64.1	10/9/2011 19:46	64.7	11/9/2011 12:56	64.8	11/9/2011 22:06	62.3	13/9/2011 11:16	63.7	13/9/2011 20:26	63.5
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7/9/2011 22:46	63.3	10/9/2011 19:56	64.4	11/9/2011 13:06	65.2	11/9/2011 22:16	62.2	13/9/2011 11:26	64.1	13/9/2011 20:36	63.5
7/9/2011 22:51	63.8	10/9/2011 20:01	65.0	11/9/2011 13:11	65.2	11/9/2011 22:21	63.0	13/9/2011 11:31	64.0	13/9/2011 20:41	63.4
7/9/2011 22:56	63.4	10/9/2011 20:06	65.2	11/9/2011 13:16	64.8	11/9/2011 22:26	62.6	13/9/2011 11:36	63.5	13/9/2011 20:46	63.5
8/9/2011 19:01	64.4	10/9/2011 20:11	64.5	11/9/2011 13:21	65.3	11/9/2011 22:31	62.3	13/9/2011 11:41	63.7	13/9/2011 20:51	63.5
8/9/2011 19:06	63.2	10/9/2011 20:16	64.4	11/9/2011 13:26	64.9	11/9/2011 22:36	63.7	13/9/2011 11:46	63.8	13/9/2011 20:56	63.6
8/9/2011 19:11	62.5	10/9/2011 20:21	64.0	11/9/2011 13:31	64.5	11/9/2011 22:41	63.5	13/9/2011 11:51	63.6	13/9/2011 21:01	63.9
8/9/2011 19:16	62.6	10/9/2011 20:26	64.9	11/9/2011 13:36	64.5	11/9/2011 22:46	62.9	13/9/2011 11:56	63.6	13/9/2011 21:06	63.8
8/9/2011 19:21	62.4	10/9/2011 20:31	63.9	11/9/2011 13:41	64.3	11/9/2011 22:51	65.8	13/9/2011 12:01	63.4	13/9/2011 21:11	63.4
8/9/2011 19:26	63.3	10/9/2011 20:36	64.4	11/9/2011 13:46	64.4	11/9/2011 22:56	54.1	13/9/2011 12:06	64.8	13/9/2011 21:16	63.3
8/9/2011 19:31	63.9	10/9/2011 20:41	65.3	11/9/2011 13:51	64.1	12/9/2011 19:01	62.6	13/9/2011 12:11	64.2	13/9/2011 21:21	63.4
8/9/2011 19:36	63.4	10/9/2011 20:46	63.7	11/9/2011 13:56	63.9	12/9/2011 19:06	62.3	13/9/2011 12:16	64.0	13/9/2011 21:26	63.8
8/9/2011 19:41	64.7	10/9/2011 20:51	64.0	11/9/2011 14:01	64.1	12/9/2011 19:11	63.0	13/9/2011 12:21	64.2	13/9/2011 21:31	63.4

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

13/9/2011 21:36	62.2	15/9/2011 22:46	63.5	18/9/2011 7:56	63.2	18/9/2011 17:06	65.3	19/9/2011 22:16	65.0	22/9/2011 19:26	65.0
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13/9/2011 21:46	62.7	15/9/2011 22:56	63.6	18/9/2011 8:06	62.8	18/9/2011 17:16	64.5	19/9/2011 22:26	64.2	22/9/2011 19:36	65.3
13/9/2011 21:51	62.9	16/9/2011 19:01	62.5	18/9/2011 8:11	63.7	18/9/2011 17:21	65.1	19/9/2011 22:31	64.2	22/9/2011 19:41	65.3
13/9/2011 21:56	63.1	16/9/2011 19:06	63.7	18/9/2011 8:16	63.2	18/9/2011 17:26	65.0	19/9/2011 22:36	65.2	22/9/2011 19:46	65.0
13/9/2011 22:01	62.8	16/9/2011 19:11	64.8	18/9/2011 8:21	63.3	18/9/2011 17:31	64.6	19/9/2011 22:41	64.7	22/9/2011 19:51	65.5
13/9/2011 22:06	62.3	16/9/2011 19:16	65.8	18/9/2011 8:26	63.9	18/9/2011 17:36	65.3	19/9/2011 22:46	63.8	22/9/2011 19:56	65.1
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13/9/2011 22:31	62.3	16/9/2011 19:41	64.6	18/9/2011 8:51	64.1	18/9/2011 18:01	64.1	20/9/2011 19:11	65.1	22/9/2011 20:21	65.0
13/9/2011 22:36	63.7	16/9/2011 19:46	63.8	18/9/2011 8:56	64.2	18/9/2011 18:06	64.7	20/9/2011 19:16	65.8	22/9/2011 20:26	64.6
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14/9/2011 19:11	64.7	16/9/2011 20:21	64.9	18/9/2011 9:31	65.3	18/9/2011 18:41	64.4	20/9/2011 19:51	65.6	22/9/2011 21:01	65.0
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14/9/2011 19:26	64.7	16/9/2011 20:36	64.8	18/9/2011 9:46	64.8	18/9/2011 18:56	64.2	20/9/2011 20:06	65.5	22/9/2011 21:16	64.9
14/9/2011 19:31	65.1	16/9/2011 20:41	64.5	18/9/2011 9:51	64.9	18/9/2011 19:01	64.2	20/9/2011 20:11	65.8	22/9/2011 21:21	65.0
14/9/2011 19:36	67.3	16/9/2011 20:46	64.9	18/9/2011 9:56	64.7	18/9/2011 19:06	64.5	20/9/2011 20:16	66.9	22/9/2011 21:26	65.3
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14/9/2011 19:46	65.0	16/9/2011 20:56	64.2	18/9/2011 10:06	64.1	18/9/2011 19:16	64.1	20/9/2011 20:26	65.4	22/9/2011 21:36	64.7
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14/9/2011 20:16	64.8	16/9/2011 21:26	64.6	18/9/2011 10:36	64.8	18/9/2011 19:46	64.2	20/9/2011 20:56	65.2	22/9/2011 22:06	64.4
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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24/9/2011 22:11	63.4
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Night-time 23:00-07:00

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31/8/2011 4:11	58.2
31/8/2011 4:16	58.2
31/8/2011 4:21	59.0

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

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31/8/2011 4:31	58.7	1/9/2011 5:41	59.9	2/9/2011 6:51	64.2	4/9/2011 0:01	64.0	5/9/2011 1:11	60.5	6/9/2011 2:21	59.0
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31/8/2011 4:41	58.3	1/9/2011 5:51	60.9	2/9/2011 23:01	64.2	4/9/2011 0:11	63.5	5/9/2011 1:21	60.5	6/9/2011 2:31	59.1
31/8/2011 4:46	58.2	1/9/2011 5:56	59.9	2/9/2011 23:06	63.8	4/9/2011 0:16	63.4	5/9/2011 1:26	59.6	6/9/2011 2:36	58.7
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31/8/2011 5:01	58.4	1/9/2011 6:11	61.5	2/9/2011 23:21	63.8	4/9/2011 0:31	63.8	5/9/2011 1:41	59.9	6/9/2011 2:51	59.3
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31/8/2011 5:51	61.8	1/9/2011 23:01	63.7	3/9/2011 0:11	63.2	4/9/2011 1:21	62.0	5/9/2011 2:31	58.9	6/9/2011 3:41	59.3
31/8/2011 5:56	61.5	1/9/2011 23:06	64.1	3/9/2011 0:16	63.3	4/9/2011 1:26	62.1	5/9/2011 2:36	60.0	6/9/2011 3:46	59.5
31/8/2011 6:01	60.9	1/9/2011 23:11	64.4	3/9/2011 0:21	63.5	4/9/2011 1:31	61.2	5/9/2011 2:41	59.5	6/9/2011 3:51	59.0
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31/8/2011 6:11	61.8	1/9/2011 23:21	64.9	3/9/2011 0:31	63.5	4/9/2011 1:41	62.7	5/9/2011 2:51	58.6	6/9/2011 4:01	58.8
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31/8/2011 6:31	62.7	1/9/2011 23:41	62.9	3/9/2011 0:51	62.1	4/9/2011 2:01	61.5	5/9/2011 3:11	59.0	6/9/2011 4:21	58.4
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31/8/2011 6:46	64.3	1/9/2011 23:56	63.4	3/9/2011 1:06	62.1	4/9/2011 2:16	61.8	5/9/2011 3:26	58.7	6/9/2011 4:36	58.4
31/8/2011 6:51	64.1	2/9/2011 0:01	62.9	3/9/2011 1:11	62.4	4/9/2011 2:21	61.6	5/9/2011 3:31	57.8	6/9/2011 4:41	59.4
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31/8/2011 23:01	64.2	2/9/2011 0:11	63.4	3/9/2011 1:21	62.2	4/9/2011 2:31	61.3	5/9/2011 3:41	58.5	6/9/2011 4:51	58.9
31/8/2011 23:06	63.8	2/9/2011 0:16	61.9	3/9/2011 1:26	61.9	4/9/2011 2:36	62.2	5/9/2011 3:46	59.3	6/9/2011 4:56	59.6
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31/8/2011 23:21	63.5	2/9/2011 0:31	63.3	3/9/2011 1:41	61.6	4/9/2011 2:51	62.1	5/9/2011 4:01	59.1	6/9/2011 5:11	59.4
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1/9/2011 1:56	60.8	2/9/2011 3:06	58.9	3/9/2011 4:16	60.4	4/9/2011 5:26	60.5	5/9/2011 6:36	64.0	6/9/2011 23:46	62.9
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1/9/2011 2:11	60.3	2/9/2011 3:21	59.2	3/9/2011 4:31	60.2	4/9/2011 5:41	60.7	5/9/2011 6:51	64.5	7/9/2011 0:01	63.4
1/9/2011 2:16	60.1	2/9/2011 3:26	58.4	3/9/2011 4:36	61.2	4/9/2011 5:46	61.3	5/9/2011 6:56	65.0	7/9/2011 0:06	63.4
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1/9/2011 2:26	59.6	2/9/2011 3:36	58.3	3/9/2011 4:46	60.3	4/9/2011 5:56	61.1	5/9/2011 23:06	63.4	7/9/2011 0:16	63.1
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1/9/2011 2:41	59.6	2/9/2011 3:51	59.1	3/9/2011 5:01	61.1	4/9/2011 6:11	62.7	5/9/2011 23:21	63.3	7/9/2011 0:31	62.1
1/9/2011 2:46	59.5	2/9/2011 3:56	59.3	3/9/2011 5:06	60.5	4/9/2011 6:16	61.7	5/9/2011 23:26	63.5	7/9/2011 0:36	61.9
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1/9/2011 2:56	60.3	2/9/2011 4:06	60.0	3/9/2011 5:16	60.7	4/9/2011 6:26	62.8	5/9/2011 23:36	63.1	7/9/2011 0:46	62.0
1/9/2011 3:01	59.9	2/9/2011 4:11	59.6	3/9/2011 5:21	60.2	4/9/2011 6:31	62.1	5/9/2011 23:41	63.0	7/9/2011 0:51	61.9
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1/9/2011 3:56	59.4	2/9/2011 5:06	59.8	3/9/2011 6:16	62.9	4/9/2011 23:26	62.8	6/9/2011 0:36	63.3	7/9/2011 1:46	60.2
1/9/2011 4:01	58.2	2/9/2011 5:11	58.2	3/9/2011 6:21	62.5	4/9/2011 23:31	62.6	6/9/2011 0:41	62.3	7/9/2011 1:51	59.8
1/9/2011 4:06	59.4	2/9/2011 5:16	59.0	3/9/2011 6:26	63.4	4/9/2011 23:36	63.1	6/9/2011 0:46	61.5	7/9/2011 1:56	59.8
1/9/2011 4:11	58.7	2/9/2011 5:21	59.1	3/9/2011 6:31	67.5	4/9/2011 23:41	63.1	6/9/2011 0:51	62.8	7/9/2011 2:01	60.0
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1/9/2011 4:41	58.6	2/9/2011 5:51	60.7	3/9/2011 23:01	63.0	5/9/2011 0:11	63.0	6/9/2011 1:21	61.4	7/9/2011 2:31	60.1
1/9/2011 4:46	58.3	2/9/2011 5:56	60.9	3/9/2011 23:06	63.1	5/9/2011 0:16	62.2	6/9/2011 1:26	60.1	7/9/2011 2:36	59.5
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1/9/2011 4:56	58.8	2/9/2011 6:06	61.7	3/9/2011 23:16	64.3	5/9/2011 0:26	62.1	6/9/2011 1:36	61.0	7/9/2011 2:46	59.7
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1/9/2011 5:16	59.1	2/9/2011 6:26	63.2	3/9/2011 23:36	63.8	5/9/2011 0:46	61.6	6/9/2011 1:56	59.9	7/9/2011 3:06	60.9
1/9/2011 5:21	59.5	2/9/2011 6:31	63.5	3/9/2011 23:41	64.1	5/9/2011 0:51	60.6	6/9/2011 2:01	59.8	7/9/2011 3:11	60.7
1/9/2011 5:26	59.3	2/9/2011 6:36	62.7	3/9/2011 23:46	63.3	5/9/2011 0:56	61.6	6/9/2011 2:06	59.7	7/9/2011 3:16	59.0
1/9/2011 5:31	59.4	2/9/2011 6:41	64.6	3/9/2011 23:51	63.8	5/9/2011 1:01	61.2	6/9/2011 2:11	58.8	7/9/2011 3:21	58.3

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

7/9/2011 3:26	59.0	8/9/2011 4:36	59.1	9/9/2011 5:46	60.9	10/9/2011 6:56	63.4	12/9/2011 0:06	63.7	13/9/2011 1:16	61.2
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7/9/2011 3:36	58.6	8/9/2011 4:46	59.0	9/9/2011 5:56	61.0	10/9/2011 23:06	63.7	12/9/2011 0:16	62.4	13/9/2011 1:26	62.0
7/9/2011 3:41	58.6	8/9/2011 4:51	59.3	9/9/2011 6:01	61.1	10/9/2011 23:11	63.6	12/9/2011 0:21	62.6	13/9/2011 1:31	62.0
7/9/2011 3:46	58.6	8/9/2011 4:56	59.5	9/9/2011 6:06	62.4	10/9/2011 23:16	63.8	12/9/2011 0:26	62.1	13/9/2011 1:36	61.8
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7/9/2011 4:06	59.9	8/9/2011 5:16	59.7	9/9/2011 6:26	63.4	10/9/2011 23:36	64.2	12/9/2011 0:46	61.4	13/9/2011 1:56	61.5
7/9/2011 4:11	58.6	8/9/2011 5:21	59.6	9/9/2011 6:31	64.0	10/9/2011 23:41	64.3	12/9/2011 0:51	60.8	13/9/2011 2:01	60.6
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7/9/2011 4:26	59.2	8/9/2011 5:36	60.4	9/9/2011 6:46	64.3	10/9/2011 23:56	63.5	12/9/2011 1:06	61.0	13/9/2011 2:16	60.9
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7/9/2011 4:36	58.3	8/9/2011 5:46	61.0	9/9/2011 6:56	64.7	11/9/2011 0:06	63.1	12/9/2011 1:16	61.0	13/9/2011 2:26	60.2
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7/9/2011 6:01	60.8	8/9/2011 23:11	64.1	10/9/2011 0:21	60.7	11/9/2011 1:31	62.0	12/9/2011 2:41	58.5	13/9/2011 3:51	60.4
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7/9/2011 6:16	62.7	8/9/2011 23:26	63.4	10/9/2011 0:36	60.4	11/9/2011 1:46	61.1	12/9/2011 2:56	58.8	13/9/2011 4:06	60.7
7/9/2011 6:21	62.4	8/9/2011 23:31	64.1	10/9/2011 0:41	59.4	11/9/2011 1:51	61.3	12/9/2011 3:01	58.4	13/9/2011 4:11	60.4
7/9/2011 6:26	62.9	8/9/2011 23:36	63.1	10/9/2011 0:46	59.6	11/9/2011 1:56	61.5	12/9/2011 3:06	58.4	13/9/2011 4:16	59.8
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7/9/2011 6:36	63.7	8/9/2011 23:46	63.2	10/9/2011 0:56	59.1	11/9/2011 2:06	60.8	12/9/2011 3:16	58.2	13/9/2011 4:26	60.6
7/9/2011 6:41	64.2	8/9/2011 23:51	63.0	10/9/2011 1:01	59.5	11/9/2011 2:11	61.0	12/9/2011 3:21	57.4	13/9/2011 4:31	59.9
7/9/2011 6:46	64.0	8/9/2011 23:56	63.8	10/9/2011 1:06	59.1	11/9/2011 2:16	60.9	12/9/2011 3:26	58.2	13/9/2011 4:36	60.2
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7/9/2011 23:11	63.8	9/9/2011 0:21	62.7	10/9/2011 1:31	60.9	11/9/2011 2:41	60.3	12/9/2011 3:51	57.6	13/9/2011 5:01	59.7
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8/9/2011 1:51	61.0	9/9/2011 3:01	59.6	10/9/2011 4:11	58.8	11/9/2011 5:21	59.9	12/9/2011 6:31	63.2	13/9/2011 23:41	63.7
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8/9/2011 2:31	59.8	9/9/2011 3:41	59.3	10/9/2011 4:51	59.0	11/9/2011 6:01	61.0	12/9/2011 23:11	63.6	14/9/2011 0:21	62.6
8/9/2011 2:36	59.5	9/9/2011 3:46	58.5	10/9/2011 4:56	58.8	11/9/2011 6:06	62.3	12/9/2011 23:16	63.8	14/9/2011 0:26	62.1
8/9/2011 2:41	58.5	9/9/2011 3:51	59.8	10/9/2011 5:01	58.9	11/9/2011 6:11	61.5	12/9/2011 23:21	63.3	14/9/2011 0:31	62.1
8/9/2011 2:46	60.0	9/9/2011 3:56	59.3	10/9/2011 5:06	59.6	11/9/2011 6:16	61.8	12/9/2011 23:26	64.1	14/9/2011 0:36	62.1
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8/9/2011 3:11	59.3	9/9/2011 4:21	58.4	10/9/2011 5:31	58.9	11/9/2011 6:41	62.7	12/9/2011 23:51	63.4	14/9/2011 1:01	61.4
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8/9/2011 3:36	58.3	9/9/2011 4:46	58.7	10/9/2011 5:56	60.3	11/9/2011 23:06	65.9	13/9/2011 0:16	62.9	14/9/2011 1:26	60.9
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8/9/2011 3:46	59.2	9/9/2011 4:56	58.9	10/9/2011 6:06	61.8	11/9/2011 23:16	64.7	13/9/2011 0:26	63.1	14/9/2011 1:36	60.0
8/9/2011 3:51	59.1	9/9/2011 5:01	59.5	10/9/2011 6:11	61.1	11/9/2011 23:21	64.6	13/9/2011 0:31	62.6	14/9/2011 1:41	60.5
8/9/2011 3:56	58.2	9/9/2011 5:06	59.9	10/9/2011 6:16	61.5	11/9/2011 23:26	63.9	13/9/2011 0:36	62.6	14/9/2011 1:46	58.8
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8/9/2011 4:21	59.7	9/9/2011 5:31	60.8	10/9/2011 6:41	62.8	11/9/2011 23:51	63.3	13/9/2011 1:01	62.0	14/9/2011 2:11	59.2
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8/9/2011 4:31	59.1	9/9/2011 5:41	60.8	10/9/2011 6:51	63.0	12/9/2011 0:01	63.1	13/9/2011 1:11	62.3	14/9/2011 2:21	58.6

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

14/9/2011 2:26	58.4	15/9/2011 3:36	60.1	16/9/2011 4:46	59.5	17/9/2011 5:56	61.0	18/9/2011 23:06	62.9	20/9/2011 0:16	62.5
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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26/9/2011 6:06	62.3
26/9/2011 6:11	62.2
26/9/2011 6:16	62.7
26/9/2011 6:21	62.5
26/9/2011 6:26	63.1
26/9/2011 6:31	63.3
26/9/2011 6:36	63.7
26/9/2011 6:41	64.3
26/9/2011 6:46	63.9
26/9/2011 6:51	63.9
26/9/2011 6:56	64.0
26/9/2011 23:01	63.4
26/9/2011 23:06	63.5
26/9/2011 23:11	63.8

26/9/2011 23:16	64.1
26/9/2011 23:21	63.7
26/9/2011 23:26	63.6
26/9/2011 23:31	63.2
26/9/2011 23:36	63.5
26/9/2011 23:41	63.9
26/9/2011 23:46	63.2
26/9/2011 23:51	63.3
26/9/2011 23:56	63.3
27/9/2011 0:01	63.4
27/9/2011 0:06	64.4
27/9/2011 0:11	63.4
27/9/2011 0:16	63.5
27/9/2011 0:21	63.0
27/9/2011 0:26	63.2
27/9/2011 0:31	63.1
27/9/2011 0:36	63.2
27/9/2011 0:41	62.7
27/9/2011 0:46	62.5
27/9/2011 0:51	61.4
27/9/2011 0:56	62.0
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27/9/2011 1:06	60.9
27/9/2011 1:11	61.6
27/9/2011 1:16	61.6
27/9/2011 1:21	62.1
27/9/2011 1:26	61.7
27/9/2011 1:31	60.9
27/9/2011 1:36	60.5
27/9/2011 1:41	61.3
27/9/2011 1:46	60.6
27/9/2011 1:51	60.8
27/9/2011 1:56	61.2
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27/9/2011 2:06	60.6
27/9/2011 2:11	60.1
27/9/2011 2:16	60.3
27/9/2011 2:21	60.1
27/9/2011 2:26	59.6
27/9/2011 2:31	60.8
27/9/2011 2:36	59.7
27/9/2011 2:41	60.2
27/9/2011 2:46	60.5
27/9/2011 2:51	60.8
27/9/2011 2:56	60.1
27/9/2011 3:01	59.6
27/9/2011 3:06	59.7
27/9/2011 3:11	59.1
27/9/2011 3:16	59.6
27/9/2011 3:21	59.3
27/9/2011 3:26	58.1
27/9/2011 3:31	59.7
27/9/2011 3:36	59.2
27/9/2011 3:41	59.7
27/9/2011 3:46	61.0
27/9/2011 3:51	59.7
27/9/2011 3:56	59.6
27/9/2011 4:01	59.9
27/9/2011 4:06	59.1
27/9/2011 4:11	59.0
27/9/2011 4:16	59.4
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27/9/2011 4:26	59.5
27/9/2011 4:31	60.4
27/9/2011 4:36	60.0
27/9/2011 4:41	59.3
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27/9/2011 5:46	60.8
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27/9/2011 6:46	64.0
27/9/2011 6:51	65.0
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27/9/2011 23:11	64.1
27/9/2011 23:16	63.1
27/9/2011 23:21	63.8
27/9/2011 23:26	64.0
27/9/2011 23:31	64.2
27/9/2011 23:36	63.8
27/9/2011 23:41	63.8
27/9/2011 23:46	63.9
27/9/2011 23:51	63.6
27/9/2011 23:56	63.6

*Exceedance recorded during monitoring compliance check with NCO

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

Normal Day 07:00-19:00

29/8/2011 7:01	64.2
29/8/2011 7:31	63.6
29/8/2011 8:01	66.8
29/8/2011 8:31	68.0
29/8/2011 9:01	69.0
29/8/2011 9:31	69.4
29/8/2011 10:01	70.0
29/8/2011 10:31	68.7
29/8/2011 11:01	69.9
29/8/2011 11:31	67.7
29/8/2011 12:01	66.2
29/8/2011 12:31	68.1
29/8/2011 13:01	72.1
29/8/2011 13:31	73.3
29/8/2011 14:01	71.8
29/8/2011 14:31	71.6
29/8/2011 15:01	72.0
29/8/2011 15:31	72.3
29/8/2011 16:01	71.3
29/8/2011 16:31	71.2
29/8/2011 17:01	72.7
29/8/2011 17:31	72.5
29/8/2011 18:01	70.9
29/8/2011 18:31	69.3
30/8/2011 7:01	66.0
30/8/2011 7:31	68.9
30/8/2011 8:01	68.8
30/8/2011 8:31	63.3
30/8/2011 9:01	69.0
30/8/2011 9:31	68.8
30/8/2011 10:01	66.9
30/8/2011 10:31	70.8
30/8/2011 11:01	71.4
30/8/2011 11:31	68.8
30/8/2011 12:01	65.6
30/8/2011 12:31	65.7
30/8/2011 13:01	70.1
30/8/2011 13:31	71.1
30/8/2011 14:01	71.0
30/8/2011 14:31	72.0
30/8/2011 15:01	70.8
30/8/2011 15:31	70.8
30/8/2011 16:01	72.3
30/8/2011 16:31	71.3
30/8/2011 17:01	71.9
30/8/2011 17:31	71.5
30/8/2011 18:01	70.3
30/8/2011 18:31	67.1
31/8/2011 7:01	62.6
31/8/2011 7:31	63.8
31/8/2011 8:01	70.3
31/8/2011 8:31	71.7
31/8/2011 9:01	72.3
31/8/2011 9:31	71.2
31/8/2011 10:01	71.8
31/8/2011 10:31	71.0
31/8/2011 11:01	70.7
31/8/2011 11:31	70.6
31/8/2011 12:01	65.4
31/8/2011 12:31	65.8
31/8/2011 13:01	69.3
31/8/2011 13:31	71.2
31/8/2011 14:01	72.2
31/8/2011 14:31	69.9
31/8/2011 15:01	71.3
31/8/2011 15:31	67.9
31/8/2011 16:01	68.9
31/8/2011 16:31	67.3
31/8/2011 17:01	67.0
31/8/2011 17:31	67.3
31/8/2011 18:01	66.1
31/8/2011 18:31	65.5
1/9/2011 7:01	62.9
1/9/2011 7:31	63.7
1/9/2011 8:01	66.5
1/9/2011 8:31	67.0
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1/9/2011 10:01	67.6
1/9/2011 10:31	67.4
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1/9/2011 11:31	66.9
1/9/2011 12:01	64.6
1/9/2011 12:31	65.6
1/9/2011 13:01	66.5
1/9/2011 13:31	67.7
1/9/2011 14:01	67.2
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1/9/2011 15:01	69.4
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1/9/2011 16:01	69.8
1/9/2011 16:31	69.5
1/9/2011 17:01	69.9
1/9/2011 17:31	69.7
1/9/2011 18:01	66.1
1/9/2011 18:31	67.4
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2/9/2011 8:01	68.6
2/9/2011 8:31	69.5
2/9/2011 9:01	69.5
2/9/2011 9:31	70.5
2/9/2011 10:01	69.1
2/9/2011 10:31	67.8
2/9/2011 11:01	67.5
2/9/2011 11:31	66.7
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2/9/2011 12:31	66.1
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3/9/2011 9:31	70.1
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3/9/2011 11:01	71.1
3/9/2011 11:31	69.3
3/9/2011 12:01	69.4
3/9/2011 12:31	67.0
3/9/2011 13:01	68.0
3/9/2011 13:31	68.4
3/9/2011 14:01	67.7
3/9/2011 14:31	68.0
3/9/2011 15:01	67.7
3/9/2011 15:31	67.0
3/9/2011 16:01	68.1
3/9/2011 16:31	67.0
3/9/2011 17:01	67.2
3/9/2011 17:31	67.5
3/9/2011 18:01	67.2
3/9/2011 18:31	66.8
5/9/2011 7:01	63.2
5/9/2011 7:31	63.9
5/9/2011 8:01	67.3
5/9/2011 8:31	67.1
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5/9/2011 10:31	67.8
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5/9/2011 12:31	66.5
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5/9/2011 13:31	68.4
5/9/2011 14:01	70.0
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6/9/2011 7:31	63.5
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6/9/2011 11:31	66.5
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6/9/2011 13:01	68.3
6/9/2011 13:31	68.4
6/9/2011 14:01	68.7
6/9/2011 14:31	68.6
6/9/2011 15:01	68.2
6/9/2011 15:31	68.5
6/9/2011 16:01	69.0
6/9/2011 16:31	69.0
6/9/2011 17:01	69.2
6/9/2011 17:31	68.2
6/9/2011 18:01	67.2
6/9/2011 18:31	65.8
7/9/2011 7:01	62.8
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7/9/2011 8:31	72.6
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7/9/2011 13:31	71.6
7/9/2011 14:01	71.2
7/9/2011 14:31	71.0
7/9/2011 15:01	70.2
7/9/2011 15:31	69.7
7/9/2011 16:01	70.0
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8/9/2011 9:01	69.0
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8/9/2011 10:31	69.5
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8/9/2011 14:31	69.9
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8/9/2011 18:01	69.1
8/9/2011 18:31	66.7
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9/9/2011 7:31	63.4
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9/9/2011 10:31	69.8
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9/9/2011 13:01	66.9
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9/9/2011 16:01	67.0
9/9/2011 16:31	67.9
9/9/2011 17:01	71.5
9/9/2011 17:31	65.1
9/9/2011 18:01	64.2
9/9/2011 18:31	63.2
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12/9/2011 7:31	65.1
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12/9/2011 11:01	69.3
12/9/2011 11:31	72.3
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12/9/2011 13:31	70.5
12/9/2011 14:01	71.3
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12/9/2011 15:01	70.7
12/9/2011 15:31	71.9
12/9/2011 16:01	72.3
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22/9/2011 18:01	65.4
22/9/2011 18:31	65.8
23/9/2011 7:01	64.3
23/9/2011 7:31	65.6
23/9/2011 8:01	70.3
23/9/2011 8:31	70.7
23/9/2011 9:01	72.3
23/9/2011 9:31	72.7
23/9/2011 10:01	71.7
23/9/2011 10:31	49.6
23/9/2011 11:01	72.6
23/9/2011 11:31	70.2
23/9/2011 12:01	66.7
23/9/2011 12:31	66.2
23/9/2011 13:01	71.4
23/9/2011 13:31	73.2
23/9/2011 14:01	55.3
23/9/2011 14:31	72.0
23/9/2011 15:01	72.4
23/9/2011 15:31	69.8
23/9/2011 16:01	71.7
23/9/2011 16:31	71.4
23/9/2011 17:01	72.5
23/9/2011 17:31	70.0
23/9/2011 18:01	66.1
23/9/2011 18:31	65.5
24/9/2011 7:01	64.4
24/9/2011 7:31	65.2
24/9/2011 8:01	66.7
24/9/2011 8:31	71.8
24/9/2011 9:01	71.7
24/9/2011 9:31	71.2
24/9/2011 10:01	71.5
24/9/2011 10:31	71.8
24/9/2011 11:01	73.2
24/9/2011 11:31	68.8
24/9/2011 12:01	66.5
24/9/2011 12:31	65.9
24/9/2011 13:01	64.7
24/9/2011 13:31	61.0
24/9/2011 14:01	72.3
24/9/2011 14:31	72.5
24/9/2011 15:01	70.9
24/9/2011 15:31	69.6
24/9/2011 16:01	69.7
24/9/2011 16:31	71.7
24/9/2011 17:01	70.6
24/9/2011 17:31	71.5
24/9/2011 18:01	67.0
24/9/2011 18:31	65.8
26/9/2011 7:01	64.4
26/9/2011 7:31	65.2
26/9/2011 8:01	66.9
26/9/2011 8:31	72.0
26/9/2011 9:01	70.8
26/9/2011 9:31	71.3
26/9/2011 10:01	70.9
26/9/2011 10:31	71.3
26/9/2011 11:01	72.0
26/9/2011 11:31	70.5
26/9/2011 12:01	66.3
26/9/2011 12:31	66.9
26/9/2011 13:01	72.5
26/9/2011 13:31	72.2
26/9/2011 14:01	71.2
26/9/2011 14:31	69.9
26/9/2011 15:01	71.8
26/9/2011 15:31	69.2
26/9/2011 16:01	70.6
26/9/2011 16:31	70.3
26/9/2011 17:01	70.9
26/9/2011 17:31	68.3
26/9/2011 18:01	65.5
26/9/2011 18:31	65.1
27/9/2011 7:01	65.0
27/9/2011 7:31	65.3
27/9/2011 8:01	66.1
27/9/2011 8:31	67.3
27/9/2011 9:01	70.7
27/9/2011 9:31	70.0
27/9/2011 10:01	68.4
27/9/2011 10:31	68.4
27/9/2011 11:01	67.7
27/9/2011 11:31	69.1
27/9/2011 12:01	65.8
27/9/2011 12:31	64.4
27/9/2011 13:01	66.5
27/9/2011 13:31	70.8
27/9/2011 14:01	68.3
27/9/2011 14:31	68.2
27/9/2011 15:01	68.5
27/9/2011 15:31	66.6
27/9/2011 16:01	67.2
27/9/2011 16:31	70.9
27/9/2011 17:01	67.6
27/9/2011 17:31	66.2
27/9/2011 18:01	65.3
27/9/2011 18:31	65.0

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

28/8/2011 7:01	61.7
28/8/2011 7:06	61.4
28/8/2011 7:11	62.0
28/8/2011 7:16	60.6
28/8/2011 7:21	61.3
28/8/2011 7:26	62.0
28/8/2011 7:31	60.6
28/8/2011 7:36	62.7
28/8/2011 7:41	63.4
28/8/2011 7:46	62.4
28/8/2011 7:51	63.5
28/8/2011 7:56	62.2
28/8/2011 8:01	62.7
28/8/2011 8:06	61.5
28/8/2011 8:11	62.1
28/8/2011 8:16	63.1
28/8/2011 8:21	63.7
28/8/2011 8:26	65.3
28/8/2011 8:31	63.2
28/8/2011 8:36	63.5
28/8/2011 8:41	63.1
28/8/2011 8:46	63.1
28/8/2011 8:51	63.8
28/8/2011 8:56	64.9
28/8/2011 9:01	64.7
28/8/2011 9:06	65.0
28/8/2011 9:11	65.6
28/8/2011 9:16	63.1
28/8/2011 9:21	64.2
28/8/2011 9:26	65.0
28/8/2011 9:31	65.5
28/8/2011 9:36	66.5
28/8/2011 9:41	66.7
28/8/2011 9:46	66.5
28/8/2011 9:51	67.4
28/8/2011 9:56	67.2
28/8/2011 10:01	65.2
28/8/2011 10:06	65.6
28/8/2011 10:11	65.7
28/8/2011 10:16	63.3
28/8/2011 10:21	63.1
28/8/2011 10:26	63.8
28/8/2011 10:31	64.5
28/8/2011 10:36	65.7
28/8/2011 10:41	65.8
28/8/2011 10:46	67.4
28/8/2011 10:51	68.7
28/8/2011 10:56	65.5
28/8/2011 11:01	64.9
28/8/2011 11:06	66.3
28/8/2011 11:11	65.1
28/8/2011 11:16	64.7
28/8/2011 11:21	65.9
28/8/2011 11:26	66.0
28/8/2011 11:31	64.2
28/8/2011 11:36	64.2

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

28/8/2011 11:41	63.4	28/8/2011 20:51	61.4	30/8/2011 22:01	61.0	2/9/2011 19:11	64.7	4/9/2011 8:21	68.6	4/9/2011 17:31	67.0
28/8/2011 11:46	63.1	28/8/2011 20:56	60.7	30/8/2011 22:06	61.0	2/9/2011 19:16	64.7	4/9/2011 8:26	68.7	4/9/2011 17:36	66.9
28/8/2011 11:51	63.3	28/8/2011 21:01	61.5	30/8/2011 22:11	61.0	2/9/2011 19:21	64.9	4/9/2011 8:31	68.3	4/9/2011 17:41	66.5
28/8/2011 11:56	63.9	28/8/2011 21:06	62.0	30/8/2011 22:16	61.1	2/9/2011 19:26	61.2	4/9/2011 8:36	68.3	4/9/2011 17:46	65.9
28/8/2011 12:01	62.0	28/8/2011 21:11	61.6	30/8/2011 22:21	61.9	2/9/2011 19:31	62.7	4/9/2011 8:41	68.2	4/9/2011 17:51	64.1
28/8/2011 12:06	62.7	28/8/2011 21:16	62.3	30/8/2011 22:26	60.8	2/9/2011 19:36	61.7	4/9/2011 8:46	67.9	4/9/2011 17:56	65.0
28/8/2011 12:11	62.4	28/8/2011 21:21	61.1	30/8/2011 22:31	61.0	2/9/2011 19:41	62.0	4/9/2011 8:51	67.9	4/9/2011 18:01	65.6
28/8/2011 12:16	63.3	28/8/2011 21:26	61.2	30/8/2011 22:36	61.4	2/9/2011 19:46	61.5	4/9/2011 8:56	68.4	4/9/2011 18:06	64.6
28/8/2011 12:21	61.7	28/8/2011 21:31	60.9	30/8/2011 22:41	61.0	2/9/2011 19:51	61.6	4/9/2011 9:01	69.1	4/9/2011 18:11	65.6
28/8/2011 12:26	62.1	28/8/2011 21:36	61.8	30/8/2011 22:46	60.7	2/9/2011 19:56	62.0	4/9/2011 9:06	68.5	4/9/2011 18:16	65.7
28/8/2011 12:31	60.3	28/8/2011 21:41	61.4	30/8/2011 22:51	61.1	2/9/2011 20:01	62.8	4/9/2011 9:11	68.4	4/9/2011 18:21	64.8
28/8/2011 12:36	60.6	28/8/2011 21:46	61.2	30/8/2011 22:56	61.4	2/9/2011 20:06	63.0	4/9/2011 9:16	68.8	4/9/2011 18:26	65.6
28/8/2011 12:41	61.8	28/8/2011 21:51	62.3	31/8/2011 19:01	62.2	2/9/2011 20:11	61.9	4/9/2011 9:21	68.7	4/9/2011 18:31	66.9
28/8/2011 12:46	62.3	28/8/2011 21:56	62.0	31/8/2011 19:06	66.1	2/9/2011 20:16	61.9	4/9/2011 9:26	68.6	4/9/2011 18:36	65.8
28/8/2011 12:51	62.0	28/8/2011 22:01	62.2	31/8/2011 19:11	63.9	2/9/2011 20:21	61.8	4/9/2011 9:31	68.7	4/9/2011 18:41	67.9
28/8/2011 12:56	61.8	28/8/2011 22:06	61.3	31/8/2011 19:16	65.5	2/9/2011 20:26	62.0	4/9/2011 9:36	68.4	4/9/2011 18:46	60.7
28/8/2011 13:01	62.2	28/8/2011 22:11	61.1	31/8/2011 19:21	64.2	2/9/2011 20:31	62.2	4/9/2011 9:41	68.7	4/9/2011 18:51	68.6
28/8/2011 13:06	62.6	28/8/2011 22:16	61.4	31/8/2011 19:26	62.6	2/9/2011 20:36	62.9	4/9/2011 9:46	68.9	4/9/2011 18:56	65.5
28/8/2011 13:11	64.3	28/8/2011 22:21	62.3	31/8/2011 19:31	62.9	2/9/2011 20:41	61.3	4/9/2011 9:51	68.1	4/9/2011 19:01	65.0
28/8/2011 13:16	63.8	28/8/2011 22:26	62.4	31/8/2011 19:36	62.5	2/9/2011 20:46	62.0	4/9/2011 9:56	68.2	4/9/2011 19:06	64.9
28/8/2011 13:21	63.8	28/8/2011 22:31	62.2	31/8/2011 19:41	62.6	2/9/2011 20:51	62.7	4/9/2011 10:01	68.4	4/9/2011 19:11	64.5
28/8/2011 13:26	64.2	28/8/2011 22:36	61.2	31/8/2011 19:46	65.4	2/9/2011 20:56	60.8	4/9/2011 10:06	68.4	4/9/2011 19:16	63.9
28/8/2011 13:31	63.9	28/8/2011 22:41	62.3	31/8/2011 19:51	63.2	2/9/2011 21:01	61.6	4/9/2011 10:11	68.7	4/9/2011 19:21	62.4
28/8/2011 13:36	64.6	28/8/2011 22:46	61.2	31/8/2011 19:56	64.7	2/9/2011 21:06	61.1	4/9/2011 10:16	68.7	4/9/2011 19:26	61.9
28/8/2011 13:41	64.6	28/8/2011 22:51	61.2	31/8/2011 20:01	63.6	2/9/2011 21:11	61.4	4/9/2011 10:21	68.1	4/9/2011 19:31	62.5
28/8/2011 13:46	65.3	28/8/2011 22:56	61.7	31/8/2011 20:06	63.6	2/9/2011 21:16	61.6	4/9/2011 10:26	66.9	4/9/2011 19:36	62.2
28/8/2011 13:51	65.3	29/8/2011 19:01	67.6	31/8/2011 20:11	63.7	2/9/2011 21:21	61.7	4/9/2011 10:31	64.9	4/9/2011 19:41	63.1
28/8/2011 13:56	64.4	29/8/2011 19:06	68.2	31/8/2011 20:16	62.3	2/9/2011 21:26	62.4	4/9/2011 10:36	65.1	4/9/2011 19:46	62.3
28/8/2011 14:01	65.4	29/8/2011 19:11	68.6	31/8/2011 20:21	62.3	2/9/2011 21:31	62.2	4/9/2011 10:41	64.8	4/9/2011 19:51	61.9
28/8/2011 14:06	65.3	29/8/2011 19:16	68.3	31/8/2011 20:26	64.0	2/9/2011 21:36	61.7	4/9/2011 10:46	64.5	4/9/2011 19:56	62.2
28/8/2011 14:11	63.1	29/8/2011 19:21	67.8	31/8/2011 20:31	63.3	2/9/2011 21:41	64.1	4/9/2011 10:51	67.5	4/9/2011 20:01	61.5
28/8/2011 14:16	63.0	29/8/2011 19:26	67.8	31/8/2011 20:36	63.3	2/9/2011 21:46	62.4	4/9/2011 10:56	63.8	4/9/2011 20:06	62.7
28/8/2011 14:21	63.3	29/8/2011 19:31	67.9	31/8/2011 20:41	62.5	2/9/2011 21:51	61.3	4/9/2011 11:01	67.1	4/9/2011 20:11	61.6
28/8/2011 14:26	63.3	29/8/2011 19:36	68.4	31/8/2011 20:46	63.3	2/9/2011 21:56	61.6	4/9/2011 11:06	66.8	4/9/2011 20:16	61.3
28/8/2011 14:31	62.4	29/8/2011 19:41	68.7	31/8/2011 20:51	63.6	2/9/2011 22:01	60.8	4/9/2011 11:11	67.0	4/9/2011 20:21	61.8
28/8/2011 14:36	62.4	29/8/2011 19:46	68.7	31/8/2011 20:56	63.3	2/9/2011 22:06	61.2	4/9/2011 11:16	67.1	4/9/2011 20:26	61.7
28/8/2011 14:41	63.9	29/8/2011 19:51	66.4	31/8/2011 21:01	62.7	2/9/2011 22:11	61.0	4/9/2011 11:21	67.0	4/9/2011 20:31	61.5
28/8/2011 14:46	63.5	29/8/2011 19:56	66.1	31/8/2011 21:06	61.8	2/9/2011 22:16	61.8	4/9/2011 11:26	66.7	4/9/2011 20:36	62.3
28/8/2011 14:51	64.5	29/8/2011 20:01	67.8	31/8/2011 21:11	61.7	2/9/2011 22:21	61.3	4/9/2011 11:31	67.0	4/9/2011 20:41	61.1
28/8/2011 14:56	65.6	29/8/2011 20:06	67.5	31/8/2011 21:16	62.1	2/9/2011 22:26	61.3	4/9/2011 11:36	66.2	4/9/2011 20:46	61.6
28/8/2011 15:01	65.1	29/8/2011 20:11	66.9	31/8/2011 21:21	62.3	2/9/2011 22:31	61.2	4/9/2011 11:41	63.5	4/9/2011 20:51	61.7
28/8/2011 15:06	65.5	29/8/2011 20:16	66.2	31/8/2011 21:26	63.2	2/9/2011 22:36	61.5	4/9/2011 11:46	62.8	4/9/2011 20:56	61.3
28/8/2011 15:11	64.5	29/8/2011 20:21	66.9	31/8/2011 21:31	62.3	2/9/2011 22:41	61.1	4/9/2011 11:51	61.7	4/9/2011 21:01	61.5
28/8/2011 15:16	65.8	29/8/2011 20:26	66.8	31/8/2011 21:36	63.4	2/9/2011 22:46	61.4	4/9/2011 11:56	60.0	4/9/2011 21:06	63.6
28/8/2011 15:21	65.4	29/8/2011 20:31	65.5	31/8/2011 21:41	61.7	2/9/2011 22:51	61.4	4/9/2011 12:01	59.7	4/9/2011 21:11	61.9
28/8/2011 15:26	65.4	29/8/2011 20:36	61.9	31/8/2011 21:46	61.5	2/9/2011 22:56	61.2	4/9/2011 12:06	59.8	4/9/2011 21:16	61.3
28/8/2011 15:31	65.2	29/8/2011 20:41	63.9	31/8/2011 21:51	61.9	3/9/2011 19:01	67.3	4/9/2011 12:11	60.9	4/9/2011 21:21	62.1
28/8/2011 15:36	65.9	29/8/2011 20:46	62.4	31/8/2011 21:56	62.0	3/9/2011 19:06	65.2	4/9/2011 12:16	60.2	4/9/2011 21:26	63.9
28/8/2011 15:41	65.8	29/8/2011 20:51	62.4	31/8/2011 22:01	61.8	3/9/2011 19:11	64.4	4/9/2011 12:21	60.2	4/9/2011 21:31	62.2
28/8/2011 15:46	65.9	29/8/2011 20:56	62.1	31/8/2011 22:06	62.0	3/9/2011 19:16	65.5	4/9/2011 12:26	60.4	4/9/2011 21:36	61.8
28/8/2011 15:51	65.7	29/8/2011 21:01	62.1	31/8/2011 22:11	61.9	3/9/2011 19:21	64.1	4/9/2011 12:31	63.3	4/9/2011 21:41	61.6
28/8/2011 15:56	65.0	29/8/2011 21:06	62.2	31/8/2011 22:16	62.4	3/9/2011 19:26	63.3	4/9/2011 12:36	61.6	4/9/2011 21:46	62.0
28/8/2011 16:01	64.4	29/8/2011 21:11	62.4	31/8/2011 22:21	62.3	3/9/2011 19:31	63.4	4/9/2011 12:41	61.3	4/9/2011 21:51	61.5
28/8/2011 16:06	67.9	29/8/2011 21:16	62.0	31/8/2011 22:26	61.5	3/9/2011 19:36	63.1	4/9/2011 12:46	61.0	4/9/2011 21:56	61.8
28/8/2011 16:11	65.4	29/8/2011 21:21	61.0	31/8/2011 22:31	61.6	3/9/2011 19:41	67.4	4/9/2011 12:51	63.4	4/9/2011 22:01	62.3
28/8/2011 16:16	64.9	29/8/2011 21:26	61.5	31/8/2011 22:36	61.2	3/9/2011 19:46	66.4	4/9/2011 12:56	64.6	4/9/2011 22:06	61.7
28/8/2011 16:21	65.0	29/8/2011 21:31	61.4	31/8/2011 22:41	61.5	3/9/2011 19:51	65.8	4/9/2011 13:01	65.1	4/9/2011 22:11	62.0
28/8/2011 16:26	65.7	29/8/2011 21:36	61.1	31/8/2011 22:46	61.4	3/9/2011 19:56	67.5	4/9/2011 13:06	65.9	4/9/2011 22:16	61.9
28/8/2011 16:31	65.9	29/8/2011 21:41	61.4	31/8/2011 22:51	61.9	3/9/2011 20:01	68.6	4/9/2011 13:11	67.7	4/9/2011 22:21	61.7
28/8/2011 16:36	65.8	29/8/2011 21:46	61.8	31/8/2011 22:56	62.7	3/9/2011 20:06	68.6	4/9/2011 13:16	67.6	4/9/2011 22:26	61.4
28/8/2011 16:41	66.3	29/8/2011 21:51	62.1	1/9/2011 19:01	66.9	3/9/2011 20:11	51.3	4/9/2011 13:21	67.9	4/9/2011 22:31	62.0
28/8/2011 16:46	65.6	29/8/2011 21:56	62.4	1/9/2011 19:06	68.7	3/9/2011 20:16	68.8	4/9/2011 13:26	67.6	4/9/2011 22:36	61.2
28/8/2011 16:51	65.8	29/8/2011 22:01	61.5	1/9/2011 19:11	68.5	3/9/2011 20:21	68.9	4/9/2011 13:31	67.4	4/9/2011 22:41	61.7
28/8/2011 16:56	66.2	29/8/2011 22:06	60.7	1/9/2011 19:16	62.6	3/9/2011 20:26	68.2	4/9/2011 13:36	66.9	4/9/2011 22:46	61.3
28/8/2011 17:01	65.1	29/8/2011 22:11	60.9	1/9/2011 19:21	63.5	3/9/2011 20:31	66.4	4/9/2011 13:41	66.5	4/9/2011 22:51	62.1
28/8/2011 17:06	64.2	29/8/2011 22:16	61.1	1/9/2011 19:26	62.7	3/9/2011 20:36	68.8	4/9/2011 13:46	67.0	4/9/2011 22:56	61.0
28/8/2011 17:11	63.9	29/8/2011 22:21	61.3	1/9/2011 19:31	62.7	3/9/2011 20:41	69.3	4/9/2011 13:51	67.0	4/9/2011 23:01	60.6
28/8/2011 17:16	63.4	29/8/2011 22:26	61.3	1/9/2011 19:36	68.4	3/9/2011 20:46	68.8	4/9/2011 13:56	66.1	5/9/2011 19:01	60.6
28/8/2011 17:21	63.9	29/8/2011 22:31	62.0	1/9/2011 19:41	68.7	3/9/2011 20:51	68.9	4/9/2011 14:01	65.8	5/9/2011 19:06	60.4
28/8/2011 17:26	63.4	29/8/2011 22:36	61.8	1/9/2011 19:46	68.0	3/9/2011 20:56	68.4	4/9/2011 14:06	66.5	5/9/2011 19:11	60.6
28/8/2011 17:31	63.1	29/8/2011 22:41	60.9	1/9/2011 19:51	68.3	3/9/2011 21:01	68.6	4/9/2011 14:11	66.2	5/9/2011 19:16	60.5
28/8/2011 17:36	66.1	29/8/2011 22:46	61.1	1/9/2011 19:56	68.7	3/9/2011 21:06	68.1	4/9/2011 14:16	65.0	5/9/2011 19:21	60.9
28/8/2011 17:41	64.5	29/8/2011 22:51	61.5	1/9/2011 20:01	68.4	3/9/2011 21:11	63.7	4/9/2011 14:21	65.2	5/9/2011 19:26	60.4
28/8/2011 17:46	64.4	29/8/2011 22:56	61.0	1/9/2011 20:06	68.5	3/9/2011 21:16	62.5	4/9/2011 14:26	65.1	5/9/2011 19:31	62.6
28/8/2011 17:51	64.7	30/8/2011 19:01	62.0	1/9/2011 20:11	68.0	3/9/2011 21:21	62.8	4/9/2011 14:31	65.5	5/9/2011 19:36	62.2
28/8/2011 17:56	63.9	30/8/2011 19:06	64.4	1/9/2011 20:16	67.5	3/9/2011 21:26	62.7	4/9/2011 14:36	64.9	5/9/2011 19:41	62.8
28/8/2011 18:01	64.1	30/8/2011 19:11	62.3	1/9/2011 20:21	68.1	3/9/2011 21:31	62.2	4/9/2011 14:41	65.1	5/9/2011 19:46	62.5
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28/8/2011 18:11	62.4	30/8/2011 19:21	62.1	1/9/2011 20:31	67.5	3/9/2011 21:41	62.3	4/9/2011 14:51	65.8	5/9/2011 19:56	61.8
28/8/2011 18:16	62.3	30/8/2011 19:26	63.0	1/9/2011 20:36	67.8	3/9/2011 21:46	62.4	4/9/2011 14:56	64.3	5/9/2011 20:01	62.2
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28/8/2011 19:01	63.7	30/8/2011 20:11	61.9	1/9/2011 21:21	67.8	3/9/2011 22:31	61.6	4/9/2011 15:41	65.7	5/9/2011 20:46	62.5
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28/8/2011 19:56	61.6	30/8/2011 21:06	61.2	1/9/2011 22:16	61.7	4/9/2011 7:26	62.7	4/9/2011 16:36	65.2	5/9/2011 21:41	61.6
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28/8/2011 20:11	61.6	30/8/2011 21:21	61.6	1/9/2011 22:31	60.5	4/9/2011 7:41	67.0	4/9/2011 16:51	66.2	5/9/2011 21:56	61.8
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28/8/2011 20:41	62.0	30/8/2011 21:51	60.9	2/9/2011 19:01	66.8	4/9/2011 8:11	68.2	4/9/2011 17:21	64.4	5/9/2011 22:26	61.0
28/8/2011 20:46	61.5	30/8/2011 21:56	61.0	2/9/2011 19:06	62.1	4/9/2011 8:16	66.4	4/9/2011 17:26	64.2	5/9/2011 22:31	61.6

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

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5/9/2011 22:41	62.2	8/9/2011 19:51	61.8	10/9/2011 21:01	64.7	11/9/2011 14:11	67.3	12/9/2011 19:21	62.4	13/9/2011 12:31	61.9
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5/9/2011 22:51	61.1	8/9/2011 20:01	63.2	10/9/2011 21:11	64.0	11/9/2011 14:21	66.9	12/9/2011 19:31	62.3	13/9/2011 12:41	61.7
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8/9/2011 19:06	63.5	10/9/2011 20:16	64.6	11/9/2011 13:26	66.8	11/9/2011 22:36	63.3	13/9/2011 11:46	65.9	13/9/2011 20:56	61.2
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8/9/2011 19:26	62.2	10/9/2011 20:36	64.3	11/9/2011 13:46	67.7	11/9/2011 22:56	69.2	13/9/2011 12:06	62.3	13/9/2011 21:16	61.1
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8/9/2011 19:41	62.3	10/9/2011 20:51	64.0	11/9/2011 14:01	67.1	12/9/2011 19:11	62.0	13/9/2011 12:21	62.1	13/9/2011 21:31	61.6

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

13/9/2011 21:36	61.3	15/9/2011 22:46	62.2	18/9/2011 7:56	63.1	18/9/2011 17:06	66.3	19/9/2011 22:16	63.4	22/9/2011 19:26	64.8
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13/9/2011 21:51	61.3	16/9/2011 19:01	66.3	18/9/2011 8:11	63.5	18/9/2011 17:21	65.3	19/9/2011 22:31	62.4	22/9/2011 19:41	63.4
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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27/9/2011 19:46	62.7
27/9/2011 19:51	63.3
27/9/2011 19:56	63.7
27/9/2011 20:01	62.6
27/9/2011 20:06	62.0
27/9/2011 20:11	62.8
27/9/2011 20:16	61.7
27/9/2011 20:21	62.5
27/9/2011 20:26	62.6
27/9/2011 20:31	61.7
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27/9/2011 20:46	61.4
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27/9/2011 20:56	61.2
27/9/2011 21:01	60.7
27/9/2011 21:06	61.4
27/9/2011 21:11	61.3
27/9/2011 21:16	61.3
27/9/2011 21:21	61.3
27/9/2011 21:26	61.7
27/9/2011 21:31	61.3
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27/9/2011 23:11	62.0
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27/9/2011 23:26	61.1
27/9/2011 23:31	61.1
27/9/2011 23:36	60.4
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27/9/2011 23:46	61.4
27/9/2011 23:51	60.4
27/9/2011 23:56	60.4

Night-time 23:00-07:00	
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28/8/2011 0:06	61.5
28/8/2011 0:11	61.1
28/8/2011 0:16	61.6
28/8/2011 0:21	61.3
28/8/2011 0:26	60.4
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28/8/2011 0:41	61.4
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28/8/2011 1:51	59.2
28/8/2011 1:56	59.3
28/8/2011 2:01	59.2
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28/8/2011 6:06	59.0
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29/8/2011 0:41	57.5
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29/8/2011 1:36	58.6
29/8/2011 1:41	57.2
29/8/2011 1:46	57.7
29/8/2011 1:51	57.4
29/8/2011 1:56	57.1
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29/8/2011 2:21	55.8
29/8/2011 2:26	57.0
29/8/2011 2:31	55.8
29/8/2011 2:36	57.5
29/8/2011 2:41	56.1
29/8/2011 2:46	55.2
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29/8/2011 3:06	54.5
29/8/2011 3:11	55.5
29/8/2011 3:16	55.3
29/8/2011 3:21	55.3
29/8/2011 3:26	56.0
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29/8/2011 6:46	62.3
29/8/2011 6:51	62.3
29/8/2011 6:56	63.9
29/8/2011 23:01	60.8
29/8/2011 23:06	61.2
29/8/2011 23:11	61.4
29/8/2011 23:16	60.8
29/8/2011 23:21	61.1
29/8/2011 23:26	60.6
29/8/2011 23:31	60.2
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29/8/2011 23:46	60.1
29/8/2011 23:51	60.3
29/8/2011 23:56	60.0
30/8/2011 0:01	60.0
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30/8/2011 2:56	57.8
30/8/2011 3:01	56.0
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30/8/2011 5:16	67.0
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30/8/2011 5:51	58.1
30/8/2011 5:56	58.3
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30/8/2011 6:31	61.1
30/8/2011 6:36	60.6
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30/8/2011 23:36	61.3
30/8/2011 23:41	60.9
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30/8/2011 23:51	60.2
30/8/2011 23:56	60.9
31/8/2011 0:01	61.4
31/8/2011 0:06	61.1
31/8/2011 0:11	60.8
31/8/2011 0:16	60.5
31/8/2011 0:21	60.8
31/8/2011 0:26	60.4
31/8/2011 0:31	60.3
31/8/2011 0:36	60.1
31/8/2011 0:41	59.3
31/8/2011 0:46	58.5
31/8/2011 0:51	59.0
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31/8/2011 1:01	58.5
31/8/2011 1:06	58.4
31/8/2011 1:11	58.7
31/8/2011 1:16	58.2
31/8/2011 1:21	58.0
31/8/2011 1:26	58.7
31/8/2011 1:31	58.2
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31/8/2011 1:51	57.9
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31/8/2011 2:01	57.5
31/8/2011 2:06	57.8
31/8/2011 2:11	57.8
31/8/2011 2:16	56.7
31/8/2011 2:21	57.8
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31/8/2011 2:31	57.6
31/8/2011 2:36	56.3
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31/8/2011 2:46	57.0
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31/8/2011 2:56	55.9
31/8/2011 3:01	56.9
31/8/2011 3:06	56.8
31/8/2011 3:11	56.8
31/8/2011 3:16	57.7
31/8/2011 3:21	56.0

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

31/8/2011 3:26	56.3	1/9/2011 4:36	56.3	2/9/2011 5:46	59.7	3/9/2011 6:56	64.5	5/9/2011 0:06	61.0	6/9/2011 1:16	60.3
31/8/2011 3:31	56.1	1/9/2011 4:41	56.2	2/9/2011 5:51	58.8	3/9/2011 23:01	61.5	5/9/2011 0:11	60.9	6/9/2011 1:21	58.5
31/8/2011 3:36	57.0	1/9/2011 4:46	55.2	2/9/2011 5:56	58.5	3/9/2011 23:06	61.8	5/9/2011 0:16	59.5	6/9/2011 1:26	60.4
31/8/2011 3:41	57.4	1/9/2011 4:51	57.1	2/9/2011 6:01	59.1	3/9/2011 23:11	61.5	5/9/2011 0:21	60.7	6/9/2011 1:31	58.2
31/8/2011 3:46	56.8	1/9/2011 4:56	56.5	2/9/2011 6:06	59.1	3/9/2011 23:16	61.6	5/9/2011 0:26	59.5	6/9/2011 1:36	59.4
31/8/2011 3:51	56.8	1/9/2011 5:01	57.0	2/9/2011 6:11	60.5	3/9/2011 23:21	61.7	5/9/2011 0:31	59.6	6/9/2011 1:41	58.9
31/8/2011 3:56	55.6	1/9/2011 5:06	56.9	2/9/2011 6:16	65.4	3/9/2011 23:26	62.1	5/9/2011 0:36	59.5	6/9/2011 1:46	59.0
31/8/2011 4:01	56.0	1/9/2011 5:11	58.3	2/9/2011 6:21	63.4	3/9/2011 23:31	61.6	5/9/2011 0:41	60.3	6/9/2011 1:51	58.2
31/8/2011 4:06	55.9	1/9/2011 5:16	58.1	2/9/2011 6:26	60.8	3/9/2011 23:36	61.0	5/9/2011 0:46	59.3	6/9/2011 1:56	58.3
31/8/2011 4:11	56.0	1/9/2011 5:21	57.4	2/9/2011 6:31	60.8	3/9/2011 23:41	61.6	5/9/2011 0:51	61.2	6/9/2011 2:01	57.8
31/8/2011 4:16	55.8	1/9/2011 5:26	59.7	2/9/2011 6:36	62.7	3/9/2011 23:46	61.2	5/9/2011 0:56	61.1	6/9/2011 2:06	57.3
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31/8/2011 4:26	57.0	1/9/2011 5:36	57.1	2/9/2011 6:46	62.3	3/9/2011 23:56	61.2	5/9/2011 1:06	58.4	6/9/2011 2:16	56.5
31/8/2011 4:31	56.1	1/9/2011 5:41	58.0	2/9/2011 6:51	62.5	4/9/2011 0:01	61.5	5/9/2011 1:11	58.3	6/9/2011 2:21	57.5
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31/8/2011 4:41	56.0	1/9/2011 5:51	57.3	2/9/2011 23:01	61.2	4/9/2011 0:11	61.4	5/9/2011 1:21	57.6	6/9/2011 2:31	57.0
31/8/2011 4:46	55.6	1/9/2011 5:56	59.0	2/9/2011 23:06	61.4	4/9/2011 0:16	61.2	5/9/2011 1:26	57.9	6/9/2011 2:36	57.1
31/8/2011 4:51	55.8	1/9/2011 6:01	58.1	2/9/2011 23:11	61.6	4/9/2011 0:21	61.1	5/9/2011 1:31	57.4	6/9/2011 2:41	56.5
31/8/2011 4:56	55.9	1/9/2011 6:06	59.6	2/9/2011 23:16	60.9	4/9/2011 0:26	60.7	5/9/2011 1:36	57.5	6/9/2011 2:46	57.5
31/8/2011 5:01	56.4	1/9/2011 6:11	61.4	2/9/2011 23:21	61.3	4/9/2011 0:31	61.1	5/9/2011 1:41	56.8	6/9/2011 2:51	56.7
31/8/2011 5:06	57.2	1/9/2011 6:16	67.3	2/9/2011 23:26	60.8	4/9/2011 0:36	60.6	5/9/2011 1:46	57.1	6/9/2011 2:56	56.9
31/8/2011 5:11	56.7	1/9/2011 6:21	62.6	2/9/2011 23:31	61.1	4/9/2011 0:41	59.8	5/9/2011 1:51	58.6	6/9/2011 3:01	57.5
31/8/2011 5:16	56.3	1/9/2011 6:26	61.7	2/9/2011 23:36	60.8	4/9/2011 0:46	59.9	5/9/2011 1:56	57.5	6/9/2011 3:06	57.1
31/8/2011 5:21	56.5	1/9/2011 6:31	61.4	2/9/2011 23:41	60.5	4/9/2011 0:51	59.7	5/9/2011 2:01	58.1	6/9/2011 3:11	57.4
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31/8/2011 5:31	57.1	1/9/2011 6:41	61.3	2/9/2011 23:51	61.0	4/9/2011 1:01	60.1	5/9/2011 2:11	57.3	6/9/2011 3:21	56.8
31/8/2011 5:36	57.4	1/9/2011 6:46	63.0	2/9/2011 23:56	62.0	4/9/2011 1:06	60.0	5/9/2011 2:16	56.6	6/9/2011 3:26	57.0
31/8/2011 5:41	63.1	1/9/2011 6:51	62.9	3/9/2011 0:01	60.2	4/9/2011 1:11	60.0	5/9/2011 2:21	56.5	6/9/2011 3:31	57.7
31/8/2011 5:46	58.0	1/9/2011 6:56	62.0	3/9/2011 0:06	60.4	4/9/2011 1:16	59.7	5/9/2011 2:26	56.6	6/9/2011 3:36	56.3
31/8/2011 5:51	59.7	1/9/2011 23:01	61.3	3/9/2011 0:11	60.7	4/9/2011 1:21	59.7	5/9/2011 2:31	55.8	6/9/2011 3:41	56.2
31/8/2011 5:56	59.8	1/9/2011 23:06	61.5	3/9/2011 0:16	61.1	4/9/2011 1:26	59.5	5/9/2011 2:36	57.6	6/9/2011 3:46	57.0
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31/8/2011 6:06	59.3	1/9/2011 23:16	60.7	3/9/2011 0:26	60.5	4/9/2011 1:36	59.4	5/9/2011 2:46	55.6	6/9/2011 3:56	56.4
31/8/2011 6:11	59.1	1/9/2011 23:21	61.0	3/9/2011 0:31	60.4	4/9/2011 1:41	60.0	5/9/2011 2:51	55.5	6/9/2011 4:01	56.1
31/8/2011 6:16	59.9	1/9/2011 23:26	61.3	3/9/2011 0:36	60.6	4/9/2011 1:46	58.9	5/9/2011 2:56	55.6	6/9/2011 4:06	56.2
31/8/2011 6:21	60.8	1/9/2011 23:31	61.7	3/9/2011 0:41	60.6	4/9/2011 1:51	59.7	5/9/2011 3:01	56.0	6/9/2011 4:11	56.1
31/8/2011 6:26	61.6	1/9/2011 23:36	60.7	3/9/2011 0:46	60.4	4/9/2011 1:56	59.0	5/9/2011 3:06	56.0	6/9/2011 4:16	56.8
31/8/2011 6:31	61.1	1/9/2011 23:41	60.2	3/9/2011 0:51	59.5	4/9/2011 2:01	59.3	5/9/2011 3:11	56.4	6/9/2011 4:21	56.2
31/8/2011 6:36	60.7	1/9/2011 23:46	60.5	3/9/2011 0:56	59.2	4/9/2011 2:06	59.1	5/9/2011 3:16	56.7	6/9/2011 4:26	55.9
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31/8/2011 6:51	62.5	2/9/2011 0:01	60.5	3/9/2011 1:11	59.8	4/9/2011 2:21	58.6	5/9/2011 3:31	54.0	6/9/2011 4:41	56.5
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31/8/2011 23:11	60.9	2/9/2011 0:21	59.7	3/9/2011 1:31	59.9	4/9/2011 2:41	58.2	5/9/2011 3:51	54.9	6/9/2011 5:01	57.0
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1/9/2011 1:26	58.5	2/9/2011 2:36	60.6	3/9/2011 3:46	57.0	4/9/2011 4:56	59.8	5/9/2011 6:06	59.5	6/9/2011 23:16	60.7
1/9/2011 1:31	58.6	2/9/2011 2:41	56.5	3/9/2011 3:51	57.9	4/9/2011 5:01	58.8	5/9/2011 6:11	59.9	6/9/2011 23:21	61.2
1/9/2011 1:36	57.6	2/9/2011 2:46	61.8	3/9/2011 3:56	56.5	4/9/2011 5:06	59.0	5/9/2011 6:16	60.5	6/9/2011 23:26	61.1
1/9/2011 1:41	58.2	2/9/2011 2:51	56.6	3/9/2011 4:01	58.2	4/9/2011 5:11	60.0	5/9/2011 6:21	60.7	6/9/2011 23:31	61.0
1/9/2011 1:46	58.1	2/9/2011 2:56	55.7	3/9/2011 4:06	56.8	4/9/2011 5:16	60.4	5/9/2011 6:26	61.0	6/9/2011 23:36	61.1
1/9/2011 1:51	58.9	2/9/2011 3:01	56.2	3/9/2011 4:11	57.9	4/9/2011 5:21	60.5	5/9/2011 6:31	62.0	6/9/2011 23:41	60.5
1/9/2011 1:56	57.6	2/9/2011 3:06	56.0	3/9/2011 4:16	58.8	4/9/2011 5:26	59.7	5/9/2011 6:36	61.8	6/9/2011 23:46	60.7
1/9/2011 2:01	57.5	2/9/2011 3:11	56.1	3/9/2011 4:21	59.0	4/9/2011 5:31	58.7	5/9/2011 6:41	62.3	6/9/2011 23:51	61.0
1/9/2011 2:06	57.7	2/9/2011 3:16	56.4	3/9/2011 4:26	58.6	4/9/2011 5:36	59.4	5/9/2011 6:46	62.3	6/9/2011 23:56	60.4
1/9/2011 2:11	57.8	2/9/2011 3:21	55.9	3/9/2011 4:31	59.4	4/9/2011 5:41	60.2	5/9/2011 6:51	62.8	7/9/2011 0:01	60.6
1/9/2011 2:16	58.3	2/9/2011 3:26	55.7	3/9/2011 4:36	59.9	4/9/2011 5:46	60.8	5/9/2011 6:56	63.3	7/9/2011 0:06	60.6
1/9/2011 2:21	58.3	2/9/2011 3:31	55.8	3/9/2011 4:41	59.9	4/9/2011 5:51	60.6	5/9/2011 23:01	60.9	7/9/2011 0:11	60.2
1/9/2011 2:26	57.1	2/9/2011 3:36	55.2	3/9/2011 4:46	60.8	4/9/2011 5:56	60.3	5/9/2011 23:06	61.6	7/9/2011 0:16	60.3
1/9/2011 2:31	57.3	2/9/2011 3:41	56.3	3/9/2011 4:51	61.0	4/9/2011 6:01	61.7	5/9/2011 23:11	60.7	7/9/2011 0:21	60.1
1/9/2011 2:36	56.7	2/9/2011 3:46	56.8	3/9/2011 4:56	61.0	4/9/2011 6:06	61.2	5/9/2011 23:16	61.0	7/9/2011 0:26	60.0
1/9/2011 2:41	56.6	2/9/2011 3:51	56.9	3/9/2011 5:01	61.2	4/9/2011 6:11	61.9	5/9/2011 23:21	60.8	7/9/2011 0:31	59.9
1/9/2011 2:46	56.6	2/9/2011 3:56	57.1	3/9/2011 5:06	61.3	4/9/2011 6:16	60.5	5/9/2011 23:26	61.1	7/9/2011 0:36	59.1
1/9/2011 2:51	57.3	2/9/2011 4:01	56.8	3/9/2011 5:11	60.9	4/9/2011 6:21	61.3	5/9/2011 23:31	61.4	7/9/2011 0:41	59.8
1/9/2011 2:56	57.7	2/9/2011 4:06	57.4	3/9/2011 5:16	61.3	4/9/2011 6:26	61.7	5/9/2011 23:36	60.8	7/9/2011 0:46	59.2
1/9/2011 3:01	57.1	2/9/2011 4:11	57.5	3/9/2011 5:21	60.8	4/9/2011 6:31	61.1	5/9/2011 23:41	61.2	7/9/2011 0:51	59.4
1/9/2011 3:06	56.3	2/9/2011 4:16	57.8	3/9/2011 5:26	61.0	4/9/2011 6:36	62.2	5/9/2011 23:46	61.3	7/9/2011 0:56	58.3
1/9/2011 3:11	56.0	2/9/2011 4:21	57.1	3/9/2011 5:31	61.2	4/9/2011 6:41	62.7	5/9/2011 23:51	60.9	7/9/2011 1:01	58.8
1/9/2011 3:16	57.3	2/9/2011 4:26	56.5	3/9/2011 5:36	62.1	4/9/2011 6:46	63.5	5/9/2011 23:56	60.7	7/9/2011 1:06	58.7
1/9/2011 3:21	56.9	2/9/2011 4:31	56.7	3/9/2011 5:41	61.6	4/9/2011 6:51	62.1	6/9/2011 0:01	60.5	7/9/2011 1:11	58.9
1/9/2011 3:26	55.3	2/9/2011 4:36	55.8	3/9/2011 5:46	63.1	4/9/2011 6:56	62.9	6/9/2011 0:06	59.9	7/9/2011 1:16	58.7
1/9/2011 3:31	55.7	2/9/2011 4:41	56.4	3/9/2011 5:51	62.9	4/9/2011 23:01	60.6	6/9/2011 0:11	61.0	7/9/2011 1:21	58.0
1/9/2011 3:36	56.4	2/9/2011 4:46	56.4	3/9/2011 5:56	62.4	4/9/2011 23:06	60.9	6/9/2011 0:16	60.5	7/9/2011 1:26	57.7
1/9/2011 3:41	56.0	2/9/2011 4:51	57.6	3/9/2011 6:01	62.6	4/9/2011 23:11	61.2	6/9/2011 0:21	60.4	7/9/2011 1:31	59.4
1/9/2011 3:46	55.7	2/9/2011 4:56	58.8	3/9/2011 6:06	62.6	4/9/2011 23:16	61.6	6/9/2011 0:26	61.9	7/9/2011 1:36	57.7
1/9/2011 3:51	56.3	2/9/2011 5:01	57.3	3/9/2011 6:11	62.5	4/9/2011 23:21	61.5	6/9/2011 0:31	62.3	7/9/2011 1:41	57.5
1/9/2011 3:56	55.1	2/9/2011 5:06	56.4	3/9/2011 6:16	63.3	4/9/2011 23:26	60.6	6/9/2011 0:36	61.1	7/9/2011 1:46	57.6
1/9/2011 4:01	56.2	2/9/2011 5:11	55.3	3/9/2011 6:21	63.5	4/9/2011 23:31	61.1	6/9/2011 0:41	60.5	7/9/2011 1:51	57.3
1/9/2011 4:06	55.6	2/9/2011 5:16	58.6	3/9/2011 6:26	63.3	4/9/2011 23:36	60.8	6/9/2011 0:46	59.6	7/9/2011 1:56	57.0
1/9/2011 4:11	55.6	2/9/2011 5:21	57.1	3/9/2011 6:31	67.8	4/9/2011 23:41	61.1	6/9/2011 0:51	59.1	7/9/2011 2:01	57.2
1/9/2011 4:16	56.8	2/9/2011 5:26	58.0	3/9/2011 6:36	64.2	4/9/2011 23:46	60.8	6/9/2011 0:56	60.0	7/9/2011 2:06	57.1
1/9/2011 4:21	56.1	2/9/2011 5:31	58.4	3/9/2011 6:41	63.8	4/9/2011 23:51	60.8	6/9/2011 1:01	59.3	7/9/2011 2:11	56.1
1/9/2011 4:26	56.8	2/9/2011 5:36	57.3	3/9/2011 6:46	63.5	4/9/2011 23:56	60.4	6/9/2011 1:06	59.2	7/9/2011 2:16	56.9
1/9/2011 4:31	56.8	2/9/2011 5:41	58.6	3/9/2011 6:51	64.5	5/9/2011 0:01	61.0	6/9/2011 1:11	59.8	7/9/2011 2:21	57.5

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

7/9/2011 2:26	57.7	8/9/2011 3:36	56.4	9/9/2011 4:46	55.8	10/9/2011 5:56	61.2	11/9/2011 23:06	67.8	13/9/2011 0:16	61.4
7/9/2011 2:31	57.2	8/9/2011 3:41	56.4	9/9/2011 4:51	56.4	10/9/2011 6:01	61.4	11/9/2011 23:11	67.4	13/9/2011 0:21	61.2
7/9/2011 2:36	57.0	8/9/2011 3:46	56.1	9/9/2011 4:56	56.2	10/9/2011 6:06	63.0	11/9/2011 23:16	64.9	13/9/2011 0:26	60.4
7/9/2011 2:41	57.2	8/9/2011 3:51	56.2	9/9/2011 5:01	56.0	10/9/2011 6:11	62.0	11/9/2011 23:21	63.7	13/9/2011 0:31	61.0
7/9/2011 2:46	56.9	8/9/2011 3:56	55.4	9/9/2011 5:06	56.5	10/9/2011 6:16	63.2	11/9/2011 23:26	63.2	13/9/2011 0:36	61.0
7/9/2011 2:51	56.6	8/9/2011 4:01	54.6	9/9/2011 5:11	55.9	10/9/2011 6:21	63.1	11/9/2011 23:31	62.6	13/9/2011 0:41	60.9
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7/9/2011 3:11	56.8	8/9/2011 4:21	57.0	9/9/2011 5:31	58.1	10/9/2011 6:41	63.4	11/9/2011 23:51	62.2	13/9/2011 1:01	60.1
7/9/2011 3:16	56.9	8/9/2011 4:26	56.3	9/9/2011 5:36	57.7	10/9/2011 6:46	63.7	11/9/2011 23:56	62.2	13/9/2011 1:06	60.4
7/9/2011 3:21	55.6	8/9/2011 4:31	56.5	9/9/2011 5:41	58.5	10/9/2011 6:51	64.0	12/9/2011 0:01	62.6	13/9/2011 1:11	60.9
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7/9/2011 3:31	55.8	8/9/2011 4:41	59.2	9/9/2011 5:51	58.7	10/9/2011 23:01	62.4	12/9/2011 0:11	62.4	13/9/2011 1:21	59.5
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8/9/2011 0:46	58.9	9/9/2011 1:56	57.2	10/9/2011 3:06	60.9	11/9/2011 4:16	58.4	12/9/2011 5:26	58.1	13/9/2011 6:36	61.0
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8/9/2011 0:56	58.3	9/9/2011 2:06	57.3	10/9/2011 3:16	59.7	11/9/2011 4:26	59.1	12/9/2011 5:36	58.3	13/9/2011 6:46	61.2
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8/9/2011 1:56	57.3	9/9/2011 3:06	55.7	10/9/2011 4:16	59.3	11/9/2011 5:26	59.0	12/9/2011 6:36	61.7	13/9/2011 23:46	60.5
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8/9/2011 2:06	57.0	9/9/2011 3:16	55.7	10/9/2011 4:26	60.6	11/9/2011 5:36	58.9	12/9/2011 6:46	63.0	13/9/2011 23:56	59.6
8/9/2011 2:11	56.4	9/9/2011 3:21	56.7	10/9/2011 4:31	59.8	11/9/2011 5:41	58.3	12/9/2011 6:51	62.8	14/9/2011 0:01	60.1
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8/9/2011 2:21	57.0	9/9/2011 3:31	56.4	10/9/2011 4:41	59.7	11/9/2011 5:51	59.0	12/9/2011 23:01	60.9	14/9/2011 0:11	60.3
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8/9/2011 2:31	57.2	9/9/2011 3:41	55.9	10/9/2011 4:51	60.4	11/9/2011 6:01	58.9	12/9/2011 23:11	61.0	14/9/2011 0:21	59.4
8/9/2011 2:36	57.2	9/9/2011 3:46	56.3	10/9/2011 4:56	59.8	11/9/2011 6:06	59.8	12/9/2011 23:16	60.7	14/9/2011 0:26	59.5
8/9/2011 2:41	55.7	9/9/2011 3:51	56.6	10/9/2011 5:01	60.0	11/9/2011 6:11	60.1	12/9/2011 23:21	61.3	14/9/2011 0:31	59.2
8/9/2011 2:46	56.9	9/9/2011 3:56	56.5	10/9/2011 5:06	60.8	11/9/2011 6:16	59.9	12/9/2011 23:26	61.1	14/9/2011 0:36	58.7
8/9/2011 2:51	57.0	9/9/2011 4:01	56.2	10/9/2011 5:11	60.1	11/9/2011 6:21	60.0	12/9/2011 23:31	61.2	14/9/2011 0:41	58.3
8/9/2011 2:56	56.7	9/9/2011 4:06	57.4	10/9/2011 5:16	60.9	11/9/2011 6:26	60.7	12/9/2011 23:36	60.8	14/9/2011 0:46	59.0
8/9/2011 3:01	56.6	9/9/2011 4:11	55.9	10/9/2011 5:21	60.8	11/9/2011 6:31	60.1	12/9/2011 23:41	61.5	14/9/2011 0:51	58.1
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8/9/2011 3:26	55.8	9/9/2011 4:36	57.6	10/9/2011 5:46	61.5	11/9/2011 6:56	60.9	13/9/2011 0:06	60.8	14/9/2011 1:16	58.0
8/9/2011 3:31	57.3	9/9/2011 4:41	56.1	10/9/2011 5:51	61.0	11/9/2011 23:01	67.0	13/9/2011 0:11	60.9	14/9/2011 1:21	58.4

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

14/9/2011 1:26	57.3	15/9/2011 2:36	56.0	16/9/2011 3:46	56.5	17/9/2011 4:56	57.9	18/9/2011 6:06	58.2	19/9/2011 23:16	61.8
14/9/2011 1:31	57.2	15/9/2011 2:41	57.7	16/9/2011 3:51	55.1	17/9/2011 5:01	57.5	18/9/2011 6:11	59.2	19/9/2011 23:21	62.1
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14/9/2011 1:46	58.2	15/9/2011 2:56	55.7	16/9/2011 4:06	55.7	17/9/2011 5:16	58.3	18/9/2011 6:26	58.9	19/9/2011 23:36	62.2
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14/9/2011 2:11	56.2	15/9/2011 3:21	61.3	16/9/2011 4:31	56.1	17/9/2011 5:41	59.8	18/9/2011 6:51	60.9	20/9/2011 0:01	61.9
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14/9/2011 2:21	56.3	15/9/2011 3:31	59.9	16/9/2011 4:41	56.1	17/9/2011 5:51	60.2	18/9/2011 23:01	61.5	20/9/2011 0:11	62.2
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14/9/2011 2:51	55.6	15/9/2011 4:01	61.4	16/9/2011 5:11	56.7	17/9/2011 6:21	61.2	18/9/2011 23:31	60.6	20/9/2011 0:41	60.3
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14/9/2011 3:51	55.1	15/9/2011 5:01	60.1	16/9/2011 6:11	60.3	17/9/2011 23:21	61.8	19/9/2011 0:31	58.8	20/9/2011 1:41	58.9
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14/9/2011 4:26	54.9	15/9/2011 5:36	62.8	16/9/2011 6:46	61.8	17/9/2011 23:56	61.0	19/9/2011 1:06	58.8	20/9/2011 2:16	59.5
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14/9/2011 23:16	60.7	16/9/2011 0:26	59.9	17/9/2011 1:36	59.7	18/9/2011 2:46	57.7	19/9/2011 3:56	55.8	20/9/2011 5:06	58.2
14/9/2011 23:21	60.9	16/9/2011 0:31	59.3	17/9/2011 1:41	60.5	18/9/2011 2:51	58.4	19/9/2011 4:01	55.2	20/9/2011 5:11	57.2
14/9/2011 23:26	61.0	16/9/2011 0:36	60.3	17/9/2011 1:46	59.3	18/9/2011 2:56	57.9	19/9/2011 4:06	56.2	20/9/2011 5:16	57.5
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14/9/2011 23:41	60.1	16/9/2011 0:51	59.4	17/9/2011 2:01	59.0	18/9/2011 3:11	58.3	19/9/2011 4:21	56.3	20/9/2011 5:31	57.7
14/9/2011 23:46	60.6	16/9/2011 0:56	59.1	17/9/2011 2:06	59.0	18/9/2011 3:16	60.8	19/9/2011 4:26	55.7	20/9/2011 5:36	59.3
14/9/2011 23:51	60.4	16/9/2011 1:01	58.8	17/9/2011 2:11	59.1	18/9/2011 3:21	57.3	19/9/2011 4:31	56.0	20/9/2011 5:41	65.2
14/9/2011 23:56	60.3	16/9/2011 1:06	59.5	17/9/2011 2:16	58.7	18/9/2011 3:26	57.0	19/9/2011 4:36	55.5	20/9/2011 5:46	63.6
15/9/2011 0:01	60.8	16/9/2011 1:11	59.8	17/9/2011 2:21	58.3	18/9/2011 3:31	57.9	19/9/2011 4:41	55.6	20/9/2011 5:51	60.3
15/9/2011 0:06	59.8	16/9/2011 1:16	58.9	17/9/2011 2:26	58.8	18/9/2011 3:36	57.4	19/9/2011 4:46	55.8	20/9/2011 5:56	59.0
15/9/2011 0:11	60.3	16/9/2011 1:21	59.1	17/9/2011 2:31	58.6	18/9/2011 3:41	57.6	19/9/2011 4:51	55.6	20/9/2011 6:01	59.7
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15/9/2011 0:31	59.3	16/9/2011 1:41	57.7	17/9/2011 2:51	58.5	18/9/2011 4:01	57.6	19/9/2011 5:11	56.2	20/9/2011 6:21	61.3
15/9/2011 0:36	60.5	16/9/2011 1:46	57.4	17/9/2011 2:56	58.4	18/9/2011 4:06	57.5	19/9/2011 5:16	57.7	20/9/2011 6:26	64.0
15/9/2011 0:41	59.7	16/9/2011 1:51	57.6	17/9/2011 3:01	59.3	18/9/2011 4:11	57.0	19/9/2011 5:21	56.9	20/9/2011 6:31	65.2
15/9/2011 0:46	59.2	16/9/2011 1:56	57.3	17/9/2011 3:06	58.2	18/9/2011 4:16	57.3	19/9/2011 5:26	57.0	20/9/2011 6:36	62.0
15/9/2011 0:51	58.1	16/9/2011 2:01	57.7	17/9/2011 3:11	58.1	18/9/2011 4:21	57.7	19/9/2011 5:31	57.5	20/9/2011 6:41	62.5
15/9/2011 0:56	59.0	16/9/2011 2:06	57.7	17/9/2011 3:16	58.3	18/9/2011 4:26	56.8	19/9/2011 5:36	57.5	20/9/2011 6:46	63.1
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15/9/2011 1:06	58.4	16/9/2011 2:16	58.1	17/9/2011 3:26	58.8	18/9/2011 4:36	57.0	19/9/2011 5:46	58.7	20/9/2011 6:56	63.3
15/9/2011 1:11	58.4	16/9/2011 2:21	57.6	17/9/2011 3:31	57.7	18/9/2011 4:41	57.3	19/9/2011 5:51	58.6	20/9/2011 23:01	60.6
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15/9/2011 1:21	57.8	16/9/2011 2:31	57.7	17/9/2011 3:41	58.2	18/9/2011 4:51	57.0	19/9/2011 6:01	59.1	20/9/2011 23:11	61.1
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15/9/2011 1:41	59.6	16/9/2011 2:51	57.5	17/9/2011 4:01	57.7	18/9/2011 5:11	56.5	19/9/2011 6:21	59.3	20/9/2011 23:31	60.6
15/9/2011 1:46	58.0	16/9/2011 2:56	56.7	17/9/2011 4:06	58.1	18/9/2011 5:16	58.0	19/9/2011 6:26	60.4	20/9/2011 23:36	60.3
15/9/2011 1:51	57.2	16/9/2011 3:01	56.7	17/9/2011 4:11	57.2	18/9/2011 5:21	57.3	19/9/2011 6:31	61.7	20/9/2011 23:41	61.8
15/9/2011 1:56	57.4	16/9/2011 3:06	56.0	17/9/2011 4:16	57.6	18/9/2011 5:26	57.4	19/9/2011 6:36	61.2	20/9/2011 23:46	61.0
15/9/2011 2:01	56.4	16/9/2011 3:11	56.9	17/9/2011 4:21	57.9	18/9/2011 5:31	57.0	19/9/2011 6:41	61.6	20/9/2011 23:51	60.0
15/9/2011 2:06	57.5	16/9/2011 3:16	56.7	17/9/2011 4:26	61.3	18/9/2011 5:36	58.4	19/9/2011 6:46	62.0	20/9/2011 23:56	60.5
15/9/2011 2:11	56.8	16/9/2011 3:21	56.8	17/9/2011 4:31	57.7	18/9/2011 5:41	57.8	19/9/2011 6:51	62.6	21/9/2011 0:01	60.5
15/9/2011 2:16	57.5	16/9/2011 3:26	56.1	17/9/2011 4:36	58.3	18/9/2011 5:46	59.2	19/9/2011 6:56	63.5	21/9/2011 0:06	60.0
15/9/2011 2:21	57.0	16/9/2011 3:31	55.9	17/9/2011 4:41	57.9	18/9/2011 5:51	58.4	19/9/2011 23:01	62.7	21/9/2011 0:11	60.2
15/9/2011 2:26	57.0	16/9/2011 3:36	56.6	17/9/2011 4:46	58.0	18/9/2011 5:56	57.9	19/9/2011 23:06	62.2	21/9/2011 0:16	60.1
15/9/2011 2:31	56.6	16/9/2011 3:41	56.9	17/9/2011 4:51	57.9	18/9/2011 6:01	59.0	19/9/2011 23:11	62.2	21/9/2011 0:21	62.6

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

21/9/2011 0:26	59.5	22/9/2011 1:36	57.4	23/9/2011 2:46	56.9	24/9/2011 3:56	58.3	25/9/2011 5:06	56.8	26/9/2011 6:16	61.5
21/9/2011 0:31	60.4	22/9/2011 1:41	57.6	23/9/2011 2:51	57.7	24/9/2011 4:01	58.4	25/9/2011 5:11	56.4	26/9/2011 6:21	61.4
21/9/2011 0:36	59.3	22/9/2011 1:46	57.6	23/9/2011 2:56	57.0	24/9/2011 4:06	58.1	25/9/2011 5:16	56.8	26/9/2011 6:26	62.2
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21/9/2011 0:51	59.2	22/9/2011 2:01	57.3	23/9/2011 3:11	55.8	24/9/2011 4:21	57.5	25/9/2011 5:31	57.1	26/9/2011 6:41	62.5
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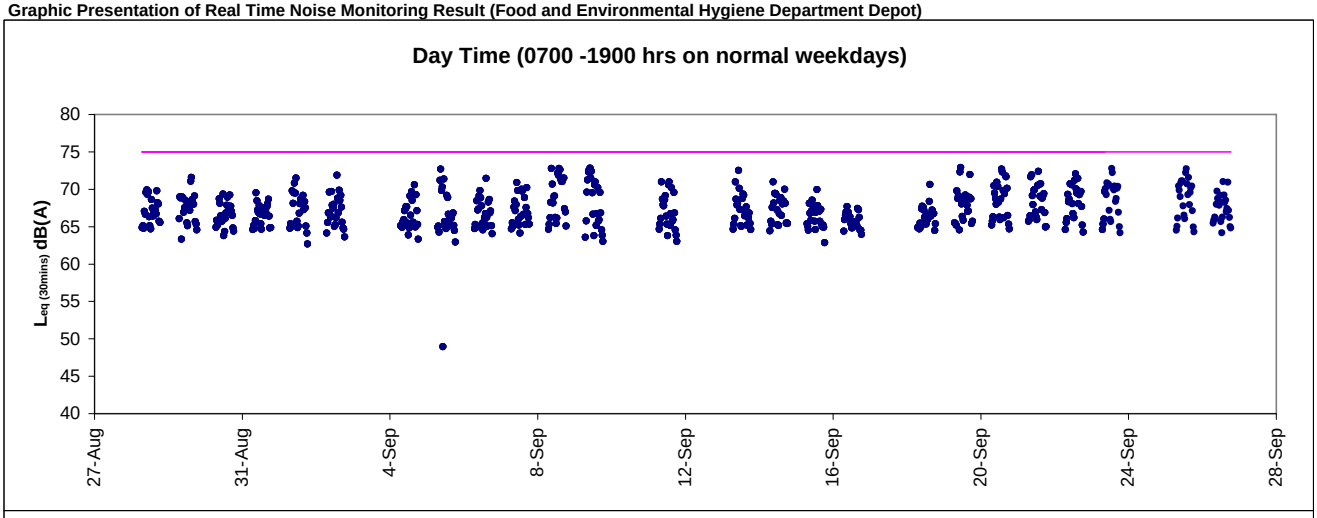
22/9/2011 1:31	57.7	23/9/2011 2:41	57.4	24/9/2011 3:51	58.0	25/9/2011 5:01	56.8	26/9/2011 6:11	59.7	27/9/2011 23:21	60.4

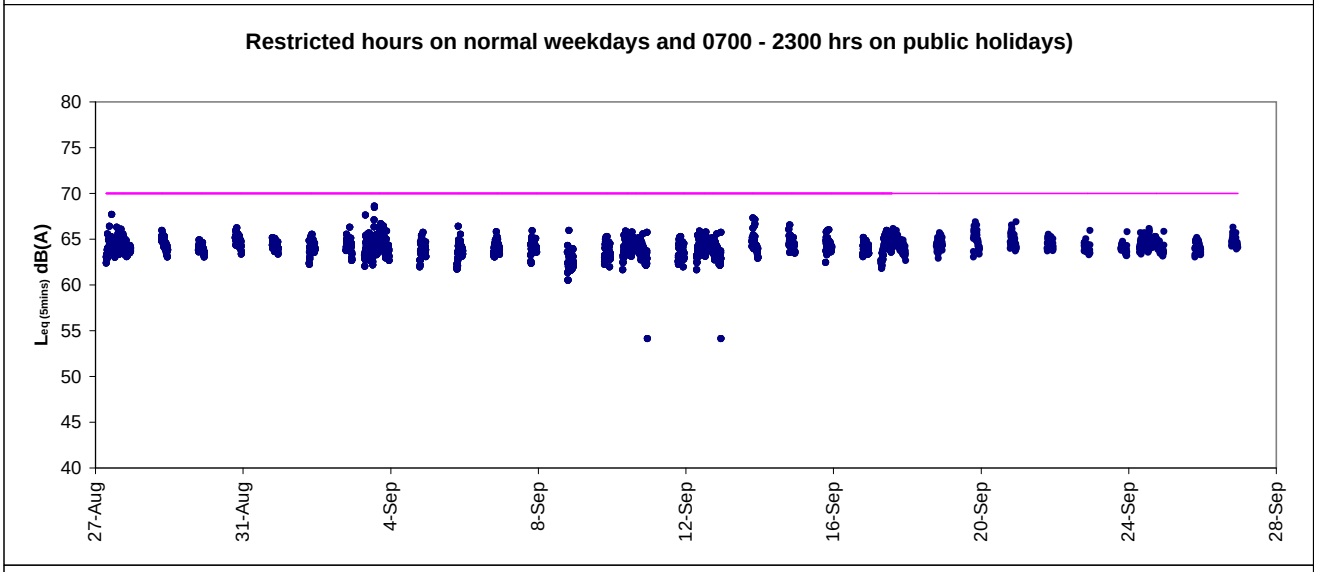
Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

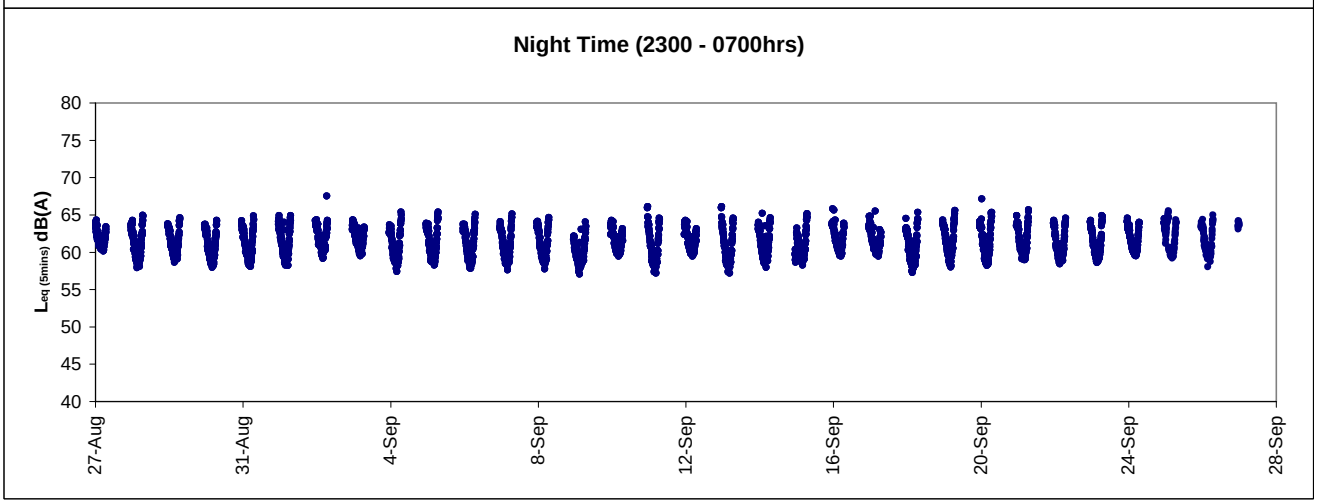
27/9/2011 23:26	61.1
27/9/2011 23:31	61.1
27/9/2011 23:36	60.4
27/9/2011 23:41	60.5
27/9/2011 23:46	61.4
27/9/2011 23:51	60.4
27/9/2011 23:56	60.4

*Exceedance recorded during monitoring compliance check with NCO.

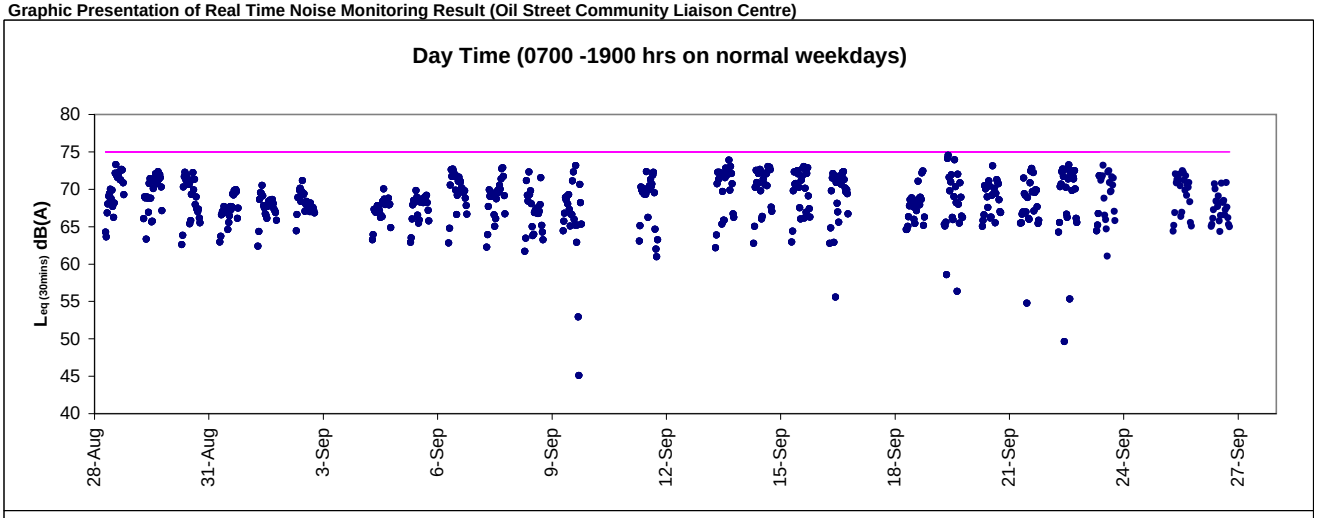
Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)

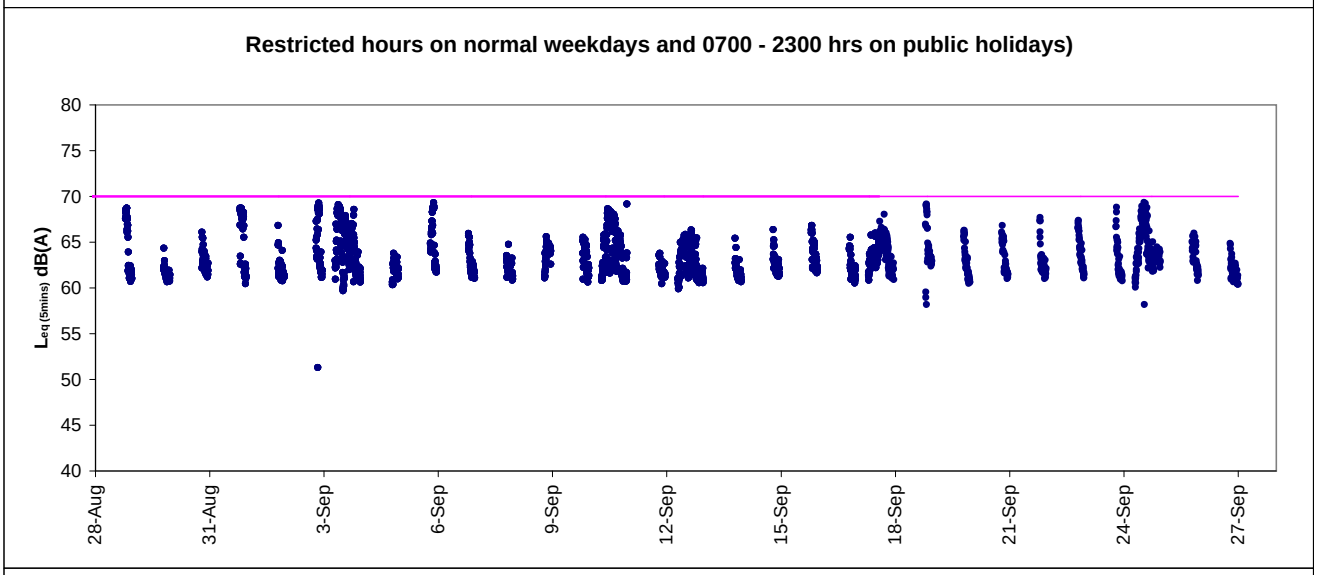


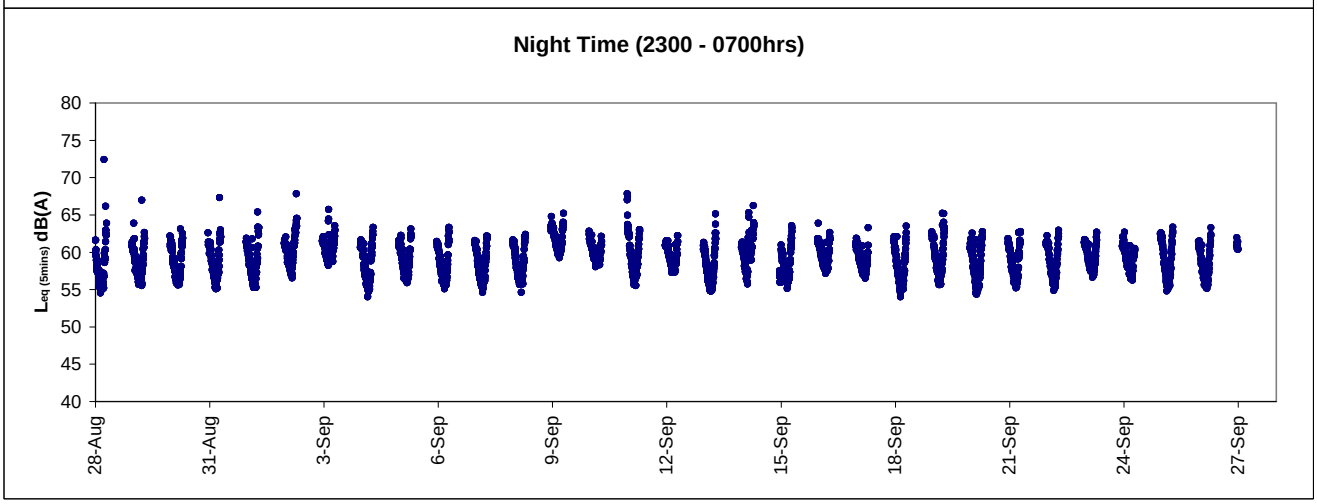




Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Centre)







Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

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

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

Event / Action Plan for Construction Air Quality

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

Appendix 6.2

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N066	7-Sep-11	20:21	M1a - Harbour Road Sports Centre	72	Leq(5-min)	when one documented complaint was received.	70	**Possible reason:**	Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station.
								Remarks / Other Obs:	No construction work for Contract no. HK/2009/02 was conducted during the measurement; It is concluded that the exceedance was not due to the Project.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N067	20-Sep-11	8:16	M7e - IFC-Eastern End of Prodium	78	Leq(30-min)	when one documented complaint was received.	75	**Possible reason:**	Excavation by hydraulic extractor in construction site and refurbishment work that was on the upper level which is behind the monitoring station at IFC were conducted during monitoring
								Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedance. The noise levels of repeat-measurement at the same location as below: 20 September 2011 10:30 76 dB (A) Investigation found that the repeat measurement was exceeded the limit level of construction noise criteria 75 dB (A). Notification of exceedance was immediate informed to Contractor of HY/2009/18, RSS and IEC when the exceedances were recorded. During the noise monitoring on 20 September 2011, excavation by hydraulic extractor was observed through out the period of noise monitoring. Contractor had suspended the work after received the notification on the same day to review the plant operation and implement all noise reduction measures. Moreover, refurbishment works were observed on the upper level which is behind the monitoring station at IFC during both monitoring. Regarding to the noise exceedance recorded, the contractor was advised to erect noise barriers to reduce the noise level during operation. Additional monitoring was conducted on 20 September 2011 at 17:00. Excavation by hydraulic extractor operated with noise barrier deployed was observed during noise monitoring. No further exceedance was recorded after the mitigation measures were implemented. The noise levels of the same location as below: 20 September 2011 17:00 75 dB (A) No refurbishment works was observed in this monitoring. Exceedance caused by excavation work in which it was conducted near the monitoring station and noise barrier was not erected during operation while refurbishment works at IFC was considered not a major noise source during the monitoring. The noise level recorded at 17:00 on 20 Sep 2011 reduced to within the limit level when the works were conducted with noise barriers. Therefore, the contractor was reminded to setup noise barrier before conduct the operation.
								Remarks / Other Obs:	The limit level exceedance was due to excavation work. Effectiveness of the noise barrier will be further reviewed in the coming scheduled noise monitoring day.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N068	20-Sep-11	19:20	M1a - Harbour Road Sports Centre	72	Leq(5-min)	when one documented complaint	70	**Possible reason:**	Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station.
								Remarks / Other Obs:	Only materials transshipments for Contract no. HK/2009/02 was conducted during the measurement; it is concluded that the exceedance was not due to the Project.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N069	15-Sep-11	20:13	M1a - Harbour Road Sports Centre	72	Leq(5-min)	when one documented complaint was received.	70	**Possible reason:**	Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station.
								Remarks / Other Obs:	No construction work for Contract no. HK/2009/02 was conducted during the measurement; It is concluded that the exceedance was not due to the Project.

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. *Remarks: There will be counted as two complaints in this complaint log.*	
110730	30/07/2011	Mr. Tsui by ICC no. 1-305074350	Central	Construction noise generated by operations of Central-Interchange which is near the spa room at Four-Season Hotel. Also, the complaint enquired the commencement time of the construction on Saturday.	1) It was referred by AECOM to ET on 1 August 2011. 2) RSS confirmed that noisy plants from 2 vibratory hammers have been conducted in alternating manner for piling and drilling works for diaphragm wall construction. 3) With reference to the construction noise monitoring at IFC Western End of Podium, no exceedance was recorded on 4 August 2011 during monitoring while sheet piling works were undertaken during monitoring. 4) In order to reduce the noise impact to nearby noise sensitive receivers, Contractor has been implemented the following noise mitigation measures: - Erection of acoustic lining at the hoarding next to Four Seasons Hotel; - Temporary noise barrier with extended acoustic lining; - Reduced in plant such that only have one vibration hammer operating at the west side near Four	Closed

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

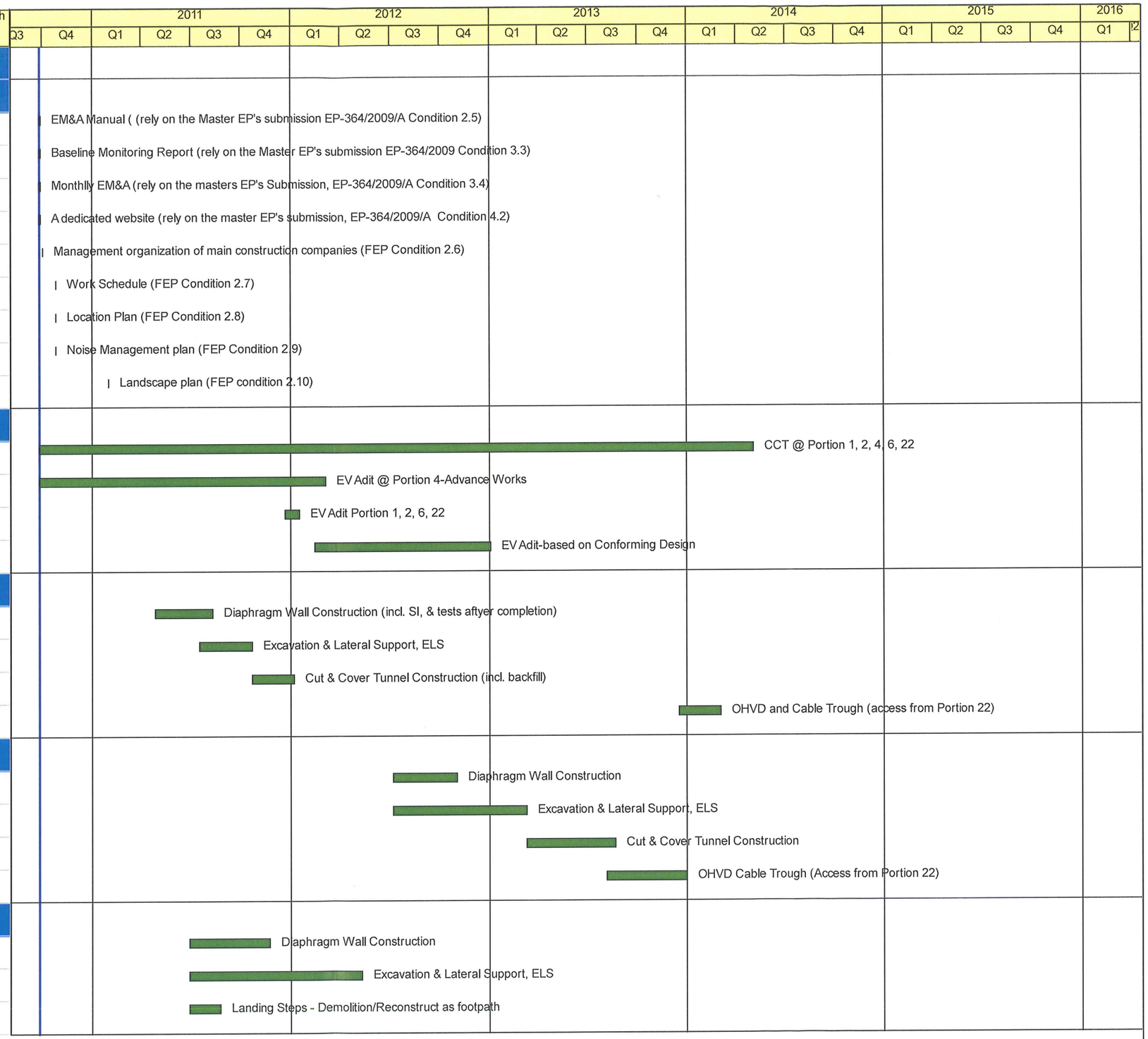
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				reclamation area.	and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period. 3) The drilling rig at HKCEC1 reclamation area 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.	
110826	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 excluse 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 IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011. 5) Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 6) In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse come from sea bed from entering the intake. 6) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation. 7) During on-site inspection, floating refuses observed	Waiting RSS respond

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the floating refuses were observed immigrating in the protective zone during investigation 8) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. It was noted that the intake (land side) is open assess to public, so that many activities such as fishing, feeding fish were conducted there even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point. 9) Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities. 10) Contractors have fulfilled the requirement of site 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	

Appendix 10.1

Construction Programme of Individual Contracts

Activity Name	Original Duration	Planned Start	Planned Finish
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 2.5)			
Baseline Monitoring Report (rely on the Master EP's submission EP-364/2009 Condition 3.3)			
Monthlly 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 aftyer 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	28-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

China State Construction Engineering (Hong Kong) Ltd.

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

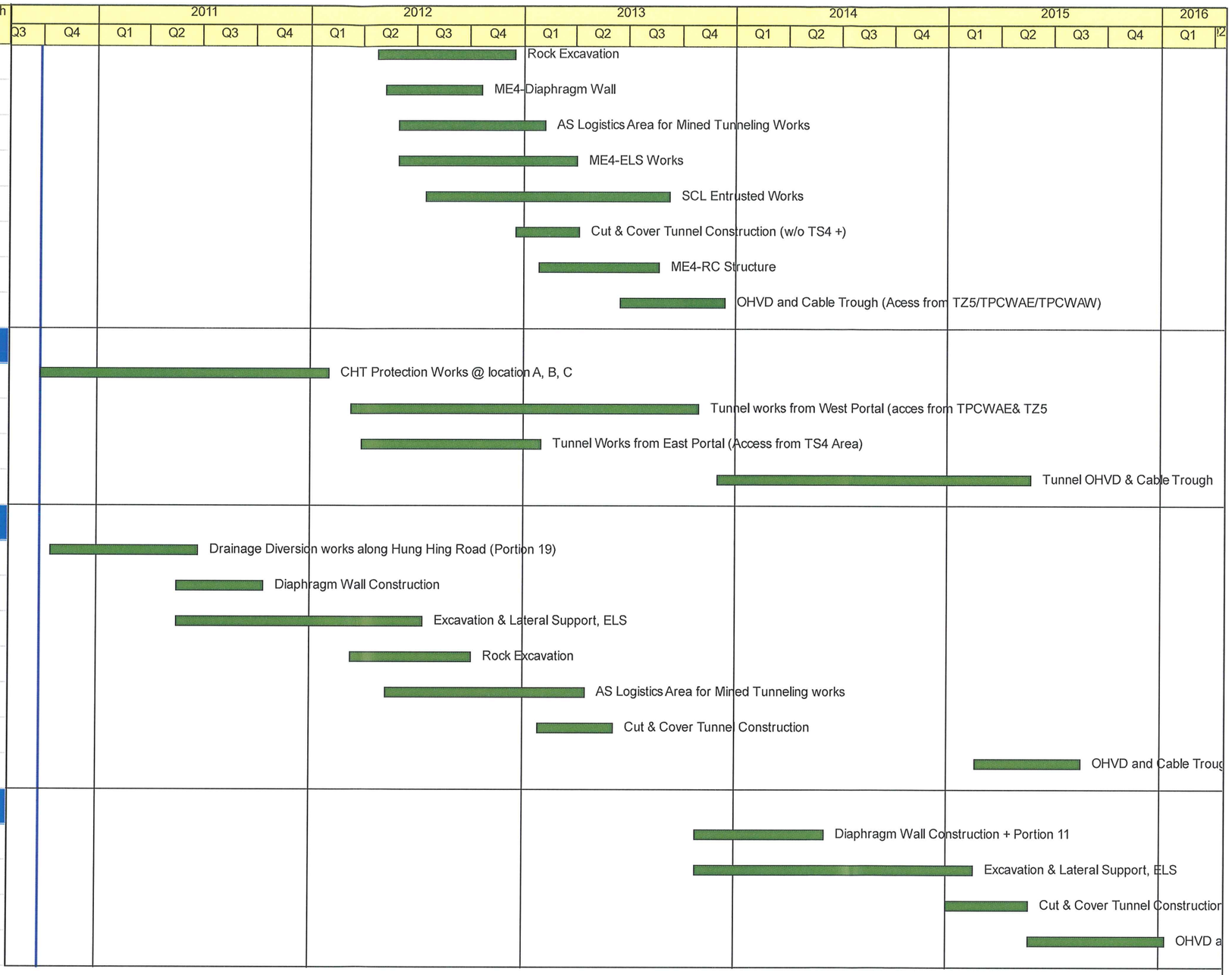
(CBTS Section)

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 ENG'RG. (HONG KONG) LTD

Activity Name	Original Duration	Planned Start	Planned Finish
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	09-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 (Acess 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 (acces from TPCWAE& TZ5	418d	12-Mar-12	30-Oct-13
Tunnel Works from East Portal (Access from TS4 Area)	214d	30-Mar-12	01-Feb-13
Tunnel OHVD & Cable Trough	384d	02-Dec-13	22-May-15
TPCWAE			
Drainage Diversion works along Hung Hing Road (Portion 19)	176d	15-Oct-10	24-Jun-11
Diaphragm Wall Construction	147d	20-May-11	13-Oct-11
Excavation & Lateral Support, ELS	421d	20-May-11	13-Jul-12
Rock Excavation	206d	12-Mar-12	03-Oct-12
AS Logistics Area for Mined Tunneling works	342d	12-May-12	18-Apr-13
Cut & Cover Tunnel Construction	130d	28-Jan-13	06-Jun-13
OHVD and Cable Trough(Access from TZ5/TPCWAW)	182d	18-Feb-15	18-Aug-15
TPCWAW & PORTION 11			
Diaphragm Wall Construction + Portion 11	222d	25-Oct-13	03-Jun-14
Excavation & Lateral Support, ELS	478d	25-Oct-13	14-Feb-15
Cut & Cover Tunnel Construction	143d	30-Dec-14	21-May-15
OHVD and Cable Trough Installation (Access from Portion 11)	235d	22-May-15	11-Jan-16



◆ Milestone
◆ Milestone
Remaining Work
Critical Remaining Work
Actual Work

China State Construction Engineering (Hong Kong) Ltd.

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

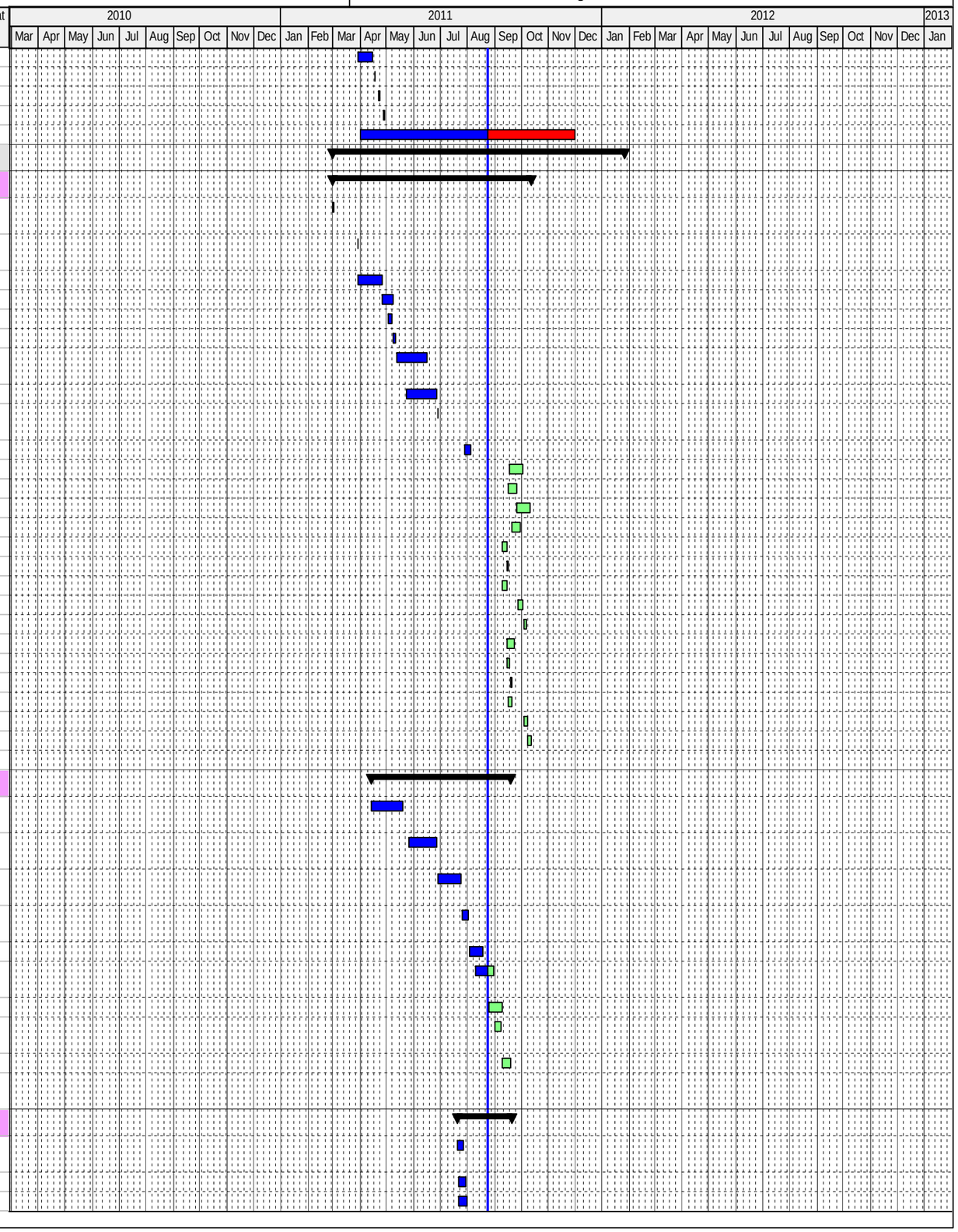
(CBTS Section)

Prepared by William Caluza

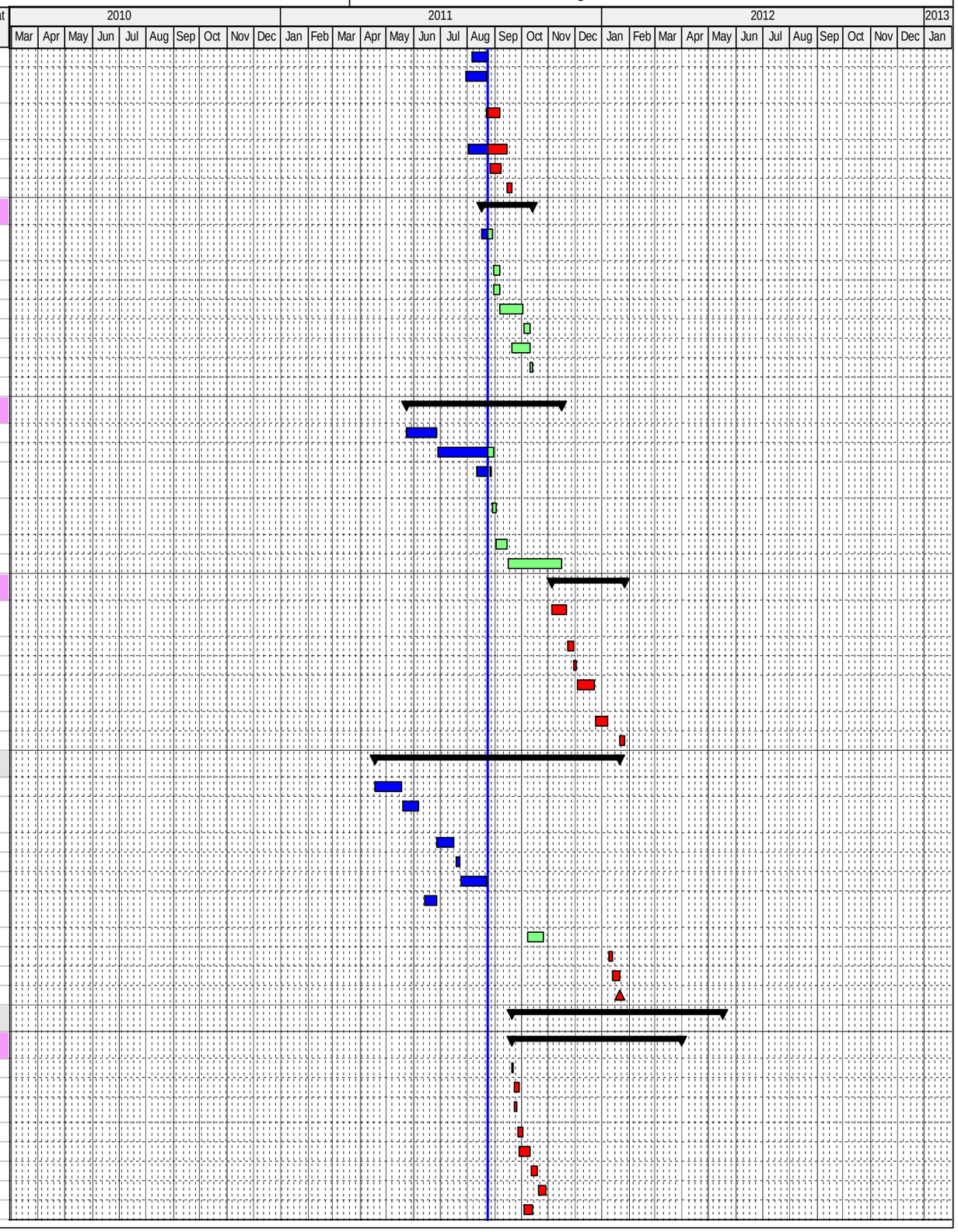
Date	Revision	Checked	Approved
14-Mar-11	Revision C	ST	KL
	File: 0001a		
	(Layout:HY/2009/15: CWB - Summary)		

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

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
38030	Request comment from RMO & TD comment for modify their current T	14d	30-03-11 A	15-04-11 A	
38040	Notice FEHD	1d	18-04-11 A	18-04-11 A	
38050	Water pipe diversion	2d	22-04-11 A	23-04-11 A	
38060	Modify of temporary hoarding at TTA area	2d	28-04-11 A	29-04-11 A	
38070	Stabilization works at the existing abutment by others	59d	01-04-11 A	30-11-11	0d
Remaining / Re-install Pipe Piles and Sheet Piles					
Remaining Pile Piling Works at Zone A to Zone F					
39000	Submission of method statement & ICE certificate for 100mm grout pipe at Zone E and Zone F	1d	01-03-11 A	01-03-11 A	
39010	Request consent by the engineer for 100mm grout pipe at Zone E and Zone F	7d	29-03-11 A	29-03-11 A	
39020	Drilling of 100mm for grouting works at Zone F (12 nos)	30d	29-03-11 A	26-04-11 A	
39030	Drilling of 100mm for grouting works at Zone E (8 nos)	20d	26-04-11 A	09-05-11 A	
39040	Grouting of 100mm at Zone F (12 nos)	5d	03-05-11 A	08-05-11 A	
39050	Grouting of 100mm at Zone E (8 nos)	3d	09-05-11 A	11-05-11 A	
39060	Request engineer's provide detail information for strengthening works at abutment A	14d	12-05-11 A	16-06-11 A	
39070	Review design and method statement for pipe piling works	14d	24-05-11 A	27-06-11 A	
39080	Submission of method statement and ICE certificate for pipe piling works at Zone A to Zone F	1d	28-06-11 A	29-06-11 A	
39090	Request consent by the engineer for pipe pile works at Zone A to Zone I	7d	28-07-11 A	04-08-11 A	
39100	Drilling of 219mm for pipe pile wall at Zone F (25 nos)	13d	17-09-11	03-10-11	60d
39110	Drilling of 219mm for pipe pile wall at Zone E (17 nos)	9d	16-09-11	26-09-11	75d
39120	Grouting of 219mm at Zone F (25 nos)	11d	26-09-11	10-10-11	74d
39130	Grouting of 219mm at Zone E (17 nos)	9d	21-09-11	30-09-11	80d
39140	Drilling of 100mm for grouting works at Zone C (15 nos)	4d	09-09-11	14-09-11	60d
39145	*Re-drilling of 100mm for grouting works at Zone C (9 nos)	2d	15-09-11	16-09-11	60d
39150	Drilling of 100mm for grouting works at Zone D (18 nos)	5d	09-09-11	15-09-11	75d
39160	Drilling of 100mm for grouting works at Zone E (19 nos)	5d	27-09-11	03-10-11	75d
39170	Drilling of 100mm for grouting works at Zone F (13 nos)	3d	04-10-11	07-10-11	60d
39175	*Re-grouting of 100mm at Zone A & B (52 nos)	8d	15-09-11	23-09-11	86d
39180	Grouting of 100mm at Zone C (15 nos)	3d	15-09-11	17-09-11	85d
39185	*Re-grouting of 100mm at Zone C (9 nos)	2d	19-09-11	20-09-11	85d
39190	Grouting of 100mm at Zone D (18 nos)	4d	16-09-11	20-09-11	85d
39200	Grouting of 100mm at Zone E (19 nos)	4d	04-10-11	08-10-11	75d
39210	Grouting of 100mm at Zone F (13 nos)	4d	08-10-11	12-10-11	72d
39220	Completion of works for pile pipe wall at Zone A to Zone F	0d		12-10-11	72d
Pile Piling Works at Stage 1 Zone D near LCSD Garden					
40000	Prepare and review ELS design and method statement at stage 1 (L-sharp)	30d	13-04-11 A	20-05-11 A	
40010	Submission of method statement and ICE certificate for pipe piling works at stage 1 Zone D near LCSD Garden	14d	26-05-11 A	28-06-11 A	
40020	Request consent by the engineer for pipe pile works at stage 1 Zone D near LCSD Garden	7d	29-06-11 A	25-07-11 A	
40030	Drilling of 100mm for grouting works at stage 1 Zone D near LCSD Garden (35 nos)	7d	26-07-11 A	02-08-11 A	
40040	Grouting of 100mm at stage 1 Zone D near LCSD Garden (35 nos)	7d	03-08-11 A	19-08-11 A	
40050	Drilling of 273mm for pipe pile wall at stage 1 Zone D near LCSD Garden (35 nos)	18d	10-08-11 A	31-08-11	60d
40060	Grouting of 273mm at stage 1 Zone D near LCSD Garden (35 nos)	14d	25-08-11	09-09-11	90d
40070	Drilling of 100mm for grouting works at stage 1 Zone D near LCSD Garden (35 nos)	7d	01-09-11	08-09-11	60d
40080	Grouting of 100mm at stage 1 Zone D near LCSD Garden (35 nos)	7d	10-09-11	19-09-11	90d
40090	Completion of works for pile pipe wall at stage 1 Zone D near LCSD Garden	0d		19-09-11	90d
Revised Basement Carpark Setting Out at stage 1 Zone F and Zone G					
50000	Revised basement carpark setting out alignment at stage 1 Zone F and Zone G	6d	21-07-11 A	27-07-11 A	
50010	Removal completed shoring at stage 1 Zone F and Zone G	7d	22-07-11 A	30-07-11 A	
50020	Removal completed sheet piling at stage 1 Zone F	10d	22-07-11 A	01-08-11 A	



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
50040	Removal completed sheet piling at stage 1 Zone G	5d	06-08-11 A	24-08-11 A	
50050	Prepare and review ELS design and method statement for revised setting out at stage 1 (L-sharp)	16d	30-07-11 A	23-08-11 A	
50060	Submission of method statement and ICE certificate for sheet piling works at stage 1 (L-sharp)	14d	23-08-11 A	06-09-11	6d
50070	Reinstallation sheet piling at stage 1 Zone F and Zone G	40d	02-08-11 A	14-09-11	0d
50080	Pre-drilling of 560mm for sheet piling installation at stage 1 Zone F	12d	26-08-11	08-09-11	4d
50090	Request consent by the engineer for excavation at stage 1 (L-sharp)	5d	15-09-11	20-09-11	0d
Remaining Pile Piling Works at Zone S					
39300	Perpare of method statement and ICE certificate for pipe piling works at Zone S (new design)	10d	17-08-11 A	29-08-11	71d
39305	Mobilization plant and platform	7d	30-08-11	06-09-11	71d
39310	Request consent by the engineer for pipe pile works at Zone S	7d	30-08-11	06-09-11	71d
39320	Drilling of 219mm for pipe pile wall at Zone S (21 nos)	21d	07-09-11	03-10-11	71d
39330	Drilling of 100mm for grouting works at Zone S (14 nos)	5d	04-10-11	10-10-11	71d
39340	Grouting of 219mm at Zone S (21 nos)	15d	21-09-11	10-10-11	74d
39350	Grouting of 100mm at Zone S (14 nos)	3d	11-10-11	13-10-11	71d
39370	Completion of works for pile pipe wall at Zone S	0d		13-10-11	71d
Sheet Piling Installation at Stage 2					
55000	Prepare and review ELS design and method statement at stage 2	21d	24-05-11 A	28-06-11 A	
55010	Submission of method statement and ICE certificate at stage 2	30d	28-06-11 A	30-08-11	43d
55020	Submission ICE check certificate for structural condition of temporary works	10d	12-08-11 A	27-08-11	43d
55030	Request consent by the engineer for pump water and removal shoring at (SP15 - SP19)	5d	29-08-11	02-09-11	43d
55040	Pumping water to around +0.5mpd and removal shoring at (SP15 - SP1	10d	03-09-11	15-09-11	43d
55050	Reinstallation sheet piling to -16mpd (SP15 - SP19)	50d	16-09-11	15-11-11	43d
Pre-drilling of 560mm for sheet piling installation near TC19					
55500	Perpare of method statement and ICE certificate for pre-drilling works near TC19 at (SP24 - SP27)	14d	05-11-11	21-11-11	0d
55510	Request consent by the engineer for pre-drilling works	7d	22-11-11	29-11-11	0d
55520	Mobilization plant and platform	3d	30-11-11	02-12-11	0d
55530	Pre-drilling of 560mm for sheet piling installation near TC19 at (SP24 - SP27)	18d	03-12-11	23-12-11	0d
55540	Sheet piling installation near TC19 at (SP24 - SP27)	10d	24-12-11	07-01-12	0d
55550	Request consent by the engineer for excavation at stage 2	5d	21-01-12	26-01-12	0d
Dewatering/Ground Water Control Measures					
45000	Prepare proposal for dewatering control	21d	18-04-11 A	18-05-11 A	
45010	Submission of method statement and ICE certificate for dewatering control at stage 1 (L-sharp)	7d	20-05-11 A	07-06-11 A	
45020	Installation of dewatering system at stage 1 (L-sharp)	12d	27-06-11 A	16-07-11 A	
45030	Pumping Test at stage 1 (L-sharp)	4d	19-07-11 A	23-07-11 A	
45040	Prepare and submission for pumping test report at stage 1 (L-sharp)	14d	25-07-11 A	23-08-11 A	
45050	Submission of method statement and ICE certificate for dewatering control at stage 2	7d	13-06-11 A	28-06-11 A	
45060	Installation of dewatering system at stage 2	16d	08-10-11	26-10-11	60d
45080	Pumping Test at stage 2	4d	09-01-12	12-01-12	0d
45090	Prepare and submission for pumping test report at stage 2	7d	13-01-12	20-01-12	0d
45100	Completion of works for dewatering control	0d		20-01-12	0d
Excavation and Shoring Installation at Basement Carpark					
ELS - L-Sharp - For Bay B1 to Bay B3					
60000	Excavation to +0.7mpd at Bay 1	2d	21-09-11	22-09-11	0d
60010	Installation 1st layer waler and strut at Bay 1	5d	23-09-11	28-09-11	0d
60020	Excavation to +0.7mpd at Bay 2	3d	23-09-11	26-09-11	0d
60030	Installation 1st layer waler and strut at Bay 2	5d	27-09-11	03-10-11	0d
60040	Excavation to -2.2mpd at Bay 1 & protect grouted soil underneath Pilec	9d	29-09-11	11-10-11	0d
60060	Installation 2nd layer waler and strut at Bay 1	7d	12-10-11	19-10-11	0d
60070	Excavation to -4.1mpd at Bay 1 & protect grouted soil underneath Pilec	9d	20-10-11	29-10-11	0d
60080	Excavation to -2.2mpd at Bay 2 & protect grouted soil underneath Pilec	9d	04-10-11	14-10-11	0d



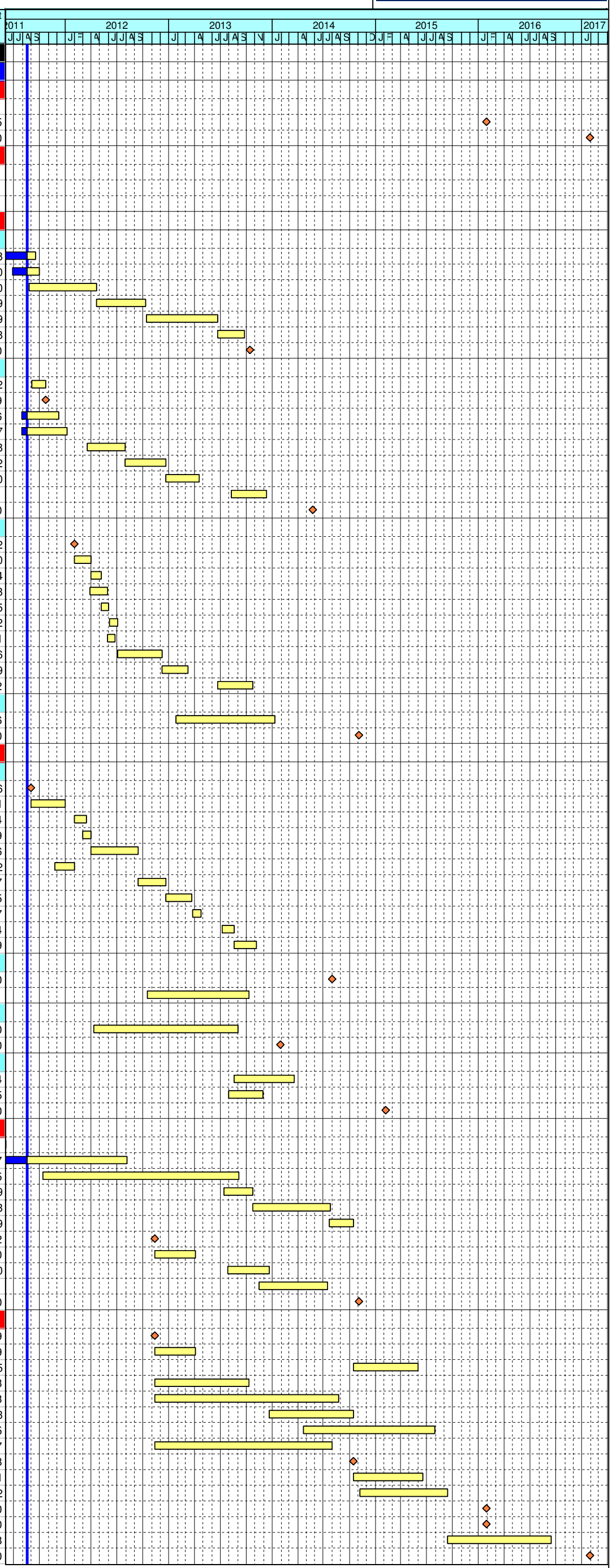
Data Date: 20-Aug-11
Print Date: 29-Aug-11
DCP3-2

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

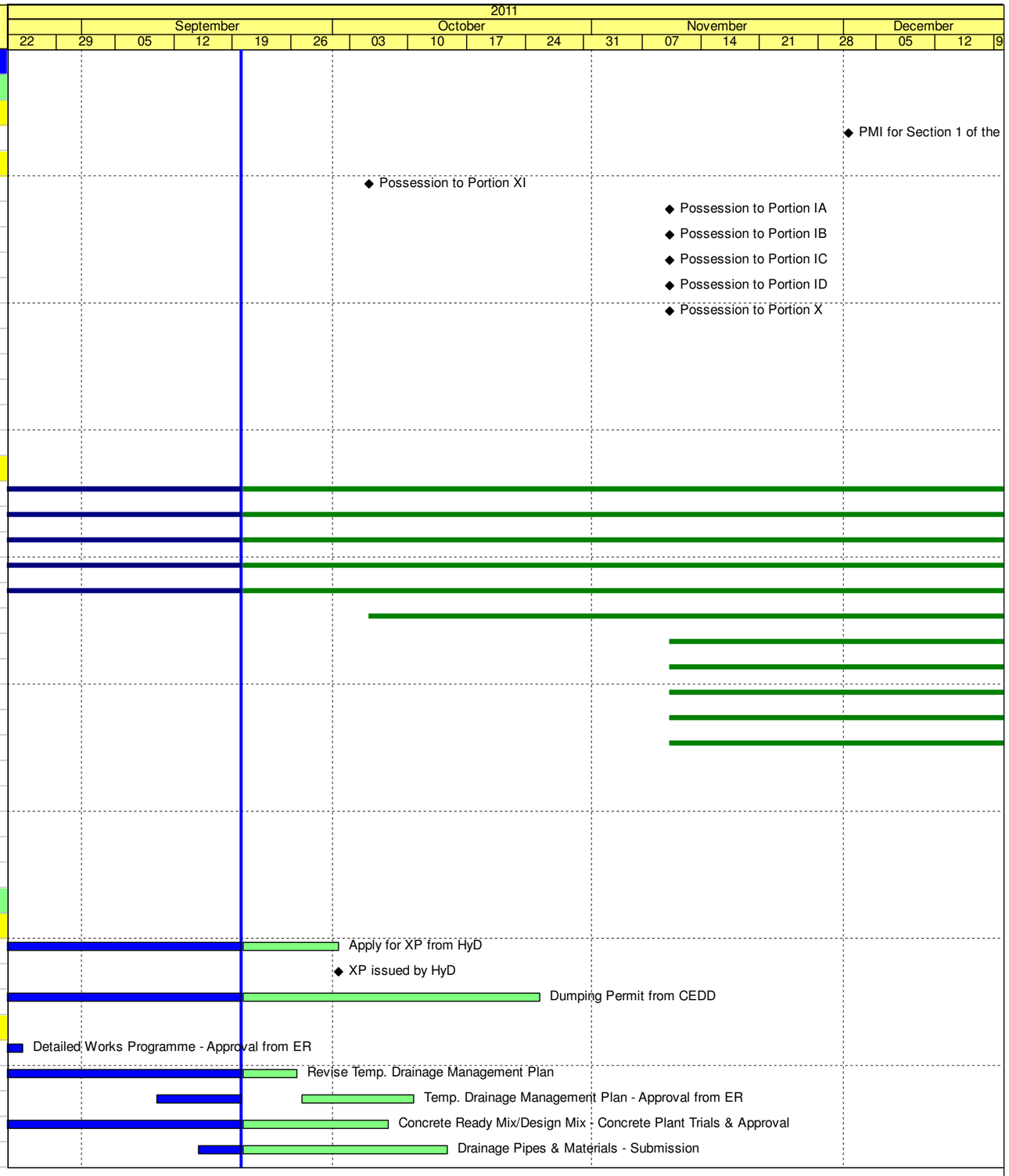
TASK filter: HL.

LEIGHTON

Activity Name	Start	Finish	Total Float
CWB - Central Interchange			
HIGH LEVEL PROGRAMME			
DATE FOR COMMENCEMENT & COMPLETION			
Contract Commencement	21-Sep-10 A	03-Jan-11 A	
Contract Construction Completion		30-Jan-16	365
Contract DLP and Establishment Works Completion		29-Jan-17	0
PRELIMINARIES			
Preliminary Submissions / Approvals	21-Sep-10 A	03-Jan-11 A	
Commence SIte Mobilisation	03-Jan-11 A		
Mobilise, Hoarding & Site Clearance	03-Jan-11 A	14-May-11 A	
PORTION IV WORKS			
CWB Tunnel CH1480 to CH1580			
Site Investigation	11-May-11 A	15-Sep-11	28
Construct Guide Walls	27-Jun-11 A	30-Sep-11	20
Construct D-Wall / Barrettes	26-Aug-11	19-Apr-12	20
ELS Works	20-Apr-12	11-Oct-12	19
Construct CWB Tunnel & Ventilation Building	12-Oct-12	21-Jun-13	19
Works inside CWB Tunnel	22-Jun-13	24-Sep-13	18
KD-8 Complete		13-Oct-13*	0
CWB Tunnel CH1580 to CH1646			
Construction Diversion for Finance Street	05-Sep-11	22-Oct-11	42
East End of Finance St. Closed		23-Oct-11	219
Site Investigation	30-Jul-11 A	06-Dec-11	126
Construct Guide Walls	30-Jul-11 A	04-Jan-12	97
Construct D-Wall / Barrettes	19-Mar-12	30-Jul-12	18
ELS Works	31-Jul-12	19-Dec-12	22
Construct CWB Tunnel	20-Dec-12	16-Apr-13	20
Works inside CWB Tunnel	10-Aug-13	13-Dec-13	161
KD-7 Complete		23-May-14*	0
CWB Tunnel CH1646 to CH1685			
Man Yiu St. Diverted (Possess Portion IIIA, IIIB)		01-Feb-12	52
Site Clearance & Divert Existing Utilities	01-Feb-12	29-Mar-12	60
Site Investigation	30-Mar-12	04-May-12	54
Sheet Pile / Pipe Pile / Grouting	26-Mar-12	29-May-12	63
Construct Guide Walls	05-May-12	02-Jun-12	55
Construct Barrettes	04-Jun-12	04-Jul-12	52
Temporary Works to Support C/W Pipes	30-May-12	25-Jun-12	61
ELS Works	05-Jul-12	06-Dec-12	56
Demolish & Reconstruct CWB Tunnel	07-Dec-12	08-Mar-13	59
Works Inside CWB Tunnel	22-Jun-13	23-Oct-13	212
Surface Works			
Backfill, U/G Services, Roadworks & Landscaping	25-Jan-13	11-Jan-14	296
KD-6 Complete		03-Nov-14*	0
PORTION III WORKS			
CWB Tunnel CH1685 to CH1704			
Access to CRIII Works Area	01-Sep-11		56
Works Area within CRIII Preparation	01-Sep-11	31-Dec-11	61
Site Investigation	01-Feb-12	13-Mar-12	374
Construct Guide Walls	29-Feb-12	30-Mar-12	379
Construct D-Wall / Barrettes (thru old seawall)	31-Mar-12	12-Sep-12	376
Construct Man Yiu Street Temporary Diversion	24-Nov-11	31-Jan-12	52
ELS Works	13-Sep-12	19-Dec-12	377
Construct CWB Tunnel (excl. roof slab)	20-Dec-12	23-Mar-13	375
Break into Existing CWB Tunnel	25-Mar-13	25-Apr-13	377
Construct CWB Tunnel Roof Slab	09-Jul-13	19-Aug-13	304
Works inside CWB Tunnel	20-Aug-13	05-Nov-13	269
CWB Tunnel CH1704 to CH1825			
KD-4 Complete		01-Aug-14*	0
Works inside CWB Tunnel	16-Oct-12	09-Oct-13	271
CWB Tunnel CH1825 to CH2600			
Works inside CWB Tunnel	10-Apr-12	02-Sep-13	100
KD-5 Complete		31-Jan-14*	0
Surface Works			
Road P1 Roadworks & Landscaping	20-Aug-13	19-Mar-14	324
Man Yiu St. Widening Roadworks & Landscaping	31-Jul-13	27-Nov-13	415
KD-3 Complete		06-Feb-15*	0
PORTION V WORKS			
Mobilization, Set up, Utilities Diversion, Tree	03-Jan-11 A	03-Jun-11 A	
Construct Trough B Structure - Phase 1	20-May-11 A	04-Aug-12	587
Construct Trough B Structure - Phase 2b	12-Oct-11	06-Sep-13	335
Temporary Drainage Diversion	15-Jul-13	23-Oct-13	19
Construct Trough B Structure - Phase 2a	24-Oct-13	26-Jul-14	33
Construct Trough B Structure - West End Portion	21-Jul-14	15-Oct-14	19
Portion VI Access Date	12-Nov-12		322
Man Kwong St. W/B Widening	12-Nov-12	05-Apr-13	320
Construct Retaining Wall D	29-Jul-13	20-Dec-13	90
Remaining Roadworks & Landscaping	16-Nov-13	15-Jul-14	111
KD-9 Complete		03-Nov-14*	0
PORTION VI WORKS			
Portion VI Access Date	12-Nov-12		219
Man Kwong St. W/B Widening	12-Nov-12	05-Apr-13	209
Retaining Walls F	15-Oct-14	02-Jun-15	95
Retaining Walls G	12-Nov-12	12-Oct-13	693
Bridge B	12-Nov-12	25-Aug-14	523
Trough A	21-Dec-13	14-Oct-14	83
Elevated Layby at Rumsey St. Flyover	23-Apr-14	29-Jul-15	185
Bridge A	12-Nov-12	01-Aug-14	157
Open Slip Road D / Man Po St.		14-Oct-14	838
Retaining Wall A & B	15-Oct-14	16-Jun-15	81
Remainging U/G Services, Roadworks & Landscaping	07-Nov-14	14-Sep-15	82
KD-10 Complete		30-Jan-16*	0
KD-16 Complete		30-Jan-16*	0
Landscaping Establishment (Last Area)	15-Sep-15	13-Sep-16	138
KD-15 Complete		29-Jan-17	0



Activity ID	Activity Name	Rem Dur	Start	Finish
3MRP - Sep 2011 to Dec 2011				
01 - CONTRACT DATES				
01.1 - Conditions				
0110-1100	PMI for Section 1 of the Works	0		01-Dec-11
01.2 - Possession of Site				
0120-1500	Possession to Portion XI	0	05-Oct-11*	
0120-1600	Possession to Portion IA	0	10-Nov-11*	
0120-1700	Possession to Portion IB	0	10-Nov-11*	
0120-1800	Possession to Portion IC	0	10-Nov-11*	
0120-1900	Possession to Portion ID	0	10-Nov-11*	
0120-2000	Possession to Portion X	0	10-Nov-11*	
0120-2100	Possession to Portion III	0	31-Dec-11*	
0120-2200	Possession to Portion VA	0	31-Dec-11*	
0120-2300	Possession to Portion VB	0	31-Dec-11*	
0120-2400	Possession to Portion VC	0	31-Dec-11*	
0120-2500	Possession to Portion VD	0	31-Dec-11*	
01.5 - Period of Site Possession for each Portion				
0150-1000	Site possession Period Portion VI	2075	20-Jan-11 A	25-May-17
0150-1100	Site Possession Period Portion VIIA	2075	04-Aug-11 A	25-May-17
0150-1200	Site Possession Period Portion VIIB	883	04-Aug-11 A	18-Feb-14
0150-1300	Site Possession Period Portion VIIC	1262	04-Aug-11 A	04-Mar-15
0150-1400	Site Possession Period Portion VIID	883	04-Aug-11 A	18-Feb-14
0150-1500	Site Possession Period Portion XI	681	05-Oct-11	15-Aug-13
0150-1600	Site Possession Period Portion IA	2024	10-Nov-11	25-May-17
0150-1700	Site Possession Period Portion IB	832	10-Nov-11	18-Feb-14
0150-1800	Site Possession Period Portion IC	1211	10-Nov-11	04-Mar-15
0150-1900	Site Possession Period Portion ID	832	10-Nov-11	18-Feb-14
0150-2000	Site Possession Period Portion X	2024	10-Nov-11	25-May-17
0150-2100	Site Possession Period Portion III	1973	31-Dec-11	25-May-17
0150-2200	Site Possession Period Portion VA	1973	31-Dec-11	25-May-17
0150-2300	Site Possession Period Portion VB	927	31-Dec-11	14-Jul-14
0150-2400	Site Possession Period Portion VC	1973	31-Dec-11	25-May-17
0150-2500	Site Possession Period Portion VD	1314	31-Dec-11	05-Aug-15
02 - PRE-CONSTRUCTION WORKS				
02.1 - Permit & Licence Application				
0210-1300	Apply for XP from HyD	12	21-Mar-11 A	01-Oct-11
0210-1400	XP issued by HyD	0		01-Oct-11
0210-1500	Dumping Permit from CEDD	36	10-Mar-11 A	25-Oct-11
02.2 - Contractor's Submission				
0220-1160	Detailed Works Programme - Approval from ER	0	30-Jul-11 A	25-Aug-11 A
0220-1190	Revise Temp. Drainage Management Plan	7	10-Aug-11 A	26-Sep-11
0220-1200	Temp. Drainage Management Plan - Approval from ER	14	10-Sep-11 A	10-Oct-11
0220-1250	Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval	18	04-Aug-11 A	07-Oct-11
0220-1260	Drainage Pipes & Materials - Submission	25	15-Sep-11 A	14-Oct-11



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

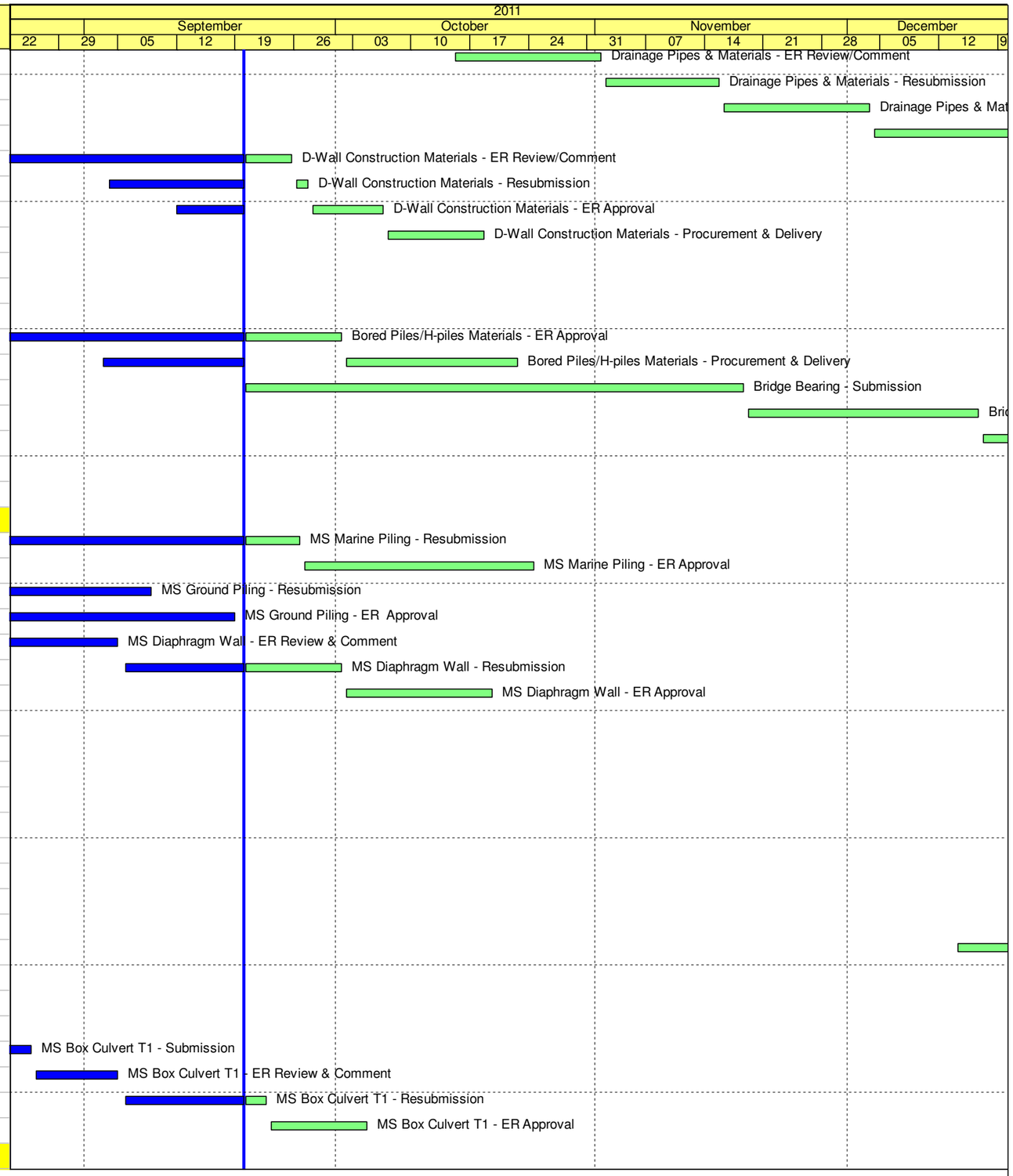
Contract HY/2009/19

Three Month Rolling Programme (21 SEP - 20 DEC 2011)

3MRP

3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
0220-1270	Drainage Pipes & Materials - ER Review/Comment	18	15-Oct-11	01-Nov-11
0220-1280	Drainage Pipes & Materials - Resubmission	14	02-Nov-11	15-Nov-11
0220-1290	Drainage Pipes & Materials - ER Approval	18	16-Nov-11	03-Dec-11
0220-1300	Drainage Pipes & Materials - Procurement & Delivery	36	04-Dec-11	08-Jan-12
0220-1320	D-Wall Construction Materials - ER Review/Comment	6	19-Aug-11 A	25-Sep-11
0220-1330	D-Wall Construction Materials - Resubmission	2	04-Sep-11 A	27-Sep-11
0220-1340	D-Wall Construction Materials - ER Approval	9	12-Sep-11 A	06-Oct-11
0220-1350	D-Wall Construction Materials - Procurement & Delivery	12	07-Oct-11	18-Oct-11
0220-1360	Tunnel Structures Materials - Submission	28	15-Mar-12	11-Apr-12
0220-1370	Tunnel Structures Materials - ER Review/Comment	28	12-Apr-12	09-May-12
0220-1380	Tunnel Structures Materials - Resubmission	14	10-May-12	23-May-12
0220-1440	Bored Piles/H-piles Materials - ER Approval	12	16-Jun-11 A	01-Oct-11
0220-1450	Bored Piles/H-piles Materials - Procurement & Delivery	21	03-Sep-11 A	22-Oct-11
0220-1460	Bridge Bearing - Submission	60	20-Sep-11	18-Nov-11
0220-1470	Bridge Bearing - ER Review/Comment	28	19-Nov-11	16-Dec-11
0220-1480	Bridge Bearing - Resubmission	14	17-Dec-11	30-Dec-11
0220-1490	Bridge Bearing - ER Approval	28	31-Dec-11	27-Jan-12
0220-1500	Bridge Bearing - Procurement & Delivery	195	28-Jan-12	09-Aug-12
02.3 - Method Statement / Shop Drawings				
0230-1120	MS Marine Piling - Resubmission	7	20-Jul-11 A	26-Sep-11
0230-1130	MS Marine Piling - ER Approval	28	27-Sep-11	24-Oct-11
0230-1200	MS Ground Piling - Resubmission	0	28-Jul-11 A	09-Sep-11 A
0230-1210	MS Ground Piling - ER Approval	0	06-Aug-11 A	19-Sep-11 A
0230-1230	MS Diaphragm Wall - ER Review & Comment	0	17-Aug-11 A	05-Sep-11 A
0230-1240	MS Diaphragm Wall - Resubmission	12	06-Sep-11 A	01-Oct-11
0230-1250	MS Diaphragm Wall - ER Approval	18	02-Oct-11	19-Oct-11
0230-1260	MS Cut & Cover Tunnel - Submission	28	15-Jan-12	11-Feb-12
0230-1270	MS Cut & Cover Tunnel - ER Review & Comment	28	12-Feb-12	10-Mar-12
0230-1280	MS Cut & Cover Tunnel - Resubmission	28	11-Mar-12	07-Apr-12
0230-1290	MS Cut & Cover Tunnel - ER Approval	28	08-Apr-12	05-May-12
0230-1340	MS Pre-cast Segment Bridge - Submission	28	01-Apr-12	28-Apr-12
0230-1350	MS Pre-cast Segment Bridge - ER Review & Comment	28	29-Apr-12	26-May-12
0230-1460	MS Stressing/Destressing Tendons - Submission	28	01-Mar-12	28-Mar-12
0230-1470	MS Stressing/Destressing Tendons - ER Review & Comment	28	29-Mar-12	25-Apr-12
0230-1480	MS Stressing/Destressing Tendons - Resubmission	28	26-Apr-12	23-May-12
0230-1540	MS Precasting of Bridge Segment & Beam - Submission	60	14-Dec-11	11-Feb-12
0230-1550	MS Precasting of Bridge Segment & Beam - ER Review & Comment	28	12-Feb-12	10-Mar-12
0230-1560	MS Precasting of Bridge Segment & Beam - Resubmission	36	11-Mar-12	15-Apr-12
0230-1570	MS Precasting of Bridge Segment & Beam - ER Approval	28	16-Apr-12	13-May-12
0230-1620	MS Box Culvert T1 - Submission	0	09-Aug-11 A	25-Aug-11 A
0230-1630	MS Box Culvert T1 - ER Review & Comment	0	26-Aug-11 A	05-Sep-11 A
0230-1640	MS Box Culvert T1 - Resubmission	3	06-Sep-11 A	22-Sep-11
0230-1650	MS Box Culvert T1 - ER Approval	12	23-Sep-11	04-Oct-11
02.4 - Contractor's Design and Build Items				



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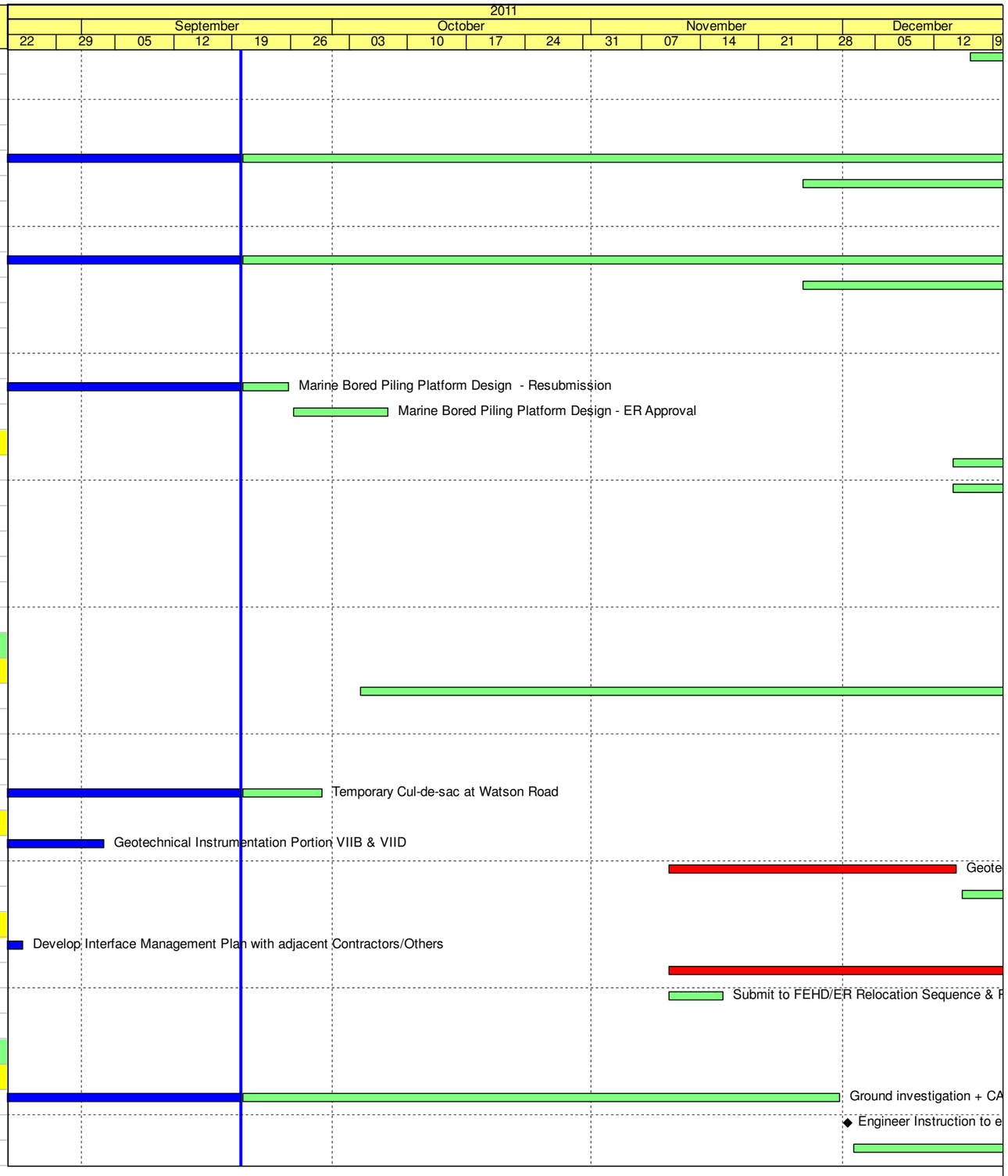
Contract HY/2009/19

Three Month Rolling Programme (21 SEP - 20 DEC 2011)

3MRP

3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
0240-1010	Temp Bridge "TA" Design - Prep & Submit	120	16-Dec-11	13-Apr-12
0240-1020	Temp Bridge "TA" Design - ER review and comment	28	14-Apr-12	11-May-12
0240-1030	Temp Bridge "TA" Design - Resubmission	60	12-May-12	10-Jul-12
0240-1041	Temp Bridge "TD" Design - Prep & Submit	120	14-Apr-12	11-Aug-12
0240-1090	Int. Noise Enclosure Design - Public Consultation	140	29-Jul-11 A	06-Feb-12
0240-1095	Int. Noise Enclosure Design - ACABAS/ER Consultation/Submission	90	26-Nov-11	23-Feb-12
0240-1100	Int. Noise Enclosure Design - ER review & comment	28	24-Feb-12	22-Mar-12
0240-1105	Int. Noise Enclosure Design - Resubmission	60	23-Mar-12	21-May-12
0240-1120	Noise Barrier Design - Public Consultation	140	29-Jul-11 A	06-Feb-12
0240-1122	Noise Barrier Design - ACABAS/ER Consultation/Submission	90	26-Nov-11	23-Feb-12
0240-1124	Noise Barrier Design - ER review & comment	28	24-Feb-12	22-Mar-12
0240-1126	Noise Barrier Design - Resubmission	60	23-Mar-12	21-May-12
0240-1130	Perm. Noise Enclosure Design - Public Consultation	180	14-Feb-12	11-Aug-12
0240-1360	Marine Bored Piling Platform Design - Resubmission	6	22-Aug-11 A	25-Sep-11
0240-1370	Marine Bored Piling Platform Design - ER Approval	12	26-Sep-11	07-Oct-11
02.5 - Bridge Segment/Beam Off-site Precasting				
0250-1000	Propose, approve and set-up Factory for Pre-cast Unit	152	14-Dec-11	13-May-12
0250-1100	Geometric Design of the Bridge Segments/Beams	80	14-Dec-11	02-Mar-12
0250-1200	Bridge Segment/Beam Mould Preparation	24	03-Mar-12	26-Mar-12
0250-1300	Trial Casting for Bridge Segment/Beam	18	27-Mar-12	13-Apr-12
0250-1400	Preparation for Bridge Segment /Beam Production	30	14-Apr-12	13-May-12
0250-1500	Ready for Mass Production of Bridge Segment/Beam	0		13-May-12
0250-1600	Bridge Precast Segment Casting & Delivery for E/B Bridge	280	14-May-12	17-Feb-13
03 - PRELIMINARY WORKS				
03.1 - Site Establishment				
0310-1290	Fabrication of Special Hoarding	75	04-Oct-11	30-Dec-11
0310-1300	Hoarding at Portion VA & VB	40	31-Dec-11	18-Feb-12
0310-1400	Move in Surcharge to Portion III & VD	6	20-Feb-12	25-Feb-12
0310-1500	Surcharge kept on Site	90	26-Feb-12	25-May-12
0310-1700	Temporary Cul-de-sac at Watson Road	9	08-Aug-11 A	29-Sep-11
03.2 - Geotechnical Instrumentation & Monitoring Works				
0320-1000	Geotechnical Instrumentation Portion VIIB & VIID	0	04-Aug-11 A	03-Sep-11 A
0320-1050	Geotechnical Instrumention Portion IB, ID	30	10-Nov-11	14-Dec-11
0320-1100	Geotechnical Instrumentation Portion X	60	15-Dec-11	25-Feb-12
03.3 - Interface Works				
0330-1000	Develop Interface Management Plan with adjacent Contractors/Others	0	06-Apr-11 A	25-Aug-11 A
0330-1100	Works at FEHD Permanent Depot (Stage 1)	36	10-Nov-11	21-Dec-11
0330-1110	Submit to FEHD/ER Relocation Sequence & Programme	6	10-Nov-11	16-Nov-11
0330-1120	Relocate FEHD to Permanent Depot at Portions IA & X	12	22-Dec-11	04-Jan-12
04 - SECTION 1 OF THE WORKS (Subject to Excision)				
04.1 - Drainage & Sewerage				
0410-0980	Ground investigation + CAR & RAP approval	60	19-Jul-11 A	30-Nov-11
0410-0990	Engineer Instruction to excision of the works	0		01-Dec-11
0410-1010	Confirmatory Investigation/Sample/Tests/Decontamination	60	02-Dec-11	13-Feb-12



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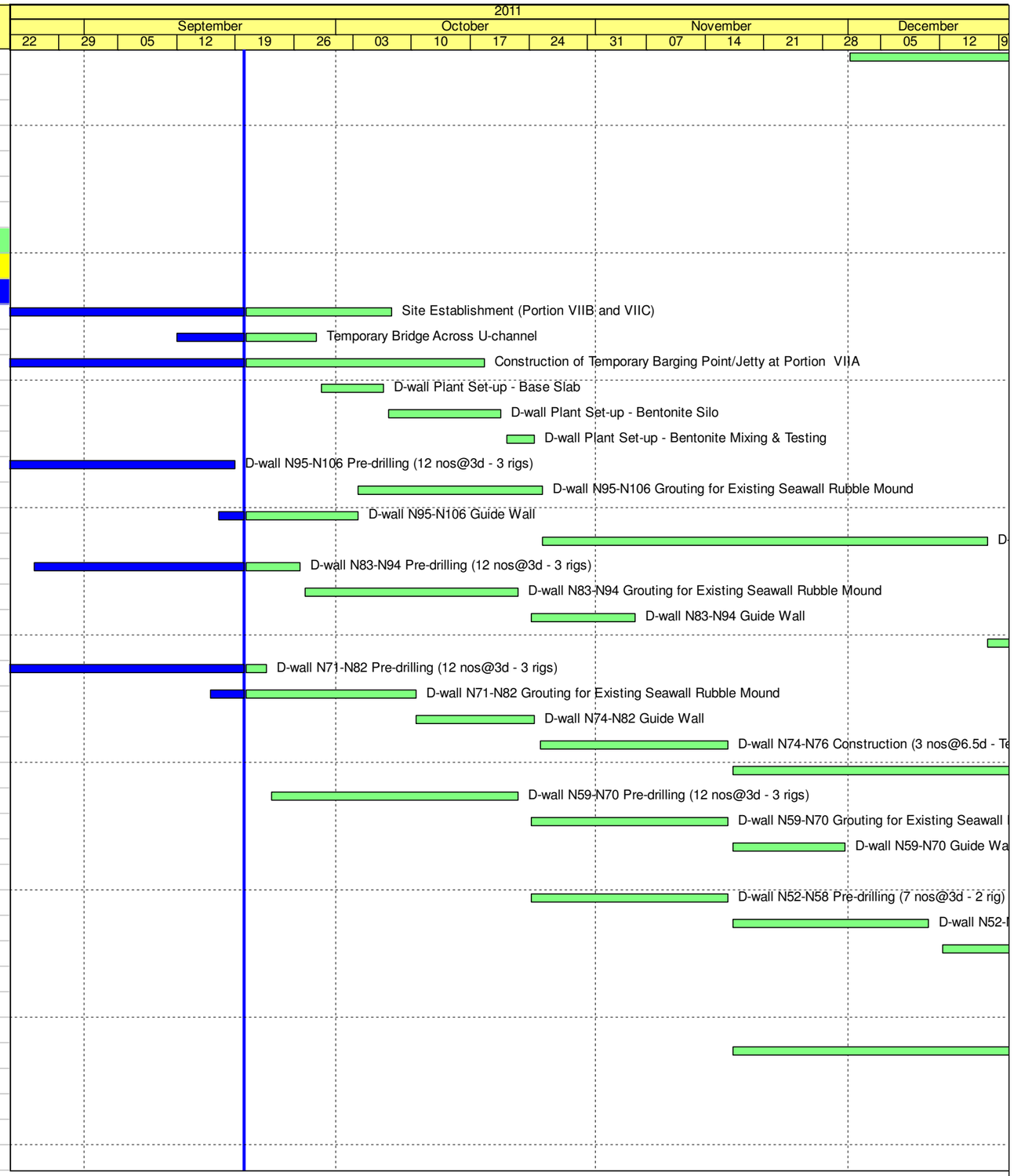
3MRP

3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
0410-1020	Utility Coordination and Liaison	48	01-Dec-11	28-Jan-12
0410-1030	Setting Out and Utility Detection & Protection at Portion XI	18	14-Feb-12	05-Mar-12
0410-1040	ELS - Manhole 1-A to SP1 (~10m)	8	06-Mar-12	14-Mar-12
0410-1050	Construct/Modify Manholes 1-A and SP1	36	15-Mar-12	28-Apr-12
0410-1060	1500mm Dia. Pipe Laying and Testing - Manhole 1-A to SP1 (~10m)	8	30-Apr-12	09-May-12
0410-1070	Backfilling & Reinstatement Manhole 1-A to SP1	8	10-May-12	18-May-12
0410-1080	ELS - Manhole SP1 to SP2 (~34m)	26	19-May-12	18-Jun-12
05 - SECTION 2 & 2A OF THE WORKS				
05.2 - Cut & Cover Tunnel Ch 4932-5149				
05.2.1 - D-Wall Construction				
0521-1660	Site Establishment (Portion VIIB and VIIC)	14	04-Aug-11 A	07-Oct-11
0521-1661	Temporary Bridge Across U-channel	8	12-Sep-11 A	28-Sep-11
0521-1665	Construction of Temporary Barging Point/Jetty at Portion VIIA	23	08-Aug-11 A	18-Oct-11
0521-1670	D-wall Plant Set-up - Base Slab	5	29-Sep-11	06-Oct-11
0521-1672	D-wall Plant Set-up - Bentonite Silo	12	07-Oct-11	20-Oct-11
0521-1673	D-wall Plant Set-up - Bentonite Mixing & Testing	3	21-Oct-11	24-Oct-11
0521-1680	D-wall N95-N106 Pre-drilling (12 nos@3d - 3 rigs)	0	08-Aug-11 A	19-Sep-11 A
0521-1690	D-wall N95-N106 Grouting for Existing Seawall Rubble Mound	18	03-Oct-11	25-Oct-11
0521-1700	D-wall N95-N106 Guide Wall	11	17-Sep-11 A	03-Oct-11
0521-1710	D-wall N95-N106 Construction (12 nos@6.5d - Team 1+2)	46	25-Oct-11	17-Dec-11
0521-1720	D-wall N83-N94 Pre-drilling (12 nos@3d - 3 rigs)	6	26-Aug-11 A	26-Sep-11
0521-1730	D-wall N83-N94 Grouting for Existing Seawall Rubble Mound	21	27-Sep-11	22-Oct-11
0521-1740	D-wall N83-N94 Guide Wall	12	24-Oct-11	05-Nov-11
0521-1750	D-wall N83-N94 Construction (12 nos@6.5d - Team 1+2)	40	17-Dec-11	06-Feb-12
0521-1760	D-wall N71-N82 Pre-drilling (12 nos@3d - 3 rigs)	3	08-Aug-11 A	22-Sep-11
0521-1770	D-wall N71-N82 Grouting for Existing Seawall Rubble Mound	16	16-Sep-11 A	10-Oct-11
0521-1780	D-wall N74-N82 Guide Wall	12	10-Oct-11	24-Oct-11
0521-1790	D-wall N74-N76 Construction (3 nos@6.5d - Team 3)	20	25-Oct-11	16-Nov-11
0521-1795	D-wall N77-N82 Construction (6 nos@6.5d - Team 3)	39	17-Nov-11	31-Dec-11
0521-1800	D-wall N59-N70 Pre-drilling (12 nos@3d - 3 rigs)	24	23-Sep-11	22-Oct-11
0521-1810	D-wall N59-N70 Grouting for Existing Seawall Rubble Mound	21	24-Oct-11	16-Nov-11
0521-1820	D-wall N59-N70 Guide Wall	12	17-Nov-11	30-Nov-11
0521-1830	D-wall N65-N70 Construction (6 nos@6.5d - Team 3)	39	02-Jan-12	18-Feb-12
0521-1840	D-wall N52-N58 Pre-drilling (7 nos@3d - 2 rig)	21	24-Oct-11	16-Nov-11
0521-1850	D-wall N52-N58 Grouting for Existing Seawall Rubble Mound	21	17-Nov-11	10-Dec-11
0521-1860	D-wall N52-N58 Guide Wall	12	12-Dec-11	24-Dec-11
0521-1880	D-wall N71-N73 Grouting for Existing Seawall Rubble Mound	15	29-Mar-12	18-Apr-12
0521-1890	D-wall N71-N73 Guide Wall	12	19-Apr-12	03-May-12
0521-1900	D-wall N71-N73 Construction (3 nos@7d - Team 4)	21	04-May-12	28-May-12
0521-1910	D-wall Temp End-wall Pre-drilling (7 nos@3d - 1 rig)	35	17-Nov-11	27-Dec-11
0521-1920	D-wall Temp Grouting for Existing Seawall Rubble Mound	21	04-Jan-12	31-Jan-12
0521-1930	D-wall Temp End-wall Guide Wall	12	01-Feb-12	14-Feb-12
0521-1940	D-wall Temp End-wall Construction (3 nos@6d - Team 2)	18	04-May-12	25-May-12
0521-1945	D-wall Temp End-wall Construction (4 nos@6d - Team 3)	24	28-Apr-12	26-May-12



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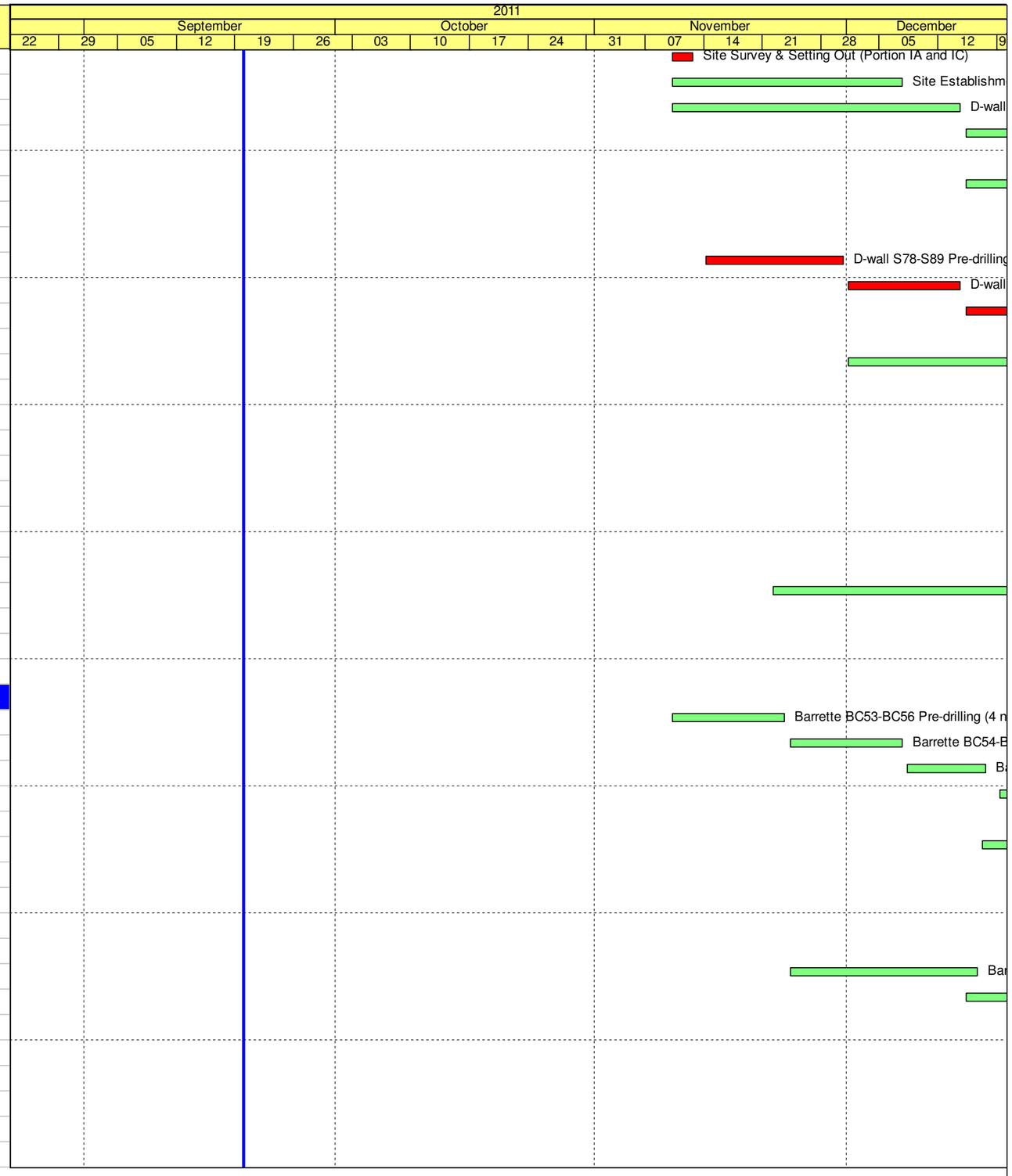
Three Month Rolling Programme (21 SEP - 20 DEC 2011)

3MRP

3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
0521-1950	Site Survey & Setting Out (Portion IA and IC)	3	10-Nov-11	12-Nov-11
0521-1960	Site Establishment (Portion IA and IC)	24	10-Nov-11	07-Dec-11
0521-1970	D-wall S102-S113 Pre-drilling (12 nos@3d - 2 rigs)	30	10-Nov-11	14-Dec-11
0521-1980	D-wall S102-S113 Guide Wall	12	15-Dec-11	28-Dec-11
0521-1990	D-wall S102-S113 Construction (12 nos@6d - Team 1+2)	36	06-Feb-12	19-Mar-12
0521-2000	D-wall S90-S101 Pre-drilling (12 nos@3d - 2 rigs)	30	15-Dec-11	18-Jan-12
0521-2010	D-wall S90-S101 Guide Wall	12	19-Jan-12	04-Feb-12
0521-2020	D-wall S90-S101 Construction (12 nos@6d - Team 1+2)	36	19-Mar-12	04-May-12
0521-2030	D-wall S78-S89 Pre-drilling (12 nos@3d - 4 rigs)	15	14-Nov-11	30-Nov-11
0521-2040	D-wall S81-S89 Guide Wall	12	01-Dec-11	14-Dec-11
0521-2050	D-wall S81-S84 Construction (4 nos@6d - Team 4)	24	15-Dec-11	11-Jan-12
0521-2055	D-wall S85-S89 Construction (5 nos@6d - Team 4)	30	12-Jan-12	18-Feb-12
0521-2060	D-wall S66-S77 Pre-drilling (12 nos@3d - 2 rigs)	30	01-Dec-11	04-Jan-12
0521-2070	D-wall S66-S77 Guide Wall	12	05-Jan-12	18-Jan-12
0521-2080	D-wall S68-S77 Construction (10 nos@6d - Team 4)	60	20-Feb-12	03-May-12
0521-2090	D-wall S60-S65 Pre-drilling (6 nos@3d - 1 rig)	18	05-Jan-12	28-Jan-12
0521-2100	D-wall S60-S65 Guide Wall	12	30-Jan-12	11-Feb-12
0521-2120	D-wall S56-S59 Pre-drilling (4 nos@3d - 2 rigs)	12	30-Jan-12	11-Feb-12
0521-2130	D-wall S56-S59 Guide Wall	12	13-Feb-12	25-Feb-12
0521-2140	D-wall S78-S80 Guide Wall	12	29-Mar-12	14-Apr-12
0521-2145	D-wall S78-S80 Construction (3 nos@6d - Team 1)	18	04-May-12	25-May-12
0521-2150	D-wall N52-N106 G.I. Preliminary Report / Founding Level	37	22-Nov-11	03-Jan-12
0521-2155	D-wall S52-S113 G.I. Preliminary Report / Founding Level	30	12-Jan-12	18-Feb-12
0521-2160	D-wall S52-S113/N52-N106 G.I. Final Report / Founding Level	36	20-Feb-12	31-Mar-12
0521-2165	D-wall S68-S113/N65-N106 Testing	36	04-May-12	14-Jun-12
05.2.2 - Barrette Construction				
0522-2180	Barrette BC53-BC56 Pre-drilling (4 nos@6d - 2 rigs)	12	10-Nov-11	23-Nov-11
0522-2190	Barrette BC54-BC56 Grouting for Existing Seawall Rubble Mound	12	24-Nov-11	07-Dec-11
0522-2200	Barrette BC54-BC56 Guide Wall	9	08-Dec-11	17-Dec-11
0522-2210	Barrette BC54-BC56 Construction (3 nos@6.5d - Team 5)	21	19-Dec-11	11-Jan-12
0522-2215	Barrette BC53 Construction (@6.5d - Team 5)	7	29-Mar-12	07-Apr-12
0522-2220	Barrette BC57-BC68 Pre-drilling (12 nos@6d - 3 rigs)	24	17-Dec-11	13-Jan-12
0522-2230	Barrette BC57-BC68 Grouting for Existing Seawall Rubble Mound	30	31-Dec-11	07-Feb-12
0522-2240	Barrette BC57-BC68 Guide Wall	24	14-Jan-12	14-Feb-12
0522-2250	Barrette BC57-BC62 Construction (6 nos@6.5d - Team 5)	40	09-Feb-12	26-Mar-12
0522-2260	Barrette BC63-BC68 Construction (6 nos@6.5d - Team 5)	40	10-Apr-12	26-May-12
0522-2270	Barrette BC43-BC52 Pre-drilling (10 nos@6d - 3 rigs)	20	24-Nov-11	16-Dec-11
0522-2280	Barrette BC43-BC52 Grouting for Existing Seawall Rubble Mound	12	15-Dec-11	28-Dec-11
0522-2290	Barrette BC43-BC52 Guide Wall	12	29-Dec-11	11-Jan-12
0522-2300	Barrette BC50-BC52 Construction (3 nos@6.5d - Team 5)	21	12-Jan-12	08-Feb-12
0522-2320	Barrette BC40-BC42 Pre-drilling (3 nos@6d - 1 rig)	18	01-Feb-12	21-Feb-12
0522-2330	Barrette BC40-BC42 Grouting for Existing Seawall Rubble Mound	18	22-Feb-12	13-Mar-12
0522-2340	Barrette BC40-BC42 Guide Wall	18	14-Mar-12	03-Apr-12
0522-2360	Bulkhead BW1-BW7 Pre-drilling (7 nos@5d - 3 rigs)	12	14-Jan-12	31-Jan-12



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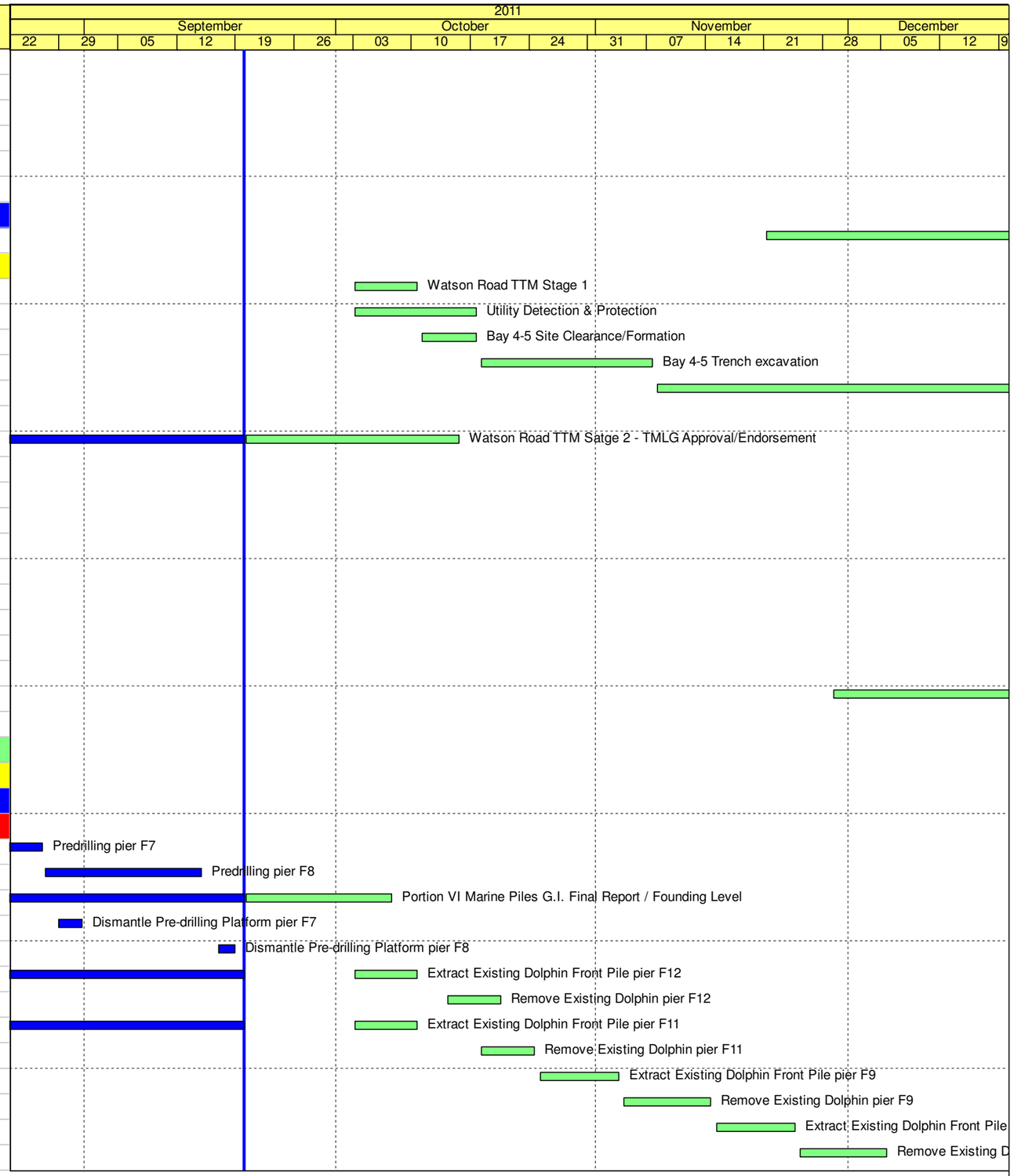
3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
0522-2370	Bulkhead BW1-BW7 Grouting for Existing Seawall Rubble Mound	18	01-Feb-12	21-Feb-12
0522-2380	Bulkhead BW1-BW7 Guide Wall	12	22-Feb-12	06-Mar-12
0522-2390	Bulkhead BW1-BW7 Construction (7 nos@6d - Team 3)	42	07-Mar-12	27-Apr-12
0522-2392	Barrette BC40-BC68 & BW1-7 G.I. Prelim Report / Founding Lev	48	14-Jan-12	13-Mar-12
0522-2402	Barrette BC40-BC68 & BW1-7 G.I. Final Report / Founding Lev	36	14-Mar-12	27-Apr-12
0522-2412	Barrette BC50-BC68 & Bulkhead BW1-7 Testing	24	09-May-12	05-Jun-12
05.2.3 - ELS				
0523-2398	Prepare & Submnit Documents as per ETWB TCW No. 15/2005	30	21-Nov-11	24-Dec-11
05.3 - Box Culvert T1				
0530-2940	Watson Road TTM Stage 1	6	03-Oct-11*	10-Oct-11
0530-2970	Utility Detection & Protection	12	03-Oct-11	17-Oct-11
0530-2980	Bay 4-5 Site Clearance/Formation	6	11-Oct-11	17-Oct-11
0530-2990	Bay 4-5 Trench excavation	18	18-Oct-11	07-Nov-11
0530-3000	Bay 4-5 Box Culvert Construction	42	08-Nov-11	26-Dec-11
0530-3010	Bay 4-5 Road Reinstatement	7	27-Dec-11	03-Jan-12
0530-3015	Watson Road TTM Satge 2 - TMLG Approval/Endorsement	21	05-Aug-11 A	15-Oct-11
0530-3020	Implement Watson Road TTM Stage 2	3	05-Jan-12	07-Jan-12
0530-3030	Bay 1-3 Site Clearance/Formation	3	09-Jan-12	11-Jan-12
0530-3040	Bay 1-3 Trench excavation	36	12-Jan-12	25-Feb-12
0530-3050	Bay 1-3 Box Culvert Construction	36	06-Feb-12	17-Mar-12
0530-3060	Bay 1-3 Road Reinstatement	12	19-Mar-12	31-Mar-12
0530-3070	Bay 6A Trench excavation	9	12-Jan-12	21-Jan-12
0530-3080	Bay 6A Box Culvert Construction	21	26-Jan-12	18-Feb-12
0530-3090	Construct Box Culvert Across Tunnel	48	12-Jan-12	10-Mar-12
0530-3100	Divert and Abandon Existing Box Culvert T1	9	19-Mar-12	28-Mar-12
0530-3110	Box Culvert T1 at North Side of the Tunnel (outfall)	72	29-Nov-11	23-Feb-12
0530-3200	Storm Drainage 1500 Dia. Within Portion X (FEHD)	60	09-Jan-12	21-Mar-12
10 - SECTION X OF THE WORKS				
10.1 - E/B Bridges (Bridge D, E and F)				
10.1.1 - Marine Pier Construction				
Pier F03 to F15				
1011-1270	Predrilling pier F7	0	30-Jul-11 A	27-Aug-11 A
1011-1280	Predrilling pier F8	0	27-Aug-11 A	15-Sep-11 A
1011-1285	Portion VI Marine Piles G.I. Final Report / Founding Level	14	12-Aug-11 A	07-Oct-11
1011-1390	Dismantle Pre-drilling Platform pier F7	0	29-Aug-11 A	31-Aug-11 A
1011-1400	Dismantle Pre-drilling Platform pier F8	0	17-Sep-11 A	19-Sep-11 A
1011-1402	Extract Existing Dolphin Front Pile pier F12	6	27-Jul-11 A	10-Oct-11
1011-1405	Remove Existing Dolphin pier F12	6	14-Oct-11	20-Oct-11
1011-1410	Extract Existing Dolphin Front Pile pier F11	6	06-Aug-11 A	10-Oct-11
1011-1415	Remove Existing Dolphin pier F11	6	18-Oct-11	24-Oct-11
1011-1420	Extract Existing Dolphin Front Pile pier F9	9	25-Oct-11	03-Nov-11
1011-1425	Remove Existing Dolphin pier F9	9	04-Nov-11	14-Nov-11
1011-1430	Extract Existing Dolphin Front Pile pier F10	9	15-Nov-11	24-Nov-11
1011-1435	Remove Existing Dolphin pier F10	9	25-Nov-11	05-Dec-11



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

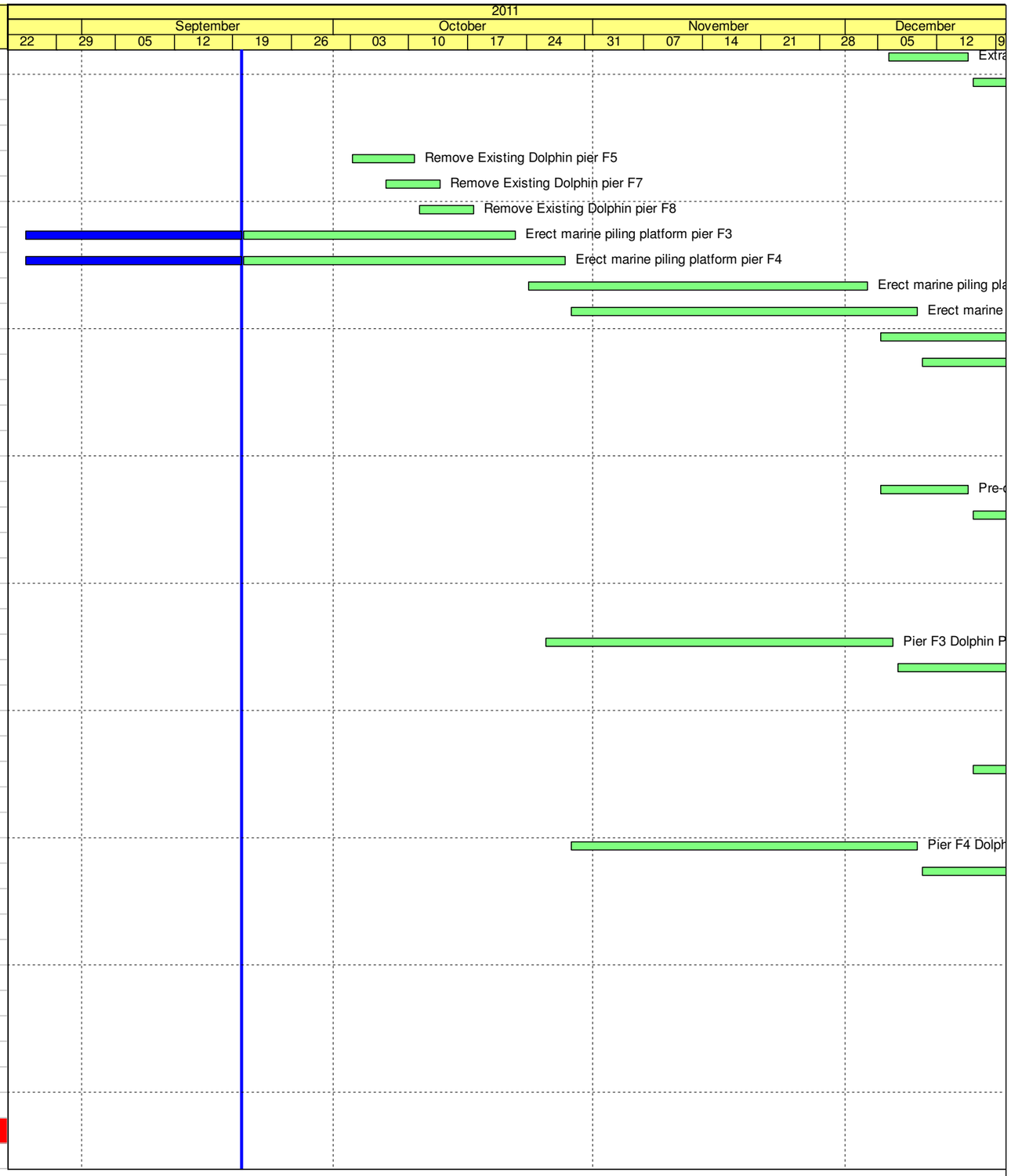
Contract HY/2009/19

Three Month Rolling Programme (21 SEP - 20 DEC 2011)

3MRP

3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
1011-1450	Extract Existing Dolphin Front Pile pier F13	9	06-Dec-11	15-Dec-11
1011-1455	Remove Existing Dolphin pier F13	9	16-Dec-11	26-Dec-11
1011-1460	Extract Existing Dolphin Front Pile pier F14	9	27-Dec-11	05-Jan-12
1011-1465	Remove Existing Dolphin pier F14	9	06-Jan-12	16-Jan-12
1011-1490	Remove Existing Dolphin pier F5	6	03-Oct-11*	10-Oct-11
1011-1510	Remove Existing Dolphin pier F7	6	07-Oct-11	13-Oct-11
1011-1520	Remove Existing Dolphin pier F8	6	11-Oct-11	17-Oct-11
1011-1530	Erect marine piling platform pier F3	27	25-Aug-11 A	22-Oct-11
1011-1540	Erect marine piling platform pier F4	32	25-Aug-11 A	28-Oct-11
1011-1550	Erect marine piling platform pier F5	36	24-Oct-11	03-Dec-11
1011-1560	Erect marine piling platform pier F6	36	29-Oct-11	09-Dec-11
1011-1570	Erect marine piling platform pier F7	36	05-Dec-11	14-Jan-12
1011-1580	Erect marine piling platform pier F8	36	10-Dec-11	20-Jan-12
1011-1590	Erect marine piling platform pier F9	36	19-Apr-12	31-May-12
1011-1600	Erect marine piling platform pier F10	36	03-May-12	13-Jun-12
1011-1610	Erect marine piling platform pier F11	36	16-Jan-12	29-Feb-12
1011-1620	Erect marine piling platform pier F12	36	21-Jan-12	06-Mar-12
1011-1650	Pre-drill F5 raking dolphin piles (2 nos.)	10	05-Dec-11	15-Dec-11
1011-1660	Pre-drill F6 raking dolphin piles (2 nos.)	10	16-Dec-11	27-Dec-11
1011-1670	Pre-drill F7 raking dolphin piles (2 nos.)	10	16-Jan-12	30-Jan-12
1011-1680	Pre-drill F8 raking dolphin piles (2 nos.)	10	31-Jan-12	10-Feb-12
1011-1710	Pre-drill F11 raking dolphin piles (2 nos.)	10	01-Mar-12	12-Mar-12
1011-1720	Pre-drill F12 raking dolphin piles (2 nos.)	10	13-Mar-12	23-Mar-12
1011-1750	Pier F3 Dolphin Pile (team 1)	36	26-Oct-11	06-Dec-11
1011-1760	Pier F3 Marine Bored Pile (team 1)	96	07-Dec-11	30-Mar-12
1011-1770	Pier F11 Dolphin Pile (team 1)	72	31-Mar-12	28-Jun-12
1011-1790	Pier F6 Dolphin Pile (team 4)	72	28-Dec-11	23-Mar-12
1011-1800	Pier F6 Marine Bored Pile (team 4)	48	24-Mar-12	23-May-12
1011-1810	Pier F5 Dolphin Pile (team 3)	72	16-Dec-11	12-Mar-12
1011-1820	Pier F5 Marine Bored Pile (team 3)	48	13-Mar-12	11-May-12
1011-1822	Pier F12 Dolphin Pile (team 3)	72	12-May-12	06-Aug-12
1011-1850	Pier F4 Dolphin Pile (team 2)	36	29-Oct-11	09-Dec-11
1011-1860	Pier F4 Marine Bored Pile (team 2)	72	10-Dec-11	06-Mar-12
1011-1862	Pier F8 Dolphin Pile (team 2)	72	07-Mar-12	02-Jun-12
1011-1910	Pier F7 Dolphin Pile (team 5)	72	31-Jan-12	26-Apr-12
1011-1920	Pier F7 Marine Bored Pile (team 5)	48	27-Apr-12	22-Jun-12
1011-1990	Dismantle Piling Platform at Pier F3	6	25-Apr-12	02-May-12
1011-2000	Dismantle Piling Platform at Pier F4	6	28-Mar-12	03-Apr-12
1011-2090	Marine bored pile testing F3	18	31-Mar-12	24-Apr-12
1011-2095	Marine bored pile testing F4	18	07-Mar-12	27-Mar-12
1011-2100	Marine bored pile testing F5	18	12-May-12	01-Jun-12
1011-2150	F3 Pile Cap Construction	18	03-May-12	23-May-12
Pier F01 to F02				
1011-2540	Possession to Portion III	0	31-Dec-11*	



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

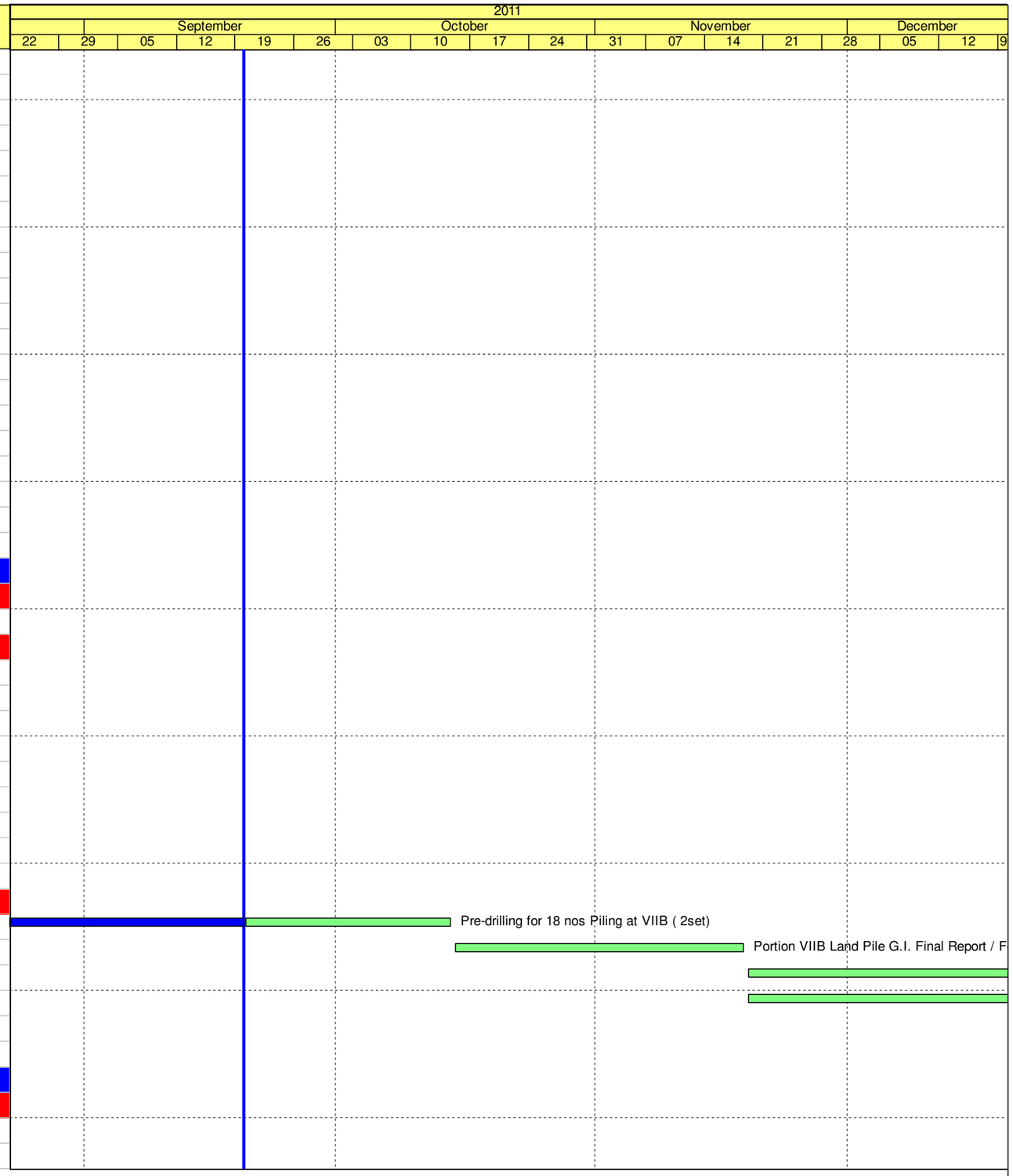
Contract HY/2009/19

Three Month Rolling Programme (21 SEP - 20 DEC 2011)

3MRP

3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
1011-2550	Marine piling preparation works, portion III	6	31-Dec-11	06-Jan-12
1011-2560	Erect Pre-drilling Platform pier F2B	8	02-Jan-12	10-Jan-12
1011-2570	Erect Pre-drilling Platform pier F2A	8	11-Jan-12	19-Jan-12
1011-2580	Erect Pre-drilling Platform pier F1B	8	20-Jan-12	01-Feb-12
1011-2590	Erect Pre-drilling Platform pier F1A	8	02-Feb-12	10-Feb-12
1011-2600	Pre-drilling pier F2B	10	11-Jan-12	21-Jan-12
1011-2610	Pre-drilling pier F2A	20	20-Jan-12	15-Feb-12
1011-2620	Pre-drilling pier F1B	10	02-Feb-12	13-Feb-12
1011-2630	Pre-drilling pier F1A	20	11-Feb-12	05-Mar-12
1011-2635	Portion III Marine Pile G.I. Final Report / Founding Level	30	06-Mar-12	12-Apr-12
1011-2640	Dismantle Pre-drilling Platform Pier F2B	5	26-Jan-12	31-Jan-12
1011-2650	Dismantle Pre-drilling Platform Pier F2A	5	16-Feb-12	21-Feb-12
1011-2660	Dismantle Pre-drilling Platform Pier F1B	5	22-Feb-12	27-Feb-12
1011-2670	Dismantle Pre-drilling Platform Pier F1A	5	06-Mar-12	10-Mar-12
1011-2680	Remove existing dolphin pier F2	6	22-Feb-12	28-Feb-12
1011-2690	Remove existing dolphin pier F1	6	12-Mar-12	17-Mar-12
1011-2700	Erect marine piling platform pier F2	24	19-Mar-12	18-Apr-12
1011-2710	Erect marine piling platform pier F1	24	19-Mar-12	18-Apr-12
1011-2720	Dolphin socketed tubular pile pier F2	36	19-Apr-12	31-May-12
1011-2730	Dolphin socketed tubular pile pier F1	36	19-Apr-12	31-May-12
10.1.2 - Land Pier Construction				
Abutment D12				
1012-1070	Abutment D12 Bored Piles E/B Bridge (4 piles)	48	10-May-12	06-Jul-12
Pier D08 to D11				
1012-1010	Site Survey and Setting Out at Portion III	6	31-Dec-11	06-Jan-12
1012-1015	Pre-drilling for Pilings (D08 to D12) at III (28 no.) (4set)	27	07-Jan-12	10-Feb-12
1012-1020	Portion III Land Pile G.I. Prelim Report / Founding Level	6	11-Feb-12	17-Feb-12
1012-1025	Portion III Land Pile G.I. Final Report / Founding Level	24	18-Feb-12	16-Mar-12
1012-1030	Pier D08 Bored Piles (6 piles)	72	11-Feb-12	09-May-12
1012-1040	Pier D09 Bored Piles (6 piles)	72	11-Feb-12	09-May-12
1012-1050	Pier D10 Bored Piles (6 piles)	72	11-Feb-12	09-May-12
1012-1060	Pier D11 Bored Piles (6 piles)	72	11-Feb-12	09-May-12
1012-1080	Pier D08/09/10/11 Bored Pile Testing	12	10-May-12	23-May-12
Pier D05 to D07				
1012-1260	Pre-drilling for 18 nos Piling at VIIB (2set)	20	08-Aug-11 A	14-Oct-11
1012-1265	Portion VIIB Land Pile G.I. Final Report / Founding Level	30	15-Oct-11	18-Nov-11
1012-1270	Pier D07 Bored Piles (6 piles)	108	19-Nov-11	27-Mar-12
1012-1280	Pier D06 Bored Piles (6 piles)	108	19-Nov-11	27-Mar-12
1012-1290	Pier D05 Bored Piles (2 piles)	36	28-Mar-12	12-May-12
1012-1300	Pier D05/D06/D07 Bored Piles Testing	18	14-May-12	02-Jun-12
10.1.3 - E/B Bridge Construction				
Bridge D3				
1013-1000	Design & Procurement of Launching Girder	75	20-Jan-12	23-Apr-12
1013-1010	Fabrication & Delivery of Launching Girder	75	24-Apr-12	23-Jul-12



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

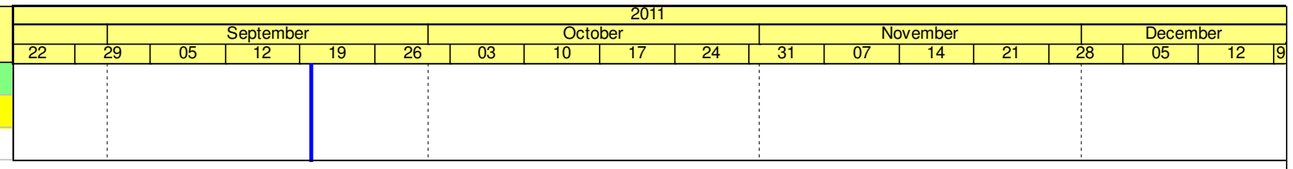
Contract HY/2009/19

Three Month Rolling Programme (21 SEP - 20 DEC 2011)

3MRP

3MRP - Sep 2011 to Dec 2011

Activity ID	Activity Name	Rem Dur	Start	Finish
14 - SECTION 14 OF THE WORKS				
14.1 - Soft Landscape				
1410-1000	Transplant. of ex. Trees to Nursery & upkeep	1515	31-Dec-11	17-Jan-17



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

Contract HY/2009/19

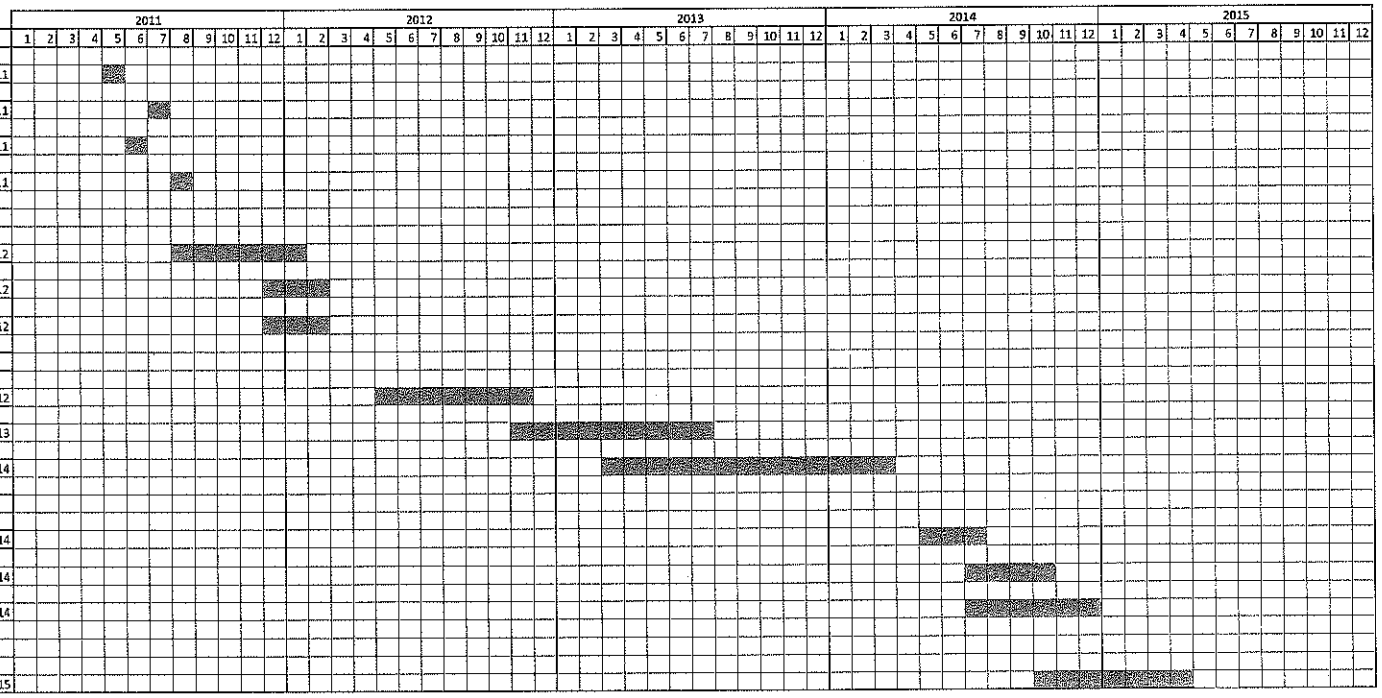
Three Month Rolling Programme (21 SEP - 20 DEC 2011)

Contract No. HK/2009/01

Wan Chai Development Phase II - Central Wan Chai Bypass - Central - Wan Chai Bypass at HKCEC

Working Programme for Diaphragm Wall Construction Works

Activity Description	Start	Finish
Management organization of Main Construction Companies	18/5/11	18/5/11
Work schedule and location plans	12/7/11	12/7/11
Noise Management Plan	9/6/11	9/6/11
Landscape Plan	10/8/11	10/8/11
Stage 1		
Diaphragm Wall Construction	25/8/11	31/1/12
Excavation Works	12/12/11	3/2/12
CWB + SCL Structural Works	19/12/11	29/2/12
Stage 2		
Diaphragm Wall Construction	7/5/12	1/11/12
Excavation Works	23/11/12	2/7/13
CWB + SCL Structural Works	12/3/13	24/3/14
Stage 3		
Diaphragm Wall Construction	16/5/14	9/7/14
Excavation Works	23/7/14	9/10/14
CWB + SCL Structural Works	30/7/14	11/12/14
Misc. Works		
CWB Associated Facilities and Backfilling to Formation	29/10/14	17/4/15

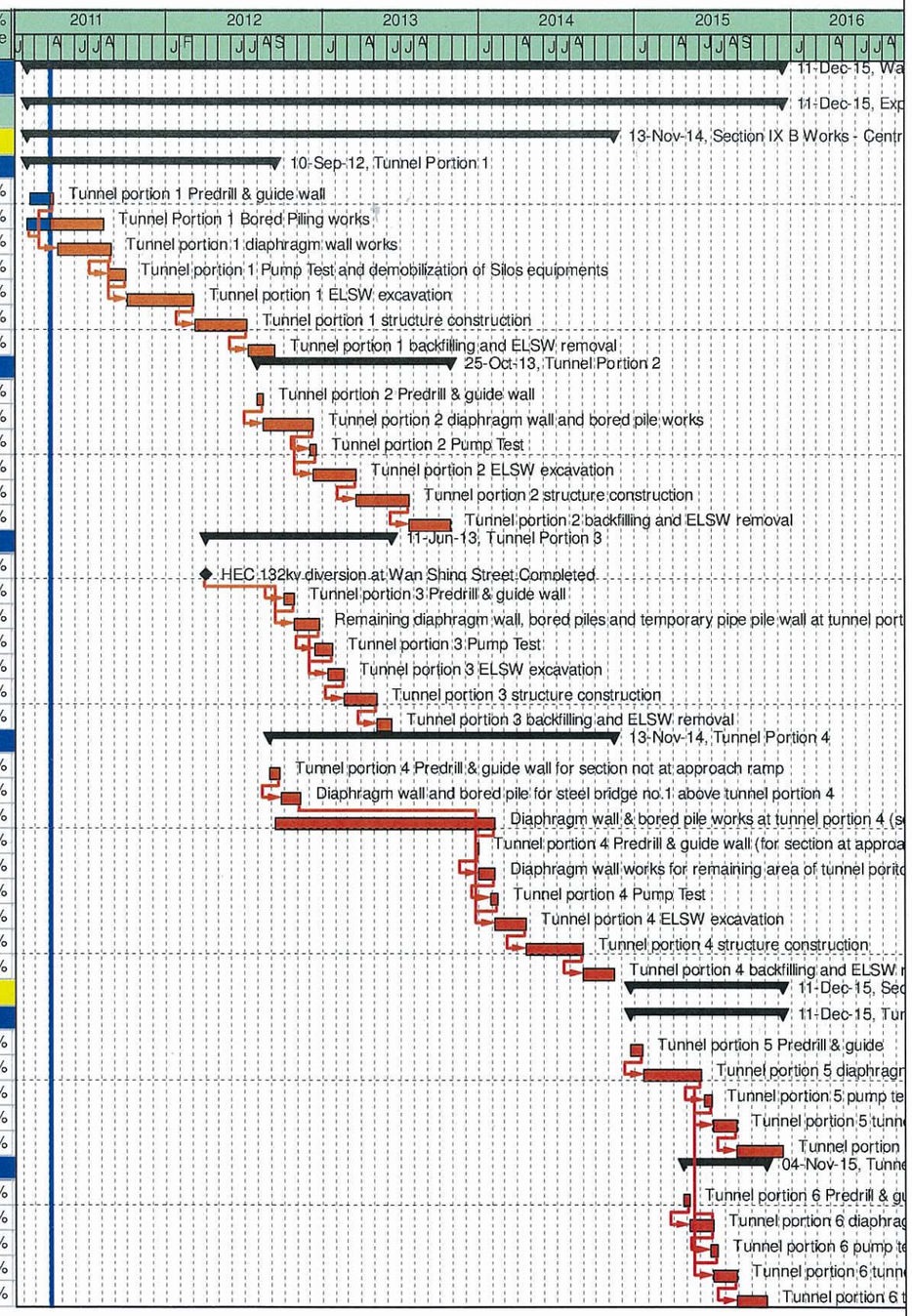


Last Updated on: 6-Aug-2011

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	% nplete
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	25-Apr-11	27-Aug-11	0%
S9B-T1-0015	Tunnel portion 1 Pump Test and demobilization of Silos 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	08-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-T1-0105	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	26-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	60	21-Feb-13	06-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	06-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 poriton 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	03-Jul-15	0%
S10-T6-0055	Tunnel portion 6 pump test	14	25-Jun-15	11-Jul-15	0%
S10-T6-0060	Tunnel portion 6 tunnel ELSW excavation at Area 10	45	04-Jul-15	25-Aug-15	0%
S10-T6-0070	Tunnel portion 6 tunnel structure construction at Area 10	58	26-Aug-15	04-Nov-15	0%



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

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

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