CONTRACT NO: HK/2011/07

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

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 ,FEP-05/356/2009, FEP-06/356/2009 AND FEP-07/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- FEBRUARY 2014 -

CLIENTS:

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and

Highways Department

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Raymond Dai
Environmental Team Leader

DATE:

13 March 2014

ENVIRON

Ref.: AACWBIECEM00_0_5001L.14

13 March 2014

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

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (February 2014) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for February 2014 received by email on 13 March 2014.

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

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

Yours sincerely,

David Yeung
Independent Environmental Checker

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

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Construction Activities for the Reported Period

ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:

- Remedial work at the box culvert Bay 8 and 9.
- The construction of D-wall at C1/C2 interface
- Footpath diversion for construction of discharge pipes at Expo Drive East. ELS work for installation of discharge pipes.
- Trimming works for Wan Chai and Fairway in Victoria Harbour and followed by the survey works. Grabbing of high spots.
- Backfilling works for temporary road construction. Extension of steel deck for UU diversion.
- Reinstatement works at Tsim Sha Tsui. Tree transplanting.
- Reinstatement works at HKCEC northwest.
- Cooling Mainlaying works for BI, BG & BF along Expo Drive East to Fleming Road. Zone C1-5 followed by Zone C1-7 & C1-9 at the J/O Expo Drive East and Expo Drive.
- Salt Watermain Laying works for S8B along Convention Avenue which released the access to Urban Carpark at Convention Avenue westbound. Zones outside Grand Hyatt Hotel carriageway A1-5A3.
- Salt Watermain Laying works for S8B at Harbour Road and Fenwick Pier Street. Zone A3-4D at Fenwick Pier Street westbound. Zone A3-5C Salt Watermain Laying works for S9 after completion of pressure test.
- The installation of pre-bored H-piles in CWB stage 2 Atrium Link.
- The overall piling work.
- The installation of pre-bored H-piles in CWB stage 3 Atrium Link.
- Demolition of P5 Pump house at Promenade Deck.
- Installation of ELS at first layer for Stage 1. Installation of ELS at second layer. The excavation work to -5.5 mPD.
- Pumping test for CWB Tunnel Structure Works at Stage 1

iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:

- Modification of existing covered walkway along Expo Drive East.
- Modification of road junction between Expo Drive and Expo Drive East.

Sections IVA, IVB & IVC

- For rectification works of the special movement joint for P8 discharge main at CHBH152m:-
    1. The backfilling works and EVA reinstatement.
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    3. The remaining pipe connection near outfall and subsequently connected with the existing system.
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- Wet test of WSD Pumping Station.
- WSD witness test.
- Connection between proposed DN800 and existing DN600 pipe at Hung Hing Road.
- Defect for DN800 collar joint.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes

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- Construction of remaining DN1050 drain and manhole MH2, the manhole was casted and rectification works for laid DN1050 FRP.
- The top slab for re-diversion of temp 1800 dia. drain to the completed Box Culvert N1.
- The existing stoplog at SLO-1 for diverting the existing drainage to the completed Box Culvert N1.

Section VIIIA:

- Pre-Handing over meeting with ASD & EMSD without major comment.
- Remaining installation works for Movable Ramp.
- T&C of fresh watermains by passing the water sterilisation testing. Connection with the existing fresh water supply system.

Section XI:

WCR4/TWCR4 Reclamation:

- Further reclamation to WCR4/TWCR4 by derrick barge and the reclamation.

Work related to HHR Flyover Diversion (Stage 2):

- Mini-piling works for the foundation of Bridge 3.

iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:

- Construction of EVA

v. During this reporting period, no major work activities for Contract no. HK/2010/06.

vi. During this reporting period, the major work activities for Contract no. HY/2009/19 included:

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

vii. During this reporting period, the major work activities for Contract no. HK/2012/08 included:

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation
- Filling for reclamation at sea area of former Expo Drive West Bridge and to the west of MTR tunnel
- Works for abandoning submarine sewerage outfall and watermain
- Installation of caisson seawall unit

viii. During this reporting period, the major work activities for Contract no. HY/2010/08 was included:

- Rock filling works

Noise Monitoring

ix. No action and 3 limit level exceedances at M6 – HK Baptist Church Henrietta Secondary School were recorded on 13, 20 and 25 February 2014 in this reporting month. The exceedances were concluded as non-project related.

x. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting month.

Real-time Noise Monitoring

xi. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

xii. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will

adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.

xiii. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.

xiv. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 28 December 2013 and 06 January 2014. After checking with contractor, no noisy construction activities were conducted at the concerned location by the Contractor during the recorded period and the exceedances was non-continuous. As such, the exceedances were considered as non-project related and contributed by nearby IEC traffic and nearby non-CWB Project.

Air Quality Monitoring

xv. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b – Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.

xvi. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.

xvii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; CMA2a – Causeway Bay Community Center; CMA3a – CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5a – Children Garden opposite to Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western wing on every six days basis.

Water Quality Monitoring

xviii. According to CWB RSS, oil dispersion at the culvert outfall location at SW corner of CBTS was observed on 6, 22, 24 and 28 Feb 2014. An ICC case (ICC ref: 2-92821253) regarding the above issue was lodged by CWB RSS team to request for follow-up action by relevant departments.

xix. Another oil dispersion at the culvert outfall location at Ex-Cargo handling area was observed on 28 Feb 2014 by CWB RSS. An ICC case (ICC ref: 2-125779508) regarding the above observation was lodged by CWB RSS team to request for follow-up action by relevant departments.

xx. Since marine dredging works was commenced under contract HY/2010/08. The respective water quality monitoring station C7 have been started under HY/2009/15 and HY/201008

xxi. Since marine dredging works was commenced under contract HK/2012/08. The respective water quality monitoring station WSD19, P1, P3, P4, and P5 have been started under contract HK/2012/08 September 2013.

xxii. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.

xxiii. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.

xxiv. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at

relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.

xxv. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others were remains unchanged.

xxvi. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and was completed on 6 Feb 2012 water quality monitoring.

xxvii. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;

xxviii. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.

xxix. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

xxx. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.

xxxi. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.

xxxii. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.

xxxiii. Water quality monitoring at 11 monitoring stations was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table I***.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	C1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	1	0	1
	P3	0	0	0	0	0	0	0	0	0	1	1	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02 Monitoring started on 8 Feb 2012	WSD21	0	0	0	0	0	0	0	0	0	2	0	1
	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	4	1	2

Remarks: -
- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013

xxxiv. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the ***Section 6.4***.

xxxv. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table II***.

Table II Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0
	C7	0	0	0	0
	Ex-WPCWA SW	0	0	0	1

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
	Ex-WPCWA SE	0	0	0	1
Total		0	0	0	2

xxxvi. There were no action level exceedances and 2 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances are not related to the Project works. The details of the recorded exceedances can be referred to the ***Section 6.4***.

xxxvii. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.

xxxviii. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013.

Complaints, Notifications of Summons and Successful Prosecutions

xxxix. There was no environmental complaint received in this reporting month.

Site Inspections and Audit

xl. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15 HK/2010/06, HY/2009/19, HK/2012/08 and HY/2010/08 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.

Future Key Issues

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

Contract no. HK/2009/01 – Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

- Import fill material from tunnel works and HATS for temporary road construction. Demobilization of the construction plant for Dwall construction. Eastern portion of temporary road.
- Outfall construction for discharge pipes at Expo Drive East.

- Salt watermain laying works for S8B and S9. Zones along Convention Avenue near Grand Hyatt Hotel.
- Cooling main laying works along Expo Drive East to Fleming Road.
- Preparation works for the new temporary road at Expo Drive East, e.g. road drainage, pavement work, signage and marking etc. including temporary UU trough. The works for temporary utilities diversion at the new reclaimed area.
- Installation of pre-bored H-piles at 4th row & ED (total 38 nos. piles).
- Remaining D-wall construction at tunnel south.
- Excavation for stage 1 down to -10 mPD and the tunnel structure works, starting with the base slab construction at Bay 5.

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

Sections IVA, IVB & IVC:

- 8x8 pit construction.
- Relocation of P7, P8 & P9 cables.
- Commissioning for P8 Discharge.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.

Section V:

- Remaining defects rectification works for replacing the defects gasket at connection collar.
- Test on Completion of the new Salt Water Intake System.
- Outstanding ABWF works at WSD Salt Water Pumping Station.

Section VII:

- Backfilling works for 1050mm FRP installation and strut removal for handing over Drain FRP-N.

Section VIIIA & VIIIB:

- Installation of fender.
- Movable ramps' testing & commissioning.
- Securing the Water Certificate for FS Installation.
- FSD inspection process for Ferry Pier.

Section XI:

- Reclamation of WCR4/TWCR4 area after abandonment of existing temp 1800 dia. drain outfall at WCR4.
- Removal of existing SHK Pump House and E&M equipment.
- Advanced dredging works of WCR3 by night work

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

- Construction of EVA

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

- Nil

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- Removal of strut at ELS
- Removal of marine platform
- Construction of Dolphin Cap
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge TA1
- Pre-bored H-pile for Admin. Building

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

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation
- Filling for reclamation at sea area of former Expo Drive West Bridge and to the west of MTR tunnel
- Caisson seawall units installation
- Works for abandoning submarine sewerage outfall and watermain

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

- Nil

1 Introduction

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 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 no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period of January 2014 to February 2014. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

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

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

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

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

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

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

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

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

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

Section 10 ***Conclusion***

2 Project Background

2.1 Background

2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are 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. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in ***Figure 2.1***.

2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.

2.2.3. The scope of the Project comprises:

- Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
- Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above
- Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above

- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.

2.2.4. 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 (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.

2.3.2. The details of individual contracts are summarized in ***Table 2.2***.

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010 (Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	5 March 2013
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013

2.4 Project Organization and Contact Personnel

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

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

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Joint Venture Board Representative	Mr. Simon Liu	2162 9909	2587 1878
		Deputy Site Agent	Mr Andy Yu	9648 4896	
		Construction Manager	Mr Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr Kenneth Chan	9160 3850	
		Environmental Officer (Compliance Manager)	Mr. Frank So	9863 6587	
		Environmental Supervisor	Stanley Chan	9047 6148	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Alfred Leung	3658-3022	2827 9996
		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	K C Cheung	3557 6399	2566 2192
		Site Manager	J H Chen	3557 6368	
		Contractor's Representative	Andrew Wong	3557 6358	
		Head of Construction Manager	Roger Cheung	3557 6371	
		Senior Construction Manager	Gene Cheung	3557 6395	
		Environmental Officer	Andy Mak	3557 6347	
Gammon -Leader JV	Contractor under Contract no. HK/2010/06	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
		Site Agent	Mr. Eric Yip	2529 2068	
		Environmental Officer	Clement Pang	9735 9200	

Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Supervisor	Jacky Cheung	9779 2292	
Chun Wo – CRGL – MBEC_ Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	
		Site Agent	Mr. Eric Yip	252902068	
		Environmental Engineer	Mr. Calvin Leung	9286 9208	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Construction Manager (Marine)	William Luk	9610 1101	
		Construction Manager (Land)	Patrick Cheung	9643 3012	
		Construction Manager (Land)	Eric Fong	6191 9337	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China State-Leader JV	Contractor under Contract no. HK/2012/08	Project Director	Andrew Tse	9137 1811	2877 1522
		Project Manager	Victor Wu	9193 8871	
		Deputy Project Manager	George Cheung	9268 1918	
		Site Agent	Paul Lui	9095 7922	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Ching Man, Chan	6050 4919	
China State	Contractor under Contract no. HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	C.M. Wong	3557 6464	
		Environmental Supervisor	Louis Lam Tsz Kwan	3557 6470	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechni	Environmental Team (ET)	Environmental Team Leader	Mr. Raymond Dai	2882 3939	2882 3331

Party	Role	Post	Name	Contact No.	Contact Fax
cs Limited		(ETL)			

2.4.3. For Contract no. HK/2009/01, the principal work activities in this reporting month included:

- Remedial work at the box culvert Bay 8 and 9.
- The construction of D-wall at C1/C2 interface
- Footpath diversion for construction of discharge pipes at Expo Drive East. ELS work for installation of discharge pipes.
- Trimming works for Wan Chai and Fairway in Victoria Harbour and followed by the survey works. Grabbing of high spots.
- Backfilling works for temporary road construction. Extension of steel deck for UU diversion.
- Reinstatement works at Tsim Sha Tsui. Tree transplanting.
- Reinstatement works at HKCEC northwest.
- Cooling Mainlaying works for BI, BG & BF along Expo Drive East to Fleming Road. Zone C1-5 followed by Zone C1-7 & C1-9 at the J/O Expo Drive East and Expo Drive.
- Salt Watermain Laying works for S8B along Convention Avenue which released the access to Urban Carpark at Convention Avenue westbound. Zones outside Grand Hyatt Hotel carriageway A1-5A3.
- Salt Watermain Laying works for S8B at Harbour Road and Fenwick Pier Street. Zone A3-4D at Fenwick Pier Street westbound. Zone A3-5C Salt Watermain Laying works for S9 after completion of pressure test.
- The installation of pre-bored H-piles in CWB stage 2 Atrium Link.
- The overall piling work.
- The installation of pre-bored H-piles in CWB stage 3 Atrium Link.
- Demolition of P5 Pump house at Promenade Deck.
- Installation of ELS at first layer for Stage 1. Installation of ELS at second layer. The excavation work to -5.5 mPD.
- Pumping test for CWB Tunnel Structure Works at Stage 1.

2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:

Section III

- Modification of existing covered walkway along Expo Drive East.
- Modification of road junction between Expo Drive and Expo Drive East.

Sections IVA, IVB & IVC

- For rectification works of the special movement joint for P8 discharge main at CHBH152m:-

1. The backfilling works and EVA reinstatement.
2. The pressure testing for P8 discharge main.
3. The remaining pipe connection near outfall and subsequently connected with the existing system.

- Steel fixing for wall and top slab of 8x8 pit.

Section V

- Wet test of WSD Pumping Station.
- WSD witness test.
- Connection between proposed DN800 and existing DN600 pipe at Hung Hing Road.
- Defect for DN800 collar joint.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes

Section VII:

- Construction of remaining DN1050 drain and manhole MH2, the manhole was casted and rectification works for laid DN1050 FRP.
- The top slab for re-diversion of temp 1800 dia. drain to the completed Box Culvert N1.
- The existing stoplog at SLO-1 for diverting the existing drainage to the completed Box Culvert N1.

Section VIIIA:

- Pre-Handing over meeting with ASD & EMSD without major comment.
- Remaining installation works for Movable Ramp.
- T&C of fresh watermains by passing the water sterilisation testing. Connection with the existing fresh water supply system.

Section XI:

WCR4/TWCR4 Reclamation:

- Further reclamation to WCR4/TWCR4 by derrick barge and the reclamation.

Work related to HHR Flyover Diversion (Stage 2):

- Mini-piling works for the foundation of Bridge 3

2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:

- Construction of EVA

2.4.6. For Contract no. HK/2010/06, no principal work activities in this reporting month.

2.4.7. For Contract no. HY/2009/19, the principal work activity in this reporting month included:

- Removal of strut at ELS
- Removal of marine platform
- Construction of cross head (Marine)

- Construction of Dolphin Cap
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge TA1
- Pre-bored H-pile for Admin. Building commenced

2.4.8. For Contract no. HK/2012/08, the principal work activity in this reporting month included:

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation
- Filling for reclamation at sea area of former Expo Drive West Bridge and to the west of MTR tunnel
- Works for abandoning submarine sewerage outfall and watermain
- Installation of caisson seawall unit

2.4.9. For Contract no. HY/2010/08, the principal work activity in this reporting month included:

- Rock filling works

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

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC</u>

- Import fill material from tunnel works and HATS for temporary road construction. Demobilization of the construction plant for Dwall construction. Eastern portion of temporary road.
- Outfall construction for discharge pipes at Expo Drive East.
- Salt watermain laying works for S8B and S9. Zones along Convention Avenue near Grand Hyatt Hotel.
- Cooling main laying works along Expo Drive East to Fleming Road.
- Preparation works for the new temporary road at Expo Drive East, e.g. road drainage, pavement work, signage and marking etc. including temporary UU trough. The works for temporary utilities diversion at the new reclaimed area.
- Installation of pre-bored H-piles at 4th row & ED (total 38 nos. piles).
- Remaining D-wall construction at tunnel south.
- Excavation for stage 1 down to -10 mPD and the tunnel structure works, starting with

the base slab construction at Bay 5.

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

Sections IVA, IVB & IVC:

- 8x8 pit construction.
- Relocation of P7, P8 & P9 cables.
- Commissioning for P8 Discharge.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.

Section V:

- Remaining defects rectification works for replacing the defects gasket at connection collar.
- Test on Completion of the new Salt Water Intake System.
- Outstanding ABWF works at WSD Salt Water Pumping Station.

Section VII:

- Backfilling works for 1050mm FRP installation and strut removal for handing over Drain FRP-N.

Section VIIIA & VIIIB:

- Installation of fender.
- Movable ramps' testing & commissioning.
- Securing the Water Certificate for FS Installation.
- FSD inspection process for Ferry Pier.

Section XI:

- Reclamation of WCR4/TWCR4 area after abandonment of existing temp 1800 dia. drain outfall at WCR4.
- Removal of existing SHK Pump House and E&M equipment.
- Advanced dredging works of WCR3 by night work.

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

- Construction of EVA

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

- Nil

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- Removal of strut at ELS
- Removal of marine platform
- Construction of Dolphin Cap
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge TA1
- Pre-bored H-pile for Admin. Building

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

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation
- Filling for reclamation at sea area of former Expo Drive West Bridge and to the west of MTR tunnel
- Caisson seawall units installation
- Works for abandoning submarine sewerage outfall and watermain

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

- Nil

3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	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 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Valid
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid

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

Contract no. HK/2009/01 – Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 under FEP-02/356/2009 are shown in ***Table 3.4*** and ***Table 3.5***.

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0856-13	7 Aug 2013	10 Aug 2013 to 1 Feb 2014	Expired
	GW-RS0883-13	12 Aug 2013	14 Aug 2013 to 13 Feb 2014	Expired
	GW-RS0937-13	23 Aug 2013	25 Aug 2013 to 22 Feb 2014	Expired
	GW-RS1063-13	24 Sep 2013	26 Sep 2013 to 23 Mar 2014	Valid
	GW-RE1034-13	27 Sep 2013	30 Sep 2013 to 29 Mar 2014	Valid
	GW-RS1091-13	7/Oct/2013	8 Oct 2013 to 7 Apr 2014	Valid
	GW-RS1094-13	7 Oct 2013	08 Oct 2013 to 07 Apr 2014	Valid
	GW-RS1114-13	11 Oct 2013	13 Oct 2013 to 12 Apr 2014	Valid
	GW-RS1153-13	21Oct 2013	23 Oct 2013 to 20 Apr 2014	Cancelled
	GW-RS1083-13	27 Sep 2013	29 Sep 2013 to 26 Mar 2014	Cancelled

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1211-13	4 Nov 2013	09 Nov 2013 to 08 May 2014	Valid
	GW-RS1246-13	8 Nov 2013	10 Nov 2013 to 07 May 2014	Valid
	GW-RS1265-13	14 Nov 2013	16 Nov 2013 to 12 May 2014	Valid
	GW-RS-1270-13	13 Nov 2013	14 Nov 2013 to 13 May 2014	Valid
	GW-RS1324-13	19 Nov 2013	22 Nov 2013 to 18 May 2014	Valid
	GW-RS1374-13	2 Dec 2013	3 Dec 2013 to 2 Jun 2014	Valid
	GW-RS1433-13	20 Dec 2013	21 Dec 2013 to 20 Jun 2014	Valid
	GW-RS1450-13	20 Dec 2013	22 Dec 2013 to 19 June 2014	Valid
	GW-RS0111-14	11 Feb 2013	15 Feb 2014 to 14 August 2014	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
	WT00018110-2014	6 Jan 2014	31 Mar 2015	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid

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

Table 3.5 Summary of submission status under FEP-02/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
Condition 2.8	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012
	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010
Condition 2.9	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
Conditions 2.8 and 2.9	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010
Condition 1.12	Notification of Commencement Date	20 Jun 2011
Condition 2.6 to 2.8	Management Organization, Works Schedule and Location Plan	18 May 2011

EP Condition	Submission	Date of Submission
Condition 2.9	Silt Screen Deployment Plan	10 Jun 2011
Condition 2.18	Landscape Plan	31 Oct 2013

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/02 under FEP-03/356/2009 are shown in ***Table 3.6*** and ***Table 3.7***.

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0857-13	2 Aug 2013	15 Aug 2013 to 14 Feb 2014	Valid
	GW-RS0945-13	29 Aug 2013	11 Sep 2013 to 10 Mar 2014	Valid
	GW-RS0993-13	6 Sep 2013	20 Sep 2013 to 19 Mar 2014	Valid
	GW-RS1027-13	10 Sep 2013	15 Sep 2013 to 9 Mar 2014	Valid
	GW-RS1002-13	12 Sep 2013	25 Sep 2013 to 24 Mar 2014	Valid
	GW-RS1078-13	30 Sep 2013	18 Oct 2013 to 17 Apr 2014	Valid
	GW-RS1119-13	11 Oct 2013	16 Oct 2013 to 15 Apr 2014	Valid
	GW-RS1128-13	8 Oct 2013	11 Oct 2013 to 6 Apr 2014	Valid
	GW-RS1197-13	4 Nov 2013	10 Nov 2013 to 9 May 2014	Valid
	GW-RS1254-13	12 Nov 2013	17 Nov 2013 to 16 May 2014	Valid
	GW-RS1256-13	12 Nov 2013	22 Nov 2013 to 21 May 2014	Valid
	GW-RS1240-13	7 Nov 2013	28 Nov 2013 to 27 May 2014	Valid
	GW-RE1199-13	6 Nov 2013	30 Nov 2013 to 29 May 2014	Valid
	GW-RS1258-13	12 Nov 2013	17 Nov 2013 to 6 May 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1261-13	12 Nov 2013	13 Nov 2013 to 6 May 2014	Valid
	GW-RS1325-13	27 Nov 2013	30 Nov 2013 to 29 May 2014	Valid
	GW-RS1337-13	27 Nov 2013	29 Nov 2013 to 26 May 2014	Valid
	GW-RS1466-13	24 Dec 2013	17 Jan 2014 to 16 July 2014	Valid
	GW-RS1458-13	24 Dec 2013	2 Jan 2014 to 1 July 2014	Valid
	GW-RS0067-14	29 Jan 2014	15 Feb 2014 to 14 Aug 2014	Valid
	GW-RS0112-14	13 Jan 2014	16 Feb 2014 to 13 Aug 2014	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Cancelled
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-098	26/11/2013	29 Nov 2013 to 28 May 2014	Valid

Table 3.7 Summary of submission status under FEP-03/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011

EP Condition	Submission	Date of Submission
	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
	Silt Curtain Deployment Plan (Revision M)	30 Nov 2012
Condition 2.9	Silt Screen Deployment Plan	21 April 2010
	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
	Silt Screen Deployment Plan (Revision B)	15 Feb 2012
	Silt Screen Deployment Plan (Revision C)	3 May 2012
	Silt Screen Deployment Plan (Revision D)	10 Dec 2012
Condition 2.17	Noise Management Plan	6 May 2010
Condition 2.18	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
	Landscape Plan (Control of Night Time Lighting)	2 June 2010
	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
-----	Acknowledge of Submission	22 Aug 2011

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

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under EP-356/2009 are shown in ***Table 3.8*** and ***Table 3.9***.

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for concreting works at Eastern Breakwater of CBTS	GW-RS0921-13	20 Aug 2013	20 Aug 2013 to 18 Feb 2014	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0095-14	10 Feb 2014	19 Feb 2014 to 18 Aug 2014	Valid
Construction Noise Permit (CNP) for Pre-treatment, ELS and rock breaking works at TS4/ME4	GW-RS1437-13	17 Dec 2013	31 Dec 2013 to 30 Jun 2014	Valid
Construction Noise Permit (CNP) for maintenance dredging	GW-RS1232-13	6 Nov 2013	6 Nov 2013 to 30 Apr 2014	Valid
Registration as a Chemical Waste Producer	WPN5213-147-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	27 Dec 2013	17 Jan 2014 to 16 Apr 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-122	23 Jan 2014	24 Jan 2014 to 23 Jul 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal) P3 Mooring	EP/MD/14-123	21 Jan 2014	23 Jan 2014 to 22 Jul 2014	Valid
Dumping Permit (Type 2 – Open Sea Disposal) P3 Mooring	EP/MD/14-121	20 Jan 2014	21 Jan 2014 to 20 Feb 2014	Expired
	EP/MD/14-141	18 Feb 2014	21 Feb 2014 to 20 Mar 2014	Valid
Dumping Permit (Type 3 – Open Sea Disposal) P3 Mooring	EP/MD/14-131	10 Feb 2014	15 Feb 2014 to 14 Mar 2014	Valid

Table 3.9 Summary of submission status under FEP-04/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	30 Sep 2010
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Silt Screen Deployment Plan	19 Oct 2010
	Amendment for Silt Screen Deployment Plan	18 Feb 2011

FEP Condition	Submission	Date of Submission
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.20	Noise Management Plan	20 Oct 2010
	Amendment for Noise Management Plan	27 Jan 2011

3.1.6. Implementation status of the recommended mitigation measures during this reporting period is presented in ***Appendix 3.1***.

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

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2010/06 under EP-356/2009 is shown in ***Table 3.10*** and ***Table 3.11***.

Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2010/06

Permits and/or Licences	**Reference No.**	**Issued Date**	**Valid Period/ Expiry Date**	**Status**
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	N/A	Valid
	FEP-08/364//2009/A	15 June 2012	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0030-13	19 Dec 2013	6 Jan 14 – 5 Jul 14	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	Valid

Table 3.11 Summary of submission status under EP-356/2009 and FEP-05/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	29 April 2013
Condition 2.7	Works Schedule and Location Plans	11 March 2011
Condition 2.8	Revised Silt Curtain Deployment Plan	31 August 2011
	Revised Silt Curtain Deployment Plan	22 October 2012
	Revised Silt Curtain Deployment Plan	26 November 2012
	Revised Silt Curtain Deployment Plan	28 January 2013
Condition 2.9	Silt Screen Deployment Plan	11 April 2011

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent for contract no. HY/2009/19 is shown in ***Table 3.12***.

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

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For D-wall construction) (Portion I, VII, VIII & IX)	GW-RS1473-13	29-Dec-13	23-Jun-14	Valid
Construction Noise Permit (CNP) (For Segment Launching at Portion III)	GW-RS1009-13	09-Sep-13	08-Mar-14	Cancelled
	GW-RS1176-13	25-Oct-13	22-Apr-14	Cancelled
	GW-RS1474-13	29-Dec-13	23-Jun-13	Cancelled
	GW-RS0072-14	06-Feb-14	02-Aug-14	Valid
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS1099-13	21-Oct-13	20-Apr-14	Valid

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS1179-13	25-Oct-13	22-Apr-14	Cancelled
	GW-RS10073-14	06-Feb-14	02-Aug-14	Valid
Discharge Licence (Land)	WT00010093-2011	17 Aug 2012	30-Sept-16	Valid
Discharge Licence (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal)	EP/MD/14-104	10 Dec 2013	09 Jun 2013	Valid
	EP/MD/14-128	30 Jan 2014	30 Jun 2014	Valid
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-116	20 Jan 2014	19 Feb 2014	Expired
	EP/MD/14-127	20 Feb 2014	19 Mar 2014	Valid

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

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under EP-356/2009 are shown in ***Table 3.13*** and ***Table 3.14***.

Table 3.13 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Water Discharge Licence	WT00018223-2014	28 Jan 2014	31 Jan 2019	Valid
Construction Noise Permit	GW-RS1477-13	2 Jan 2014	3 Jan 2014 to 2 Jul 2014	Valid
	GW-RS0824-13	29 Jul 2013	30 Jul 2013 to 28 Jan 2014	Expired
	GW-RS0896-13	19 Aug 2013	20 Aug 2013 to 18 Feb 2014	Cancelled
	GW-RS1175-13	23 Oct 2013	25 Oct 2013 to 21 Apr 2014	Cancelled
	GW-RS01086-13	30 Sep 2013	2 Oct 2013 to 26 Mar 2014	Valid
	GW-RS1231-13	8 Nov 2013	11 Nov 2013 to 28 Feb 2014	Valid
	GW-RS1357-13	2 Dec 2013	4 Dec 2013 to 1 Jun 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-111	1 Jan 2014	30 Jun 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/14-120	21 Jan 2014	24 Feb 2014	Expired
	EP/MD/14-120	17 Feb 2014	24 Mar 2014	Valid

Table 3.14 Summary of submission status under EP-356/2009 and FEP-06/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted on 25 Nov 2013 was returned to CSLJV by EPD.
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Generally in order as commented by EPD on 19 Sep 2013
Condition 2.23	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 15 Aug 2013
Condition 2.24	Landscape Plan (Rev. 3)	Generally in order as commented by EPD on 31 Oct 2013

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2010/08 under EP-356/2009 are shown in Table ***3.15*** and ***Table 3.16***.

Table 3.15 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C11 69-44	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	NIL	Valid
Water Discharge Licence	WT00016561-2013	9 Jul 2013	31 Jul 2018	Valid*
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-095	29 Nov 2013	1 Jun 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/14-114	6 Jan 2014	5 Feb 2014	Expired

Table 3.16 Summary of submission status under EP-356/2009 and FEP-07/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan	28 Nov 2013
Condition 2.9	Silt Screen Deployment Plan	29 Nov 2013
Condition 2.23	Noise Management Plan	21 Nov 2013
Condition 2.24	Landscape Plan	18 Nov 2013

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 Station

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

REAL-TIME NOISE MONITORING STATIONS

4.1.2. The real-time 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.

4.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.

4.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

Table 4.2 Real Time Noise Monitoring Station

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitfield Depot
North Point	RTN2	Oil Street Community Liaison Centre
North Point	RTN2a	Electric Centre

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.5. 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 L10 and L90 shall also be obtained for reference.

4.1.6. 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.

4.1.7. 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.

4.2 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 Station

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 Playgrounds opposite to Pedestrian Plaza	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

Remarks: As per the ENPC meeting in January 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade and CMA6a – Future AECOM site office at Work Area were renamed as remark.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

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

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

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

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

- 0.6 – 1.7 m3 per minute adjustable flow range;
- equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- capable of providing a minimum exposed area of 406 cm2;
- flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- equipped with a shelter to protect the filter and sampler;
- incorporated with an electronic mass flow rate controller or other equivalent devices;
- equipped with a flow recorder for continuous monitoring;
- provided with a peaked roof inlet;
- incorporated with a manometer;
- able to hold and seal the filter paper to the sampler housing at horizontal position;
- easily changeable filter; and
- capable of operating continuously for a 24-hour period.

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

LABORATORY MEASUREMENT / ANALYSIS

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

4.2.8. An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.

4.2.9. 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.

4.2.10. 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.

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

IMPACT MONITORING FOR ODOUR PATROL

4.2.12. Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:

- be at least 16 years of age;
- be free from any respiratory illnesses; and
- not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
- before and during odour patrol

4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in ***Figure 4.1*** to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).

4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.

4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:

- 0 – Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
- 1 – Slight Identifiable odour, and slight chance to have odour nuisance;

- 2 – Moderate Identifiable odour, and moderate chance to have odour nuisance;
- 3 – Strong Identifiable, likely to have odour nuisance;
- 4 – Extreme Severe odour, and unacceptable odour level.

4.2.16. The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in ***Appendix 6.1***.

4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb.

4.3 Water Quality Monitoring

4.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.

4.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April – September) will be effected and applied to the water quality monitoring data from 30 April 2011.

Water Quality Monitoring Stations

4.3.3. It is proposed to monitor the water quality at 4 WSD salt water intakes and 8 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in ***Table 4.4*** and ***Figure 4.1***. ***Appendix 4.1*** shows the established Action/Limit Levels for the monitoring works.

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD9	Tai Wan	837921.0	818330.0
WSD17	Quarry Bay	839790.3	817032.2
WSD19	Sheung Wan	833415.0	816771.0
WSD21	Wan Chai	836220.8	815940.1
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C7	Windsor House	837193.7	816150.0
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue	835895.2	816215.2

Station Ref.	Location	Easting	Northing
	Tower / Immigration Tower)		
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	836268.0	816020.0

WATER QUALITY PARAMETERS

4.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ while SS is determined in laboratory.

4.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. ***Table 4.5*** shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency[1]	Parameters[2]
During the 4-week baseline monitoring period	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

Notes:
1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

4.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:

- a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
- a temperature of 0-45 degree Celsius

4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement

where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

4.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

4.3.10. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

SAMPLER

4.3.11. A water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

SAMPLE CONTAINER AND STORAGE

4.3.12. Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

WATER DEPTH DETECTOR

4.3.13. A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

SALINITY

4.3.14. A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

MONITORING POSITION EQUIPMENT

4.3.15. A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

CALIBRATION OF IN-SITU INSTRUMENTS

4.3.16. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.

4.3.17. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.

4.3.18. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

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

LABORATORY MEASUREMENT / ANALYSIS

4.3.20. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER

4.3.21. The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.

4.3.22. Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in ***Table 4.6*** and ***Figure 4.1***.

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

4.3.23. The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

4.3.24. During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.

4.3.25. The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes

during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data sahll be downloaded daily and compared with the Action and Limit level determined during the baseline water qualtiy monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

4.3.26. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.

4.3.27. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013

4.3.28. The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

5. Monitoring Results

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

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

- Contract no. HK/2009/01 – Wan Chai Development Phase II – Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
- Contract no. HK/2009/02 Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai East
- Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)
- Contract no. HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line
- Contract no. HY/2009/19- Cental- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West
- Contract no. HY/2010/08 – Central- Wanchai Bypass Tunnel (Slip Road 8 Section)

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

5.1 Noise Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC, Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East and Contract no. HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line

5.1.1. The proposed division of noise monitoring stations are summarized in ***Table 5.2*** below.

Table 5.2 Noise Monitoring Station for Contract nos. HK/2009/01, HK/2009/02 and HK/2010/06

Station	Description
M1a	Harbour Road Sports Centre

5.1.2. Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.

5.1.3. No exceedance was recorded in this reporting period. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2***

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon

Shelter Section)

5.1.4. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in ***Table 5.3*** below.

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

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

5.1.5. Noise monitoring results measured in the period of daytime and restricted hour are reviewed and summarized. No exceedance was recorded in this reporting period. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2***

Contract no. HY/2009/19- Wan Chai Bypass Tunnal (North Point Section) and Island Eastern Corridor Link

5.1.6. The proposed division of noise monitoring stations are summarized in ***Table 5.4*** below.

Table 5.4 Noise Monitoring Station 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

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

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

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

5.2 Real-time Noise Monitoring

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.2.1 As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong

Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

5.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.

5.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.

5.2.4 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 29 January 2014 and 18 February 2014 and during restricted hours on 1 and 18 February 2014. After checking with contractor, no noisy construction activities were conducted at the concerned location during daytime on 29 January 2014 and 18 February 2014 and no construction activities were conducted at the concerned location during restricted hours on 1 February 2014 and 18 February 2014. As the exceedances were non-continuous, the exceedances were considered as non-project related and contributed by nearby IEC traffic and nearby non-CWB Project.

5.2.5 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

Table 5.5 Real Time Noise Monitoring Station for Contract no. HY/2009/19

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitfield Depot
North Point	RTN2	Oil Street Community Liaison Centre
North Point	RTN2a	Electric Centre

- *Real time noise monitoring results and graphical presentation during night time period are for information only.*
- *RTN2 had been relocated to RTN2a since 5 Oct 2012*
- *RTN1 monitoring had been finished on 28 Nov 2012*

5.2.6 Details of real time noise monitoring results and graphical presentation can be referred to ***Appendix 5.5.***

5.3 Air Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

5.3.1. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed divisions of air monitoring stations are summarized in ***Table 5.7*** below. No exceedance was recorded in the reporting month.

Table 5.7 Air Monitoring Stations for Contract no. HK/2009/01

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza

Station	Description
CMA6a	WDII PRE Site Office

5.3.1 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 WanChai East

5.3.2. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations are summarized in ***Table 5.8*** below. No exceedance was recorded in the reporting month.

Table 5.8 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

5.3.3. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in ***Table 5.9*** below.

Table 5.9 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

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. HY/2009/19- Wan Chai Bypass Tunnal (North Point Section) and Island Eastern Corridor Link

5.3.4. The proposed division of air monitoring stations are summarized in Table 5.10 below. No exceedance was recorded in the reporting month.

Table 5.10 Air Monitoring Stations for Contract no. HY/2009/19

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

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

5.4 Water Monitoring Results.

5.4.1. According to CWB RSS, oil dispersion at the culvert outfall location at SW corner of CBTS was observed on 6, 22, 24 and 28 Feb 2014. An ICC case (ICC ref: 2-92821253) regarding the above issue was lodged by CWB RSS team to request for follow-up action by relevant departments.

5.4.2. Another oil dispersion at the culvert outfall location at Ex-Cargo handling area was observed on 28 Feb 2014 by CWB RSS. An ICC case (ICC ref: 2-125779508) regarding the above observation was lodged by CWB RSS team to request for follow-up action by relevant departments.

5.4.3. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.

5.4.4. With respect to status of cooling intakes relocation, WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended to confirm the commissioning status of the relocated pump stations with the WDII RSS and the IEC for preparation of relocation of the WQM stations to the relocated cooling intake pump stations

5.4.5. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.

5.4.6. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.

5.4.7. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;

5.4.8. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

5.4.9. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 to the closest accessible point prior to the completion of the external façade refurbishment work.

5.4.10. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3 , 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at

WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.

5.4.11. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.

5.4.12. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.

5.4.13. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.

5.4.14. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.

5.4.15. With respect to status of cooling intakes relocation, WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended to confirm the commissioning status of the relocated pump stations with the WDII RSS and the IEC for preparation of relocation of the WQM stations to the relocated cooling intake pump stations.

5.4.16. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.

Table 5.11 Water Monitoring Stations for contracts with respect to remaining DP3 work areas after the completion of DP5 & DP6 in 2012 and intake diversion in 2013

Contract No.	Remaining DP3 and work area(s)	Relevant Water Monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/01	WCR3	C1[1]	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789[1]	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1[3], P3[3], P4[3], P5[3]	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6[4], C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring described in 4.6.3)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6[4], C7 (plus enhanced DO monitoring described in 4.6.3)	Mar 2014

Remarks:

-The water monitoring stations for WSD19, P1, P3, P4, P5 shall be associated with Contract No. HK/2009/01 prior to their transition to Contract HK/2012/08.

-4 intakes (re-provisioned Wanchai WSD intake, Great Eagle Centre, China Resources Centre & Sun Hung Kai Centre constructed adjacent to each other) taken as a single group for silt screen protection and monitoring.

-Re-provisioned intake reference: P1: HKCEC Phase 1; P3: APA, P4: Shui On; P5: Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)

-Enhanced DO Monitoring at C6 since the intake abandon in May 2011.

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

5.4.17. Water monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations are summarized in ***Table 5.12*** below.

Table 5.12 Water Monitoring Stations for Contract no. HK/2009/01

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations have not been carried out by others.
- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013

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

5.4.18. Water monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations are summarized in ***Table 5.13*** below.

Table 5.13 Water Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD21	Wan Chai	836220.8	815940.1
WSD9	Tai Wan	837921.0	818330.0
WSD17	Quarry Bay	839790.3	817032.2
Cooling Water Intake			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	836268.0	816020.0

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8 Feb 2012.

- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013

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

5.4.19. Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in ***Table 5.14*** below.

Table 5.14 Water Monitoring Stations for Contract no. HK/2012/08

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2

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

5.4.20. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.

5.4.21. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations are summarized in Table 5.15 below.

5.4.22. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.

Table 5.15 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C7	Windsor House	837193.7	816150.0

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.4.23. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012. The proposed division of water monitoring stations are summarized in *Table 5.16* below.

5.4.24. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

5.4.25. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.

5.4.26. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.

5.4.27. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake - C6 was terminated effective from 26 May 2011.

5.4.28. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.

5.4.29. Water monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in **Appendix 5.4**.

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	C1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	1	0	1
	P3	0	0	0	0	0	0	0	0	0	1	1	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02 Monitoring started on 8 Feb 2012	WSD21	0	0	0	0	0	0	0	0	0	2	0	1
	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	4	1	2

Remarks: -
- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013

5.4.30. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the ***Section 6.4***.

5.4.31. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table 5.18***.

Table 5.18 Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0
	C7	0	0	0	0
	Ex-WPCWA SW	0	0	0	1
	Ex-WPCWA SE	0	0	0	1
Total		0	0	0	2

5.4.32. There were no action level exceedances and 2 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances are not related to the Project works. The details of the recorded exceedances can be referred to the ***Section 6.4***.

5.4.33. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored. Details of additional DO monitoring results can be referred in ***Appendix 5.4a***.

5.4.34. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013

5.5 Waste Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

5.5.1. Inert C&D waste was disposed and non- inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.19.***

Table 5.19 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	39.2	53159.855	TKO137, TM38
Inert C&D materials recycled, m^3	0	10104.5	N/A
Non-inert C&D materials disposed,	8.56	1581.07	SENT Landfill

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
m^3			
Non-inert C&D materials recycled, kg	0	151143	N/A
Chemical waste disposed, kg	0	10250	N/A
*Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	0 (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

5.5.2. There were no marine sediment Type 1- Open Sea Disposal and no marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

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

Table 5.20 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	2324.975	253655.78	TKO137 / TM 38
Inert C&D materials recycled, m^3	NIL	18161	N/A
Non-inert C&D materials disposed, m^3	37.293	1324.373	SENT Landfill
Non-inert C&D materials recycled, m^3	N/A	N/A	N/A
Chemical waste disposed, kg	0	11536	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	184167 (Bulk volume)	South of Cheung Chau

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0	129320 (Bulk volume)	East of Sha Chau

5.5.4. There are no marine Sediment Type1- Open Sea Disposal and there are no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal was disposed of in this reporting month.

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

5.5.5. No Inert C&D waste and no non- inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.21***

Table 5.21 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	141579.2	Tuen Mun Area 38
	NIL	65216	TKO137 FB
Inert C&D materials recycled, m^3	NIL	304	ex-PCWA
	NIL	111.9	TS4
Non-inert C&D materials disposed, m^3	NIL	252.2	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A
Chemical waste disposed, kg	NIL	8,200	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	100208 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	226495 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	0	8780 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 2 – Confined Marine Disposal), m3	0 (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau

5.5.6. There was no marine sediment Type 2 – Confined Marine Disposal was disposed of in this reporting month.

Contract no. HK/2010/06 - Wan Chai Development Phase II – Central – Wan Chai Bypass

over MTR Tsuen Wan Line

5.5.7. No inert C&D waste was disposed and no non-Inert C&D waste was recycled in this reporting month. Details of the waste flow table are summarized in ***Table 5.22.***

Table 5.22 Details of Waste Disposal for Contract no. HK/2010/06

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	0	12567.88	TM38
Inert C&D materials recycled, m^3	NIL	267	HK/2009/01
Non-inert C&D materials disposed, m^3	0	369.48	SENT/TKO137SF
Non-inert C&D materials recycled, T	0	60.58	Recyclers
Chemical waste disposed, L	0	2600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	3,891 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0	12,586 (Bulk Volume)	East Sha Chau

5.5.8. There were no marine sediments Type1- Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal was deposed of in this reporting month.

Contract no. HY/2009/19 –Central- WanChai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.5.9. Inert C&D waste was disposed and non-inert C&D waste were disposed and recycled in this reporting month. Details of the waste flow table are summarized in ***Table 5.23.***

Table 5.23 Details of Waste Disposal for Contract no. HY/2009/19

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	6662.62	336831.06	TM38
Inert C&D materials recycled, m^3	0	53707.97	N/A
Non-inert C&D materials disposed, m^3	15.34	606.92	N/A
Non-inert C&D materials recycled, kg	5.63	309.23	N/A
Chemical waste disposed, L	0	1.28	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	162	South Cheung Chau

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 2 – Confined Marine Disposal) , m^3	0	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	0	4976.00	

5.5.10. There was no marine sediment Type1- Open Sea Disposal and there was no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were disposed in this reporting month.

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

5.5.11. Inert C&D waste was disposed and non-inert C&D waste were disposed in this reporting month. Details of the waste flow table are summarized in ***Table 5.24.***

Table 5.24 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	0	1175	TM38
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	0	20	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	57	31035	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	0	108155	South of The Brothers (from 27 Aug 2013 onwards)

5.5.12. There was marine sediment Type 1 – Open Sea Disposa was disposed in this reporting month.

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

5.5.13. No Inert C&D waste and non-inert C&D waste were disposed in this reporting month. Details of the waste flow table are summarized in ***Table 5.25***

Table 5.25 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	Nil	Nil	N/A
Inert C&D materials recycled, m^3	NIl	NIL	N/A
Non-inert C&D materials disposed, m^3	Nil	Nil	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Dumping Permit (Type 1 – Open Sea Disposal)	0	12860	South Cheung Chau
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	0	17820	Brothers Island

5.5.14. There was no marine sediment Type 1 – Open Sea Disposa and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were disposed in this reporting month.

6. Compliance Audit

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

6.1 Noise Monitoring

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

6.1.1 No exceedance was recorded in the reporting month.

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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

6.1.4 No exceedance was recorded in the reporting month.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

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

6.2 Real-time noise Monitoring

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

6.2.1 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 29 January 2014 and 18 February 2014 and during restricted hours on 1 and 18 February 2014. After checking with contractor, no noisy construction activities were conducted at the concerned location during daytime on 29 January 2014 and 18 February 2014 and no construction activities were conducted at the concerned location during restricted hours on 1 February 2014 and 18 February 2014. As the exceedances were non-continuous, the exceedances were considered as non-project related and contributed by nearby IEC traffic and nearby non-CWB Project.

6.3 Air Monitoring

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

6.3.1 No exceedance was recorded in the reporting month.

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

6.3.2 No exceedance was recorded in the reporting month.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

6.3.3 No exceedance was recorded in the reporting month.

6.4 Water Quality Monitoring

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

6.4.1 There were turbidity and SS exceedance recorded at P1 and P3 on 24 February 2014 during ebb tide, confirmed with Contractor, silt screen was in proper condition. Despite marine filling at the sea area of former Expo Drive West Bridge was conducted by Contractor HK/2012/08 during monitoring, contractor mitigation meaures including the deployment of silt curtain for filling works was in place. In addition, as observed during the environmental inspection conducted on 25 Feb 2014, the condition of the silt curtain was found generally satisfactory. In view of no further exceedance was recorded in the next consecutive monitoring, the exceedance was considered not project related.

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

6.4.2 There were occasionally turbidity and SS exceedances at WSD21 on 8 and 10 February 2014 during ebb tide in this reporting month. Confirmed with Contractor, In view of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related.

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

6.4.3 There were occasionally DO exceedances at Ex-WPCWA SE and Ex-WPCWA SW recorded in this reporting month. No odour nuisance was noted during DO monitoring. After checking with Contractor, there was no marine work undertaken at ex-WPCWA. The exceedances were possible in relation to the accumulation of organic particles discharge from culvert near monitoring station and considered not related to the Projects works.

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

6.4.4 No exceedance was recorded in this reporting month.

Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

6.4.5 No exceedance was recorded in this reporting month.

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

6.4.6 There were turbidity and SS exceedance recorded at P1 and P3 on 24 February 2014 during ebb tide, confirmed with Contractor, silt screen was in proper condition. Despite marine filling at the sea area of former Expo Drive West Bridge was conducted by Contractor HK/2012/08 during monitoring, contractor mitigation meaures including the deployment of silt curtain for filling works was in place. In addition, as observed during the environmental inspection conducted on 25 Feb 2014, the condition of the silt curtain was found generally satisfactory. In view of no further exceedance was recorded in the next consecutive monitoring, the exceedance was considered not project related.

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

6.4.7 No exceedance was recorded in this reporting month.

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

6.5.1 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.

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

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

6.6.1 There was no particular action taken since no non-compliance was recorded from the site audits in the reporting period.

7. Cumulative Construction Impact due to the Concurrent Projects

7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.

7.0.2. According to the Monthly EM&A report (January 2014) of Central Reclamation Phase III (CRIII) for Contract HK 12/02, minor modification works at completed footpath and at Road P2/D7 pedestrian crossing were performed in February 2014 reporting month. The water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.

7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II were marine works at HKCEC areas, cross-harbour Watermains, Fresh Watermains and Cooling Watermains Installations, tunnel works at Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects tunnel construction at TS4 and tunnel construction and dismantling of struts at TPCWAE. Bridge construction and tunnel works at Central Interchange, ELS segment launching works and tunnel works at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activities were tunnel works at TS2, ELS work and tunnel construction at TS4 and tunnel construction and dismantling of struts at TPCWAE, tunnel works at Central and ELS work at North Point and tunnel works at Wan Chai East in the reporting month.

7.0.4. The major environmental impacts generated from tunnel works at Central and tunnel works at Wan Chai East, IECL and Causeway Bay Typhoon Shelter were undertaken in the reporting month.. As no project related exceedance was recorded in the Project, it was considered no adverse environmental impact caused by the Project works. Thus, it is evaluated the cumulative construction impact was insignificant.

8. Environmental Site Audit

8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HK/2010/06, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.

8.0.2. Five site inspections for Contract no. HK/2009/01 was carried out on 29 January 2014, 5, 12, 20 and 26 February 2014 in reporting month. Results of these inspections and outcomes are summarized in ***Table 8.1.***

9. Table 8.1 Summary of Environmental Inspections for Contract no. HK/2009/01

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

9.0.1. Four site inspections for Contract no. HK/2009/02 was carried out on 6, 13, 19 and 27 February 2014 in reporting month. Results of these inspections and outcomes are summarized in ***Table 8.2***.

Table 8.2 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
140213_01	13-Feb-14	Properly measure should be provided for preventing filling material falling into the sea (TWCR4)	A tarpualin sheeting was provided to prevent drop off.	Completion as observed on 19 Feb 2014

9.0.2. Five site inspections for Contract no. HY/2009/15 was carried out on 28 January 2014, 4, 11, 18 and 25 February 2014 in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.3***.

Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
140204_02	4-Feb-14	Clear the leaked oil as chemical waste and provide proper maintenance to machinery (TS4)	The leaked oil was cleared as chemical waste.	Completion as observed on 11 Feb 2014
140211_01	11/2/2014	Improve the oil connection point to prevent leakage and clear the leaked oil as chemical waste	Oil connection point have been improved	Completion as observed on 18 Feb 2014
140218_01	18/2/2014	Provide embankment protection near surface collection point leading to public drain	Embankment protection have been provided.	Completion as observed on 5 March 2014
140225_01	25/2/2014	Leaked oil should be cleared as chemical waste (TS2)	Leaked oil was cleared as chemical waste.	Completion as observed on 4 March 2014
140225_02	25/2/2014	Silt Curtain should be properly deployed to enclose the worksarea for filling works at EVA (TS1)	The condition of silt curtain deployed have been improved	Completion as observed on 4 March 2014
140225_03	25/2/2014	Clear the floating scum and removed the damaged silt curtain to prevent entrapment of scum (TS4/ Ex-PCWA)	Floating scum have been removed	Completion as observed on 4 March 2014

9.0.3. Four site inspections for Contract no. HK/2010/06 was carried out on 4, 10, 20 and 24 February 2014 in reporting month. No observation is found in the reporting month.

9.0.4. Four site inspections for Contract no. HY/2009/19 was carried out on 29 January 2014, 5, 12, 19 and 26 February 2014 in reporting month. No observation is found in the reporting month.

9.0.5. Five site inspections for Contract no. HK/2012/08 was carried out on 29 January 2014, 7, 11, 18 and 25 February 2014 in this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.4***.

Table 8.4 Summary of Environmental Inspections for Contract no. HK/2012/08

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

9.0.6. Five site inspections for Contract no. HY/2010/08 was carried out on 29 January 2014, 6, 14, 20 and 27 February 2014 in 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. HY/2010/08

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

9. Complaints, Notification of Summons and Prosecution

9.0.1. No environmental complaint was received in the reporting period.

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

9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in ***Table 9.1*** and ***Table 9.2*** respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	28
February 2014	0

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10. Conclusion

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

10.0.2. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others were remains unchanged.

10.0.3. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

10.0.4. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.

10.0.5. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 were implemented with respect to HK/2009/02 for the water quality monitoring scheduled on 8 Feb 12 onwards;

10.0.6. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

10.0.7. Water quality monitoring at C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013, and conclude if any water deterioration had been identified during the 4-week water quality monitoring.

10.0.8. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.

10.0.9. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.

10.0.10. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.

10.0.11. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui- DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.

10.0.12. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in ***Table 10.1***.

Table 10.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting Month

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	• Import fill material from tunnel works and HATS for temporary road construction. Demobilization of the construction plant for Dwall construction. Eastern portion of temporary road. • Outfall construction for discharge pipes at Expo Drive East. • Salt watermain laying works for S8B and S9. Zones along Convention Avenue near Grand Hyatt Hotel. • Cooling main laying works along Expo Drive East to Fleming Road. • Preparation works for the new temporary road at Expo Drive East, e.g. road drainage, pavement work, signage and marking etc. including temporary UU trough. The works for temporary utilities diversion at the new reclaimed area. • Installation of pre-bored H-piles	• To conform the installation and setting as in the silt screen deployment plan • Frequency spray water on the dry dusty road and on the surface of concrete breaking • To cover the dusty material or stockpile by impervious sheet • To space out noisy equipment and position as far as possible from sensitive receiver. • To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance. • Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

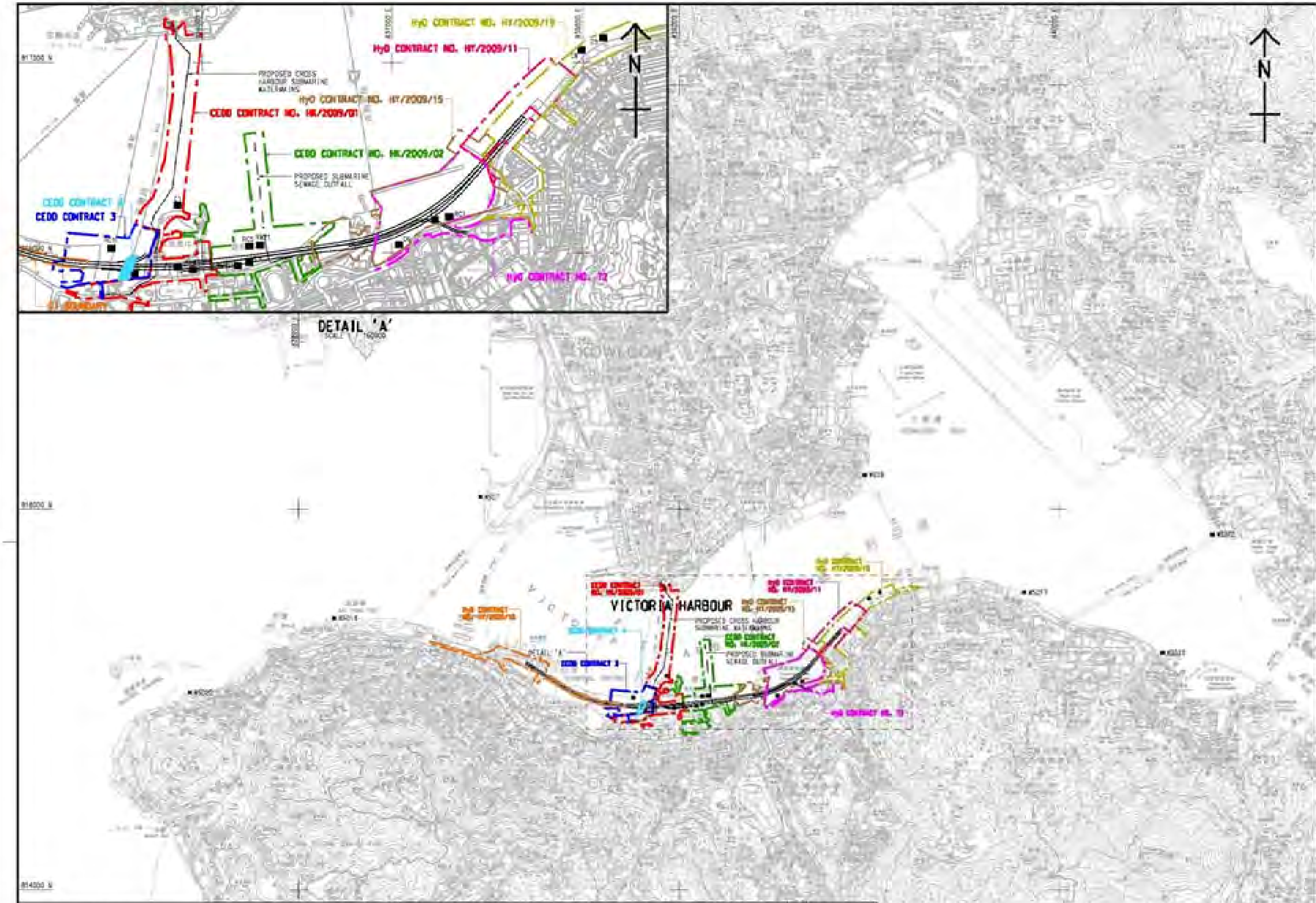
Contract No.	Key Construction Works	Recommended Mitigation Measures
	at 4th row & ED (total 38 nos. piles). • Remaining D-wall construction at tunnel south. • Excavation for stage 1 down to -10 mPD and the tunnel structure works, starting with the base slab construction at Bay 5.	
HK/2009/02	Sections IVA, IVB & IVC: • 8x8 pit construction. • Relocation of P7, P8 & P9 cables. • Commissioning for P8 Discharge. • All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations. Section V: • Remaining defects rectification works for replacing the defects gasket at connection collar. • Test on Completion of the new Salt Water Intake System. • Outstanding ABWF works at WSD Salt Water Pumping Station. Section VII: • Backfilling works for 1050mm FRP installation and strut removal for handing over Drain FRP-N. Section VIIIA & VIIIB: • Installation of fender. • Movable ramps' testing & commissioning. • Securing the Water Certificate for FS Installation.	• To cover the dusty material or stockpile by impervious sheet; • Frequency spray water on the dry dusty road and on the surface of concrete breaking • To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission • To conform the installation and setting as in the silt screen and silt curtain deployment plan • Movable noise barrier shall be deployed for demolition works • Daily visual inspection of silt screen and silt curtain to ensure its operation properly • Review silt screen deployment and silt curtain deployment and resubmit associate plans to EPD • Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.

Contract No.	Key Construction Works	Recommended Mitigation Measures
	• FSD inspection process for Ferry Pier. Section XI: • Reclamation of WCR4/TWCR4 area after abandonment of existing temp 1800 dia. drain outfall at WCR4. • Removal of existing SHK Pump House and E&M equipment. • Advanced dredging works of WCR3 by night work	
HY/2009/15	• Construction of EVA	• Daily visual inspection of silt screen and silt curtain to ensure its operation properly • Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.
HK/2010/06	• Nil	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • To space out noisy equipment and position as far as possible from sensitive receiver. • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/19	• Removal of strut at ELS • Removal of marine platform • Construction of Dolphin Cap • ELS, EVB and Cut & Cover Tunnel • Installation of dewatering well • Laying of 1500ϕ pipe • Launching of segments • Extraction of temporary pile from marine section • Construction of bridge TA1 • Pre-bored H-pile for Admin. Building	• To conform the installation and setting as in the silt screen and silt curtain deployment plan
HK/2012/08	• ELS for box culvert La at Lung King Street • Filling for seawall rock mound formation • Filling for reclamation at sea area of former Expo Drive West Bridge and to the west of MTR tunnel • Caisson seawall units installation • Works for abandoning submarine sewerage outfall and watermain	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • To space out noisy equipment and position as far as possible from sensitive receiver. • Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HY/2010/08	• Nil	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

Figure 2.1

Project Layout



LEGEND:

■ WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

C1	HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
C2	TELECOM HOUSE/HK ACADEMY FOR PERFORMING ARTS / SHUI ON CENTRE
C3	HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE I
C4	WAN CHAI TOWER AND GREAT EAGLE CENTRE
C5	SUN HUNG KAI CENTRE
C6	PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
C7	WINDSOR HOUSE
C8	CITY GARDEN
C9	PROVIDENT CENTRE
RC1	PROPOSED HKAPA EXTENSION
RC5	SUN HUNG KAI CENTRE (REPROVISION)
RC7	WINDSOR HOUSE (TEMPORARY REPROVISION)

WSD SALT WATER INTAKE

WSD21	WAN CHAI
RW1	WAN CHAI (REPROVISION)
WSD7	KOWLOON SOUTH
WSD9	TAI WAN
WSD10	CHA KWO LING
WSD15	SAI WAN HO
WSD17	QUARRY BAY
WSD19	SHEUNG WAN
WSD20	KENNEDY TOWN

DESIGNATED PROJECTS (DP)

DP1 — CENTRAL-WAN CHAI BYPASS (CWB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS

DP2 — ROAD P2 AND OTHER ROADS (PRIMARY / DISTRICT DISTRIBUTOR ROADS)

DP3 — PERMANENT AND TEMPORARY RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS IN WAN CHAI DEVELOPMENT PHASE II (WDII) AREA

~~DP4 — TEMPORARY TYPHOON SHELTER~~ (DP4 NOT TO BE IMPLEMENTED)

DP5 — WAN CHAI EAST SEWAGE OUTFALL

DP6 — DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 356/2009

DP2 IS COVERED BY EP - 376/2009

DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2009

WORKS CONTRACT	DESIGNATED PROJECT INVOLVED	CONSTRUCTION COMMENCEMENT
CEDD CONTRACT NO. HK/2009/01	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT NO. HK/2009/02	DP1, DP3, DP5	APRIL 2010
CEDD CONTRACT 3	DP1, DP3	END 2011
CEDD CONTRACT 4	DP1, DP3	END 2011
CEDD CONTRACT 5	DP2	2015
HyD CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyD CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2010
HyD CONTRACT NO. HY/2009/18	DP1	OCTOBER 2010
HyD CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyD CONTRACT 12	DP1, DP3	MID 2013

土木工程拓展署
Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II AND CENTRAL - WAN CHAI BYPASS - SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 1)

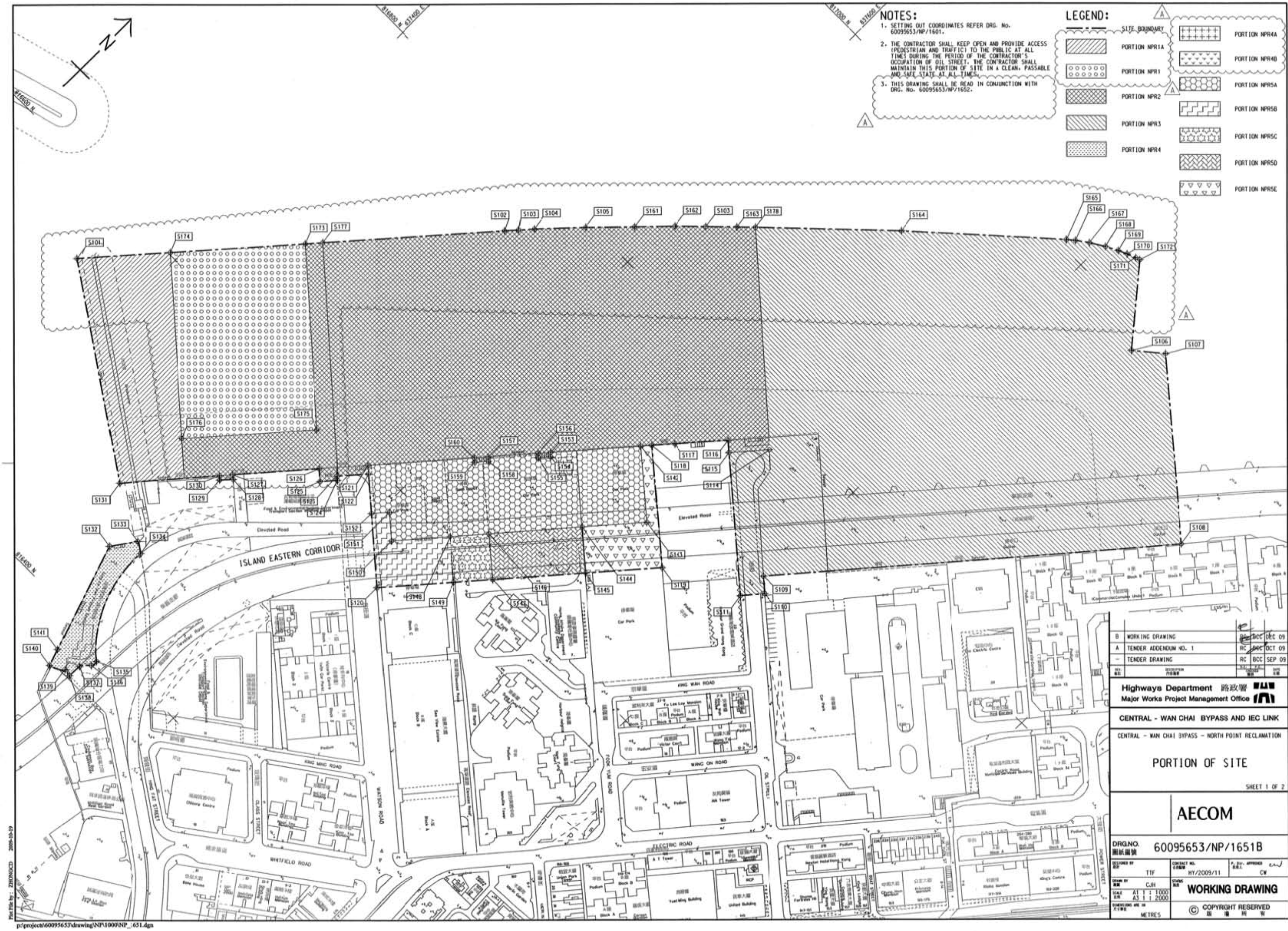
LOCATIONS OF WATER QUALITY MONITORING STATIONS

AECOM

DRG NO. 圖紙編號 60041297/C5/SK001

SCALE A1 1:30000

DIMENSIONS IN METRES



NOTES:

1. SETTING OUT COORDINATES REFER DRG. No. 60095653/NP/1601.
2. THE CONTRACTOR SHALL KEEP OPEN AND PROVIDE ACCESS (PEDESTRIAN AND TRAFFIC) TO THE PUBLIC AT ALL TIMES DURING THE PERIOD OF THE CONTRACTOR'S OCCUPATION OF OIL STREET. THE CONTRACTOR SHALL MAINTAIN THIS PORTION OF SITE IN A CLEAN, PASSABLE AND SAFE STATE AT ALL TIMES.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. No. 60095653/NP/1652.

LEGEND:

- SITE BOUNDARY
- PORTION NPR1A
- PORTION NPR1
- PORTION NPR2
- PORTION NPR3
- PORTION NPR4
- PORTION NPR4A
- PORTION NPR4B
- PORTION NPR5A
- PORTION NPR5B
- PORTION NPR5C
- PORTION NPR5D
- PORTION NPR5E

REV.	DESCRIPTION			DATE
B	WORKING DRAWING		BCC	DEC 09
A	TENDER ADDENDUM NO. 1	RC	BCC	OCT 09
–	TENDER DRAWING	RC	BCC	SEP 09

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION

PORTION OF SITE

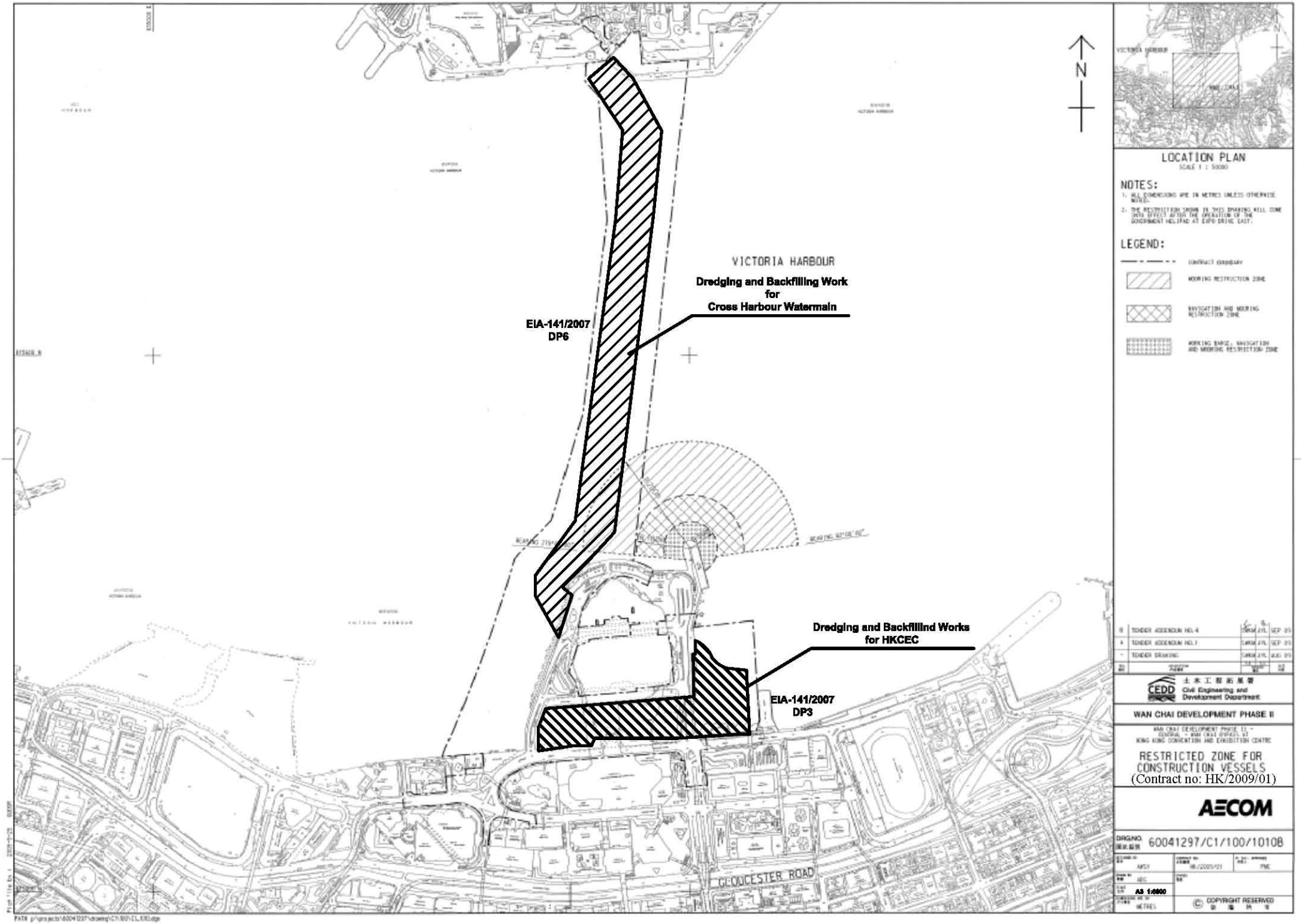
SHEET 1 OF 2

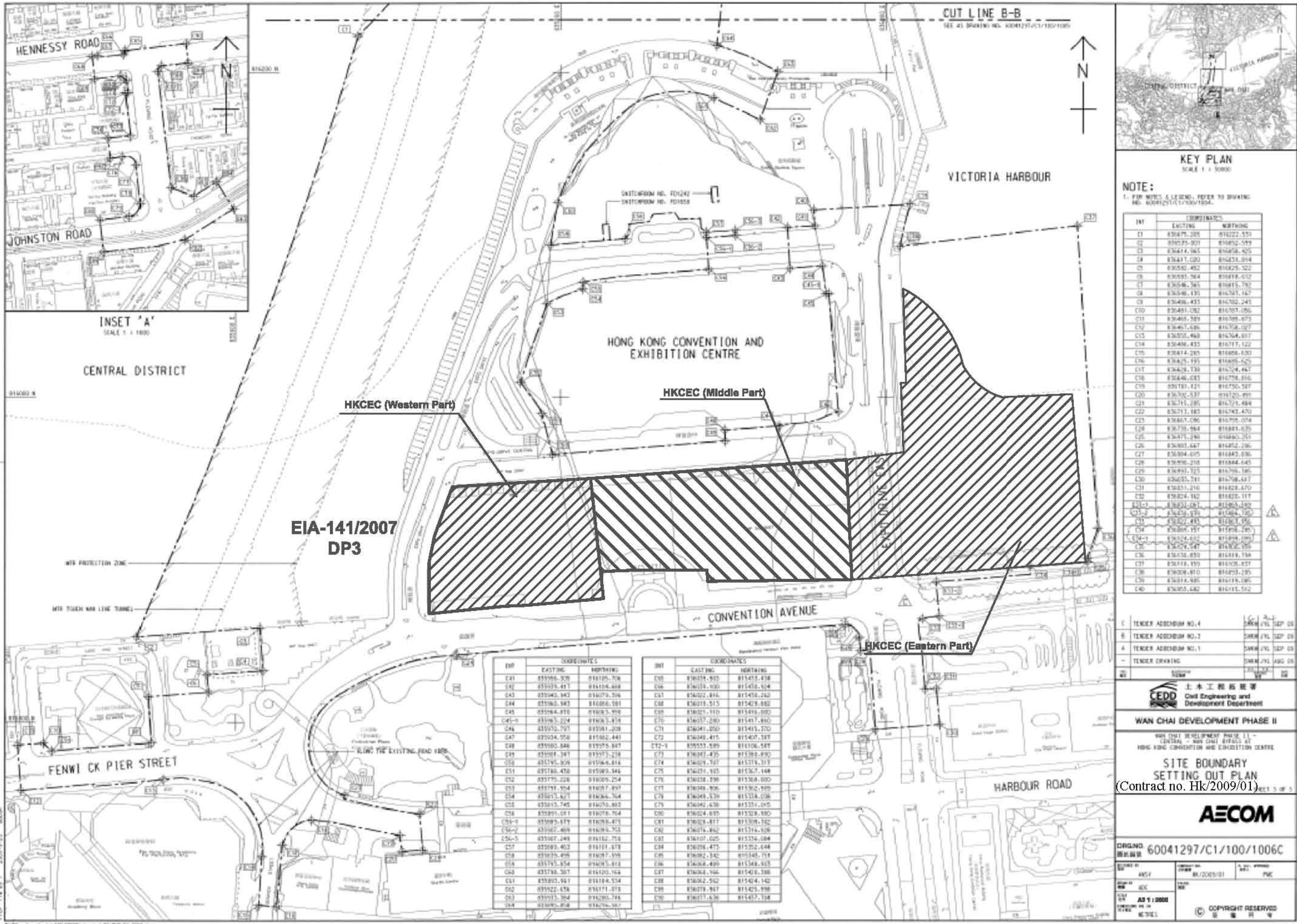
AECOM

DRG.NO. 圖紙編號 60095653/NP/1651B

DESIGNED BY TTF | CONTRACT NO. HY/2009/11 | APPROVED CW
DRAWN BY CJH | STATUS WORKING DRAWING
SCALE A1 1:1000 A3 1:2000
DIMENSIONS ARE IN METRES

p:\project\60095653\drawing\NP\1000\NP_1651.dgn


VICTORIA HARBOUR
Dredging and Backfilling Work
for
Cross Harbour Watermain
EIA-141/2007
DP6
Dredging and Backfillind Works
for HKCEC
EIA-141/2007
DP3
GLOUCESTER ROAD
N
LOCATION PLAN
SCALE 1 : 50000
NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. THE RESTRICTION SHOWN IN THIS DRAWING WILL COME INTO EFFECT AFTER THE OPERATION OF THE GOVERNMENT HELIPAD AT EXPO DRIVE EAST.
LEGEND:
CONTRACT BOUNDARY
MOORING RESTRICTION ZONE
NAVIGATION AND MOORING RESTRICTION ZONE
WORKING BARGE, NAVIGATION AND MOORING RESTRICTION ZONE
TENDER ADDENDUM NO.4
TENDER ADDENDUM NO.1
TENDER DRAWING
CEDD
土木工程拓展署
Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - EXTERNAL WORKS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
RESTRICTED ZONE FOR CONSTRUCTION VESSELS
(Contract no: HK/2009/01)
AECOM
DRG.NO. 60041297/C1/100/10108
AS 1:6000
METRES
© COPYRIGHT RESERVED



CUT LINE B-B
HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
CENTRAL DISTRICT
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
CONVENTION AVENUE
FENWICK PIER STREET
HARBOUR ROAD
KEY PLAN
NOTE:
WAN CHAI DEVELOPMENT PHASE II
SITE BOUNDARY
SETTING OUT PLAN
(Contract no. Hk/2009/01)
AECOM
Civil Engineering and Development Department
60041297/C1/100/1006C
COPYRIGHT RESERVED

OVERALL Working Schedule

ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 1 (Days 1 to 830)	830	28/01/10	06/05/12
DREDGING & RECLAMATIONS PHASE 1 (WCR1)	C 146	22/05/10	19/10/10
DREDGING & LAYING OF SUBMARINE OUTFALL PIPE ON SEA	410	21/09/10	02/02/12

Stage 1 - Overall Working Schedule on Reclamation Area of WCR1 and Associated Area (Days 1 to 830)

Section of Works	A	Major Work at Area WCR1
XI	A1	Construct western and eastern temporary seawall
XI	A2	Dredging and construct new seawall
XI	A3	Reclamation to level +3.5mPD
IXB	A4	Construct diaphragm wall and barrette pile of tunnel "Portion 1"
IXB	A5	Construct tunnel "Portion 1" structures including excavation and backfilling with ELSW
IVA, IVB, IVC V, VI, VII	A6	Construct all drainage system, pipeworks of intakes and cooling system within Area WCR1

Section of Works	B	Major Work in Associated Area
IVA, IVB, IVC	B1	Construct P7, P8 and P9 new pumping stations
V	B2	Construct WSD's pumping station
VI	B3	Construct connection chamber in Wan Chai East Preliminary Treatment Plant
IVA, IVB, IVC V, VI, VII	B4	Construct all drainage system, pipeworks of intakes and cooling system on public road
VI	B5	Dredging and construct the submarine outfall pipes
VIIIA	B6	Construct new Wan Chai Ferry Pier
III	B7	Construct new permanent helipad at Expo Drive
III	B8	Construct new public toilet and passenger terminal building at Expo Drive

Section of Works	C	Other Miscellaneous Works
III	C1	Construct new taxi and coach bus parking space at Expos Drive East
III	C2	Modification work on existing seawall and provide new EVA at Expo Drive
III	C3	Road re-alignment work on existing PTI at Expo Drive
II	C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
III	C5	Demolition of existing above ground structure at Expo Drive
V	C6	Demolition of existing staircase of footbridge at Wan Shing Street
IXA	C7	Demolition of existing temporary helipad at ex-PCWA

Section of Works	D	Other Temporary Works
XI	D1	Divert existing 1800 mm diameter drain pipe

N

N 816230

N 816030

N 815830

GOLDEN BAUHINIA SQUARE

VICTORIA HARBOUR

RECLAMATION WORKS BY OTHERS

TUNNEL WORKS BY OTHERS

35m CLEAR SPACE

P7 P8 P9

EXISTING WATER INTAKES

DIRECTION OF TUNNEL WORKS

DRAINAGE DIVERSION OF 1800 PIPE

EXISTING SUBMARINE OUTFALL (SEWAGE)

EXISTING DISCHARGE

B1 B2 B3 B4 B5 B6 B7 B8

A1 A2 A3 A4 A5 A6

C1 C2 C3 C4 C6 C7

D1

0 20 40 60m

1 : 2000 SCALE BAR

REV	DATE	DESCRIPTION
C	19/05/2010	WORKING SCHEDULE UPDATED & TEMPORARY SEAWALL LAYOUT REVISED
B	14/04/2010	SECTION OF WORKS ADDED
A	08/04/2010	AS MARKED & TITLE BLOCK UPDATED

CLIENT

ENGINEER'S REPRESENTATIVE

CONTRACTOR

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

PROJECT

CONTRACT NO. HK/2009/02
WAN CHAI DEVELOPMENT PHASE II
CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST

DRAWING TITLE

DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

	DESIGN	DRAWN	CHECKED
INITIAL	-	M.S. SIN	-
DATE	-	07/04/2010	-

DRAWING NO. CWCRJV/HK200902/SK0031 REV C

SCALE 1 : 2000 (A3)

P:\01_Construction Team\CAD (sketch working)\2010_05_19 SK0031C\CWCRJV-HK200902-SK0031C.dwg, 20/5/2010 9:34:20

LEGEND:

WORKS AREA

DREDGING AREA FOR
MITGATION OF ODOUR(DP3)

SITE BOUNDARY

TCBR1E

TCBR2
AND
TCBR3

TCBR4

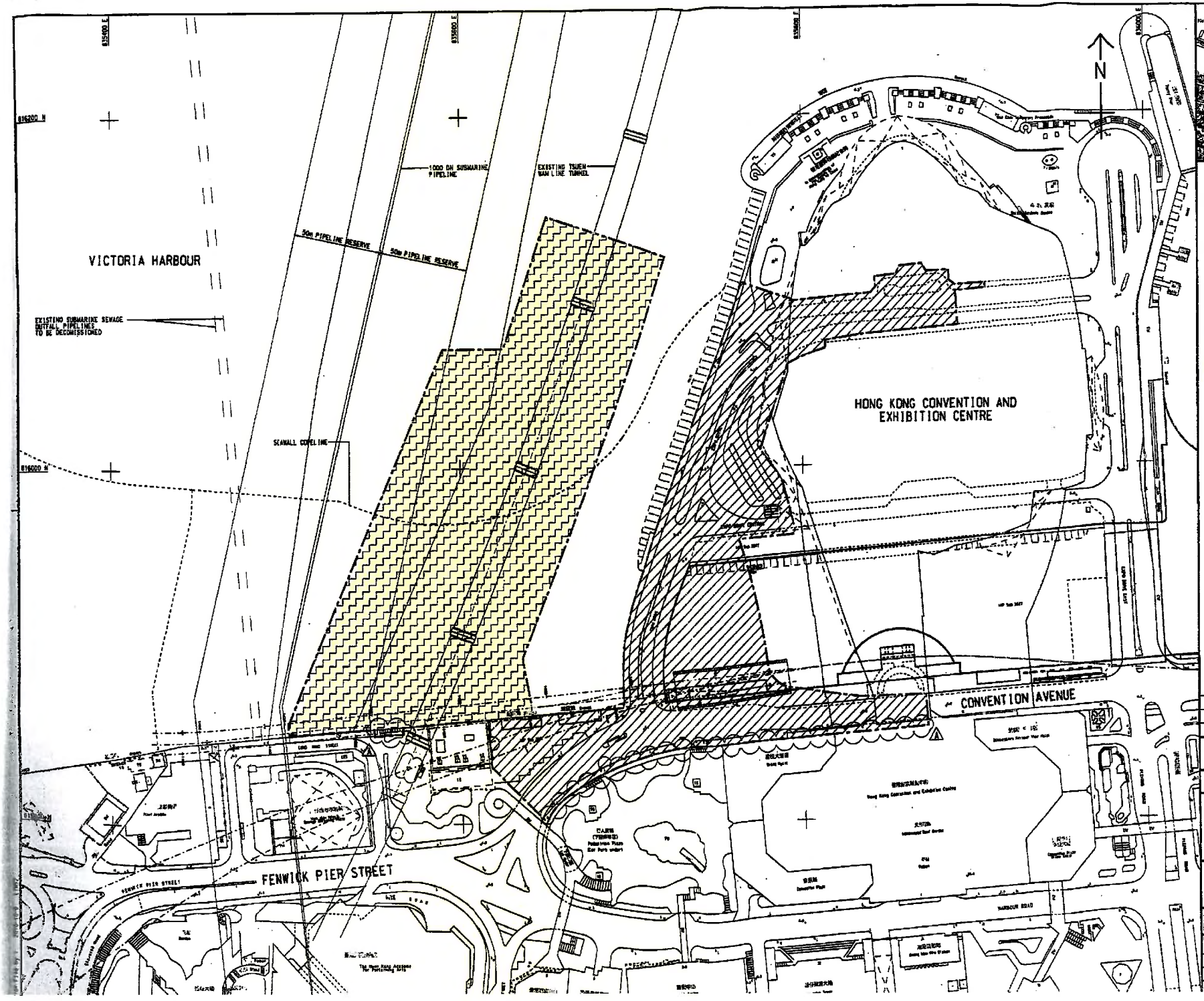
TCBR1W

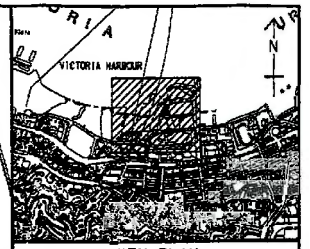
TPCWAE

TPCWAW

DP3

中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.	
Highways Department CONTRACT NO. HY/2009/15 CENTRAL–WAN CHAI BYPASS –TUNNEL (CAUSEWAY BAY TYPHOON SHELTER SECTION)	
TITLE LOCATION PLAN OF WORKS AREA	
DRG. NO. CWBT/EPD/001B	
SCALE 1:1000 @ A0	STATUS
DIMENSIONS ARE IN MILLIMETERS	COPYRIGHT RESERVED





KEY PLAN
SCALE 1 : 20000

NOTES:

1. COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.
2. LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (HPD) UNLESS OTHERWISE NOTED.
3. DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. SETTING OUT DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.
5. SITE BOUNDARY SETTING OUT POINTS SHALL REFER TO DRAWING NO. 60041297/C4/100/1201.

LEGEND:

- SITE BOUNDARY
- PORTION 1
- PORTION 2 (DELAY POSSESSION)

REV	DESCRIPTION	BY	CHK	DATE
A	TENDER ADDENDUM NO.1	SWKM	JYL	OCT 10
-	TENDER DRAWING	SWKM	JYL	SEP 10

CEDD 土木工程拓展署 Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II - CENTRAL-WAN CHAI BYPASS OVER MTR TSUEN WAN LINE

PORTIONS OF THE SITE (Contract HK/2010/06)

AECOM

DRG.NO. 60041297/C4/100/1301A

DESIGNED BY SWKM	DRAWING NO. HK/2010/06	CHK'D BY TKH
DRAWN BY ADC	SCALE	
DATE	A1 1:1000	

Figure 2.2

Project Organization Chart

Project Organization Chart

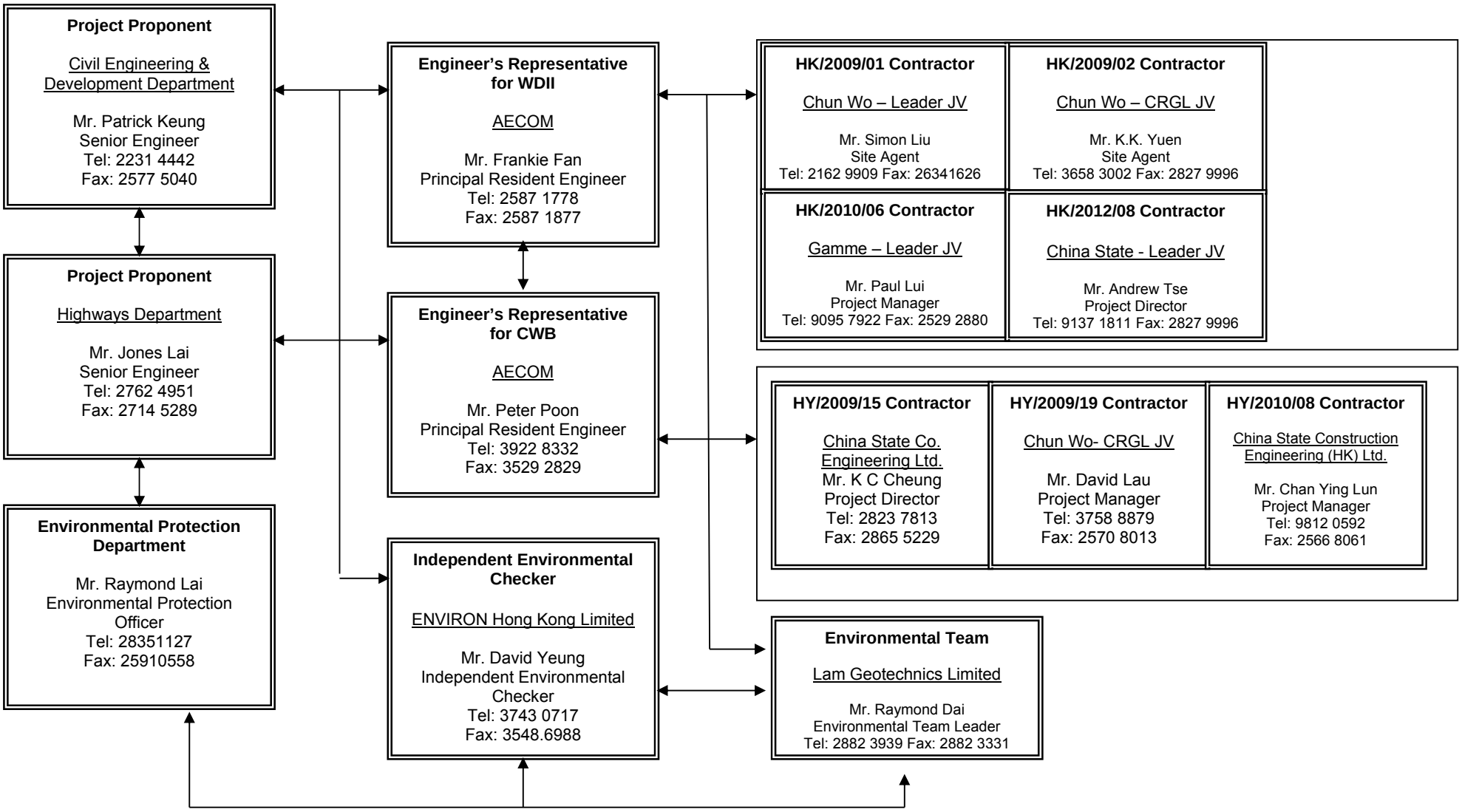
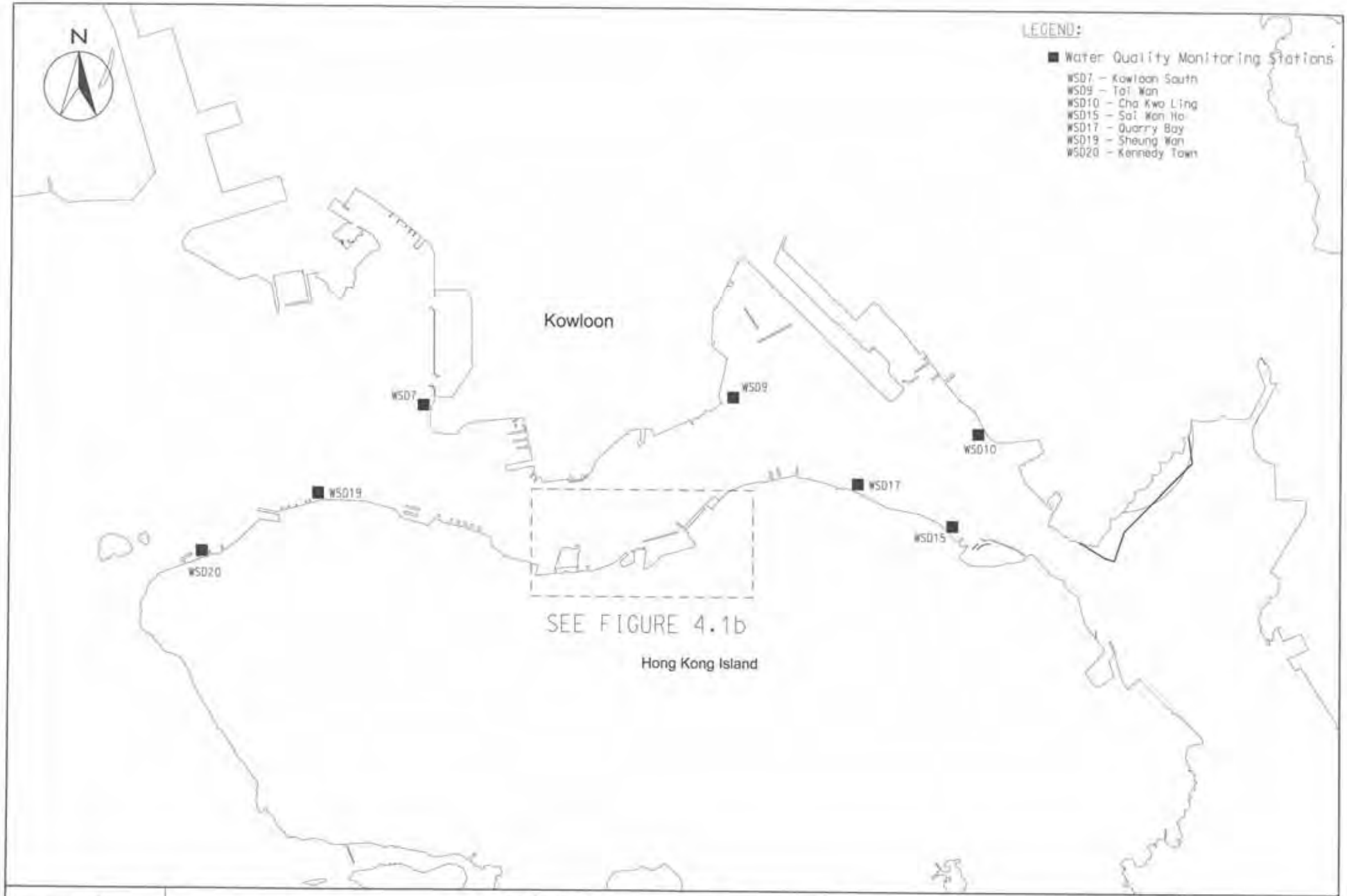


Figure 4.1

Locations of Monitoring Stations



MAUNSELL AECOM
Maunsell Consultants Asia Ltd

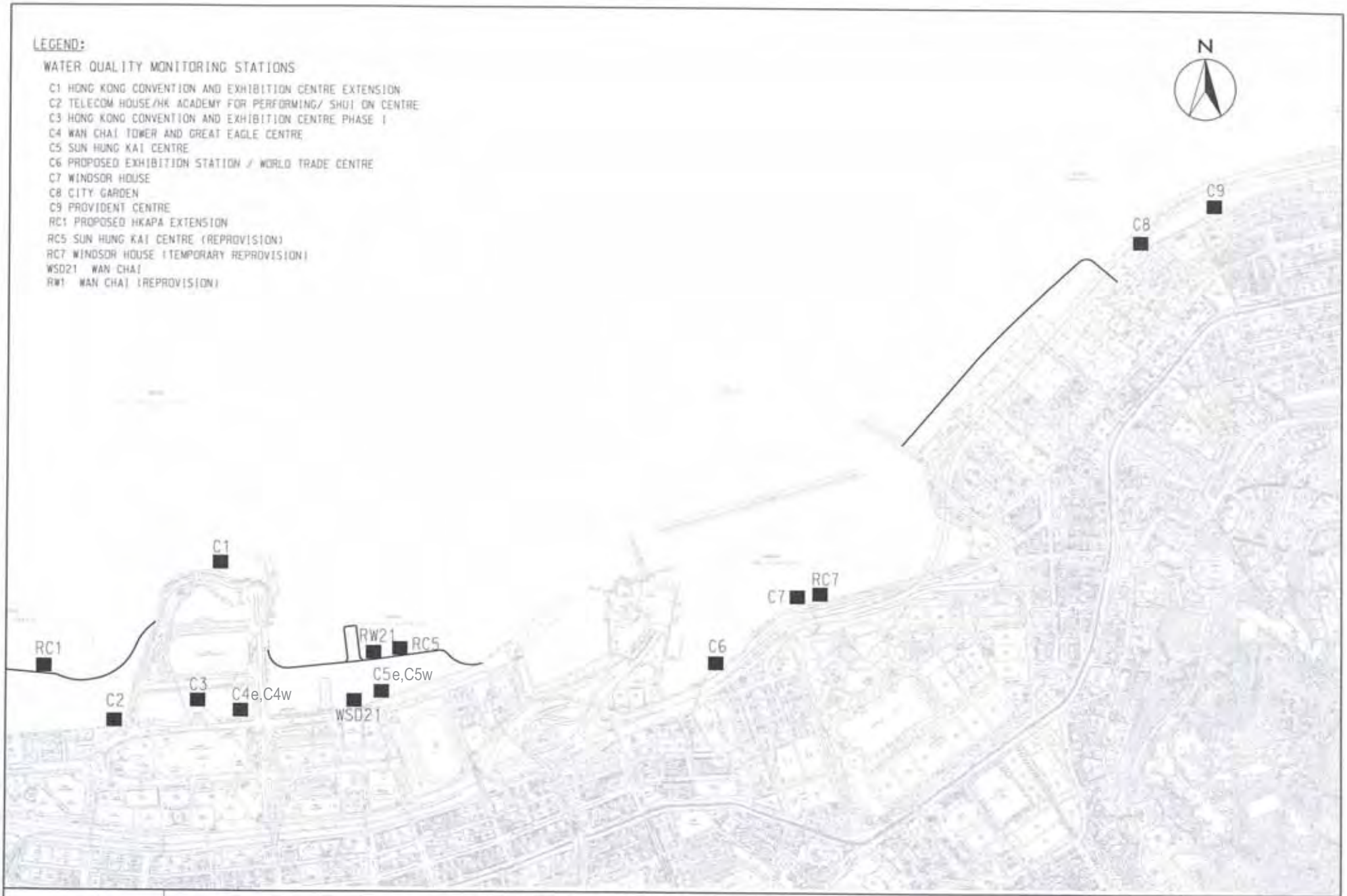
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

(SHEET 1 OF 2)

FIGURE 4.1a

P:/60017193/REPORT/DRAWINGS/EM&A-0708/WQ/4.1A.DGN SCALE: N.T.S. (A3)



MAUNSELL AECOM
Maunsell Consultants Asia Ltd

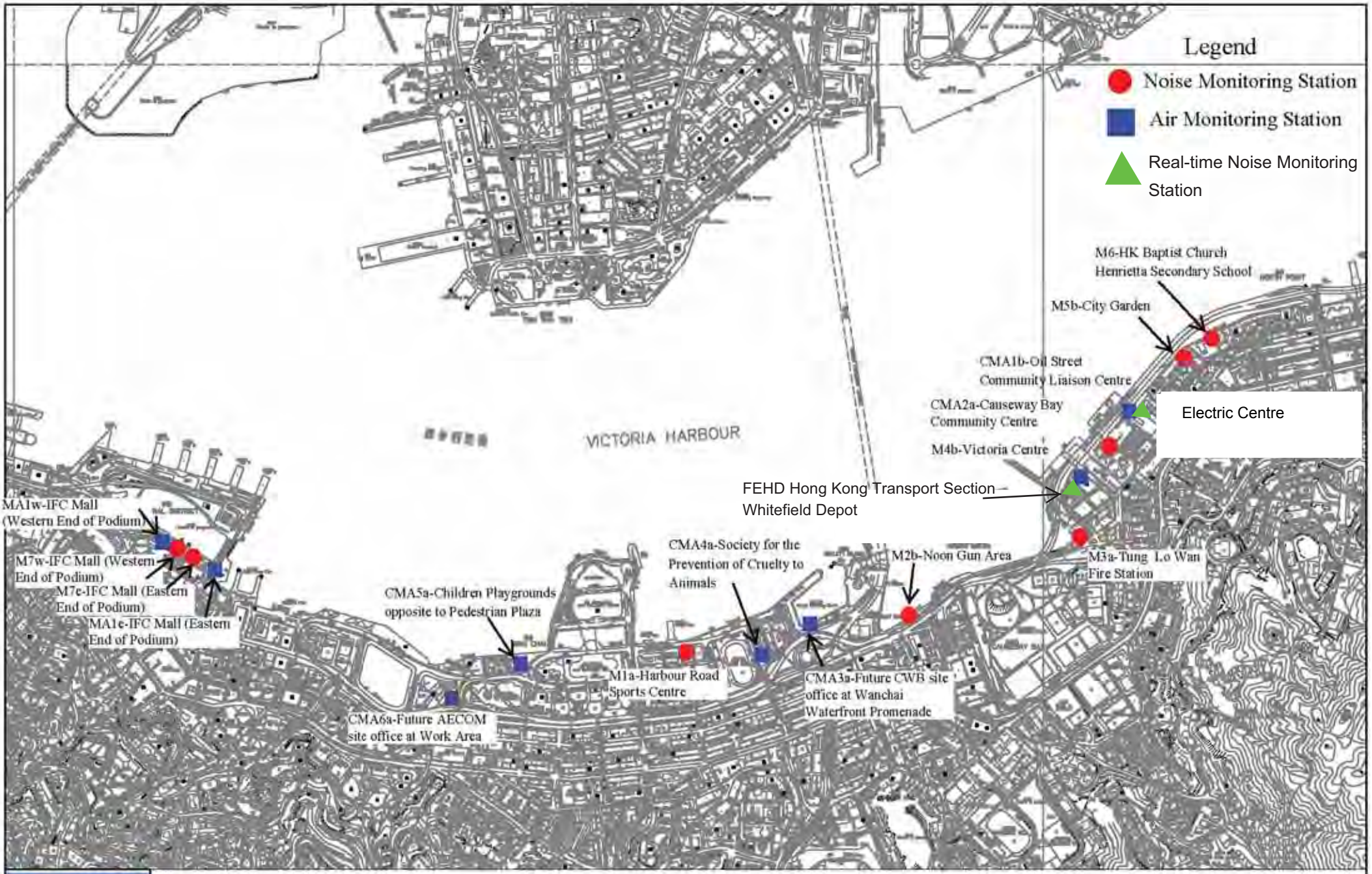
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

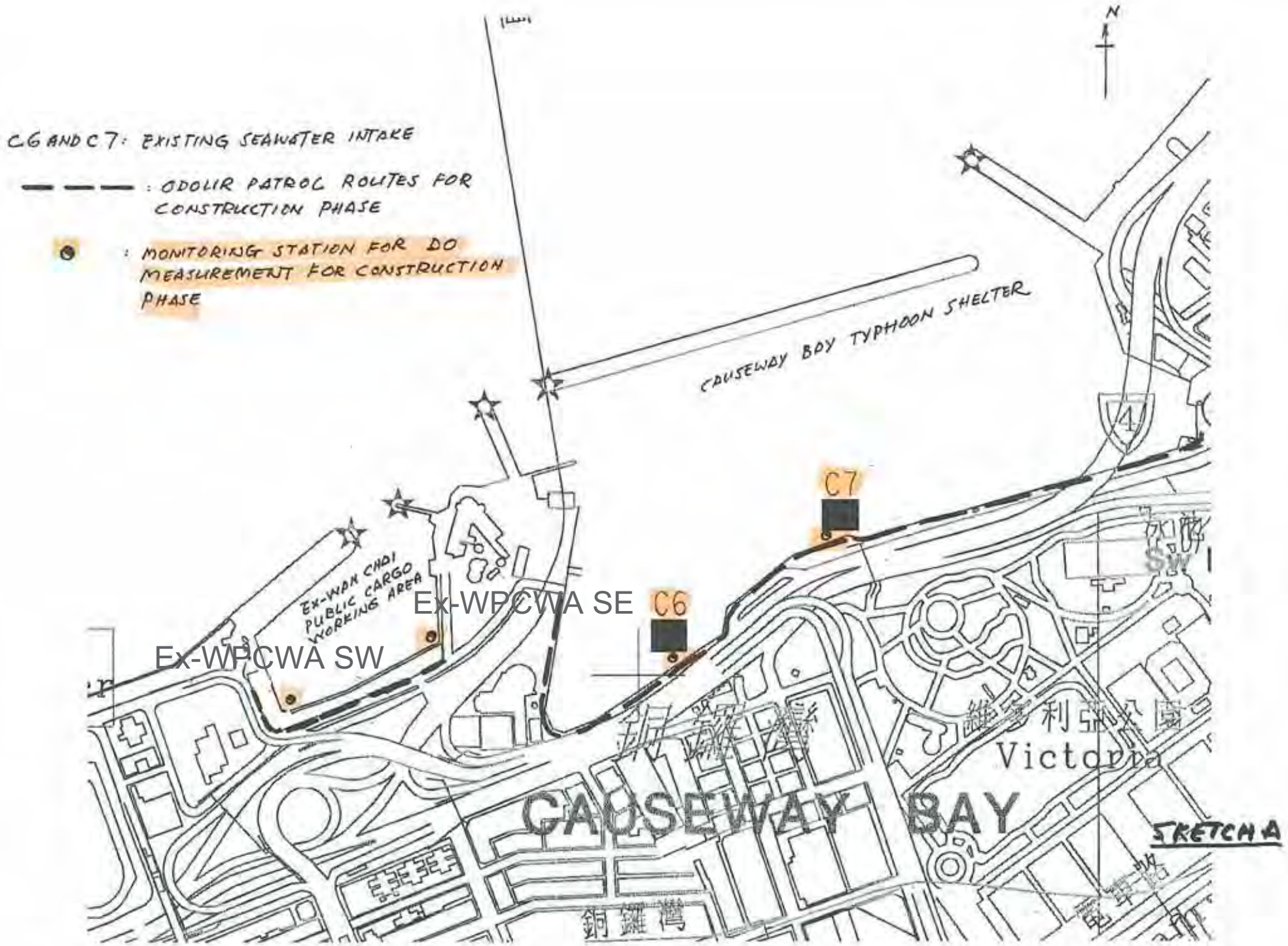
(SHEET 2 OF 2)

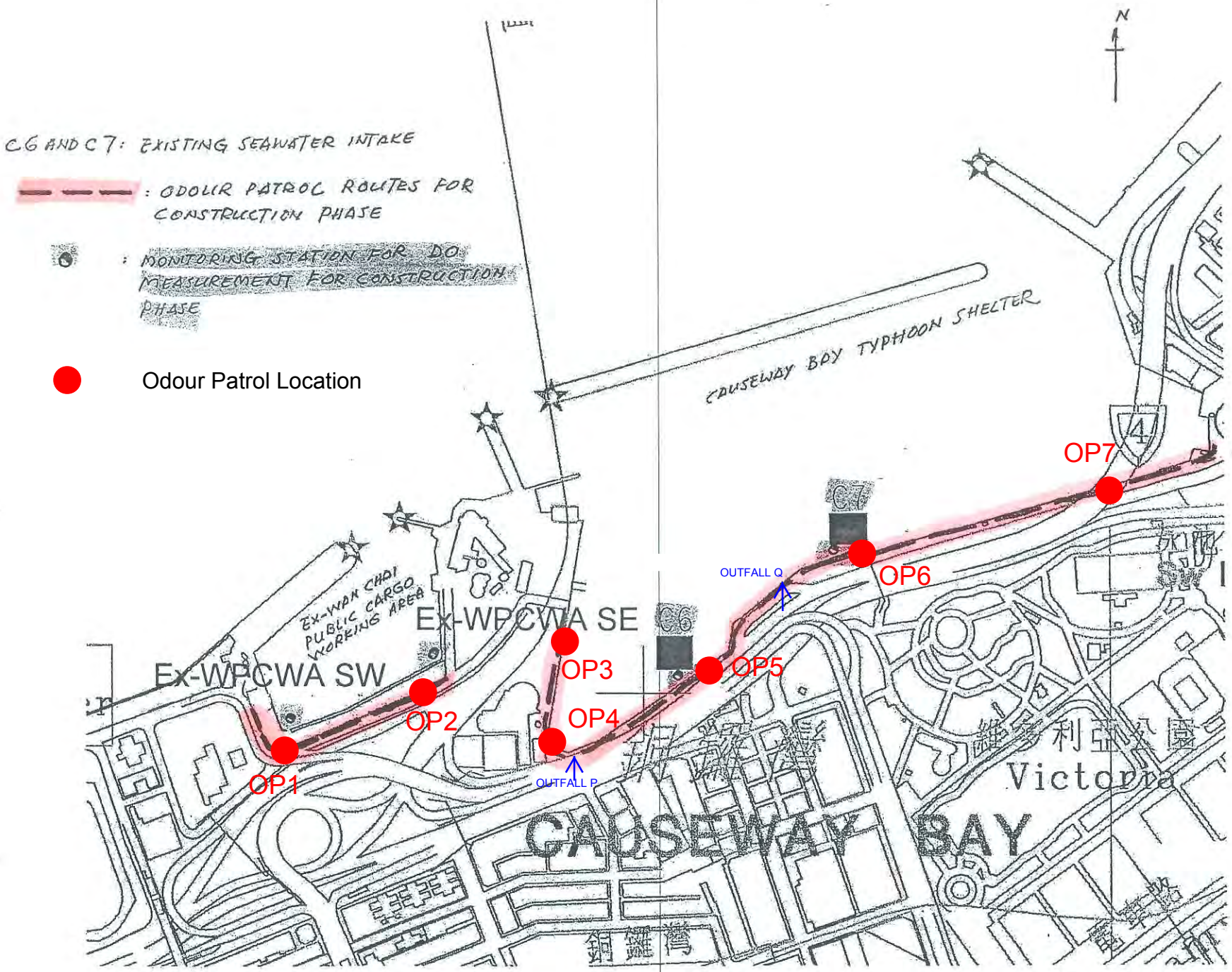
FIGURE 4.1b

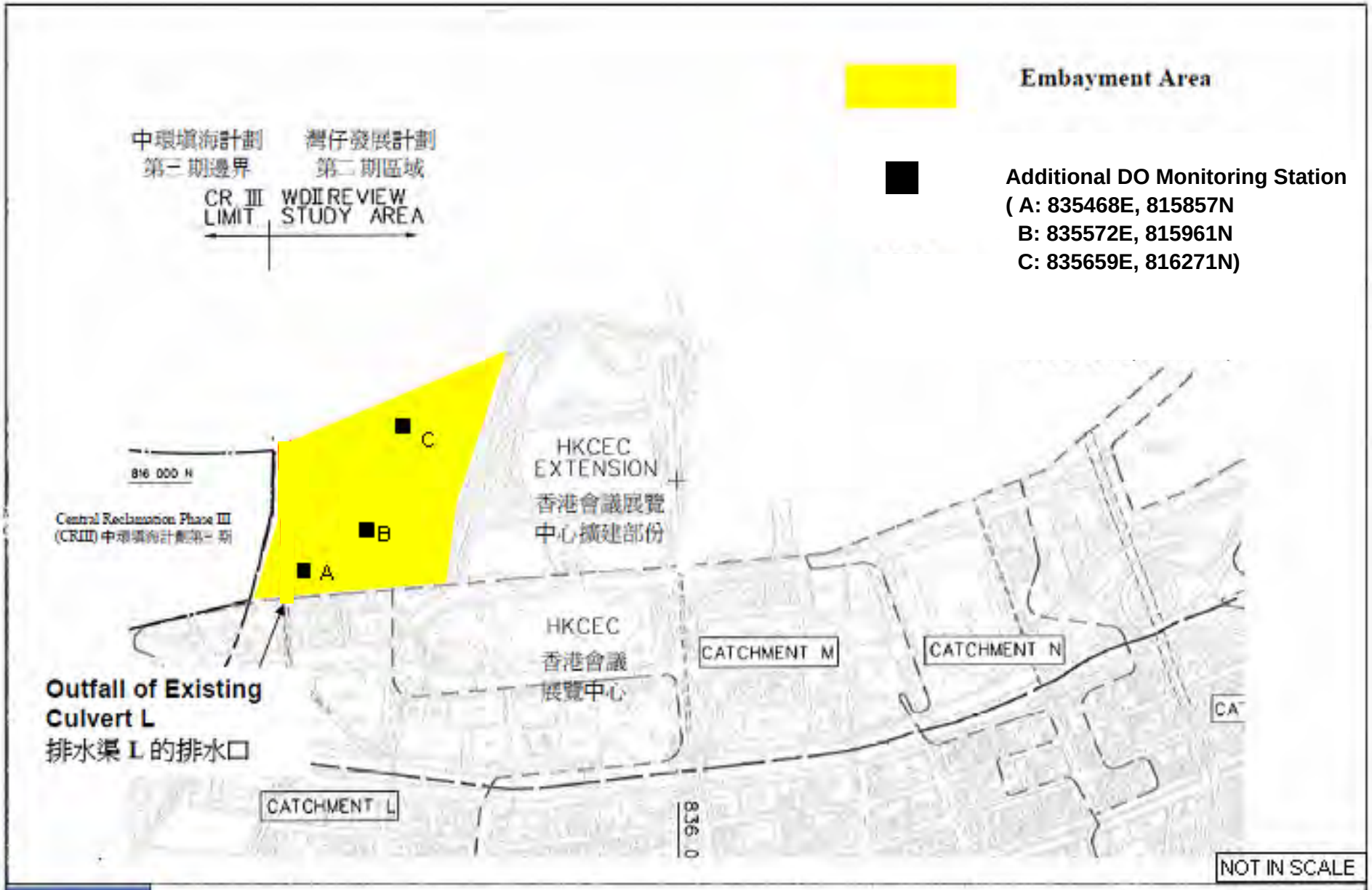
P:/6001719J/REPORT/DRAWINGS/EM&A-0708/WQ/4.1B.DGN SCALE 1:8000 (A3)



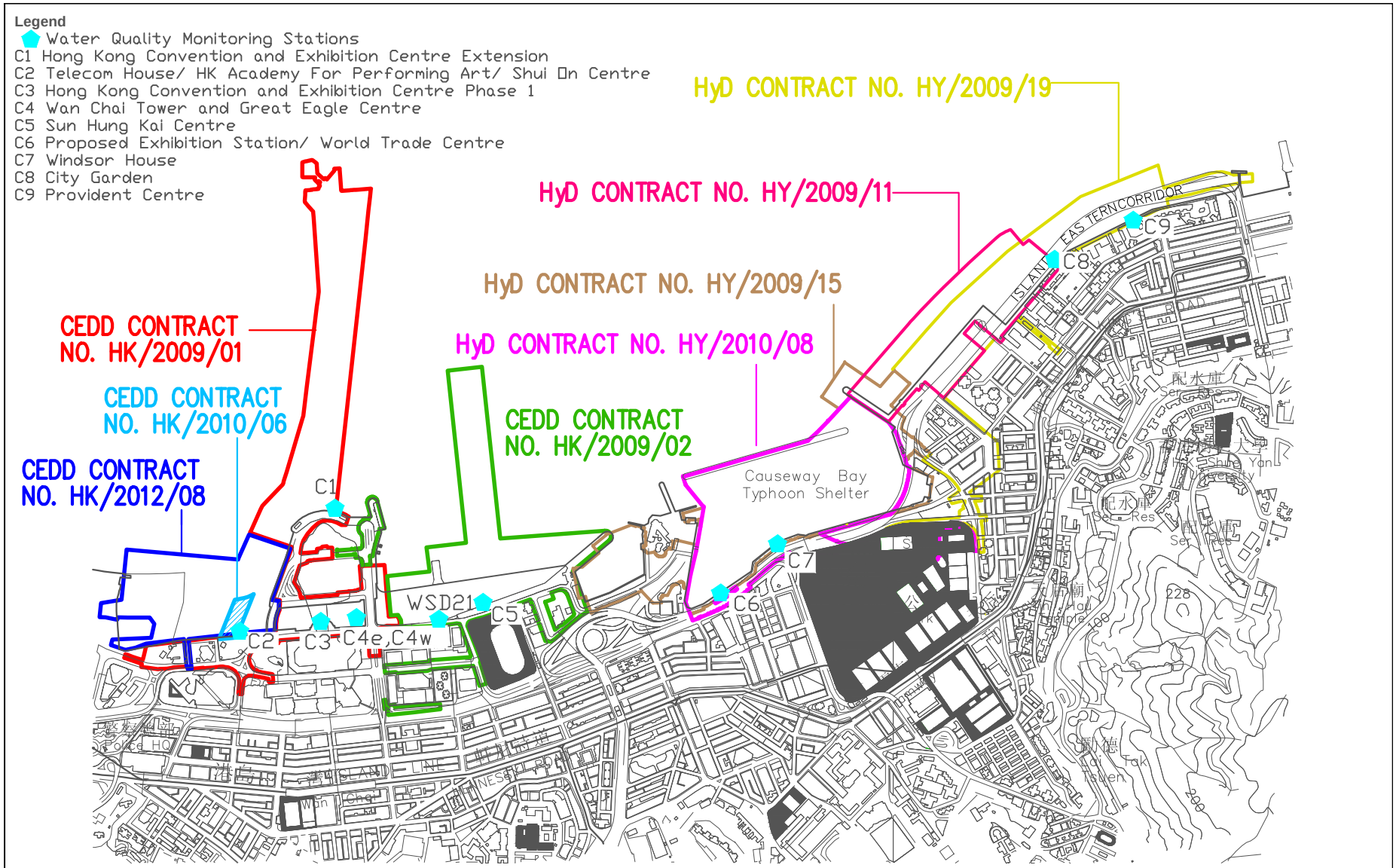
Location plan of Environmental Monitoring Stations


C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
N
CAUSEWAY BAY TYPHOON SHELTER
C7
C6
EX-WAN CHAI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
CAUSEWAY BAY
銅鑼灣
Victoria
SKETCH A

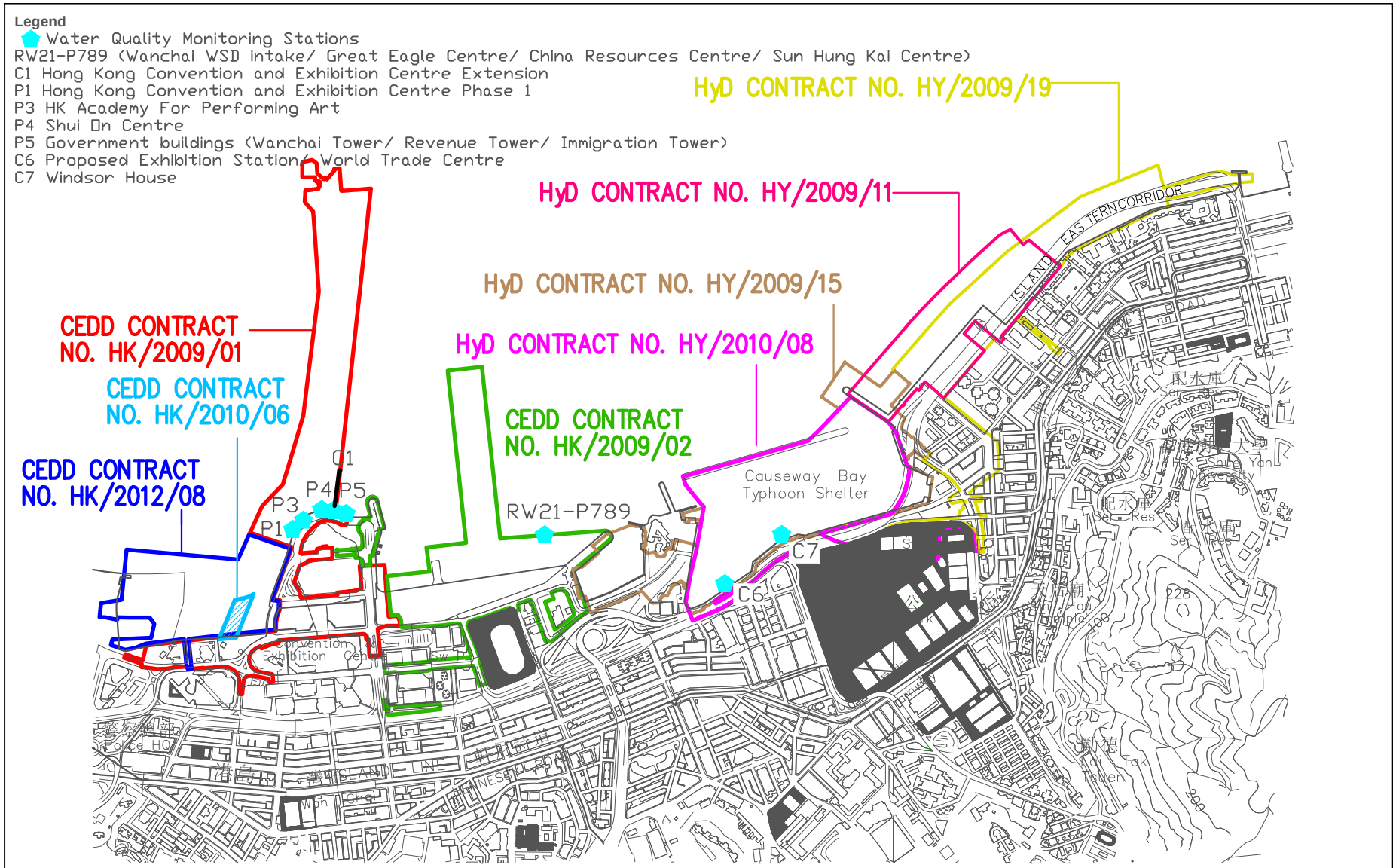

C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
Odour Patrol Location
N
CAUSEWAY BAY TYPHOON SHELTER
EX-WAN CHAI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
OP1
OP2
OP3
OP4
OP5
OP6
OP7
OUTFALL P
OUTFALL Q
C6
C7
CAUSEWAY BAY
Victoria



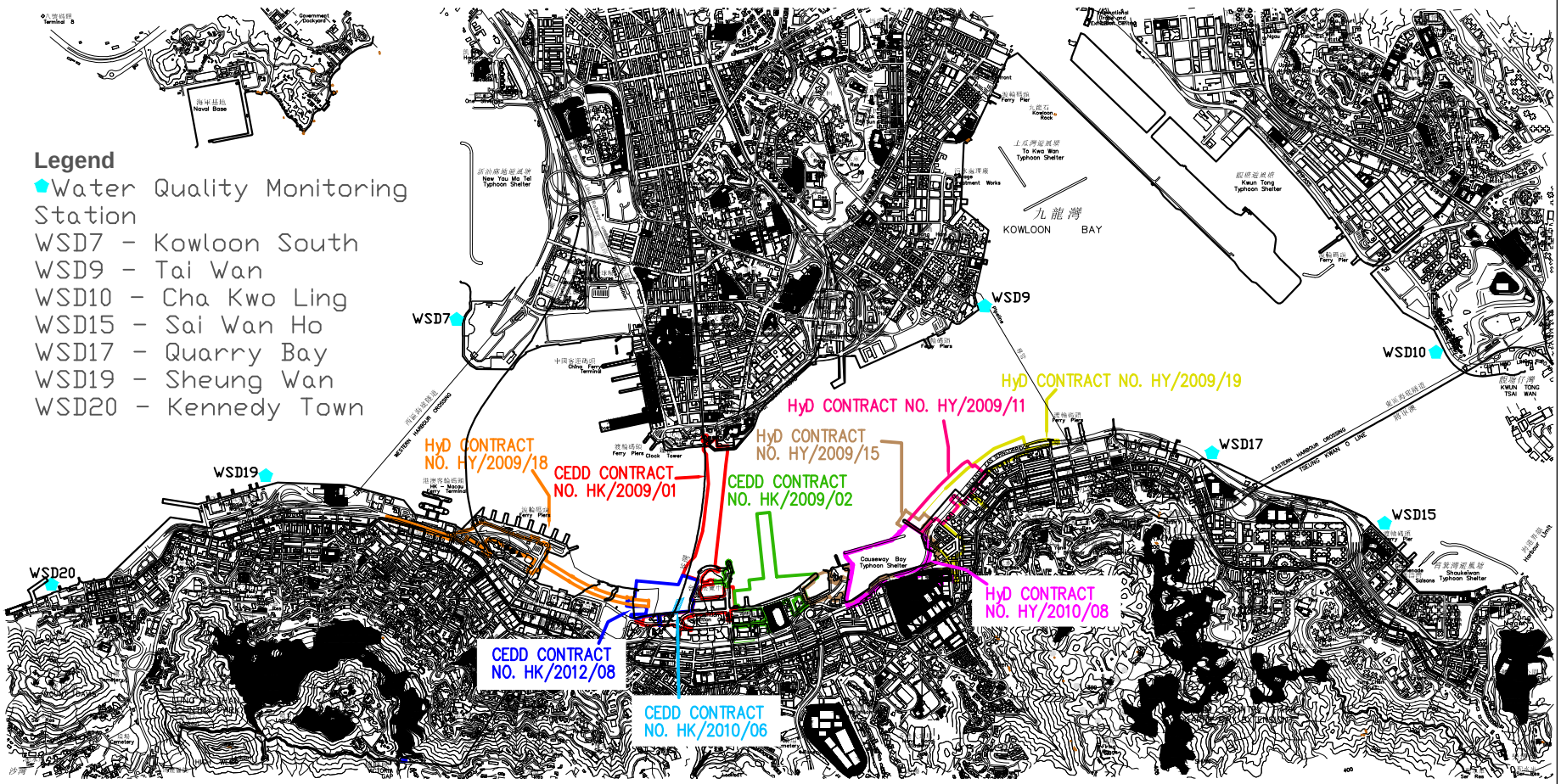
Location Plan of Additional Dissolved Oxygen Monitoring Stations for Culvert L Water Discharge Flow



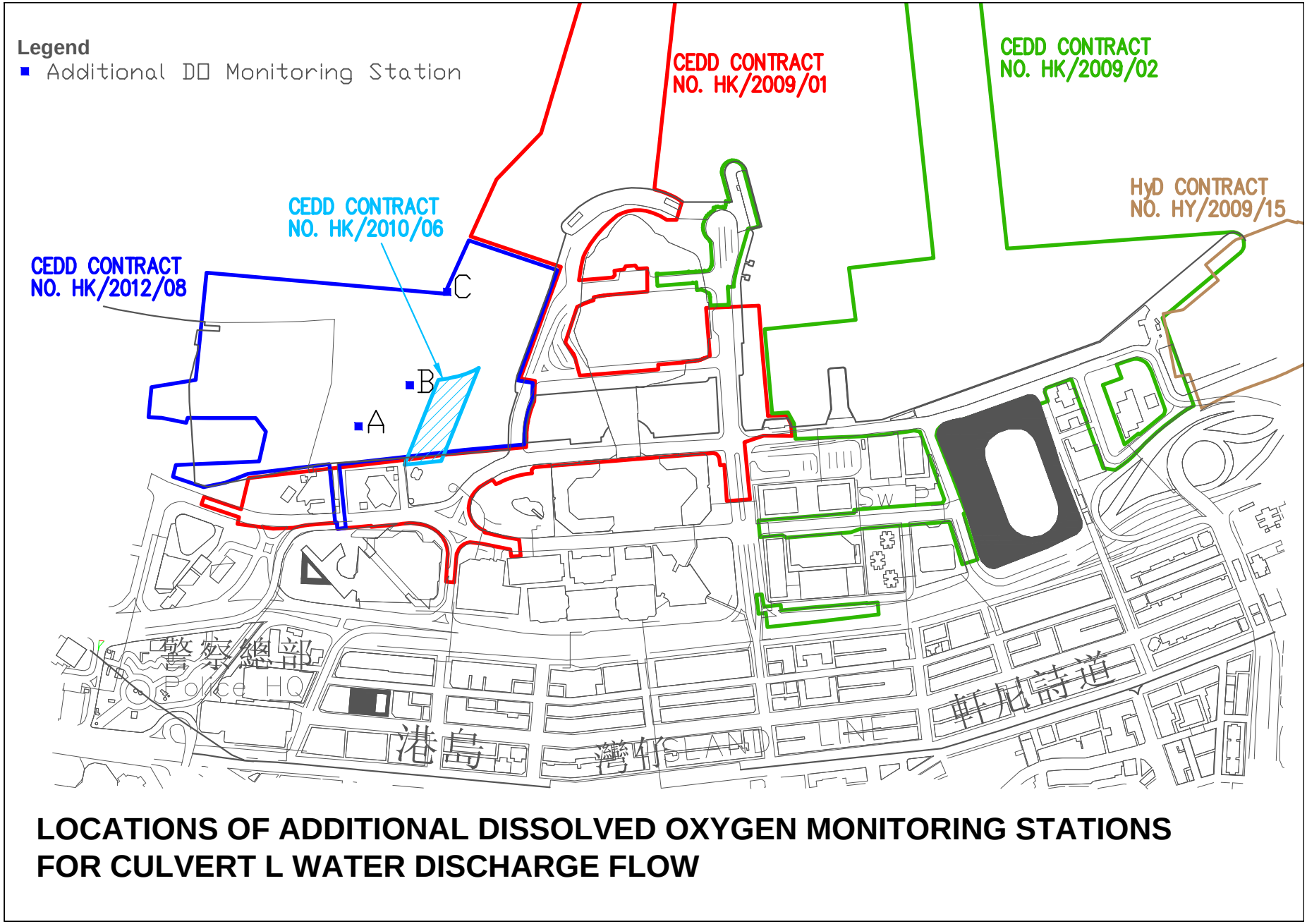
LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF ADDITIONAL DISSOLVED OXYGEN MONITORING STATIONS FOR CULVERT L WATER DISCHARGE FLOW

Appendix 3.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
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		√			

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD[1]		√			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD[2]		√			EIAO-TM
Operation Phase								
For the Whole Project								

[1] CEDD will identify an implementation agent.

[2] CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on-going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD[1]			√		EIAO-TM
For DP1 – CWB (Within the Project Boundary)								
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	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 A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.9.4	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
For DP1 – CWB (Within the Project Boundary)								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.3 – S4.8.5	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 • 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	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
For DP2 – WDII Major Roads (Road P2)								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
For DP3 – Reclamation Works								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following task: • Filling behind seawall • Seawall construction	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
For DP5 – Wan Chai East Sewage Outfall								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: • Installation of a new pipeline (land section)	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Operation Phase								
For DP1 – CWB (Within the Project Boundary)								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.14 – S4.8.18	• 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 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC • 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
	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	√	√ #			

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	• 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 A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For DP3 – Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui), DP1 – CWB (within the Project Boundary)								
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	Dredging shall be carried out by closed grab dredger for the following works: • Seawall construction in all the reclamation areas; • Construction of the CWB Tunnel • Construction of the proposed WSD water mains; and • Construction of the proposed Wan Chai East sewage outfall pipelines.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: • Dredging along the proposed cross-harbour water mains; • Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain. **Reclamation Area** / **Maximum Dredging Rate** (m^3 per day; m^3 per hour (for 16 hrs per day)) / **Maximum Dredging Rate (m^3 per week)** **Dredging along seawall or breakwater** North Point Shoreline Zone (NPR): 6,000 / 375 / 42,000 Causeway Bay Shoreline Zone: TBW 1,500 / 94 / 10,500; TCBR 6,000 / 375 / 42,000 PCWA Zone: 5,000 / 313 / 35,000	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<table><tr><td colspan="2">Wan Chai Shoreline Zone (WCR)</td><td>6,000</td><td>375</td><td>42,000</td></tr><tr><td rowspan="2">HKCEC Shoreline Zone (HKCEC)</td><td>HKCEC Stage 1 & 3</td><td>1,500</td><td>94</td><td>10,500</td></tr><tr><td>HKCEC Stage 2</td><td>6,000</td><td>375</td><td>42,000</td></tr><tr><td colspan="2">Cross Harbour Water Mains</td><td>1,500</td><td>94</td><td>10,500</td></tr><tr><td colspan="2">Wan Chai East Submarine Sewage Pipeline</td><td>1,500</td><td>94</td><td>10,500</td></tr></table> Note: 1,500 m^3 per day shall be applied for construction of the western seawall of WCR1.							
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m^3 per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater intakes at interim construction stages as stated below: <table><tr><th>Interim Construction Stage</th><th>Location of Applications</th></tr><tr><td>**Scenario 2A** in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA, TBW, NP and Water Mains Zone</td><td>**WSD saltwater intakes** at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South **Cooling water intakes** for Hong Kong Convention and Exhibition Centre Extension, Hong Kong Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre</td></tr><tr><td>**Scenario 2B** in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.</td><td>**WSD saltwater intakes** at Sheung Wan, Wan Chai **Cooling water intakes** for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.</td></tr><tr><td>**Scenario 2C** in 2011 with concurrent dredging activities at HKCEC and TCBR.</td><td>**WSD saltwater intakes** at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. **Cooling water intakes** for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.</td></tr></table>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	Other mitigation measures include: • mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used; • all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material; • construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; • loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	• before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging rate shall be reduced as much as practicable. Site audit and water quality monitoring shall be carried out at the seawater intakes during the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Implementation of harbour-front enhancement.	CEDD[3]		√			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
For the Whole Project								
S5.8	• Construction Runoff and Drainage • use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; • Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94; • a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; • oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain; • precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events; • on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge; • All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer	• Work site / During the constructi on period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

[3] CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	required. • All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity.							
	• Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
S5.8	*Sewage from Construction Work Force* Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	*Floating Debris and Refuse* Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		√			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	*Storm Water Discharges* Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
Operation Phase								
DP1 – CWB (within the Project Boundary)								
S5.8	For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: • The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. • Petrol interceptors shall be regularly cleaned and maintained in good working condition. • Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance. • Sewage arising from ancillary facilities of CWB (for examples, car park,	CWB/During design and operational period	HyD/TD[3]	√		√		WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities. • Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff. • The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.							

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

[3] if employ Management, Operation and Maintenance (MOM) Contract

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For DP3 – Reclamation Works								
S6.7.2	***Marine Sediments*** The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.	Work site / During the construction period	Contractor		√			ETWB TCW No. 34/2002
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm^3. A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
S6.7.6	During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: • Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	• Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. • Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.							
S6.6.12	***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 13.3.	Work site / During the construction period	Contractor		√			
For the Whole Project								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.7	*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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.8	*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	√	√			

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.10	*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)
S6.7.11	*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
S6.7.12	*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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling 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
S6.7.14	*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 A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
S.12.6	• The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re-provisioned Tin Hau Temple	√				"*Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops*" published by EPD, HKSAR EPD ProPECC Note No. 3/94
S7.10	During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: • Excavation profiles must be properly designed and executed; • In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; • Quantities of soil to be excavated must be estimated; • It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. • Temporary storage of soil at intermediate depot or on-site	A King Marine / During soil remediation works	Contractor	√				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	• Supply of suitable clean backfill materials is needed after excavation. • Care must be taken of existing buildings and utilities. • Precautions must be taken to control of ground settlement • Speed controls for vehicles shall be imposed on dusty site areas. • Vehicle wheel and body washing facilities at the site's exit points shall be established and used. The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities:							Water Pollution Control Ordinance

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	Air Quality Mitigation Measures • The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. • The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. • All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. • Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.							
	Noise Mitigation Measures • The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. • Simultaneous operation of mixing facilities and other equipment shall be avoided. • Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. • Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	Water Quality Mitigation Measures • Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following the requirements of WPCO. *Waste Mitigation Measures* • Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment. • Stabilized soils shall be broken into suitable size for backfilling or reuse on site. • A high standard of housekeeping shall be maintained within the mixing plant area. • If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials.							

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

Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project - Schedule 3 DP								
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 – Reclamation Works								
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.4	During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following: • Installation of silt curtains during dredging activities • Use of tightly-closed grab dredger • Reduction of dredging rate • Control of grab descending speed • Construction of leading edges of seawall in the early stages of the reclamation works	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	• Adoption of multiple-phase construction schedule							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.6	To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended: • Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible. • Adoption of multiple-phase construction schedule. • General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
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
For DP1 – CWB (Within the Project Boundary)								
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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP2 – WDII Major Roads (Road P2)								
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
For DP3 – Reclamation Works								
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
For DP5 – Wan Chai East Sewage Outfall								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
Operation Phase								
For the Whole Project - Schedule 3 DP								
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	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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	CEDD/HyD/	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD[4]	√	√	√		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	CEDD/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	CEDD/HyD	√	√	√		ETWB TCW 2/2004
For DP1 – CWB (Within the Project Boundary)								
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	OM2 Shrub and Climbing Plants to soften proposed structures	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
For DP2 – WDII Major Roads (Road P2)								

[4] CEDD will identify an implementation agent

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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	CEDD/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	CEDD/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	CEDD/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	CEDD/HyD		√	√		ETWB TCW 2/2004
For DP3 – Reclamation Works								
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD[5]	√	√	√		ETWB TCW 2/2004

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

[5] CEDD will identify an implementation agent

Appendix 4.1

Action and Limit Level

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)[Note 1]

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 [Note 2]	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a [Note 2]	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5a [Note 2]	332.0	500	181.0	260
CMA6a [Note 2]	300.1	500	187.3	260

Note 2:

- *As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.*
- *The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations.*

Action and Limit Level for Water Monitoring

Parameters	Dry Season		Wet Season	
	Action	Limit	Action	Limit
WSD Salt Water Intake				
SS in mg L^{-1}	13.00	14.43	16.26	19.74
Turbidity in NTU	8.04	9.49	10.01	11.54
DO in mg/L	3.66	3.28	3.17	2.63
Cooling Water Intake				
SS in mg L^{-1}	15.00	22.13	18.42	27.54
Turbidity in NTU	9.10	10.25	11.35	12.71
DO in mg/L	3.36	2.73	3.02	2.44

Remarks:

- *Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.*

Action and Limit Levels for Odour Patrol

Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	• When two documented complaint are received; or • Odour Intensity of 2 is measured from odour intensity analysis.	• Five or more consecutive genuine documented complaints within a week; or • Odour Intensity of 3 or above is measured from odour intensity analysis.

Appendix 4.2

Copies of Calibration Certificates

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: DEREK LO **WORK ORDER:** HK1310044

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 03/12/2013

DATE OF ISSUE: 10/12/2013

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory. Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203008
Equipment No.:	--
Date of Calibration:	10 December, 2013

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee
Director

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310044
DATE OF ISSUE: 10th December, 2013
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203008
Equipment No.:	--
Date of Calibration:	10 December, 2013
Date of next Calibration:	10 March, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	3.68	-8.0
10	10.3	+3.0
40	38.2	-4.5
100	94.0	-6.0
400	416	+4.0
1000	970	-3.0
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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領導檢測有限公司

PILOT TESTING LIMTIED

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: KATHIE HO **WORK ORDER: HK1310025**

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 04/11/2013

DATE OF ISSUE: 05/11/2013

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory. Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203016
Equipment No.:	--
Date of Calibration:	5 November, 2013

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee

Director

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310025

DATE OF ISSUE: 5th November 2013

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203016
Equipment No.:	--
Date of Calibration:	5 November, 2013
Date of next Calibration:	5 February, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	+0.2
4	4.27	+6.8
10	10.3	+3.0
40	42.4	+5.2
100	105	+5.0
400	417	+4.2
1000	970	-3.0
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

Mr. Peter Lee
Director

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: DEREK LO **WORK ORDER:** HK1310059

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 30/01/2014

DATE OF ISSUE: 05/02/2014

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory. Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203016
Equipment No.:	--
Date of Calibration:	05 February, 2014

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee
Director

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310059

DATE OF ISSUE: 05th February, 2014

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203016
Equipment No.:	--
Date of Calibration:	05 February, 2014
Date of next Calibration:	05 May, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	3.72	-7.0
10	10.6	+6.0
40	42.6	+6.5
100	96.5	-3.5
400	430	+7.5
1000	972	-2.8
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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領導檢測有限公司

PILOT TESTING LIMTIED

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: KATHIE HO **WORK ORDER: HK1310026**

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 04/11/2013

DATE OF ISSUE: 05/11/2013

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory. Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203025
Equipment No.:	--
Date of Calibration:	5 November, 2013

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee

Director

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310026

DATE OF ISSUE: 5th November, 2013

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203025
Equipment No.:	--
Date of Calibration:	5 November, 2013
Date of next Calibration:	5 February, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	4.20	+5.0
10	10.4	+4.0
40	42.0	+5.0
100	102	+2.0
400	400	0
1000	980	+2.0
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

Mr. Peter Lee
Director

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: **DEREK LO** **WORK ORDER:** **HK1310060**

CLIENT: **LAM GEOTECHNICS LIMITED**

DATE RECEIVED: **30/01/2014**

DATE OF ISSUE: **05/02/2014**

ADDRESS: **11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG**

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory. Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203025
Equipment No.:	--
Date of Calibration:	05 February, 2014

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee

Director

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310060

DATE OF ISSUE: 05th February, 2014

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203025
Equipment No.:	--
Date of Calibration:	05 February, 2014
Date of next Calibration:	05 May, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	3.82	-4.5
10	10.4	+4.0
40	41.0	+2.5
100	95.0	-5.0
400	420	+5.0
1000	980	-2.0
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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領導檢測有限公司

PILOT TESTING LIMTIED

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: KATHIE HO **WORK ORDER: HK1310039**

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 21/11/2013

DATE OF ISSUE: 28/11/2013

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory. Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203010
Equipment No.:	--
Date of Calibration:	28 November, 2013

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee

Director

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310039

DATE OF ISSUE: 28th November, 2013

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203010
Equipment No.:	--
Date of Calibration:	28 November, 2013
Date of next Calibration:	28 February, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	4.23	+5.8
10	10.2	+2.0
40	38.6	-3.5
100	106	+6.0
400	420	+5.0
1000	983	-1.7
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR DEREK LO	**WORK ORDER:**	HK1401751
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	15/01/2014
		DATE OF ISSUE:	24/01/2014
PROJECT:	--		

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	YSI Professional plus
Serial No.:	11F100597
Equipment No.:	--
Date of Calibration:	20 January, 2014

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1401751
Date of Issue: 24/01/2014
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: YSI Professional plus
Serial No.: 11F100597
Equipment No.: --
Date of Calibration: 20 January, 2014 Date of next Calibration: 20 April, 2014

Parameters:

Dissolved Oxygen **Method Ref: APHA (21st edition), 4500O: G**

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.31	4.34	0.03
7.01	7.02	0.01
9.54	9.40	-0.14
	Tolerance Limit (±mg/L)	0.20

pH Value **Method Ref: APHA (21st edition), 4500H:B**

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.10	0.10
7.0	7.01	0.01
10.0	10.05	0.05
	Tolerance Limit (±pH unit)	0.20

Salinity **Method Ref: APHA (21st edition), 2520B**

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0	--
10	9.44	-5.6
20	19.37	-3.2
30	29.87	-0.4
	Tolerance Limit (±%)	10.0

Temperature **Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
9.0	9.7	0.7
18.5	18.6	0.1
38.5	38.6	0.1
	Tolerance Limit (±°C)	2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS EMILY KONG	**WORK ORDER:**	HK1400734
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	08/01/2014
		DATE OF ISSUE:	14/01/2014
PROJECT:	--		

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	YSI Professional plus
Serial No.:	11F100420
Equipment No.:	--
Date of Calibration:	13 January, 2014

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1400734
Date of Issue: 14/01/2014
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: YSI Professional plus
Serial No.: 11F100420
Equipment No.: --
Date of Calibration: 13 January, 2014 Date of next Calibration: 13 April, 2014

Parameters:

Dissolved Oxygen **Method Ref: APHA (21st edition), 4500O: G**

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.27	3.16	-0.11
6.58	6.73	0.15
9.37	9.34	-0.03
	Tolerance Limit (±mg/L)	0.20

pH Value **Method Ref: APHA (21st edition), 4500H:B**

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.98	-0.02
7.0	6.96	-0.04
10.0	10.08	0.08
	Tolerance Limit (±pH unit)	0.20

Salinity **Method Ref: APHA (21st edition), 2520B**

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	9.85	-1.5
20	18.35	-8.2
30	27.53	-8.2
	Tolerance Limit (±%)	10.0

Temperature **Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.2	0.2
20.0	19.6	-0.4
39.0	39.7	0.7
	Tolerance Limit (±°C)	2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR DEREK LO	**WORK ORDER:**	HK1334576
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	12/12/2013
		DATE OF ISSUE:	17/12/2013
PROJECT:	--		

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	Professional plus
Serial No.:	13A100242
Equipment No.:	--
Date of Calibration:	16 December, 2013

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1334576
Date of Issue: 17/12/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: Professional plus
Serial No.: 13A100242
Equipment No.: --
Date of Calibration: 16 December, 2013 Date of next Calibration: 16 March, 2014

Parameters:

Dissolved Oxygen **Method Ref: APHA (21st edition), 4500O: G**

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.93	2.07	0.14
4.72	4.83	0.11
8.61	8.74	0.13
	Tolerance Limit (±mg/L)	0.20

pH Value **Method Ref: APHA (21st edition), 4500H:B**

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.05	0.05
7.0	6.94	-0.06
10.0	9.92	-0.08
	Tolerance Limit (±pH unit)	0.20

Salinity **Method Ref: APHA (21st edition), 2520B**

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	9.99	-0.1
20	20.35	1.8
30	30.73	2.4
	Tolerance Limit (±%)	10.0

Temperature **Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.7	0.7
18.5	18.2	-0.3
38.0	37.6	-0.4
	Tolerance Limit (±°C)	2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd
ALS Environmental

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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

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

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

DATA TABULATION

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	289	Kelvin	**Pressure, P_a**	1026	mmHg

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

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

By Linear Regression of Y on X

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

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

** Delete as appropriate.

Remarks : _____

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	18-Jan-14
Equipment no.	:	EL449	**Calbration Due Dat**	:	18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	289	Kelvin	**Pressure, P_a**	1026	mmHg

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

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

By Linear Regression of Y on X

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

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

** Delete as appropriate.

Remarks : _____

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	18-Dec-13
Equipment no.	:	EL333	**Calbration Due Dat**	:	18-Feb-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	284	Kelvin	**Pressure, P_a**	1020	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	6.1	6.1	12.2	1.7910	62	63.7194
2	5.0	5.0	10.0	1.6227	52	53.4421
3	4.0	4.0	8.0	1.4529	42	43.1648
4	2.6	2.6	5.2	1.1740	25	25.6933
5	1.6	1.6	3.2	0.9239	12	12.3328

By Linear Regression of Y on X

Slope, m = 59.7145 Intercept, b = -43.5049

Correlation Coefficient* = 0.9996

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

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry	**Checked by**	:	Derek Lo
Date	:	18-Dec-13	**Date**	:	18-Dec-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	20-Feb-14
Equipment no.	:	EL333	**Calbration Due Dat**	:	20-Apr-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	288	Kelvin	**Pressure, P_a**	1020	mmHg

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

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	6.1	6.1	12.2	1.7786	62	63.2754
2	5.0	5.0	10.0	1.6115	52	53.0697
3	4.0	4.0	8.0	1.4428	41	41.8434
4	2.5	2.5	5.0	1.1435	25	25.5143
5	1.6	1.6	3.2	0.9175	13	13.2674

By Linear Regression of Y on X

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

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

** Delete as appropriate.

Remarks : _____

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	289	Kelvin	**Pressure, P_a**	1026	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.0	6.0	12.0	1.7662	60	61.3077
2	5.1	5.1	10.2	1.6294	52	53.1334
3	3.9	3.9	7.8	1.4266	41	41.8936
4	2.5	2.5	5.0	1.1449	26	26.5667
5	1.5	1.5	3.0	0.8899	14	14.3051

By Linear Regression of Y on X

Slope, m	=	53.7145	Intercept, b	=	-34.2208
Correlation Coefficient*	=	0.9994			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	18-Jan-14
Equipment no.	:	EL380	**Calbration Due Dat**	:	18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	289	Kelvin	**Pressure, P_a**	1026	mmHg

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

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

By Linear Regression of Y on X

Slope, m	=	54.6083	Intercept, b	=	-35.6736
Correlation Coefficient*	=	0.9998			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	18-Jan-14
Equipment no.	:	EL448	**Calbration Due Dat**	:	18-Mar-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	289	Kelvin	**Pressure, P_a**	1026	mmHg

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

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.1	6.1	12.2	1.7807	61	62.3295
2	5.0	5.0	10.0	1.6135	52	53.1334
3	4.1	4.1	8.2	1.4623	43	43.9372
4	2.4	2.4	4.8	1.1220	25	25.5449
5	1.5	1.5	3.0	0.8899	14	14.3051

By Linear Regression of Y on X

Slope, m	=	54.2293	Intercept, b	=	-34.6434
Correlation Coefficient*	=	0.9995			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	289	Kelvin	**Pressure, P_a**	1026	mmHg

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

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

By Linear Regression of Y on X

Slope, m	=	50.3357	Intercept, b	=	-29.4556
Correlation Coefficient*	=	0.9997			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	289	Kelvin	**Pressure, P_a**	1026	mmHg

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

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

By Linear Regression of Y on X

Slope, m	=	49.7270	Intercept, b	=	-27.8685
Correlation Coefficient*	=	0.9994			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

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

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

Environmental Monitoring Schedule
February 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		28-Jan	**29-Jan**	**30-Jan**	**31-Jan**	**1-Feb**
		VC 1hr TSP				
			24hr TSP	1hr TSP		
		Noise (Daytime)				
		(M1a, M2b, M3a, M4b)				
			Impact WQM		Impact WQM	
			Mid-flood 16:31		Mid-ebb 12:53	
			Mid-ebb 23:29		Mid-flood 18:21	
2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb
		VC 24hr TSP	VC 1hr TSP			
		24hr TSP	1hr TSP			
		Noise (Daytime)				
		(M1a,M2b,M3a,M4b,M5b,M6)				
		Impact WQM		Impact WQM		Impact WQM
		Mid-flood 9:49		Mid-flood 11:13		Mid-flood 12:42
		Mid-ebb 15:54		Mid-ebb 17:54		Mid-ebb 20:50
9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
	VC 24hr TSP	VC 1hr TSP				
	24hr TSP	1hr TSP				24hr TSP
	Noise (Daytime)			Noise (Daytime)		
	(M1a,M2b)			(M3a,M4b,M5b,M6)		
	Impact WQM		Impact WQM		Impact WQM	Impact WQM
	Mid-flood 10:08		Mid-flood 16:29			
	Mid-ebb 22:27		Mid-ebb 23:36		Mid-flood 17:50	Mid-ebb 0:37
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
	VC 24hr TSP	VC 1hr TSP				
	1hr TSP				24hr TSP	1hr TSP
		Noise (Daytime)		Noise (Daytime)		
		(M1a,M2b,M3a,M4b,M5b)		(M6)		
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 13:46		Mid-flood 8:57		Mid-flood 10:05	
	Mid-flood 19:45		Mid-ebb 15:00		Mid-ebb 16:30	
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb		
	VC 24hr TSP	VC 1hr TSP				
				24hr TSP		
	Noise (Daytime)	Noise (Daytime)				
	(M1a)	(M2b,M3a,M4b,M5b,M6)				
	Impact WQM		Impact WQM			
	Mid-ebb 13:46		Mid-flood 8:57			
	Mid-flood 19:45		Mid-ebb 15:00			

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

Tentative Environmental Monitoring Schedule
March 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					28-Feb 1hr TSP Impact WQM Mid-flood: 8:30 Mid-ebb: 14:38	1-Mar
2-Mar	3-Mar VC 24hr TSP Noise (Daytime) Impact WQM Mid-ebb 13:51 Mid-flood 19:52	4-Mar VC 1hr TSP Noise (Daytime)	5-Mar 24hr TSP Impact WQM Mid-flood 8:56 Mid-ebb 15:13	6-Mar 1hr TSP	7-Mar Impact WQM Mid-flood 10:04 Mid-ebb 16:53	8-Mar
9-Mar	10-Mar VC 24hr TSP Noise (Daytime) Impact WQM Mid-flood 8:19 Mid-ebb 20:51	11-Mar VC 1hr TSP 24hr TSP Noise (Daytime)	12-Mar Anderson Rd 1hr + Nc 1hr TSP Impact WQM Mid-flood 15:20 Mid-ebb 22:29	13-Mar	14-Mar Impact WQM Mid-flood 17:00 Mid-ebb 23:38	15-Mar
16-Mar	17-Mar VC 24hr TSP 24hr TSP Noise (Daytime) Impact WQM mid-ebb 12:47 mid-flood 19:00	18-Mar VC 1hr TSP 1hr TSP	19-Mar Noise (Daytime) Impact WQM Mid-ebb 13:57 Mid-flood 20:22	20-Mar	21-Mar Impact WQM Mid-ebb 15:17 Mid-flood 21:59	22-Mar 24hr TSP
23-Mar	24-Mar VC 24hr TSP 1hr TSP Impact WQM Mid-flood 11:02 Mid-ebb 18:29	25-Mar VC 1hr TSP Noise (Daytime)	26-Mar Noise (Daytime) Impact WQM Mid-flood 14:02 Mid-ebb 21:05	27-Mar		

Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
4/2/2014	14:52	Fine	71.2	74.0	64.5	72	71	75
10/2/2014	15:30	Cloudy	71.3	73.5	66.5	72	71	75
18/2/2014	13:22	Fine	72.0	75.0	66.5	72	72	75
24/2/2014	16:25	Fine	72.2	74.5	68.0	72	72	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
4/2/2014	13:54	Fine	67.1	68.5	65.0	68	67	75
10/2/2014	16:15	Cloudy	70.4	72.5	67.5	68	67	75
18/2/2014	14:06	Fine	69.9	71.0	67.5	68	66	75
25/2/2014	13:15	Fine	69.6	72.0	67.5	68	65	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
4/2/2014	13:03	Fine	64.6	65.5	61.5	69	65	75
13/2/2014	13:48	Cloudy	68.8	71.0	65.5	69	69	75
18/2/2014	14:48	Fine	71.8	74.0	67.5	69	69	75
25/2/2014	14:05	Fine	68.0	70.5	64.5	69	68	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
4/2/2014	11:16	Fine	68.1	70.0	65.0	67	60	75
13/2/2014	14:30	Cloudy	68.3	69.5	66.0	67	61	75
18/2/2014	15:31	Fine	70.1	71.5	67.5	67	67	75
25/2/2014	14:45	Fine	68.4	70.0	66.0	67	62	75

Location: M5b - City Garden

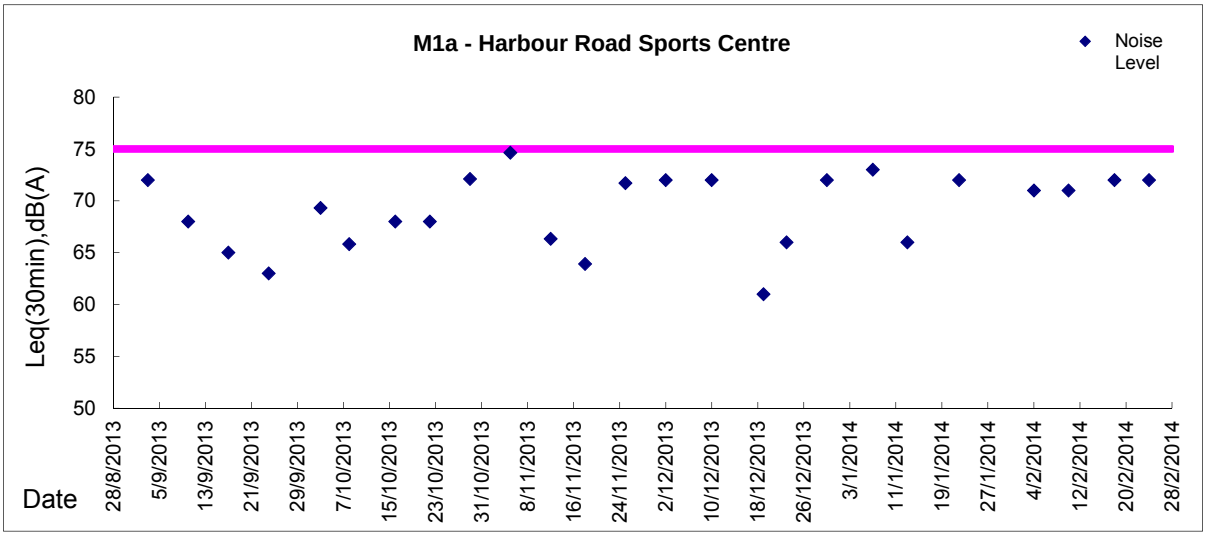
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
4/2/2014	9:28	Fine	67.3	68.5	65.0	68	67	75
13/2/2014	16:35	Cloudy	68.5	69.5	67.0	68	59	75
18/2/2014	16:18	Fine	67.5	68.5	65.5	68	68	75
25/2/2014	15:26	Fine	67.2	68.5	65.5	68	67	75

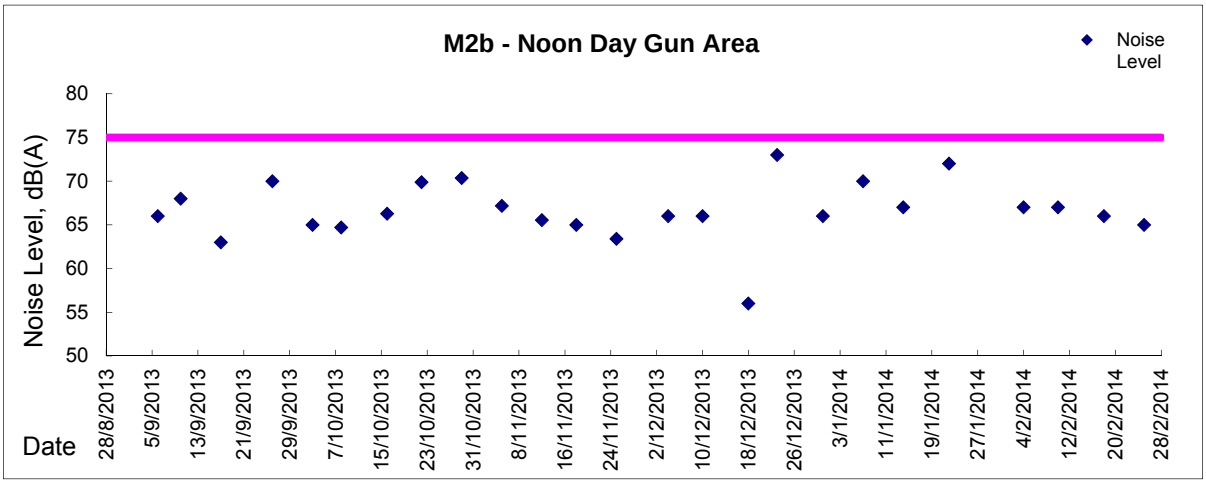
Location: M6 - HK Baptist Church Henrietta Secondary School

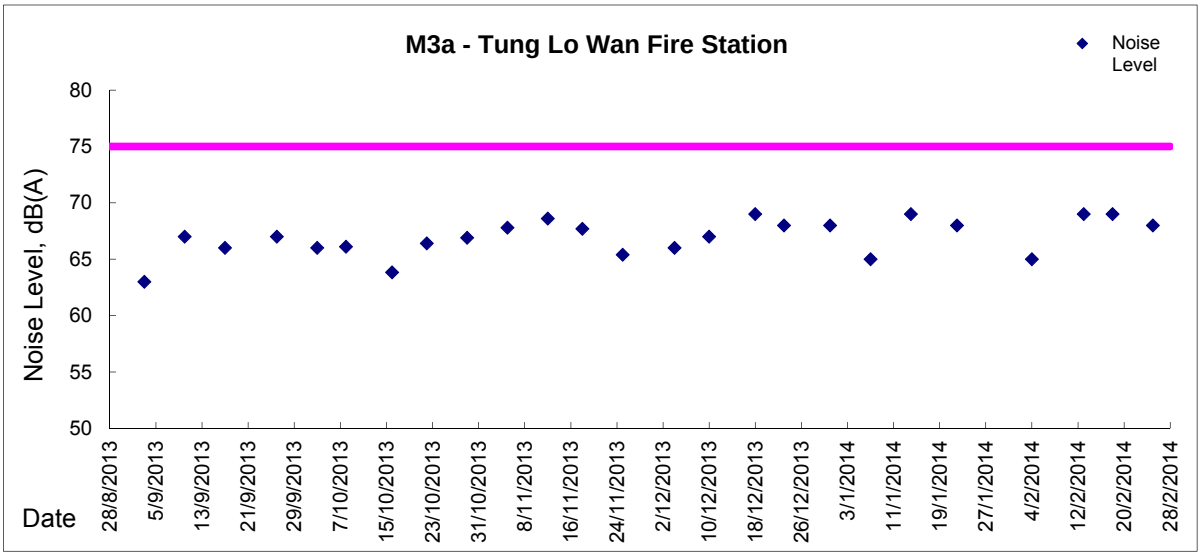
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
4/2/2014	10:24	Fine	72.6	73.5	70.5	71	68	70
13/2/2014	15:22	Cloudy	75.7	76.5	74.0	71	**74**	65
20/2/2014	9:39	Fine	72.3	74.0	70.0	71	**67**	65
25/2/2014	16:05	Fine	73.9	75.0	72.0	71	**71**	70

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

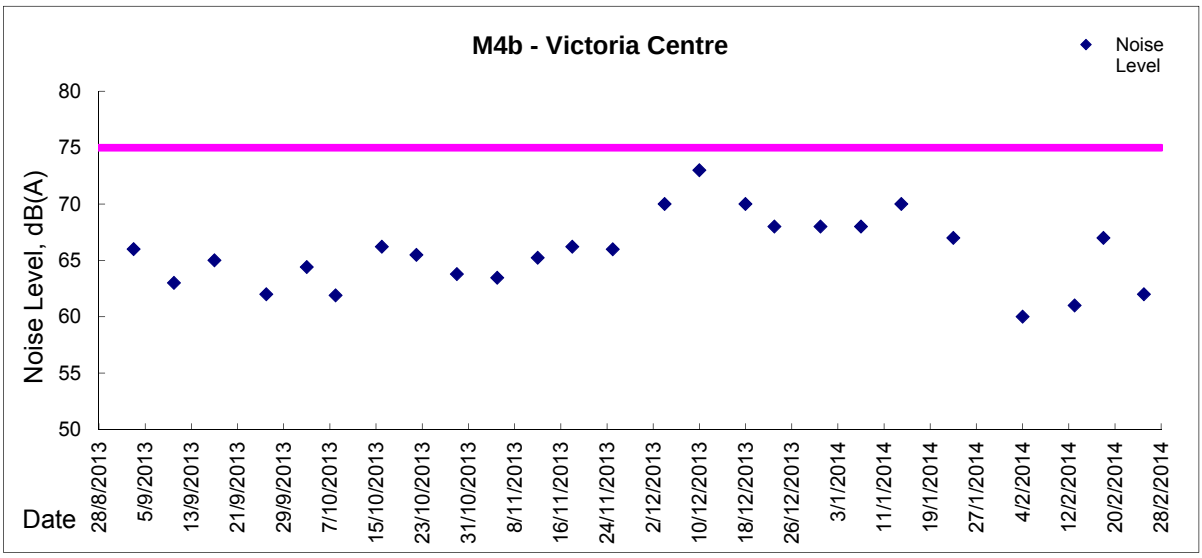


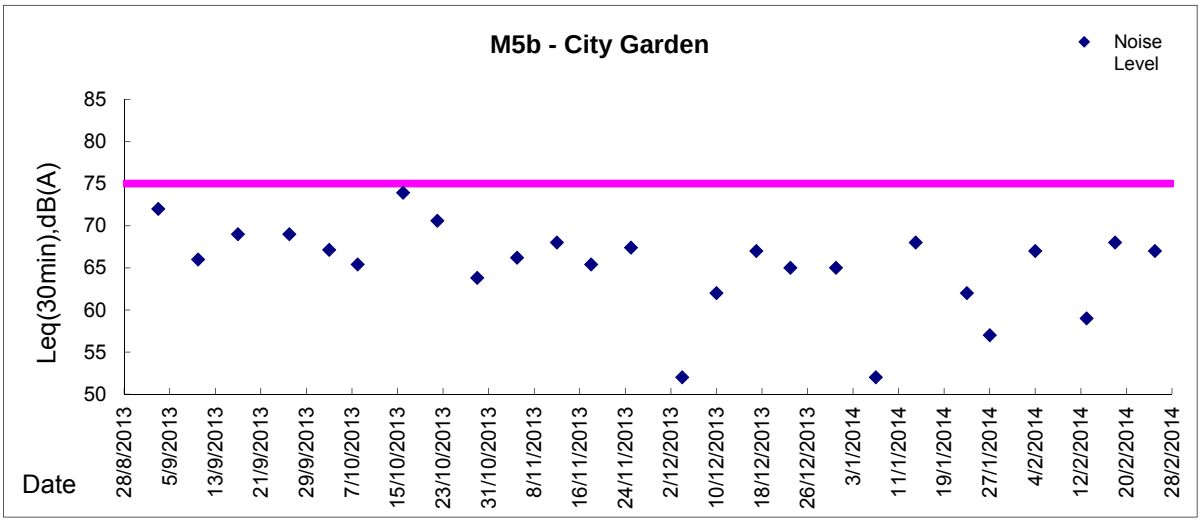


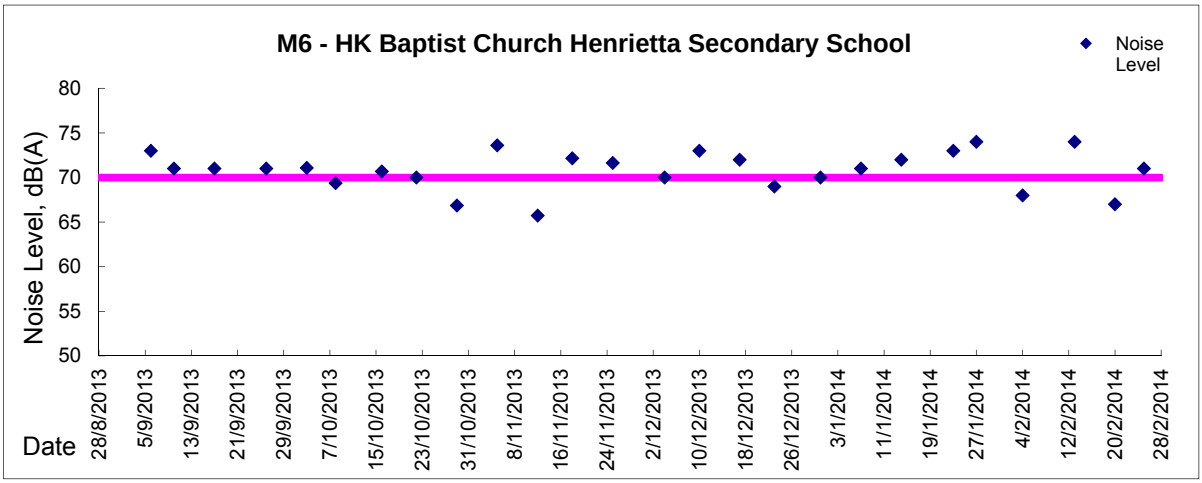


Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)







Appendix 5.3

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

Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring

Action Level (μ g/m3) - 176.7

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

Report on 1-hour TSP monitoring

Action Level (μ g/m3) - 320.1

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

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring
Action Level (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		
29-Jan-14	8:00	Fine	006439	2.7383	2.8858	13794.21	13818.21	24.00	1.35	1.35	1.35	1942	76
4-Feb-14	8:00	Cloudy	006302	2.6234	2.7848	13821.22	13845.22	24.00	1.35	1.35	1.35	1940	83
10-Feb-14	8:00	Cloudy	007819	2.8451	2.9521	13848.22	13872.22	24.00	1.36	1.36	1.36	1961	55
15-Feb-14	8:00	Cloudy	007733	2.6500	2.8573	13875.22	13899.22	24.00	1.36	1.35	1.36	1952	106
21-Feb-14	8:00	Cloudy	007927	2.8546	3.0560	13902.22	13926.22	24.00	1.36	1.35	1.36	1952	103
27-Feb-14	8:00	Cloudy	007987	2.8588	2.9823	13929.22	13953.22	24.00	1.39	1.39	1.39	1997	62

Report on 1-hour TSP monitoring
Action Level (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		
30-Jan-14	8:15	Fine	006346	2.6904	2.6959	13818.21	13819.21	1.00	1.35	1.35	1.35	81	68
30-Jan-14	9:19	Fine	006348	2.6700	2.6780	13819.21	13820.21	1.00	1.35	1.35	1.35	81	99
30-Jan-14	10:24	Fine	006350	2.6770	2.6828	13820.21	13821.21	1.00	1.35	1.35	1.35	81	72
5-Feb-14	8:44	Cloudy	006304	2.6186	2.6259	13845.22	13846.22	1.00	1.35	1.35	1.35	81	90
5-Feb-14	9:48	Cloudy	007759	2.6562	2.6600	13846.22	13847.22	1.00	1.35	1.35	1.35	81	47
5-Feb-14	10:52	Cloudy	007816	2.8417	2.8435	13847.22	13848.22	1.00	1.35	1.35	1.35	81	22
11-Feb-14	8:31	Cloudy	007724	2.6601	2.6689	13872.22	13873.22	1.00	1.36	1.36	1.36	82	108
11-Feb-14	9:34	Cloudy	007727	2.6221	2.6280	13873.22	13874.22	1.00	1.36	1.36	1.36	82	72
11-Feb-14	10:39	Cloudy	007730	2.6090	2.6156	13874.22	13875.22	1.00	1.36	1.36	1.36	82	81
17-Feb-14	8:19	Cloudy	007918	2.8483	2.8581	13899.22	13900.22	1.00	1.35	1.35	1.35	81	121
17-Feb-14	9:23	Cloudy	007736	2.6341	2.6414	13900.22	13901.22	1.00	1.35	1.35	1.35	81	90
17-Feb-14	10:29	Cloudy	007738	2.6169	2.6243	13901.22	13902.22	1.00	1.35	1.35	1.35	81	91
22-Feb-14	8:05	Cloudy	007891	2.8470	2.8570	13926.22	13927.22	1.00	1.35	1.35	1.35	81	123
22-Feb-14	9:12	Cloudy	007983	2.8560	2.8668	13927.22	13928.22	1.00	1.35	1.35	1.35	81	133
22-Feb-14	10:23	Cloudy	007985	2.8569	2.8642	13928.22	13929.22	1.00	1.35	1.35	1.35	81	90
28-Feb-14	10:00	Cloudy	007993	2.8552	2.8600	13953.22	13954.22	1.00	1.35	1.35	1.35	81	59
28-Feb-14	13:00	Cloudy	007995	2.8608	2.8696	13954.22	13955.22	1.00	1.35	1.35	1.35	81	109
28-Feb-14	14:05	Cloudy	007997	2.8714	2.8800	13955.22	13956.22	1.00	1.35	1.35	1.35	81	106

Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring
Action Level (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		
29-Jan-14	8:00	Fine	006442	2.7538	2.9158	1195.87	1219.87	24.00	1.41	1.41	1.41	2035	80
4-Feb-14	8:00	Cloudy	007828	2.8307	2.9718	1222.87	1246.87	24.00	1.41	1.41	1.41	2034	69
10-Feb-14	8:00	Cloudy	007857	2.8492	3.0322	1249.88	1273.88	24.00	1.42	1.42	1.42	2051	89
15-Feb-14	8:00	Cloudy	007765	2.6409	2.7870	1276.88	1300.88	24.00	1.42	1.42	1.42	2044	71
21-Feb-14	8:00	Cloudy	007836	2.8414	3.0450	1303.87	1327.87	24.00	1.41	1.41	1.41	2031	100
27-Feb-14	8:00	Cloudy	007967	2.8577	2.9515	1330.87	1354.87	24.00	1.40	1.40	1.40	2019	46

Report on 1-hour TSP monitoring
Action Level (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		
30-Jan-14	9:25	Fine	007720	2.6698	2.6808	1219.87	1220.87	1.00	1.41	1.41	1.41	85	130
30-Jan-14	10:42	Fine	007917	2.8573	2.8671	1220.87	1221.87	1.00	1.41	1.41	1.41	85	116
30-Jan-14	13:00	Fine	007697	2.6359	2.6514	1221.87	1222.87	1.00	1.41	1.41	1.41	85	183
5-Feb-14	8:31	Cloudy	007856	2.8540	2.8555	1246.87	1247.87	1.00	1.41	1.41	1.41	85	18
5-Feb-14	9:36	Cloudy	007863	2.8364	2.8408	1247.87	1248.87	1.00	1.41	1.41	1.41	85	52
5-Feb-14	10:40	Cloudy	007861	2.8452	2.8469	1248.87	1249.87	1.00	1.41	1.41	1.41	85	20
11-Feb-14	8:20	Cloudy	006315	2.6373	2.6473	1273.88	1274.88	1.00	1.42	1.42	1.42	85	117
11-Feb-14	9:23	Cloudy	006316	2.6079	2.6231	1274.88	1275.88	1.00	1.42	1.42	1.42	85	178
11-Feb-14	10:27	Cloudy	006317	2.6197	2.6349	1275.88	1276.88	1.00	1.42	1.42	1.42	85	178
17-Feb-14	8:11	Cloudy	007833	2.8368	2.8421	1300.88	1301.88	1.00	1.41	1.41	1.41	85	63
17-Feb-14	9:17	Cloudy	007834	2.8661	2.8746	1301.88	1302.88	1.00	1.41	1.41	1.41	85	100
17-Feb-14	10:20	Cloudy	007835	2.8400	2.8484	1302.88	1303.88	1.00	1.41	1.41	1.41	85	99
22-Feb-14	8:21	Cloudy	007971	2.8460	2.8574	1327.87	1328.87	1.00	1.38	1.38	1.38	83	138
22-Feb-14	9:57	Cloudy	007907	2.8469	2.8580	1328.87	1329.87	1.00	1.38	1.38	1.38	83	134
22-Feb-14	10:59	Cloudy	007908	2.8235	2.8358	1329.87	1330.87	1.00	1.38	1.38	1.38	83	149
28-Feb-14	9:35	Cloudy	005481	2.8055	2.8157	1354.87	1355.87	1.00	1.40	1.40	1.40	84	121
28-Feb-14	10:50	Cloudy	005483	2.7985	2.8091	1355.87	1356.87	1.00	1.40	1.40	1.40	84	126
28-Feb-14	13:00	Cloudy	005485	2.7871	2.7967	1356.87	1357.87	1.00	1.40	1.40	1.40	84	114

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring
Action Level (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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Jan-14	8:00	Fine	007691	2.6405	2.7699	17996.96	18020.96	24.00	1.36	1.36	1.36	1961	66
4-Feb-14	8:00	Cloudy	007916	2.8483	2.9904	18024.00	18048.00	24.00	1.36	1.36	1.36	1960	73
10-Feb-14	8:00	Cloudy	007860	2.8489	2.9413	18051.00	18075.00	24.00	1.37	1.37	1.37	1978	47
15-Feb-14	8:00	Cloudy	007783	2.6448	2.7970	18078.00	18102.00	24.00	1.37	1.37	1.37	1970	77
21-Feb-14	8:00	Cloudy	007832	2.8338	3.0051	18105.00	18129.00	24.00	1.33	1.33	1.33	1918	89
27-Feb-14	8:00	Cloudy	007909	2.8300	2.9794	18132.00	18155.99	23.99	1.32	1.32	1.32	1905	78

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

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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Jan-14	9:10	Fine	007719	2.6624	2.6702	18020.96	18021.96	1.00	1.36	1.36	1.36	82	96
30-Jan-14	10:30	Fine	007721	2.7114	2.7197	18021.96	18022.96	1.00	1.36	1.36	1.36	82	102
30-Jan-14	13:00	Fine	007722	2.6411	2.6470	18022.96	18023.96	1.00	1.36	1.36	1.36	82	72
5-Feb-14	8:16	Cloudy	007855	2.8706	2.8720	18048.00	18049.00	1.00	1.36	1.36	1.36	82	17
5-Feb-14	9:24	Cloudy	007864	2.8648	2.8676	18049.00	18050.00	1.00	1.36	1.36	1.36	82	34
5-Feb-14	10:30	Cloudy	007862	2.8495	2.8511	18050.00	18051.00	1.00	1.36	1.36	1.36	82	20
11-Feb-14	8:13	Cloudy	007764	2.6284	2.6366	18075.00	18076.00	1.00	1.37	1.37	1.37	82	99
11-Feb-14	9:17	Cloudy	007771	2.6368	2.6445	18076.00	18077.00	1.00	1.37	1.37	1.37	82	93
11-Feb-14	10:22	Cloudy	007782	2.6316	2.6369	18077.00	18078.00	1.00	1.37	1.37	1.37	82	64
17-Feb-14	8:14	Cloudy	007829	2.8410	2.8463	18102.00	18103.00	1.00	1.36	1.36	1.36	82	65
17-Feb-14	9:18	Cloudy	007830	2.8430	2.8500	18103.00	18104.00	1.00	1.36	1.36	1.36	82	86
17-Feb-14	10:27	Cloudy	007831	2.8412	2.8480	18104.00	18105.00	1.00	1.36	1.36	1.36	82	83
22-Feb-14	8:45	Cloudy	007972	2.8476	2.8561	18129.00	18130.00	1.00	1.33	1.33	1.33	80	106
22-Feb-14	9:50	Cloudy	007970	2.8587	2.8690	18130.00	18131.00	1.00	1.33	1.33	1.33	80	129
22-Feb-14	10:52	Cloudy	007969	2.8645	2.8737	18131.00	18132.00	1.00	1.33	1.33	1.33	80	115
28-Feb-14	9:16	Cloudy	005480	2.8001	2.8110	18155.99	18156.99	1.00	1.32	1.32	1.32	79	137
28-Feb-14	10:30	Cloudy	005487	2.7909	2.7989	18156.99	18157.99	1.00	1.36	1.36	1.36	82	98
28-Feb-14	13:00	Cloudy	005484	2.8047	2.8133	18157.99	18158.99	1.00	1.36	1.36	1.36	82	105

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring
Action Level (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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Jan-14	8:00	Fine	007692	2.6168	2.7341	19000.15	19024.15	24.00	1.33	1.33	1.33	1916	61
4-Feb-14	8:00	Cloudy	007704	2.6328	2.6617	19027.15	19051.15	24.00	1.33	1.33	1.33	1915	15
10-Feb-14	8:00	Cloudy	007923	2.8403	3.0275	19057.17	19081.17	24.00	1.34	1.34	1.34	1932	97
15-Feb-14	8:00	Cloudy	007881	2.8336	3.1150	19081.17	19105.17	24.00	1.34	1.34	1.34	1925	146
21-Feb-14	8:00	Cloudy	007938	2.8416	3.0468	19108.17	19132.17	24.00	1.37	1.37	1.37	1976	104
27-Feb-14	8:00	Cloudy	007952	2.8529	2.9880	19135.17	19159.17	24.00	1.40	1.40	1.40	2015	67

Report on 1-hour TSP monitoring
Action Level (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, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Jan-14	8:40	Fine	007742	2.6222	2.6278	19024.15	19025.15	1.00	1.29	1.29	1.29	78	72
30-Jan-14	9:43	Fine	007702	2.6141	2.6292	19025.15	19026.15	1.00	1.29	1.29	1.29	78	194
30-Jan-14	10:46	Fine	007703	2.6255	2.6420	19026.15	19027.15	1.00	1.29	1.29	1.29	78	212
5-Feb-14	9:30	Cloudy	007872	2.8424	2.8447	19051.15	19052.15	1.00	1.33	1.33	1.33	80	29
5-Feb-14	10:40	Cloudy	007865	2.8551	2.8572	19052.15	19053.15	1.00	1.33	1.33	1.33	80	26
5-Feb-14	13:00	Cloudy	007868	2.8394	2.8423	19053.15	19054.15	1.00	1.33	1.33	1.33	80	36
11-Feb-14	8:25	Cloudy	007699	2.6311	2.6458	19054.17	19055.17	1.00	1.34	1.34	1.34	81	183
11-Feb-14	9:30	Cloudy	007849	2.8608	2.8691	19055.17	19056.17	1.00	1.34	1.34	1.34	81	103
11-Feb-14	10:35	Cloudy	007922	2.8569	2.8643	19056.17	19057.17	1.00	1.34	1.34	1.34	81	92
17-Feb-14	8:06	Cloudy	007929	2.8509	2.8646	19105.17	19106.17	1.00	1.33	1.33	1.33	80	172
17-Feb-14	9:11	Cloudy	007932	2.8477	2.8600	19106.17	19107.17	1.00	1.33	1.33	1.33	80	154
17-Feb-14	10:26	Cloudy	007935	2.8515	2.8620	19107.17	19108.17	1.00	1.33	1.33	1.33	80	132
22-Feb-14	9:28	Cloudy	007943	2.8389	2.8487	19132.17	19133.17	1.00	1.41	1.41	1.41	84	116
22-Feb-14	10:34	Cloudy	007946	2.8255	2.8326	19133.17	19134.17	1.00	1.41	1.41	1.41	84	84
22-Feb-14	13:05	Cloudy	007949	2.8446	2.8542	19134.17	19135.17	1.00	1.41	1.41	1.41	84	114
28-Feb-14	8:31	Cloudy	007977	2.8524	2.8608	19159.17	19160.17	1.00	1.36	1.36	1.36	82	103
28-Feb-14	9:53	Cloudy	008088	2.8388	2.8441	19160.17	19161.17	1.00	1.36	1.36	1.36	82	65
28-Feb-14	13:00	Cloudy	008089	2.8390	2.8566	19161.17	19162.17	1.00	1.36	1.36	1.36	82	215

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level - 187.3 µg/m3

Limit Level - 260 µg/m3

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		
29-Jan-14	8:00	Fine	007822	2.8448	3.0291	17306.51	17330.51	24.00	1.36	1.36	1.36	1954	94
4-Feb-14	8:00	Cloudy	006299	2.6276	2.7944	17333.51	17357.51	24.00	1.36	1.36	1.36	1952	85
10-Feb-14	8:00	Cloudy	007701	2.6144	2.7454	17368.52	17392.52	24.00	1.37	1.37	1.37	1970	66
15-Feb-14	8:00	Cloudy	007919	2.8406	3.1252	17410.52	17434.52	24.00	1.36	1.36	1.36	1963	145
21-Feb-14	8:00	Cloudy	007936	2.8473	3.1122	17437.52	17461.52	24.00	1.38	1.38	1.38	1989	133
27-Feb-14	8:00	Cloudy	007950	2.8531	2.9643	17464.52	17488.52	24.00	1.32	1.32	1.32	1899	59

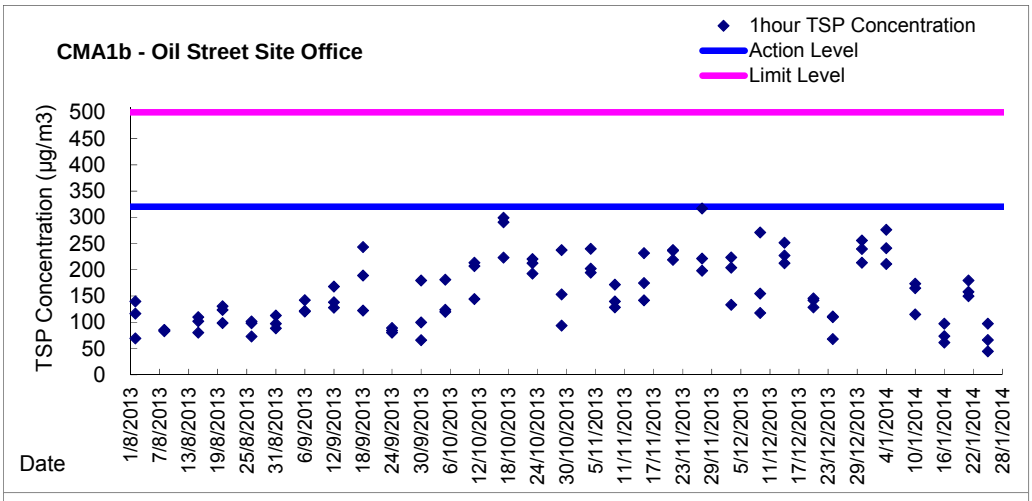
Report on 1-hour TSP monitoring

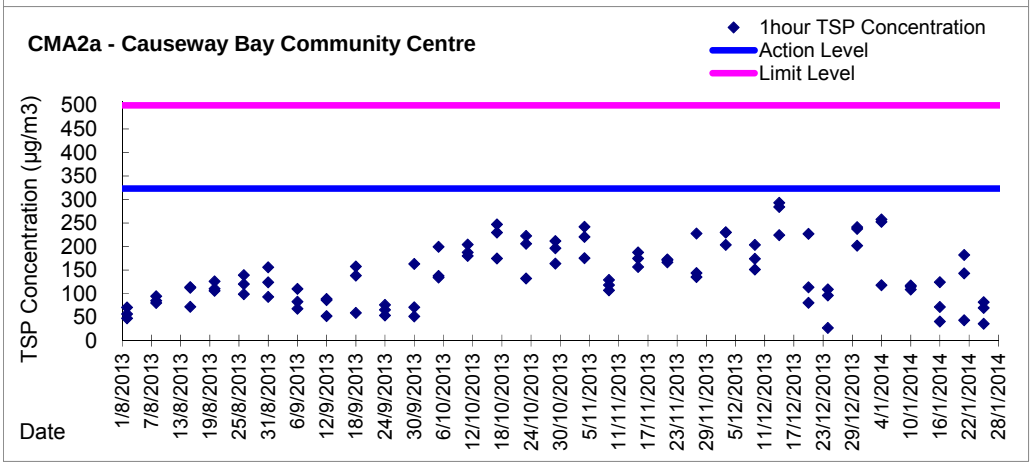
Action Level - 300.1 μ g/m^3

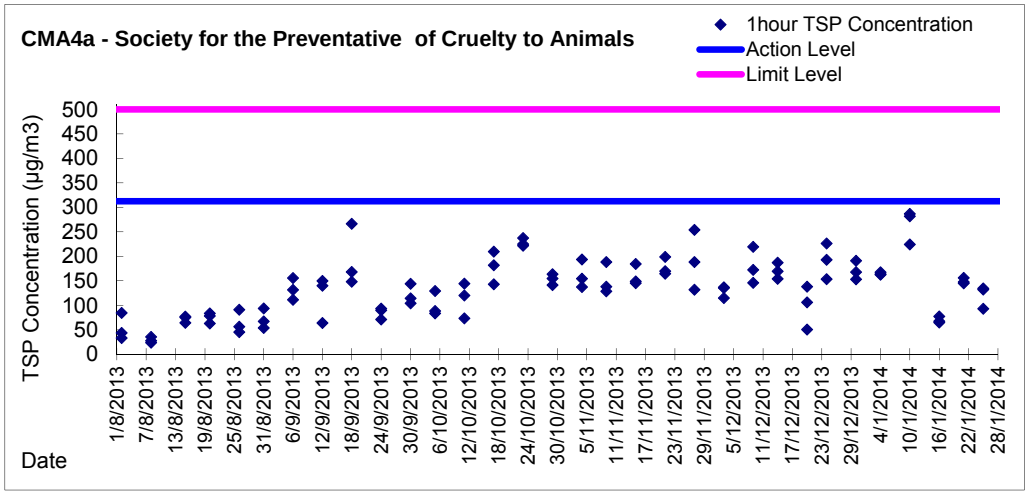
Limit Level - 500 μ g/m3

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-Jan-14	8:50	Fine	007740	2.6147	2.6226	17330.51	17331.51	1.00	1.36	1.36	1.36	81	97
30-Jan-14	9:55	Fine	007708	2.6619	2.6799	17331.51	17332.51	1.00	1.36	1.36	1.36	81	221
30-Jan-14	10:58	Fine	007709	2.6572	2.6760	17332.51	17333.51	1.00	1.36	1.36	1.36	81	231
5-Feb-14	9:25	Cloudy	007871	2.8412	2.8446	17357.51	17358.51	1.00	1.36	1.36	1.36	81	42
5-Feb-14	11:00	Cloudy	007867	2.8414	2.8440	17358.51	17359.51	1.00	1.36	1.36	1.36	81	32
5-Feb-14	13:00	Cloudy	007870	2.8399	2.8415	17359.51	17360.51	1.00	1.36	1.36	1.36	81	20
11-Feb-14	8:20	Cloudy	007846	2.8459	2.8506	17392.52	17393.52	1.00	1.37	1.37	1.37	82	57
11-Feb-14	9:25	Cloudy	007848	2.8531	2.8564	17393.52	17394.52	1.00	1.37	1.37	1.37	82	40
11-Feb-14	10:30	Cloudy	007920	2.8479	2.8532	17394.52	17395.52	1.00	1.37	1.37	1.37	82	65
17-Feb-14	8:15	Cloudy	007858	2.8460	2.8559	17434.52	17435.52	1.00	1.36	1.36	1.36	81	122
17-Feb-14	9:22	Cloudy	007930	2.8606	2.8730	17435.52	17436.52	1.00	1.36	1.36	1.36	81	152
17-Feb-14	10:36	Cloudy	007933	2.8413	2.8530	17436.52	17437.52	1.00	1.36	1.36	1.36	81	144
22-Feb-14	9:08	Cloudy	007941	2.8411	2.8535	17461.52	17462.52	1.00	1.36	1.36	1.36	82	152
22-Feb-14	10:14	Cloudy	007944	2.8466	2.8572	17462.52	17463.52	1.00	1.36	1.36	1.36	82	130
22-Feb-14	13:01	Cloudy	007947	2.8474	2.8582	17463.52	17464.52	1.00	1.36	1.36	1.36	82	132
28-Feb-14	8:52	Cloudy	008048	2.8194	2.8266	17488.52	17489.52	1.00	1.34	1.34	1.34	80	90
28-Feb-14	10:13	Cloudy	008092	2.8337	2.8410	17489.52	17490.52	1.00	1.34	1.34	1.34	80	91
28-Feb-14	13:00	Cloudy	008093	2.8355	2.8414	17490.52	17491.52	1.00	1.34	1.34	1.34	80	74

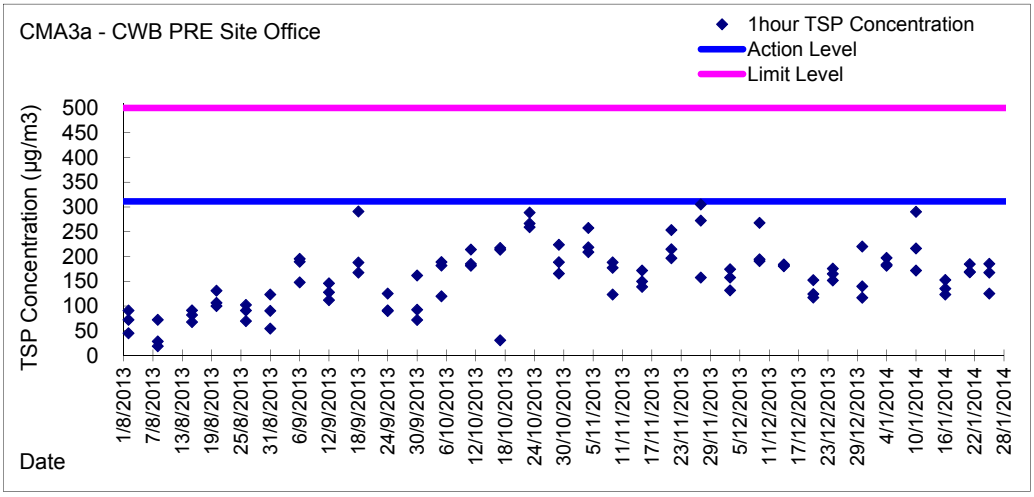
Graphic Presentation of 1 hour TSP Result

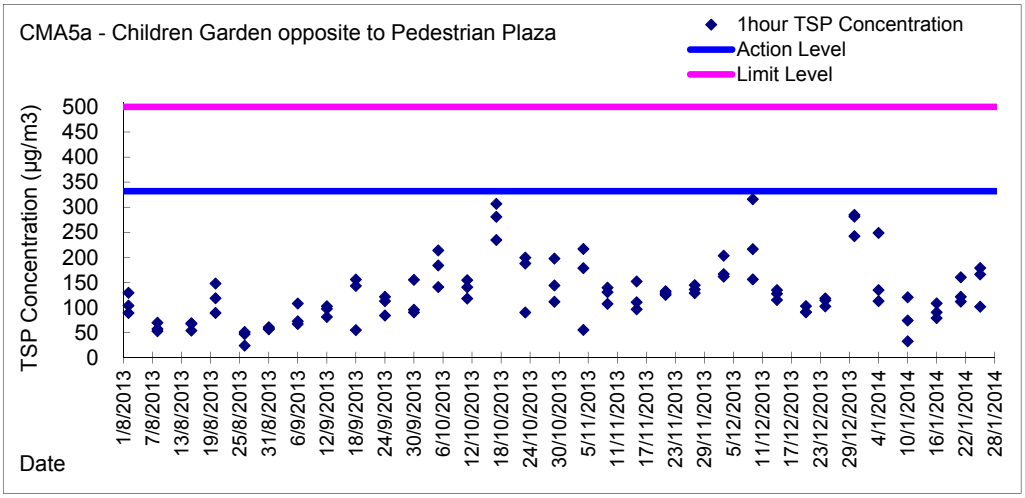


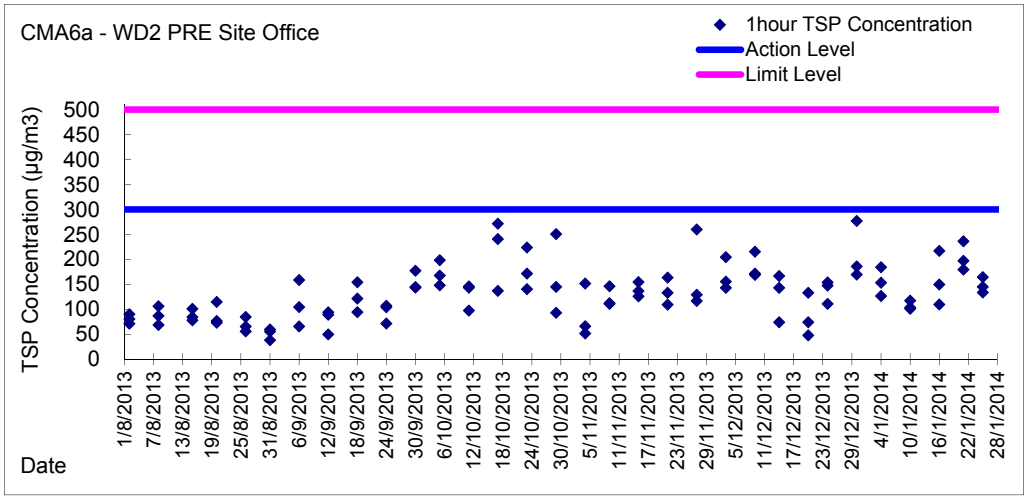




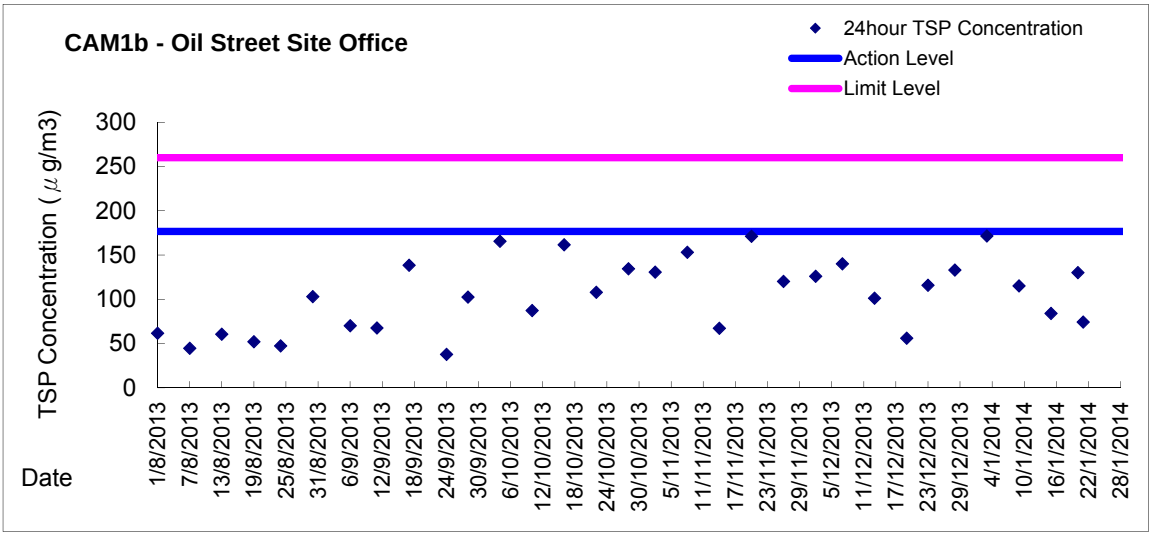
Graphic Presentation of 1 hour TSP Result

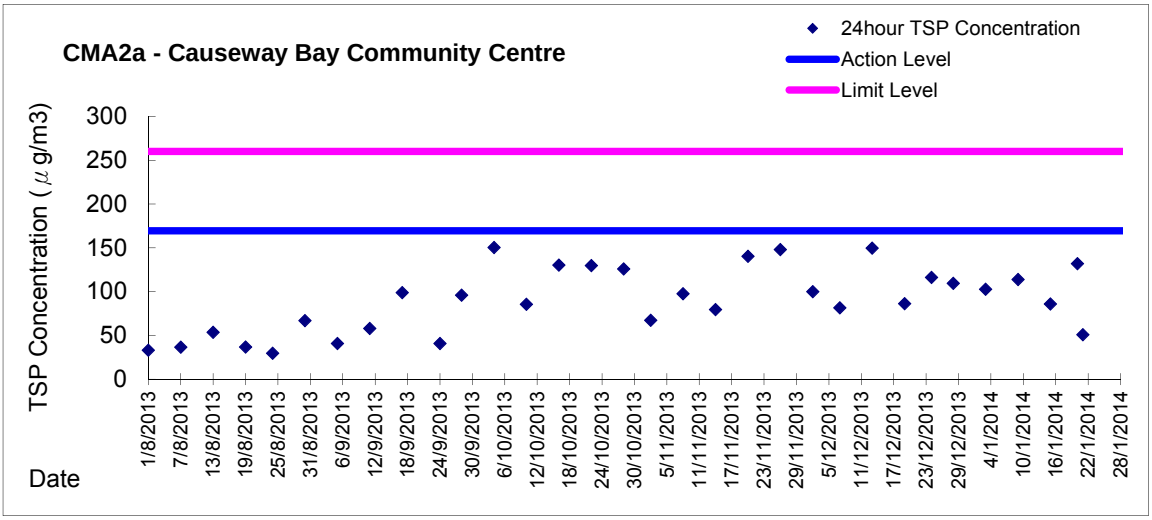


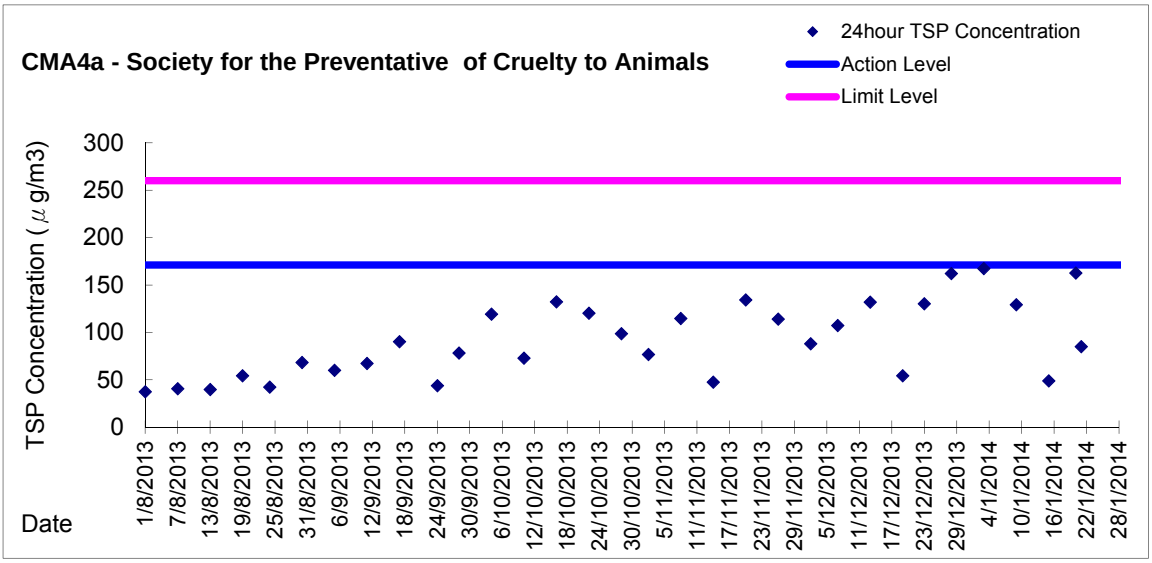




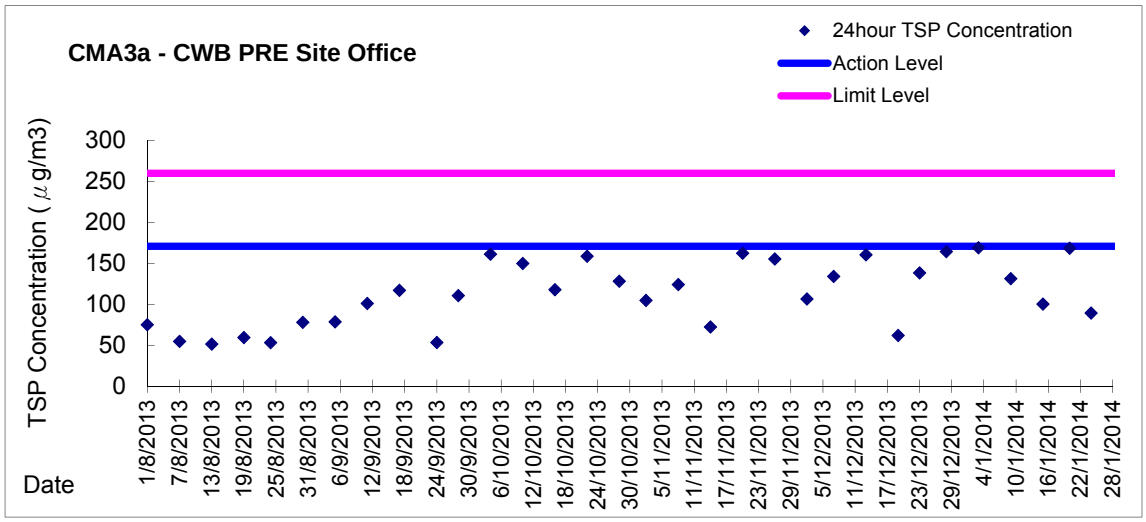
Graphic Presentation of 24 hour TSP Result

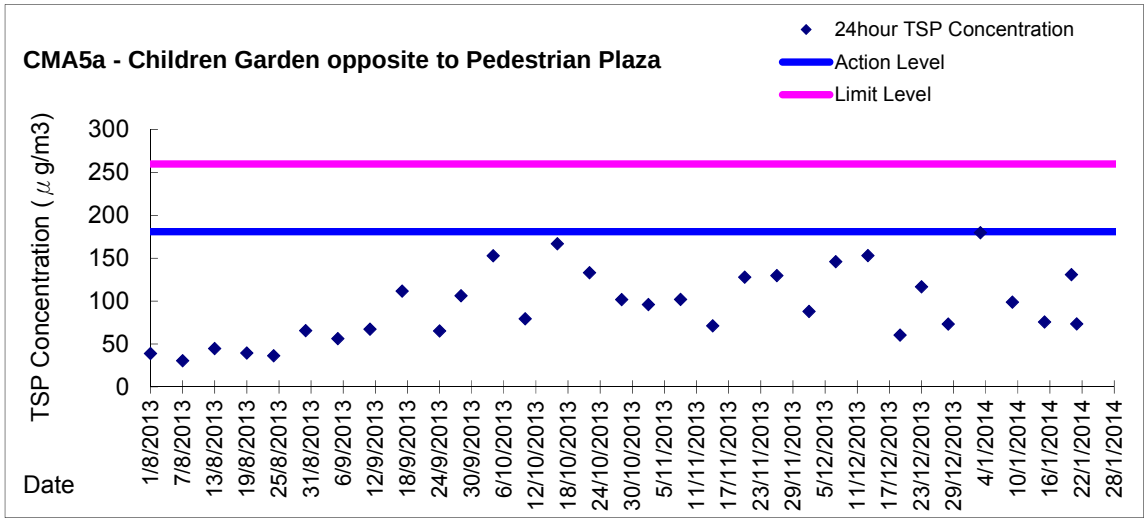


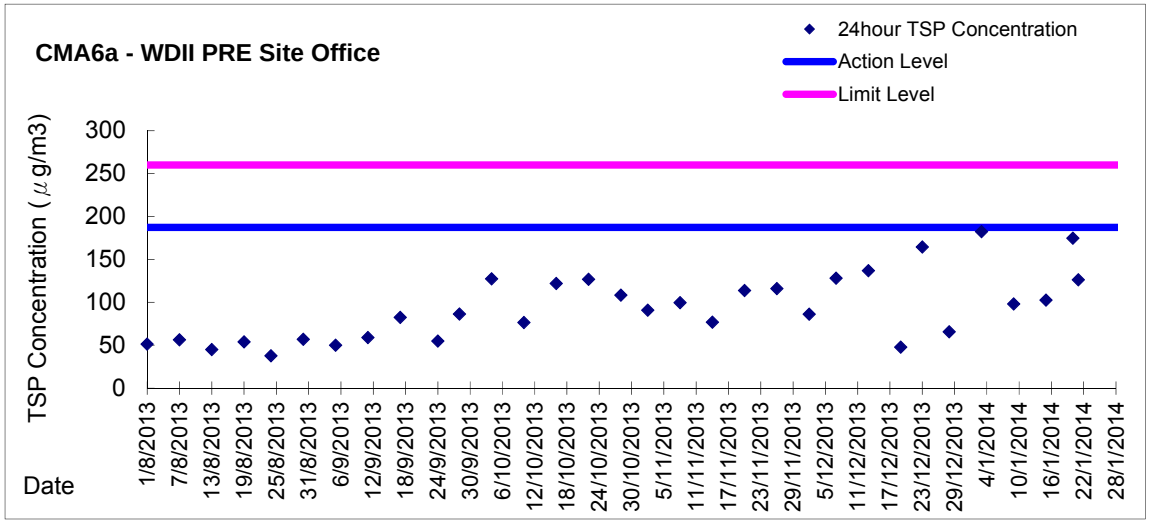




Graphic Presentation of 24 hour TSP Result







Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

Water Monitoring Result at WSD9 - Tai Wan
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	13:25	Fine	Middle	3.0	17.30	17.30	17.30	8.90	8.90	8.90	35.57	35.57	35.57	91.6	91.6	91.3	7.09	7.09	7.06	4.60	4.76	4.75	5	4.50
	13:27		Middle	3.0	17.30	17.30		8.90	8.90		35.57	35.57		91.1	90.7		7.05	7.02		4.79	4.83		4	
4/2/2014	9:08	Fine	Middle	2.5	18.20	18.20	18.20	8.58	8.58	8.58	34.75	34.75	34.78	89.2	90.2	89.7	6.84	6.91	6.87	2.59	2.59	2.39	5	5.50
	9:10		Middle	2.5	18.20	18.20		8.58	8.58		34.80	34.80		90.0	89.2		6.89	6.83		2.23	2.15		6	
6/2/2014	9:29	Fine	Middle	3.0	18.10	18.10	18.10	8.56	8.56	8.57	35.58	35.58	35.58	88.6	88.5	88.0	6.76	6.76	6.72	3.19	3.21	3.25	4	3.50
	9:31		Middle	3.0	18.10	18.10		8.58	8.58		35.58	35.58		87.4	87.5		6.67	6.68		3.29	3.29		3	
8/2/2014	10:40	Fine	Middle	3.5	18.00	18.00	18.00	8.87	8.87	8.86	35.79	35.79	35.78	81.6	80.7	81.1	6.23	6.16	6.19	1.16	1.16	1.16	4	3.50
	10:42		Middle	3.5	18.00	18.00		8.84	8.84		35.77	35.77		81.1	80.8		6.20	6.17		1.16	1.16		3	
10/2/2014	8:52	Fine	Middle	3.0	15.40	15.40	15.30	8.18	8.18	8.19	35.54	35.54	35.56	80.3	81.2	80.6	6.47	6.54	6.50	1.73	1.61	1.61	4	4.50
	8:54		Middle	3.0	15.20	15.20		8.20	8.20		35.58	35.58		80.8	80.2		6.51	6.46		1.57	1.53		5	
12/2/2014	18:21	Cloudy	Middle	3.0	14.60	14.60	14.60	8.25	8.25	8.25	35.65	35.65	35.65	83.3	83.6	83.7	6.88	6.89	6.91	1.74	1.79	1.77	4	3.50
	18:24		Middle	3.0	14.60	14.60		8.25	8.25		35.65	35.65		83.8	83.9		6.92	6.93		1.79	1.77		3	
14/2/2014	14:50	Fine	Middle	2.5	15.80	15.80	15.80	8.63	8.63	8.63	35.94	35.94	35.95	86.5	86.6	86.4	6.89	6.89	6.88	2.32	2.30	2.29	4	3.50
	14:52		Middle	2.5	15.80	15.80		8.63.	8.63		35.95	35.95		86.3	86.2		6.87	6.85		2.28	2.26		3	
17/2/2014	18:45	Cloudy	Middle	2.0	18.80	18.80	18.80	8.30	8.30	8.30	32.76	32.76	32.76	87.3	87.3	87.2	6.68	6.69	6.68	3.29	3.55	3.36	2	2.00
	18:46		Middle	2.0	18.80	18.80		8.30	8.30		32.76	32.76		87.2	86.9		6.67	6.66		3.40	3.21		2	
19/2/2014	7:45	Cloudy	Middle	3.0	14.20	14.20	14.20	7.13	7.13	7.13	35.76	35.76	35.76	78.9	79.3	79.5	6.54	6.63	6.62	3.61	3.58	3.58	3	3.50
	7:47		Middle	3.0	14.20	14.20		7.13	7.13		35.76	35.76		79.7	80.2		6.64	6.67		3.57	3.57		4	
21/2/2014	9:15	Fine	Middle	3.5	14.90	14.90	14.90	8.34	8.34	8.34	36.13	36.13	36.14	84.7	84.8	85.0	6.87	6.88	6.89	3.31	3.30	3.32	3	3.50
	9:17		Middle	3.5	14.90	14.90		8.34	8.34		36.14	36.14		85.3	85.2		6.91	6.90		3.32	3.34		4	
24/2/2014	9:30	Fine	Middle	3.0	16.60	16.60	16.65	8.46	8.46	8.48	36.32	36.32	36.32	89.8	90.1	90.0	7.02	7.05	7.04	1.73	1.76	1.77	4	4.50
	9:32		Middle	3.0	16.70	16.70		8.50	8.50		36.31	36.31		90.2	90.0		7.05	7.04		1.78	1.79		5	
26/2/2014	12:45	Fine	Middle	2.5	18.10	18.10	18.10	8.45	8.45	8.45	36.53	36.53	36.53	75.1	75.6	74.9	5.66	5.70	5.66	1.96	1.97	1.96	2	2.50
	12:47		Middle	2.5	18.10	18.10		8.45	8.45		36.53	36.53		74.9	74.1		5.65	5.61		1.96	1.96		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at WSD17 - Quarry Bay
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	17:00	Fine	Middle	3.5	18.40	18.40	18.50	8.46	8.46	8.48	35.52	35.52	35.52	93.9	94.7	94.6	7.13	7.19	7.18	2.63	2.29	2.45	5	4.50
	17:02		Middle	3.5	18.60	18.60		8.49	8.49		35.52	35.52		95.0	94.7		7.20	7.18		2.47	2.39		4	
4/2/2014	9:59	Fine	Middle	3.0	18.20	18.20	18.20	8.56	8.56	8.58	35.47	35.47	35.48	90.0	90.3	90.6	6.86	6.88	6.90	3.77	3.78	3.74	6	7.00
	10:01		Middle	3.0	18.20	18.20		8.59	8.59		35.48	35.48		90.9	91.0		6.93	6.93		3.73	3.67		8	
6/2/2014	10:57	Fine	Middle	3.5	18.40	18.40	18.40	8.62	8.62	8.63	35.89	35.89	35.89	90.0	89.6	89.5	6.82	6.78	6.78	3.72	3.72	3.70	5	4.00
	10:59		Middle	3.5	18.40	18.40		8.63	8.63		35.88	35.88		89.4	88.8		6.78	6.73		3.68	3.67		3	
8/2/2014	12:05	Fine	Middle	3.5	17.90	17.90	17.90	8.68	8.68	8.68	35.74	35.74	35.74	87.4	86.0	86.1	6.68	6.58	6.59	1.91	2.00	2.00	4	4.00
	12:07		Middle	3.5	17.90	17.90		8.68	8.68		35.74	35.74		84.9	86.1		6.50	6.59		2.04	2.04		4	
10/2/2014	10:29	Fine	Middle	3.0	16.10	16.10	16.05	8.59	8.59	8.61	35.84	35.84	35.87	85.0	84.3	84.9	6.75	6.69	6.74	2.32	2.37	2.37	2	2.00
	10:31		Middle	3.0	16.00	16.00		8.62	8.62		35.89	35.89		85.0	85.1		6.75	6.76		2.40	2.40		2	
12/2/2014	15:15	Cloudy	Middle	3.0	15.30	15.30	15.30	8.58	8.58	8.59	35.83	35.83	35.83	79.6	79.9	79.8	6.41	6.43	6.42	1.61	1.60	1.60	2	2.00
	15:17		Middle	3.0	15.30	15.30		8.59	8.59		35.83	35.83		79.9	79.6		6.44	6.41		1.60	1.58		2	
14/2/2014	15:48	Fine	Middle	3.0	15.80	15.80	15.80	8.63	8.63	8.63	35.85	35.85	35.85	83.1	82.7	82.7	6.62	6.59	6.59	2.21	2.20	2.22	6	6.00
	15:50		Middle	3.0	15.80	15.80		8.63	8.63		35.85	35.85		82.5	82.4		6.58	6.57		2.22	2.23		6	
17/2/2014	20:30	Cloudy	Middle	3.5	18.70	18.70	18.70	8.28	8.28	8.28	32.91	32.91	32.92	89.7	88.5	88.2	6.88	6.78	6.76	4.13	4.22	4.16	5	5.00
	20:31		Middle	3.5	18.70	18.70		8.28	8.28		32.92	32.92		87.2	87.4		6.68	6.69		4.18	4.11		5	
19/2/2014	9:40	Cloudy	Middle	3.0	14.50	14.50	14.50	8.37	8.37	8.37	36.06	36.06	36.06	83.7	83.6	83.5	6.85	6.85	6.84	3.11	3.11	3.12	5	4.00
	9:42		Middle	3.0	14.50	14.50		8.37	8.37		36.06	36.06		83.9	82.7		6.87	6.77		3.12	3.12		3	
21/2/2014	10:35	Fine	Middle	3.0	15.40	15.40	15.35	8.56	8.56	8.57	36.19	36.19	36.19	89.0	88.9	88.8	7.14	7.13	7.13	3.11	3.12	3.13	3	3.00
	10:37		Middle	3.0	15.30	15.30		8.58	8.58		36.18	36.18		88.8	88.5		7.13	7.10		3.13	3.16		3	
24/2/2014	10:25	Fine	Middle	3.0	16.60	16.60	16.65	8.60	8.60	8.61	36.41	36.41	36.42	79.0	79.5	79.5	6.19	6.22	6.22	1.01	1.00	1.02	3	3.00
	10:27		Middle	3.0	16.70	16.70		8.61	8.61		36.42	36.42		79.7	79.9		6.22	6.24		1.00	1.08		3	
26/2/2014	15:50	Fine	Middle	3.0	17.80	17.80	17.80	8.47	8.47	8.47	36.28	36.28	36.29	90.3	91.1	91.0	6.89	6.94	6.93	2.52	2.57	2.56	4	4.00
	15:52		Middle	3.0	17.80	17.80		8.47	8.47		36.29	36.29		91.2	91.2		6.94	6.95		2.58	2.58		4	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at C7 - Windsor House
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	15:17	Fine	Middle	1.5	18.50	18.50	18.50	8.44	8.44	8.44	34.59	34.59	34.59	71.7	72.0	71.9	5.45	5.48	5.48	1.52	1.54	1.55	2	2.00
	15:19		Middle	1.5	18.50	18.50		8.44	8.44		34.59	34.59		72.0	71.9		5.48	5.49		1.57	1.58		2	
4/2/2014	11:36	Fine	Middle	1.5	18.10	18.10	18.10	8.51	8.51	8.51	34.14	34.14	34.14	68.9	69.0	69.1	5.30	5.31	5.32	3.11	3.11	3.12	2	2.50
	11:38		Middle	1.5	18.10	18.10		8.50	8.50		34.14	34.14		68.8	69.6		5.29	5.36		3.12	3.12		3	
6/2/2014	12:43	Fine	Middle	1.5	19.10	19.10	19.15	8.51	8.51	8.51	34.91	34.91	34.90	67.7	67.5	67.1	5.09	5.07	5.04	2.03	2.02	2.01	7	7.00
	12:45		Middle	1.5	19.20	19.20		8.51	8.51		34.89	34.89		66.9	66.1		5.02	4.97		2.00	1.98		7	
8/2/2014	13:56	Fine	Middle	1.5	18.20	18.20	18.20	8.42	8.42	8.42	34.19	34.19	34.19	56.8	57.0	57.1	4.37	4.38	4.39	0.81	0.81	0.80	4	4.00
	13:58		Middle	1.5	18.20	18.20		8.42	8.42		34.19	34.19		57.2	57.2		4.39	4.40		0.80	0.79		4	
10/2/2014	12:32	Fine	Middle	1.5	15.90	15.90	15.85	8.52	8.52	8.52	34.41	34.41	34.42	60.9	60.6	60.7	4.89	4.87	4.87	1.48	1.49	1.49	3	3.00
	12:34		Middle	1.5	15.80	15.80		8.51	8.51		34.43	34.43		60.6	60.6		4.87	4.86		1.50	1.50		3	
12/2/2014	14:45	Cloudy	Middle	1.5	15.40	15.40	15.35	8.51	8.51	8.51	34.72	34.72	34.72	59.9	60.7	60.7	4.85	4.91	4.91	3.72	3.73	3.75	5	5.50
	14:47		Middle	1.5	15.30	15.30		8.50	8.50		34.72	34.72		61.0	61.0		4.94	4.94		3.75	3.78		6	
14/2/2014	17:48	Fine	Middle	1.5	16.00	16.00	16.00	8.54	8.54	8.54	34.82	34.82	34.82	63.5	63.7	63.7	5.08	5.09	5.09	1.81	1.82	1.83	4	4.00
	17:50		Middle	1.5	16.00	16.00		8.53	8.53		34.82	34.82		63.7	63.8		5.09	5.09		1.83	1.85		4	
17/2/2014	19:52	Cloudy	Middle	1.5	18.80	18.80	18.80	8.07	8.07	8.07	31.77	31.77	31.79	65.9	66.3	65.6	5.07	5.09	5.04	1.04	1.06	1.09	3	2.50
	19:53		Middle	1.5	18.80	18.80		8.07	8.07		31.80	31.80		65.4	64.6		5.03	4.96		1.17	1.08		2	
19/2/2014	11:22	Cloudy	Middle	1.5	14.50	14.50	14.60	8.37	8.37	8.37	35.00	35.00	35.00	58.2	58.6	58.7	4.76	4.80	4.80	3.21	3.21	3.23	3	3.00
	11:24		Middle	1.5	14.70	14.70		8.36	8.36		35.00	35.00		58.8	59.0		4.82	4.83		3.23	3.27		3	
21/2/2014	12:02	Fine	Middle	1.5	16.30	16.30	16.35	8.41	8.41	8.41	35.21	35.21	35.21	58.7	58.7	58.8	4.65	4.64	4.65	1.00	1.00	1.00	3	2.50
	12:04		Middle	1.5	16.40	16.40		8.40	8.40		35.21	35.21		58.8	58.9		4.65	4.66		1.00	1.00		2	
24/2/2014	14:17	Fine	Middle	1.5	17.40	17.40	17.45	8.50	8.50	8.50	35.55	35.55	35.55	73.6	73.5	73.7	5.69	5.68	5.66	1.51	1.51	1.52	3	2.50
	14:19		Middle	1.5	17.50	17.50		8.49	8.49		35.55	35.55		75.0	72.6		5.64	5.61		1.52	1.54		2	
26/2/2014	15:25	Fine	Middle	1.5	18.30	18.30	18.35	8.44	8.44	8.44	35.31	35.31	35.31	68.1	68.4	68.5	5.19	6.21	5.46	2.73	2.72	2.72	2	2.50
	15:27		Middle	1.5	18.40	18.40		8.44	8.44		35.31	35.31		68.6	68.7		5.22	5.22		2.72	2.72		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at C1 - HKCEC Extension
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	15:54	Fine	Middle	2.5	17.10	17.10	17.10	8.35	8.35	8.35	32.29	32.29	32.29	87.1	87.2	87.3	6.89	6.90	6.90	4.66	4.65	4.64	3	2.50
	15:56		Middle	2.5	17.10	17.10		8.35	8.36		32.29	32.29		87.5	87.2		6.92	6.90		4.64	4.62		2	
4/2/2014	10:40	Fine	Middle	2.5	17.90	17.90	17.90	8.37	8.37	8.37	32.50	32.50	32.50	94.7	94.4	94.3	7.39	7.37	7.37	3.72	3.68	3.67	5	4.50
	10:42		Middle	2.5	17.90	17.90		8.37	8.37		32.50	32.50		94.2	93.8		7.36	7.34		3.65	3.62		4	
6/2/2014	10:32	Fine	Middle	2.5	18.30	18.30	18.30	8.45	8.45	8.45	33.13	33.14	33.14	97.6	95.2	94.7	7.53	7.35	7.30	3.44	3.44	3.45	5	4.50
	10:34		Middle	2.5	18.30	18.30		8.45	8.45		33.13	33.14		92.0	93.9		7.09	7.24		3.45	3.45		4	
8/2/2014	13:08	Fine	Middle	3.0	18.10	18.10	18.05	8.32	8.32	8.32	33.34	33.34	33.34	83.8	83.6	83.4	6.49	6.48	6.47	2.80	2.79	2.77	3	3.00
	13:10		Middle	3.0	18.00	18.00		8.32	8.32		33.33	33.33		83.2	82.9		6.46	6.44		2.74	2.76		3	
10/2/2014	9:45	Fine	Middle	2.5	17.00	17.00	17.00	8.37	8.37	8.39	33.51	33.51	33.52	83.0	82.9	83.3	6.58	6.57	6.61	4.02	4.00	4.01	3	3.00
	9:47		Middle	2.5	17.00	17.00		8.41	8.41		33.53	33.53		83.6	83.8		6.64	6.66		4.01	4.00		3	
12/2/2014	15:37	Cloudy	Middle	2.5	16.00	16.00	16.00	8.38	8.38	8.40	33.44	33.42	33.45	77.3	77.2	76.4	6.24	6.23	6.17	4.96	4.98	4.95	8	8.00
	15:39		Middle	2.5	16.00	16.00		8.41	8.41		33.46	33.46		76.0	75.1		6.13	6.06		4.94	4.91		8	
14/2/2014	16:42	Fine	Middle	2.5	15.80	15.80	15.75	8.42	8.42	8.42	33.49	33.48	33.50	78.2	77.7	77.4	6.32	6.27	6.26	3.52	3.52	3.57	5	5.00
	16:44		Middle	2.5	15.70	15.70		8.42	8.42		33.51	33.51		77.0	76.6		6.23	6.20		3.61	3.62		5	
17/2/2014	20:20	Cloudy	Middle	3.0	16.80	16.80	16.85	8.31	8.31	8.31	33.59	33.59	33.59	79.4	79.0	78.9	6.30	6.28	6.27	4.48	4.51	4.47	5	5.00
	20:22		Middle	3.0	16.90	16.90		8.31	8.31		33.59	33.59		78.7	78.5		6.26	6.25		4.47	4.42		5	
19/2/2014	10:14	Cloudy	Middle	2.5	15.10	15.10	15.10	8.32	8.32	8.32	33.62	33.62	33.62	86.4	87.7	87.0	7.13	7.20	7.16	5.85	5.82	5.83	8	7.50
	10:16		Middle	2.5	15.10	15.10		8.32	8.32		33.62	33.62		86.9	86.9		7.14	7.15		5.84	5.80		7	
21/2/2014	10:37	Fine	Middle	2.5	16.00	16.00	12.00	8.35	8.35	8.35	33.64	33.64	33.64	86.1	85.5	85.5	6.94	6.90	6.90	5.05	5.04	5.03	7	7.00
	10:39		Middle	2.5	0.00	16.00		8.35	8.35		33.64	33.64		85.2	85.0		6.88	6.87		5.01	5.00		7	
24/2/2014	10:35	Fine	Middle	2.5	16.40	16.40	16.40	8.28	8.28	8.28	33.87	33.88	33.88	94.3	93.9	93.8	7.52	7.07	7.37	4.92	4.91	4.94	3	3.50
	10:37		Middle	2.5	16.40	16.40		8.28	8.28		33.87	33.88		93.8	93.1		7.48	7.42		4.96	4.95		4	
26/2/2014	14:57	Fine	Middle	3.0	17.40	17.40	17.50	8.30	8.30	8.30	33.77	33.77	33.78	84.7	83.1	84.3	6.61	6.47	6.57	4.02	3.98	3.96	4	4.00
	14:59		Middle	3.0	17.60	17.60		8.30	8.30		33.79	33.79		85.1	84.2		6.63	6.56		3.94	3.91		4	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P1 - HKCEC Phase I
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	16:28	Fine	Middle	2.5	17.60	17.60	17.60	8.32	8.32	8.32	32.97	32.97	32.97	87.2	87.4	87.2	6.67	6.84	6.79	4.99	4.98	4.96	4	3.50
	16:30		Middle	2.5	17.60	17.60		8.32	8.32		32.97	32.97		87.2	87.0		6.83	6.81		4.93	4.93		3	
4/2/2014	11:17	Fine	Middle	2.5	18.40	18.40	18.40	8.37	8.37	8.37	32.08	32.08	32.08	94.9	94.6	94.3	7.36	7.34	7.33	2.57	2.55	2.54	4	4.00
	11:19		Middle	2.5	18.40	18.40		8.37	8.37		32.08	32.08		93.8	93.8		7.30	7.30		2.53	2.52		4	
6/2/2014	11:12	Fine	Middle	3.0	18.40	18.40	18.40	8.38	8.38	8.38	33.11	33.11	33.11	97.1	91.2	94.0	7.48	7.02	7.24	2.98	2.97	2.97	3	4.00
	11:14		Middle	3.0	18.40	18.40		8.38	8.38		33.11	33.11		92.8	94.9		7.15	7.31		2.97	2.96		5	
8/2/2014	12:27	Fine	Middle	3.0	18.50	18.50	18.50	8.49	8.49	8.47	33.19	33.19	33.20	75.1	74.9	74.8	5.77	5.76	5.75	3.25	3.24	3.22	6	6.00
	12:29		Middle	3.0	18.50	18.50		8.45	8.45		33.20	33.20		74.6	74.4		5.74	5.73		3.21	3.16		6	
10/2/2014	10:15	Fine	Middle	3.0	17.60	17.60	17.35	8.41	8.41	8.41	33.49	33.49	33.49	87.5	86.1	86.4	6.87	6.78	6.80	3.52	3.41	3.45	6	5.00
	10:17		Middle	3.0	17.10	17.10		8.41	8.41		33.49	33.49		86.3	85.6		6.79	6.74		3.43	3.42		4	
12/2/2014	16:18	Cloudy	Middle	3.0	15.90	15.90	15.95	8.39	8.39	8.39	33.28	33.28	33.34	72.9	72.8	72.7	5.86	5.85	5.85	4.71	4.72	4.72	5	5.00
	16:20		Middle	3.0	16.00	16.00		8.39	8.39		33.40	33.40		72.7	72.5		5.84	5.83		4.73	4.73		5	
14/2/2014	17:20	Fine	Middle	3.0	16.20	16.20	16.15	8.38	8.38	8.39	33.46	33.46	33.48	78.2	77.5	77.4	6.28	6.22	6.19	3.11	3.10	3.10	5	4.00
	17:22		Middle	3.0	16.10	16.10		8.39	8.39		33.50	33.50		76.9	76.9		6.13	6.13		3.10	3.07		3	
17/2/2014	19:36	Cloudy	Middle	3.0	17.20	17.20	17.30	8.37	8.37	8.36	33.61	33.61	33.62	79.7	79.4	79.4	6.25	6.23	6.23	4.03	3.99	3.97	3	3.00
	19:38		Middle	3.0	17.40	17.40		8.35	8.35		33.63	33.63		79.2	79.1		6.22	6.22		3.95	3.90		3	
19/2/2014	10:47	Cloudy	Middle	2.5	15.60	15.60	15.60	8.29	8.29	8.29	33.53	33.53	33.53	83.3	83.3	82.4	6.77	6.79	6.71	4.29	4.29	4.29	4	3.50
	10:49		Middle	2.5	15.60	15.60		8.29	8.29		33.53	33.53		82.4	80.4		6.72	6.56		4.29	4.29		3	
21/2/2014	11:12	Fine	Middle	3.0	16.20	16.20	16.20	8.31	8.31	8.31	33.62	33.62	33.62	88.0	86.8	86.5	7.07	6.97	6.94	4.48	4.49	4.48	4	4.00
	11:14		Middle	3.0	16.20	16.20		8.31	8.31		33.62	33.62		85.5	85.6		6.86	6.87		4.48	4.47		4	
24/2/2014	10:07	Fine	Middle	3.0	16.50	16.50	16.50	8.32	8.32	8.32	33.88	33.86	33.87	91.2	89.9	90.2	7.25	7.14	7.17	3.95	3.87	3.87	3	4.00
	10:09		Middle	3.0	16.50	16.50		8.32	8.32		33.86	33.88		90.1	89.7		7.16	7.12		3.81	3.86		5	
26/2/2014	15:30	Fine	Middle	3.0	17.50	17.50	17.55	8.31	8.31	8.31	33.84	33.84	33.86	86.1	85.4	85.8	6.72	6.66	6.69	3.85	3.81	3.82	4	4.00
	15:32		Middle	3.0	17.60	17.60		8.30	8.30		33.87	33.87		86.4	85.4		6.73	6.65		3.80	3.83		4	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P3 - APA
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	16:20	Fine	Middle	2.5	17.20	17.20	17.20	8.32	8.32	8.32	32.92	32.77	32.83	86.1	84.9	85.9	7.00	6.74	6.86	4.12	4.13	4.16	2	2.00
	16:22		Middle	2.5	17.20	17.20		8.32	8.32		32.72	32.91		85.7	86.9		6.77	6.94		4.21	4.18		2	
4/2/2014	11:08	Fine	Middle	2.5	18.00	18.00	17.95	8.38	8.38	8.38	32.17	32.17	32.17	96.6	96.3	96.0	7.54	7.52	7.50	2.46	2.41	2.40	3	3.00
	11:10		Middle	2.5	17.90	17.90		8.37	8.37		32.17	32.17		95.6	95.4		7.48	7.47		2.38	2.36		3	
6/2/2014	11:00	Fine	Middle	3.0	18.30	18.30	18.30	8.39	8.39	8.39	33.12	33.12	33.12	93.7	93.9	93.6	7.23	7.24	7.22	2.68	2.71	2.70	2	2.50
	11:02		Middle	3.0	18.30	18.30		8.39	8.39		33.12	33.12		93.4	93.5		7.20	7.21		2.70	2.72		3	
8/2/2014	12:40	Fine	Middle	3.0	18.10	18.10	18.05	8.33	8.33	8.33	33.21	33.21	33.20	77.7	77.3	77.2	6.02	5.99	5.99	2.73	2.70	2.69	5	4.50
	12:42		Middle	3.0	18.00	18.00		8.32	8.32		33.19	33.19		77.1	76.7		5.98	5.97		2.65	2.68		4	
10/2/2014	10:10	Fine	Middle	2.5	17.00	17.00	16.85	8.42	8.42	8.42	33.69	33.69	33.57	81.9	82.6	82.3	6.48	6.53	6.52	3.33	3.31	3.31	3	3.00
	10:12		Middle	2.5	16.70	16.70		8.42	8.42		33.44	33.44		82.4	82.2		6.54	6.52		3.30	3.30		3	
12/2/2014	16:05	Cloudy	Middle	3.0	16.00	16.00	16.00	8.36	8.36	8.38	33.41	33.41	33.41	71.4	70.9	70.7	5.75	5.71	5.67	4.52	4.55	4.55	6	6.50
	16:07		Middle	3.0	16.00	16.00		8.40	8.40		33.40	33.40		70.5	70.1		5.68	5.54		4.56	4.56		7	
14/2/2014	17:10	Fine	Middle	3.0	16.10	16.10	16.10	8.39	8.39	8.40	33.40	33.40	33.41	77.5	77.9	77.8	6.23	6.27	6.26	3.27	3.28	3.31	6	5.50
	17:12		Middle	3.0	16.10	16.10		8.40	8.40		33.42	33.42		78.0	77.8		6.27	6.26		3.34	3.33		5	
17/2/2014	19:51	Cloudy	Middle	3.0	16.90	16.90	16.95	8.32	8.32	8.32	33.58	33.58	33.59	81.5	81.2	81.1	6.44	6.42	6.41	3.93	3.88	3.88	2	3.00
	19:53		Middle	3.0	17.00	17.00		8.31	8.31		33.60	33.60		80.9	80.6		6.40	6.38		3.87	3.82		4	
19/2/2014	10:39	Cloudy	Middle	2.5	15.60	15.60	15.60	8.32	8.32	8.32	33.51	33.51	33.51	79.3	79.7	79.7	6.49	6.50	6.51	3.95	3.94	3.95	4	4.50
	10:41		Middle	2.5	15.60	15.60		8.32	8.32		33.51	33.51		80.0	79.6		6.55	6.49		3.95	3.94		5	
21/2/2014	11:03	Fine	Middle	2.5	15.80	15.80	15.80	8.33	8.33	8.33	33.75	33.75	33.75	82.1	82.4	82.4	6.67	6.69	6.68	4.54	4.55	4.56	3	3.50
	11:05		Middle	2.5	15.80	15.80		8.33	8.33		33.75	33.75		82.5	82.4		6.69	6.68		4.59	4.56		4	
24/2/2014	10:59	Fine	Middle	3.0	16.20	16.20	16.20	8.32	8.32	8.32	33.91	33.92	33.92	96.9	95.8	95.6	7.76	7.66	7.73	5.33	5.34	5.33	3	3.00
	11:01		Middle	3.0	16.20	16.20		8.32	8.32		33.91	33.92		95.1	94.6		7.61	7.87		5.32	5.33		3	
26/2/2014	15:23	Fine	Middle	3.0	17.40	17.40	17.45	8.31	8.31	8.31	33.77	33.77	33.78	86.4	85.4	85.8	6.74	6.67	6.70	2.91	3.05	2.97	4	3.50
	15:25		Middle	3.0	17.50	17.50		8.31	8.31		33.78	33.78		86.7	84.8		6.76	6.61		2.94	2.97		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P4 - SOC
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	16:09	Fine	Middle	2.5	17.00	17.00	17.00	8.32	8.32	8.32	32.89	32.89	32.89	83.2	81.6	83.9	6.60	6.47	6.66	3.99	4.02	4.03	2	2.00
	16:11		Middle	2.5	17.00	17.00		8.32	8.32		32.89	32.89		84.3	86.4		6.69	6.86		4.04	4.07		2	
4/2/2014	10:59	Fine	Middle	2.5	17.80	17.80	17.80	8.38	8.38	8.38	32.70	32.70	32.71	96.5	96.2	96.1	7.54	7.52	7.51	3.46	3.41	3.40	3	4.00
	11:01		Middle	2.5	17.80	17.80		8.38	8.38		32.71	32.71		95.9	95.7		7.50	7.49		3.36	3.37		5	
6/2/2014	10:49	Fine	Middle	2.5	18.30	18.30	18.30	8.41	8.41	8.41	33.12	33.12	33.12	90.6	93.3	92.2	6.99	7.21	7.12	3.63	3.62	3.62	3	3.50
	10:51		Middle	2.5	18.30	18.30		8.41	8.41		33.12	33.12		92.4	92.5		7.14	7.14		3.61	3.63		4	
8/2/2014	12:52	Fine	Middle	3.0	18.60	18.60	18.50	8.39	8.39	8.38	33.10	33.10	33.10	77.8	77.4	77.4	5.99	5.97	5.97	2.77	2.73	2.73	2	2.50
	12:54		Middle	3.0	18.40	18.40		8.36	8.36		33.10	33.10		77.3	77.1		5.96	5.95		2.71	2.69		3	
10/2/2014	10:04	Fine	Middle	2.5	17.00	17.00	17.00	8.43	8.43	8.43	33.30	33.30	33.38	89.0	88.9	88.6	7.04	7.04	7.01	3.72	3.72	3.74	3	3.00
	10:06		Middle	2.5	17.00	17.00		8.43	8.43		33.45	33.45		88.9	87.5		7.04	6.93		3.74	3.79		3	
12/2/2014	15:54	Cloudy	Middle	2.5	16.40	16.40	16.35	8.37	8.37	8.38	33.35	33.36	33.38	70.9	73.1	71.7	5.67	5.85	5.74	4.60	4.61	4.62	5	5.50
	15:56		Middle	2.5	16.30	16.30		8.38	8.38		33.40	33.41		71.6	71.2		5.73	5.70		4.62	4.63		6	
14/2/2014	17:01	Fine	Middle	2.5	16.00	16.00	16.00	8.40	8.40	8.40	33.45	33.45	33.46	76.9	74.6	74.4	6.00	6.02	5.95	3.31	3.35	3.36	5	4.50
	17:03		Middle	2.5	16.00	16.00		8.40	8.40		33.46	33.46		73.3	72.7		5.92	5.87		3.38	3.40		4	
17/2/2014	20:05	Cloudy	Middle	3.0	17.00	17.00	17.05	8.34	8.34	8.33	33.43	33.43	33.43	80.8	80.6	80.5	6.36	6.35	6.34	3.64	3.64	3.60	3	3.00
	20:07		Middle	3.0	17.10	17.10		8.32	8.32		33.42	33.42		80.3	80.1		6.33	6.32		3.59	3.53		3	
19/2/2014	10:31	Cloudy	Middle	2.5	15.40	15.40	15.40	8.32	8.32	8.32	33.64	33.64	33.64	81.3	82.6	82.3	6.64	6.73	6.72	4.95	4.96	4.95	5	5.50
	10:33		Middle	2.5	15.40	15.40		8.32	8.32		33.64	33.64		82.1	83.0		6.71	6.78		4.95	4.94		6	
21/2/2014	10:53	Fine	Middle	2.5	15.70	15.70	15.70	8.34	8.34	8.34	33.72	33.72	33.72	82.8	83.7	83.8	6.71	6.78	6.79	5.50	5.53	5.52	4	4.00
	10:55		Middle	2.5	15.70	15.70		8.34	8.34		33.72	33.72		84.1	84.6		6.83	6.85		5.54	5.52		4	
24/2/2014	10:51	Fine	Middle	3.0	16.30	16.30	16.30	8.31	8.31	8.31	33.81	33.81	33.82	91.2	91.7	90.3	7.30	7.32	7.20	5.41	5.42	5.42	3	3.50
	10:53		Middle	3.0	16.30	16.30		8.31	8.31		33.82	33.82		89.6	88.7		7.11	7.08		5.43	5.41		4	
26/2/2014	15:14	Fine	Middle	3.0	17.30	17.30	17.35	8.32	8.32	8.32	33.67	33.67	33.69	85.7	84.1	84.9	6.70	6.57	6.63	3.75	3.77	3.77	2	2.00
	15:16		Middle	3.0	17.40	17.40		8.31	8.31		33.70	33.70		85.1	84.5		6.65	6.60		3.81	3.74		2	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P5 - WCT / RT / IT
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	16:04	Fine	Middle	2.5	17.00	17.00	17.00	8.33	8.33	8.33	32.81	32.81	32.81	87.5	87.3	87.4	6.93	6.91	6.92	4.45	4.42	4.42	2	2.50
	16:06		Middle	2.5	17.00	17.00		8.33	8.33		32.81	32.81		87.2	87.5		6.90	6.94		4.41	4.40		3	
4/2/2014	10:52	Fine	Middle	2.5	17.90	17.90	17.85	8.38	8.38	8.38	32.73	32.73	32.73	97.8	97.5	97.4	7.64	7.62	7.62	3.95	3.94	3.91	4	4.50
	10:54		Middle	2.5	17.80	17.80		8.38	8.38		32.73	32.73		97.3	97.0		7.61	7.59		3.88	3.86		5	
6/2/2014	10:43	Fine	Middle	2.5	18.30	18.30	18.30	8.42	8.42	8.42	33.14	33.14	33.14	96.2	93.9	96.2	7.43	7.25	7.43	3.40	3.41	3.40	4	4.00
	10:45		Middle	2.5	18.30	18.30		8.42	8.42		33.14	33.14		98.7	95.9		7.62	7.40		3.41	3.39		4	
8/2/2014	13:03	Fine	Middle	3.0	18.10	18.10	18.05	8.31	8.31	8.31	33.19	33.19	33.19	79.3	79.1	79.0	6.15	6.14	6.14	2.68	2.65	2.63	6	5.50
	13:05		Middle	3.0	18.00	18.00		8.30	8.30		33.18	33.18		78.8	78.7		6.13	6.13		2.61	2.57		5	
10/2/2014	10:00	Fine	Middle	2.5	16.80	16.80	16.70	8.41	8.41	8.42	33.50	33.50	33.50	84.7	85.8	85.6	6.73	6.82	6.80	3.63	3.44	3.42	4	3.50
	10:02		Middle	2.5	16.60	16.60		8.42	8.42		33.49	33.49		86.2	85.5		6.86	6.77		3.31	3.30		3	
12/2/2014	15:49	Cloudy	Middle	2.5	16.40	16.40	16.30	8.40	8.40	8.41	33.36	33.36	33.37	79.1	78.2	78.3	6.33	6.26	6.28	3.63	3.63	3.64	4	4.00
	15:51		Middle	2.5	16.20	16.20		8.41	8.41		33.38	33.38		78.0	77.8		6.30	6.24		3.65	3.66		4	
14/2/2014	16:56	Fine	Middle	2.5	15.80	15.80	15.75	8.39	8.39	8.40	33.50	33.50	26.02	80.2	79.8	79.7	6.49	6.48	6.46	3.63	3.63	3.58	4	3.50
	16:58		Middle	2.5	15.70	15.70		8.41	8.41		33.53	3.53		79.4	79.5		6.43	6.44		3.54	3.53		3	
17/2/2014	20:13	Cloudy	Middle	3.0	16.90	16.90	16.95	8.31	8.31	8.31	33.54	33.54	33.56	80.3	79.9	79.8	6.34	6.32	6.31	4.33	4.29	4.29	3	3.50
	20:15		Middle	3.0	17.00	17.00		8.30	8.30		33.57	33.57		79.5	79.3		6.30	6.29		4.28	4.26		4	
19/2/2014	10:25	Cloudy	Middle	2.5	15.30	15.30	15.30	8.33	8.33	8.33	33.68	33.68	33.68	80.3	81.2	80.2	6.58	6.66	6.58	4.54	4.52	4.53	8	7.50
	10:27		Middle	2.5	15.30	15.30		8.33	8.33		33.68	33.68		79.5	79.9		6.52	6.54		4.53	4.54		7	
21/2/2014	10:48	Fine	Middle	2.5	15.70	15.70	15.70	8.35	8.35	8.35	33.73	33.73	33.73	86.5	86.4	87.1	7.01	7.01	7.06	5.43	5.42	5.44	4	5.00
	10:50		Middle	2.5	15.70	15.70		8.35	8.35		33.73	33.73		88.1	87.5		7.14	7.09		5.45	5.44		6	
24/2/2014	10:46	Fine	Middle	3.0	16.40	16.40	16.40	8.31	8.31	8.31	33.74	33.75	33.75	96.6	95.4	95.3	7.70	7.60	7.59	4.74	4.75	4.75	3	3.50
	10:48		Middle	3.0	16.40	16.40		8.31	8.31		33.75	33.74		94.9	94.1		7.56	7.49		4.76	4.74		4	
26/2/2014	15:07	Fine	Middle	3.0	17.40	17.40	17.50	8.31	8.31	8.31	34.65	34.65	34.71	85.6	85.1	85.9	6.68	6.63	6.69	4.25	4.23	4.25	2	2.50
	15:09		Middle	3.0	17.60	17.60		8.31	8.31		34.77	34.77		87.1	85.9		6.77	6.67		4.24	4.26		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	14:40	Fine	Middle	3.5	18.10	18.10	18.30	8.47	8.47	8.47	35.07	35.07	35.06	79.9	80.5	80.9	6.10	6.17	6.17	2.97	2.81	2.86	2	2.50
	14:42		Middle	3.5	18.50	18.50		8.47	8.47		35.05	35.05		81.4	81.6		6.20	6.21		2.80	2.86		3	
4/2/2014	10:47	Fine	Middle	4.0	18.00	18.00	18.00	8.58	8.58	8.58	34.66	34.66	34.66	87.4	89.0	88.7	6.72	6.84	6.82	2.94	2.94	2.92	5	5.00
	10:49		Middle	4.0	18.00	18.00		8.58	8.58		34.66	34.66		89.2	89.2		6.87	6.86		2.92	2.86		5	
6/2/2014	12:00	Fine	Middle	3.5	18.60	18.60	18.65	8.59	8.59	8.60	35.56	35.55	35.55	83.6	84.2	84.3	6.32	6.36	6.36	2.03	1.96	1.97	4	4.00
	12:02		Middle	3.5	18.70	18.70		8.60	8.60		35.55	35.55		85.1	84.2		6.41	6.36		1.96	1.94		4	
8/2/2014	13:14	Fine	Middle	3.5	18.10	18.10	18.10	8.54	8.54	8.54	35.30	35.30	35.31	75.4	76.3	76.4	5.77	5.84	5.84	1.70	1.70	1.72	4	4.00
	13:16		Middle	3.5	18.10	18.10		8.53	8.53		35.31	35.31		76.8	76.9		5.87	5.88		1.72	1.74		4	
10/2/2014	11:41	Fine	Middle	3.5	16.10	16.10	16.05	8.57	8.57	8.58	35.53	35.55	35.56	75.1	74.4	74.7	5.95	5.90	5.92	3.73	3.73	3.73	3	3.00
	11:43		Middle	3.5	16.00	16.00		8.59	8.59		35.58	35.58		74.6	74.5		5.93	5.91		3.73	3.74		3	
12/2/2014	14:10	Cloudy	Middle	4.0	15.40	15.40	15.35	8.56	8.56	8.57	35.80	35.80	35.81	76.9	77.0	77.2	6.18	6.20	6.21	6.40	6.32	6.26	7	7.50
	14:12		Middle	4.0	15.30	15.30		8.57	8.57		35.81	35.81		77.4	77.4		6.23	6.23		6.22	6.10		8	
14/2/2014	17:01	Fine	Middle	4.0	16.10	16.10	16.10	8.55	8.55	8.56	35.76	35.76	35.76	82.2	82.3	82.2	6.52	6.52	6.52	4.35	4.40	4.42	5	5.50
	17:03		Middle	4.0	16.10	16.10		8.56	8.56		35.76	35.76		82.3	82.0		6.53	6.50		4.44	4.47		6	
17/2/2014	19:25	Cloudy	Middle	3.5	18.70	18.70	18.70	8.10	8.10	8.11	32.69	32.69	32.69	83.6	82.8	82.9	6.40	6.36	6.35	6.73	6.85	6.48	3	3.50
	19:26		Middle	3.5	18.70	18.70		8.11	8.11		32.69	32.69		83.0	82.0		6.34	6.28		6.23	6.11		4	
19/2/2014	10:45	Cloudy	Middle	4.0	14.70	14.70	14.65	8.42	8.42	8.43	35.80	35.80	35.82	75.5	75.7	75.7	6.16	6.17	6.17	5.02	4.91	4.93	4	4.50
	10:47		Middle	4.0	14.60	14.60		8.44	8.44		35.83	35.83		75.8	75.7		6.18	6.18		4.90	4.90		5	
21/2/2014	11:30	Fine	Middle	4.0	15.80	15.80	15.80	8.49	8.49	8.49	35.90	35.90	35.90	76.9	77.2	77.3	6.13	6.15	6.16	4.24	4.23	4.23	6	5.50
	11:32		Middle	4.0	15.80	15.80		8.49	8.49		35.90	35.90		77.5	77.5		6.17	6.18		4.22	4.21		5	
24/2/2014	13:40	Fine	Middle	4.0	17.60	17.60	17.80	8.49	8.49	8.49	36.25	36.25	36.23	63.7	64.3	64.4	4.87	4.92	4.92	3.01	3.11	3.13	3	3.00
	13:42		Middle	4.0	18.00	18.00		8.49	8.49		36.20	36.20		64.6	64.9		4.93	4.95		3.20	3.21		3	
26/2/2014	14:40	Fine	Middle	4.0	18.20	18.20	18.40	8.48	8.48	8.49	35.99	35.99	35.99	45.8	44.9	45.4	3.47	3.42	3.44	3.24	3.29	3.26	3	3.00
	14:42		Middle	4.0	18.60	18.60		8.49	8.49		35.98	35.98		45.3	45.4		3.43	3.45		3.29	3.22		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at WSD21 - Wan Chai
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	15:30	Fine	Middle	1.5	17.30	17.30	17.30	8.42	8.42	8.42	32.92	32.92	32.93	84.4	84.7	84.6	6.64	6.67	6.67	5.44	5.34	5.34	4	3.50
	15:32		Middle	1.5	17.30	17.30		8.41	8.41		32.93	32.93		84.5	84.9		6.66	6.69		5.33	5.26		3	
4/2/2014	10:17	Fine	Middle	2.0	18.20	18.20	18.20	8.39	8.39	8.38	32.00	32.00	31.99	89.1	88.4	88.4	6.94	6.91	6.91	4.32	4.27	4.27	4	4.00
	10:19		Middle	2.0	18.20	18.20		8.36	8.36		31.98	31.98		88.1	87.9		6.89	6.88		4.26	4.22		4	
6/2/2014	10:09	Fine	Middle	1.5	18.70	18.70	18.70	8.64	8.64	8.64	33.15	33.15	33.15	91.9	91.8	91.7	7.04	7.02	7.02	3.62	3.63	3.64	3	3.00
	10:11		Middle	1.5	18.70	18.70		8.64	8.64		33.14	33.14		91.7	91.4		7.02	7.00		3.65	3.64		3	
8/2/2014	13:36	Fine	Middle	2.0	18.30	18.30	18.25	8.31	8.31	8.31	33.17	33.17	33.17	80.1	79.8	79.7	6.19	6.17	6.17	6.28	6.26	6.33	3	3.50
	13:38		Middle	2.0	18.20	18.20		8.31	8.31		33.16	33.16		79.6	79.3		6.16	6.14		6.21	6.57		4	
10/2/2014	9:30	Fine	Middle	1.5	17.10	17.10	17.05	8.47	8.47	8.47	33.08	33.08	33.08	81.6	81.7	81.2	6.77	6.49	6.52	5.45	5.43	5.43	6	6.00
	9:32		Middle	1.5	17.00	17.00		8.46	8.46		33.08	33.08		81.0	80.3		6.45	6.37		5.43	5.42		6	
12/2/2014	15:11	Cloudy	Middle	1.5	16.30	16.30	16.25	8.44	8.44	8.44	33.41	33.41	33.42	73.3	72.3	71.9	5.86	5.81	5.77	6.48	6.49	6.46	8	8.00
	15:13		Middle	1.5	16.20	16.20		8.43	8.43		33.42	33.42		71.5	70.4		5.75	5.65		6.46	6.41		8	
14/2/2014	16:18	Fine	Middle	1.5	16.10	16.10	16.10	8.44	8.44	8.45	33.12	33.12	33.13	74.5	73.6	73.3	6.00	5.93	5.90	4.94	4.91	4.85	8	8.00
	16:20		Middle	1.5	16.10	16.10		8.45	8.45		33.13	33.13		72.5	72.4		5.84	5.83		4.79	4.75		8	
17/2/2014	20:54	Cloudy	Middle	2.0	16.80	16.80	16.85	8.30	8.30	8.30	33.44	33.44	33.43	76.5	76.4	76.3	6.06	6.06	6.05	5.03	4.99	4.99	6	6.00
	20:56		Middle	2.0	16.90	16.90		8.30	8.30		33.41	33.41		76.2	75.9		6.05	6.03		4.97	4.95		6	
19/2/2014	9:51	Cloudy	Middle	1.5	15.30	15.30	15.30	8.39	8.39	8.39	31.57	31.57	31.57	78.1	78.2	77.9	6.80	6.84	6.79	4.97	4.96	4.82	5	5.00
	9:53		Middle	1.5	15.30	15.30		8.39	8.39		31.57	31.57		77.3	77.9		6.74	6.79		4.67	4.68		5	
21/2/2014	10:03	Fine	Middle	2.0	16.00	16.00	16.00	8.51	8.51	8.51	33.48	33.48	33.48	74.7	73.8	73.7	6.01	5.95	5.94	4.16	4.18	4.19	5	4.50
	10:05		Middle	2.0	16.00	16.00		8.51	8.51		33.48	33.48		74.5	71.7		6.00	5.78		4.21	4.20		4	
24/2/2014	10:06	Fine	Middle	1.5	16.20	16.20	16.20	8.15	8.15	8.15	33.64	33.64	33.64	85.1	85.4	85.8	6.81	6.84	6.87	5.40	5.41	5.43	10	9.00
	10:08		Middle	1.5	16.20	16.20		8.15	8.15		33.64	33.64		85.6	86.9		6.85	6.96		5.46	5.45		8	
26/2/2014	14:30	Fine	Middle	1.5	17.20	17.20	17.30	8.20	8.20	8.21	33.52	33.52	33.51	82.2	81.5	81.9	6.44	6.38	6.41	5.79	5.80	5.76	3	4.00
	14:32		Middle	1.5	17.40	17.40		8.22	8.22		33.50	33.50		82.3	81.6		6.44	6.38		5.74	5.72		5	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at WSD19 - Sheung Wan
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	14:15	Fine	Middle	3.5	18.20	18.20	18.25	8.49	8.49	8.49	35.02	35.02	35.02	80.5	80.5	80.6	6.14	6.14	6.15	3.43	3.56	3.46	4	4.00
	14:17		Middle	3.5	18.30	18.30		8.48	8.48		35.02	35.02		80.7	80.6		6.16	6.15		3.48	3.38		4	
4/2/2014	10:20	Fine	Middle	3.0	18.10	18.10	18.10	8.56	8.57	8.57	34.21	34.21	34.21	89.0	87.8	88.1	6.85	6.75	6.78	2.24	2.24	2.24	6	6.00
	10:22		Middle	3.0	18.10	18.10		8.58	8.58		34.21	34.21		88.0	87.6		6.78	6.74		2.23	2.24		6	
6/2/2014	11:34	Fine	Middle	3.5	18.90	18.90	18.90	8.60	8.60	8.60	35.30	35.30	35.30	82.6	82.8	82.6	6.22	6.24	6.22	3.84	3.68	3.62	5	5.00
	11:36		Middle	3.5	18.90	18.90		8.60	8.60		35.29	35.29		82.8	82.0		6.24	6.17		3.48	3.47		5	
8/2/2014	12:49	Fine	Middle	3.5	18.00	18.00	17.95	8.57	8.57	8.57	35.30	35.30	35.30	74.2	74.3	73.3	5.69	5.70	5.62	4.09	4.06	4.05	6	5.50
	12:51		Middle	3.5	17.90	17.90		8.56	8.56		35.30	35.30		72.2	72.4		5.53	5.55		4.04	4.01		5	
10/2/2014	11:11	Fine	Middle	3.5	15.70	15.70	15.65	8.59	8.58	8.59	35.66	35.66	35.69	73.8	73.9	74.2	5.90	5.91	5.93	5.12	5.23	5.17	5	5.50
	11:13		Middle	3.5	15.60	15.60		8.59	8.59		35.71	35.71		74.8	74.2		5.98	5.94		5.20	5.11		6	
12/2/2014	13:45	Cloudy	Middle	3.5	15.30	15.30	15.30	8.53	8.53	8.53	35.71	35.71	35.71	72.8	73.6	73.3	5.88	5.95	5.93	4.01	4.08	4.07	5	5.50
	13:47		Middle	3.5	15.30	15.30		8.53	8.53		35.71	35.71		73.7	73.2		5.96	5.92		4.09	4.09		6	
14/2/2014	16:30	Fine	Middle	3.5	16.10	16.10	16.10	8.54	8.54	8.54	35.74	35.74	35.75	77.8	76.9	77.0	6.16	6.09	6.10	5.41	5.41	5.40	6	5.50
	16:32		Middle	3.5	16.10	16.10		8.54	8.54		35.75	35.75		76.5	76.6		6.06	6.07		5.40	5.39		5	
17/2/2014	21:20	Cloudy	Middle	2.0	17.80	17.80	17.85	8.01	8.01	8.01	32.39	32.39	32.39	84.8	84.9	85.0	6.60	6.61	6.61	3.84	3.91	3.81	5	5.00
	21:21		Middle	2.0	17.90	17.90		8.01	8.01		32.38	32.38		85.1	85.0		6.63	6.61		3.77	3.72		5	
19/2/2014	10:25	Cloudy	Middle	3.5	13.80	13.80	13.70	8.42	8.42	8.43	35.75	35.75	35.75	70.7	70.6	70.7	5.88	5.87	5.88	4.39	4.54	4.53	6	5.50
	10:27		Middle	3.5	13.60	13.60		8.43	8.43		35.75	35.75		70.9	70.6		5.89	5.88		4.60	4.60		5	
21/2/2014	11:05	Fine	Middle	3.5	15.90	15.90	15.85	8.52	8.52	8.52	35.86	35.86	35.86	72.3	72.3	72.3	5.75	5.75	5.75	3.37	3.37	3.37	5	4.50
	11:07		Middle	3.5	15.80	15.80		8.51	8.51		35.86	35.86		72.2	72.2		5.74	5.74		3.37	3.36		4	
24/2/2014	11:00	Fine	Middle	3.5	17.20	17.20	17.20	8.55	8.55	8.55	36.09	36.09	36.09	68.7	68.3	68.2	5.32	5.29	5.28	2.85	2.77	2.78	5	4.50
	11:02		Middle	3.5	17.20	17.20		8.55	8.55		36.09	36.09		68.0	67.8		5.26	5.26		2.74	2.74		4	
26/2/2014	14:20	Fine	Middle	3.5	19.80	19.80	19.80	8.47	8.47	8.47	35.59	35.59	35.70	58.7	58.9	59.5	4.33	4.35	4.39	2.19	2.08	2.10	3	3.00
	14:22		Middle	3.5	19.80	19.80		8.47	8.47		35.81	35.81		60.4	60.0		4.46	4.40		2.06	2.06		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at WSD9 - Tai Wan
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	22:52	Fine	Middle	2.0	17.30	17.30	17.30	8.16	8.16	8.17	32.28	32.28	32.28	92.2	92.3	92.4	7.28	7.29	7.30	1.53	1.64	1.59	3	3.50
	22:53		Middle	2.0	17.30	17.30		8.18	8.18		32.28	32.28		92.5	92.5		7.31	7.31		1.60	1.57		4	
4/2/2014	18:10	Fine	Middle	3.0	18.10	18.10	18.10	8.53	8.53	8.55	35.01	35.01	35.01	92.5	92.5	91.8	7.09	7.09	7.03	2.06	2.03	2.04	3	2.50
	18:12		Middle	3.0	18.10	18.10		8.56	8.56		35.00	35.00		92.0	90.0		7.04	6.90		2.02	2.03		2	
6/2/2014	20:00	Fine	Middle	3.0	18.80	18.80	18.80	8.69	8.69	8.70	35.66	35.66	35.66	92.4	91.6	91.5	6.96	6.90	6.89	1.47	1.48	1.49	4	3.50
	20:02		Middle	3.0	18.80	18.80		8.70	8.70		35.66	35.66		90.2	91.6		6.80	6.90		1.50	1.51		3	
8/2/2014	20:06	Cloudy	Middle	2.0	18.20	18.20	18.20	8.17	8.16	8.17	32.65	32.65	32.65	93.3	93.9	93.6	7.23	7.28	7.25	1.16	1.21	1.22	3	3.50
	20:07		Middle	2.0	18.20	18.20		8.18	8.18		32.65	32.65		94.2	92.8		7.30	7.19		1.24	1.26		4	
10/2/2014	21:50	Cloudy	Middle	2.0	12.90	12.90	12.90	7.84	7.84	7.87	32.77	32.77	32.78	89.1	89.0	88.8	7.68	7.66	7.65	1.12	1.15	1.17	3	2.50
	21:51		Middle	2.0	12.90	12.90		7.89	7.89		32.78	32.78		88.7	88.5		7.64	7.62		1.21	1.19		2	
12/2/2014	22:52	Cloudy	Middle	2.0	13.30	13.30	13.30	8.22	8.22	8.23	32.81	32.81	32.82	87.0	87.4	87.5	7.42	7.45	7.46	1.22	1.76	1.30	5	4.00
	22:53		Middle	2.0	13.30	13.30		8.23	8.23		32.83	32.83		87.8	87.6		7.49	7.47		1.09	1.12		3	
15/2/2014	23:52	Cloudy	Middle	2.0	13.70	13.70	13.70	8.17	8.17	8.18	32.69	32.69	32.69	85.7	86.4	86.3	7.26	7.31	7.31	1.22	1.56	1.44	3	3.00
	23:53		Middle	2.0	13.70	13.70		8.18	8.18		32.69	32.69		86.6	86.6		7.33	7.32		1.52	1.44		3	
17/2/2014	16:26	Cloudy	Middle	3.0	17.40	17.40	17.45	8.47	8.47	8.48	35.90	35.90	35.90	80.2	79.6	80.2	6.20	6.15	6.19	1.31	1.28	1.28	4	4.00
	16:28		Middle	3.0	17.50	17.50		8.48	8.48		35.89	35.89		80.5	80.3		6.20	6.20		1.26	1.25		4	
19/2/2014	16:20	Cloudy	Middle	2.5	14.50	14.50	14.50	8.53	8.53	8.47	36.10	36.10	36.10	85.7	85.9	85.8	7.00	7.01	7.01	2.34	2.37	2.38	2	2.50
	16:22		Middle	2.5	14.50	14.50		8.53	8.30		36.10	36.10		85.9	85.8		7.01	7.01		2.39	2.40		3	
21/2/2014	18:24	Fine	Middle	3.0	15.90	15.90	15.85	8.45	8.45	8.46	36.13	36.13	36.13	83.5	83.7	83.6	6.63	6.65	6.64	2.02	2.00	1.99	5	5.00
	18:26		Middle	3.0	15.80	15.80		8.47	8.47		36.12	36.12		83.6	83.5		6.64	6.64		1.97	1.98		5	
24/2/2014	17:40	Cloudy	Middle	2.5	17.80	17.80	17.80	8.26	8.26	8.27	33.20	33.20	33.20	95.6	95.5	95.4	7.45	7.44	7.43	1.08	1.10	1.09	3	2.50
	17:41		Middle	2.5	17.80	17.80		8.28	8.28		33.20	33.20		95.2	95.1		7.42	7.41		1.06	1.12		2	
26/2/2014	21:54	Cloudy	Middle	2.0	19.00	19.00	19.00	8.20	8.20	8.20	32.95	32.95	32.95	87.7	88.0	88.1	6.69	6.71	6.72	1.08	1.02	1.06	2	2.50
	21:55		Middle	2.0	19.00	19.00		8.20	8.20		32.95	32.95		88.5	88.2		6.75	6.73		1.03	1.11		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at WSD17 - Quarry Bay
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	1:32	Fine	Middle	3	17.10	17.10	17.15	8.00	8.00	8.03	31.86	31.86	31.87	84.0	83.4	83.3	6.68	6.63	6.63	2.07	2.09	2.06	4	5.00
	1:33		Middle	3	17.20	17.20		8.05	8.05		31.87	31.87		83.5	82.3		6.64	6.55		2.11	1.97		6	
4/2/2014	16:36	Fine	Middle	4	18.20	18.20	18.20	8.50	8.50	8.52	35.39	35.39	35.37	90.1	90.1	88.8	6.88	6.87	6.78	2.24	2.25	2.23	3	3.50
	16:38		Middle	4	18.20	18.20		8.53	8.53		35.35	35.35		88.9	86.2		6.78	6.57		2.24	2.20		4	
6/2/2014	18:00	Fine	Middle	3	18.80	18.80	18.80	8.53	8.53	8.55	35.91	35.91	35.91	89.4	89.7	89.7	6.72	6.74	6.74	2.40	2.32	2.33	5	5.00
	18:02		Middle	3	18.80	18.80		8.56	8.56		35.90	35.90		89.8	89.8		6.75	6.75		2.30	2.28		5	
8/2/2014	22:53	Cloudy	Middle	3	17.90	17.90	17.90	7.85	7.85	7.85	32.42	32.42	32.42	90.4	90.6	90.4	7.06	7.07	7.06	1.87	1.85	1.83	5	5.00
	22:54		Middle	3	17.90	17.90		7.85	7.85		32.42	32.41		90.6	90.1		7.07	7.04		1.82	1.76		5	
10/2/2014	0:18	Cloudy	Middle	3	12.70	12.70	12.70	8.10	8.10	8.13	31.03	31.03	31.03	78.5	79.8	79.4	6.86	6.97	6.94	4.21	4.25	4.24	3	3.50
	0:19		Middle	3	12.70	12.70		8.15	8.15		31.02	31.02		79.7	79.6		6.97	6.97		4.28	4.23		4	
12/2/2014	1:40	Cloudy	Middle	3	13.60	13.60	13.60	8.16	8.16	8.17	31.82	31.82	31.83	81.3	81.6	81.8	6.94	6.97	6.98	3.40	3.37	3.27	5	4.50
	1:41		Middle	3	13.60	13.60		8.17	8.17		31.84	31.84		82.1	82.3		7.00	7.02		3.13	3.18		4	
15/2/2014	3:05	Cloudy	Middle	3	14.30	14.30	14.30	8.05	8.05	8.06	32.46	32.46	32.46	79.8	80.4	80.4	6.68	6.73	6.73	2.40	2.31	2.40	3	4.00
	3:06		Middle	3	14.30	14.30		8.06	8.06		32.46	32.46		80.7	80.6		6.76	6.75		2.46	2.44		5	
17/2/2014	11:30	Cloudy	Middle	3	17.60	17.60	17.60	8.26	8.26	8.26	35.83	35.83	35.83	84.7	85.3	84.5	6.52	6.57	6.51	3.19	3.15	3.16	4	4.00
	11:32		Middle	3	17.60	17.60		8.26	8.26		35.83	35.83		84.1	83.8		6.48	6.45		3.14	3.14		4	
19/2/2014	15:10	Cloudy	Middle	3	15.20	15.20	15.10	8.44	8.44	8.46	36.01	36.01	36.01	82.2	82.8	83.0	6.63	6.69	6.70	3.41	3.40	3.39	5	4.50
	15:12		Middle	3	15.00	15.00		8.47	8.47		36.01	36.01		83.2	83.8		6.72	6.77		3.38	3.38		4	
21/2/2014	15:45	Fine	Middle	4	16.00	16.00	16.05	8.43	8.43	8.45	36.13	36.13	36.14	88.3	89.0	89.0	6.99	7.04	7.04	3.29	3.22	3.22	7	6.00
	15:47		Middle	4	16.10	16.10		8.47	8.47		36.14	36.14		89.2	89.4		7.05	7.07		3.21	3.15		5	
24/2/2014	19:00	Cloudy	Middle	4	17.40	17.40	17.40	8.30	8.30	8.30	33.16	33.14	33.15	91.8	92.0	91.6	7.21	7.22	7.19	2.27	2.38	2.28	5	4.50
	19:01		Middle	4	17.40	17.40		8.30	8.30		33.14	33.15		91.2	91.5		7.16	7.18		2.25	2.22		4	
26/2/2014	0:00	Cloudy	Middle	3	18.60	18.60	18.65	8.06	8.06	8.07	32.78	32.79	32.79	83.5	84.5	84.2	6.41	6.49	6.47	2.58	2.69	2.56	3	3.50
	0:01		Middle	3	18.70	18.70		8.07	8.07		32.80	32.80		84.5	84.2		6.49	6.47		2.45	2.51		4	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at C7 - Windsor House
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	1:00	Fine	Middle	1	16.90	16.90	16.93	8.20	8.20	8.19	30.51	30.51	30.51	70.6	71.6	71.2	5.68	5.76	5.72	1.87	1.90	1.89	3	3.00
	1:01		Middle	1	17.00	16.90		8.18	8.18		30.51	30.51		71.7	70.8		5.76	5.69		1.84	1.93		3	
4/2/2014	16:09	Fine	Middle	2	18.20	18.20	18.20	8.47	8.47	8.47	34.10	34.10	34.09	74.2	75.6	74.7	5.70	5.81	5.74	1.38	1.37	1.37	3	3.00
	16:11		Middle	2	18.20	18.20		8.47	8.47		34.08	34.08		75.1	74.0		5.77	5.69		1.36	1.35		3	
6/2/2014	17:30	Fine	Middle	2	18.80	18.80	18.85	8.52	8.52	8.52	34.97	34.97	34.97	72.1	72.7	73.0	5.44	5.49	5.51	0.88	0.90	0.90	4	3.50
	17:32		Middle	2	18.90	18.90		8.52	8.52		34.97	34.97		73.7	73.6		5.57	5.55		0.91	0.92		3	
8/2/2014	22:23	Cloudy	Middle	1	18.00	18.00	18.00	8.23	8.23	8.22	30.75	30.75	30.75	76.4	77.3	76.5	6.01	6.08	6.03	1.07	1.10	1.09	4	4.00
	22:24		Middle	1	18.00	18.00		8.21	8.21		30.75	30.75		76.4	76.0		6.01	6.00		1.08	1.12		4	
10/2/2014	23:58	Cloudy	Middle	1	13.00	13.00	13.00	8.24	8.24	8.23	28.78	28.78	28.79	57.9	58.3	58.2	5.10	5.15	5.14	2.62	2.65	2.60	2	2.50
	23:59		Middle	1	13.00	13.00		8.21	8.21		28.79	28.79		58.1	58.5		5.13	5.16		2.58	2.55		3	
12/2/2014	1:07	Cloudy	Middle	1	13.50	13.50	13.50	8.25	8.25	8.25	28.17	28.17	28.16	56.5	56.7	56.5	4.95	4.96	4.95	4.13	4.20	4.17	8	8.00
	1:08		Middle	1	13.50	13.50		8.24	8.24		28.15	28.15		56.5	56.3		4.94	4.93		4.16	4.18		8	
15/2/2014	2:40	Cloudy	Middle	1	13.90	13.90	13.90	7.99	7.99	7.99	27.68	27.69	27.69	50.6	50.6	50.7	4.41	4.41	4.42	3.01	3.04	3.08	2	2.50
	2:41		Middle	1	13.90	13.90		7.99	7.99		27.70	27.70		50.8	50.8		4.42	4.43		3.16	3.10		3	
17/2/2014	14:32	Cloudy	Middle	2	18.30	18.30	18.40	8.41	8.41	8.41	34.87	34.87	34.87	72.0	72.4	72.3	5.49	5.52	5.51	1.51	1.52	1.51	<2	<2
	14:34		Middle	2	18.50	18.50		8.41	8.41		34.87	34.87		72.6	72.3		5.53	5.51		1.51	1.51		<2	
19/2/2014	14:47	Cloudy	Middle	2	15.30	15.30	15.25	8.40	8.40	8.40	34.77	34.77	34.77	61.3	61.8	61.9	4.98	5.02	5.03	1.51	1.51	1.52	2	2.50
	14:49		Middle	2	15.20	15.20		8.40	8.40		34.77	34.77		62.1	62.3		5.05	5.06		1.52	1.52		3	
21/2/2014	15:17	Fine	Middle	2	16.80	16.80	16.80	8.39	8.39	8.39	35.20	35.20	35.20	64.8	65.5	65.4	5.13	5.17	5.16	1.93	1.95	1.97	3	3.00
	15:19		Middle	2	16.80	16.80		8.39	8.39		35.20	35.20		65.7	65.4		5.18	5.16		1.98	2.00		3	
24/2/2014	18:20	Cloudy	Middle	2	17.90	17.90	17.90	8.07	8.07	8.08	32.42	32.42	32.42	72.5	73.2	72.7	5.67	5.72	5.68	1.01	1.03	1.04	3	3.00
	18:21		Middle	2	17.90	17.90		8.08	8.08		32.42	32.42		72.5	72.4		5.67	5.66		1.05	1.07		3	
26/2/2014	23:26	Cloudy	Middle	1	18.70	18.70	18.70	8.21	8.20	8.20	30.70	30.71	30.70	59.7	60.9	60.8	4.63	4.73	4.72	1.78	1.76	1.72	4	4.00
	23:27		Middle	1	18.70	18.70		8.20	8.20		30.70	30.70		61.3	61.1		4.76	4.74		1.70	1.64		4	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at C1 - HKCEC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	23:35	Fine	Middle	3.0	16.60	16.60	16.60	8.35	8.34	8.34	33.08	33.08	33.09	87.8	87.4	87.3	7.01	6.99	6.98	4.17	4.13	4.12	3	3.50
	23:37		Middle	3.0	16.60	16.60		8.34	8.34		33.10	33.10		87.1	86.9		6.97	6.96		4.09	4.08		4	
4/2/2014	15:40	Fine	Middle	2.5	18.00	18.00	18.00	8.38	8.38	8.38	32.88	32.88	32.88	95.4	95.1	94.9	7.41	7.39	7.38	2.89	2.84	2.83	3	3.00
	15:42		Middle	2.5	18.00	18.00		8.38	8.38		32.88	32.88		94.7	94.3		7.37	7.35		2.81	2.77		3	
6/2/2014	16:39	Fine	Middle	2.5	18.50	18.50	18.50	8.40	8.40	8.40	33.41	33.41	33.41	84.7	96.2	94.2	6.50	7.38	7.23	3.33	3.30	3.32	3	3.50
	16:41		Middle	2.5	18.50	18.50		8.40	8.40		33.41	33.41		97.2	98.6		7.46	7.56		3.32	3.31		4	
8/2/2014	21:01	Cloudy	Middle	3.0	18.00	18.00	17.95	8.37	8.37	8.37	33.37	33.37	33.37	81.6	81.4	81.2	6.33	6.32	6.31	3.09	3.02	3.01	3	3.00
	21:03		Middle	3.0	17.90	17.90		8.36	8.36		33.37	33.37		81.0	80.7		6.30	6.28		2.99	2.93		3	
10/2/2014	22:44	Cloudy	Middle	3.0	15.90	15.90	15.75	8.45	8.45	8.45	33.73	33.73	33.72	83.2	83.0	83.0	6.71	6.70	6.72	3.31	3.29	3.26	4	3.50
	22:46		Middle	3.0	15.60	15.60		8.45	8.45		33.70	33.70		82.9	82.7		6.70	6.78		3.23	3.21		3	
12/2/2014	23:45	Cloudy	Middle	3.5	15.60	15.60	15.60	8.39	8.39	8.39	33.66	33.66	33.65	77.6	77.4	77.3	6.30	6.29	6.28	3.24	3.21	3.18	6	5.00
	23:47		Middle	3.5	15.60	15.60		8.39	8.39		33.64	33.64		77.2	76.8		6.28	6.26		3.16	3.11		4	
15/2/2014	0:59	Cloudy	Middle	3.0	15.30	15.30	15.25	8.40	8.40	8.40	33.62	33.62	33.63	81.6	81.4	81.2	6.62	6.61	6.60	3.42	3.47	3.42	4	4.00
	1:01		Middle	3.0	15.20	15.20		8.40	8.40		33.64	33.64		81.0	80.9		6.59	6.59		3.42	3.35		4	
17/2/2014	14:40	Cloudy	Middle	2.0	16.80	16.80	16.85	8.38	8.38	8.38	35.43	35.43	35.43	79.4	78.7	77.0	6.28	6.16	6.05	5.89	5.88	5.88	4	5.00
	14:42		Middle	2.0	16.90	16.90		8.37	8.37		35.42	35.42		73.6	76.2		5.77	5.99		5.87	5.86		6	
19/2/2014	14:56	Cloudy	Middle	2.5	15.70	15.70	15.70	8.33	8.33	8.33	33.01	33.01	33.01	87.9	86.9	86.8	7.10	7.05	7.04	4.75	4.72	4.75	5	4.50
	14:58		Middle	2.5	15.70	15.70		8.33	8.33		33.01	33.01		86.5	85.7		7.03	6.96		4.73	4.78		4	
21/2/2014	16:40	Fine	Middle	2.5	15.70	15.70	15.65	8.34	8.34	8.34	34.94	34.94	34.93	75.6	75.6	76.2	6.13	6.13	6.19	6.28	6.26	6.26	6	5.50
	16:42		Middle	2.5	15.60	15.60		8.34	8.34		34.92	34.92		76.7	76.7		6.25	6.25		6.26	6.24		5	
24/2/2014	20:33	Cloudy	Middle	3.0	16.30	16.30	16.35	8.38	8.38	8.38	33.97	33.97	33.98	88.3	87.9	87.8	7.03	7.01	7.01	5.19	5.20	5.17	4	3.50
	20:35		Middle	3.0	16.40	16.40		8.38	8.38		33.98	33.98		87.7	87.4		7.00	6.98		5.16	5.13		3	
26/2/2014	22:35	Cloudy	Middle	2.5	17.10	17.10	17.15	8.29	8.29	8.29	33.78	33.78	33.78	83.5	83.1	83.0	6.56	6.54	6.53	3.82	3.85	3.79	3	3.50
	22:37		Middle	2.5	17.20	17.20		8.29	8.29		33.77	33.77		82.9	82.5		6.51	6.49		3.77	3.72		4	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P1 - HKCEC Phase I
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	22:53	Fine	Middle	3.0	16.90	16.90	16.90	8.37	8.37	8.37	33.09	33.09	33.11	90.2	90.0	89.9	7.16	7.14	7.14	6.36	6.32	6.30	4	3.50
	22:55		Middle	3.0	16.90	16.90		8.37	8.37		33.13	33.13		89.7	89.5		7.13	7.12		6.24	6.28		3	
4/2/2014	16:12	Fine	Middle	2.5	18.30	18.30	18.25	8.40	8.40	8.40	32.93	32.93	32.92	95.3	95.1	95.1	7.37	7.36	7.36	5.90	5.85	5.85	3	3.50
	16:14		Middle	2.5	18.20	18.20		8.40	8.40		32.91	32.91		95.1	94.8		7.36	7.34		5.84	5.79		4	
6/2/2014	17:19	Fine	Middle	3.0	18.60	18.60	18.60	8.44	8.44	8.44	33.28	33.29	33.29	96.8	97.5	96.7	7.43	7.48	7.42	2.90	2.89	2.88	4	3.50
	17:21		Middle	3.0	18.60	18.60		8.44	8.44		33.28	33.29		96.9	95.7		7.41	7.34		2.86	2.87		3	
8/2/2014	20:08	Cloudy	Middle	3.0	18.20	18.20	18.20	8.40	8.40	8.40	33.36	33.36	33.37	87.6	87.4	87.3	6.76	6.75	6.74	4.89	4.83	4.82	5	4.50
	20:10		Middle	3.0	18.20	18.20		8.39	8.39		33.37	33.37		87.1	86.9		6.73	6.72		4.79	4.75		4	
10/2/2014	21:53	Cloudy	Middle	3.0	16.20	16.20	16.00	8.47	8.47	8.48	33.65	33.65	33.65	90.5	90.3	90.2	7.30	7.29	7.28	4.78	4.77	4.77	6	5.00
	21:55		Middle	3.0	15.80	15.80		8.48	8.48		33.64	33.64		90.1	89.7		7.28	7.26		4.78	4.74		4	
12/2/2014	22:57	Cloudy	Middle	3.5	15.40	15.40	15.30	8.35	8.35	8.37	33.56	33.56	33.55	82.6	82.3	82.2	6.74	6.72	6.71	7.24	7.21	7.19	5	5.00
	22:59		Middle	3.5	15.20	15.20		8.38	8.38		33.54	33.54		82.0	81.7		6.70	6.68		7.19	7.12		5	
15/2/2014	0:09	Cloudy	Middle	3.0	15.50	15.50	15.40	8.41	8.41	8.41	33.56	33.55	33.55	83.9	83.7	83.5	6.84	6.83	6.82	4.98	4.95	4.94	5	4.50
	0:11		Middle	3.0	15.30	15.30		8.41	8.41		33.54	33.54		83.3	83.0		6.81	6.79		4.91	4.90		4	
17/2/2014	15:17	Cloudy	Middle	2.5	16.90	16.90	16.90	8.34	8.34	8.34	33.20	33.20	33.21	76.0	75.2	75.0	6.04	5.96	5.94	4.82	4.85	4.85	4	4.00
	15:19		Middle	2.5	16.90	16.90		8.34	8.34		33.22	33.22		74.6	74.0		5.90	5.87		4.86	4.86		4	
19/2/2014	15:25	Cloudy	Middle	2.5	15.80	15.80	15.80	8.35	8.35	8.35	33.61	33.61	33.61	91.6	90.6	91.1	7.99	7.80	7.91	5.46	5.45	5.43	5	5.50
	15:27		Middle	2.5	15.80	15.80		8.35	8.35		33.61	33.61		91.2	90.9		7.96	7.88		5.39	5.40		6	
21/2/2014	17:18	Fine	Middle	2.5	15.80	15.80	15.75	8.34	8.34	8.35	33.38	33.38	33.39	75.4	74.1	74.0	6.09	5.98	5.98	5.70	5.68	5.71	5	5.00
	17:20		Middle	2.5	15.70	15.70		8.35	8.35		33.40	33.40		73.6	72.9		5.94	5.89		5.71	5.75		5	
24/2/2014	19:41	Cloudy	Middle	3.0	16.90	16.90	16.95	8.32	8.32	8.34	33.53	33.53	33.54	93.7	93.5	93.3	7.39	7.38	7.37	28.45	28.32	**28.32**	24	**24.50**
	19:43		Middle	3.0	17.00	17.00		8.35	8.35		33.55	33.55		93.1	92.8		7.36	7.34		28.27	28.25		25	
26/2/2014	23:01	Cloudy	Middle	2.5	17.00	17.00	17.05	8.39	8.39	8.35	33.80	33.80	33.84	93.5	93.2	93.0	7.36	7.34	7.33	4.62	4.62	4.60	5	5.00
	23:03		Middle	2.5	17.10	17.10		8.30	8.30		33.87	33.87		92.8	92.6		7.32	7.31		4.59	4.55		5	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P3 - APA
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	23:09	Fine	Middle	3.0	16.70	16.70	16.70	8.35	8.35	8.35	33.11	33.11	33.11	89.5	89.3	89.1	7.11	7.10	7.09	4.06	4.06	4.03	4	4.00
	23:11		Middle	3.0	16.70	16.70		8.35	8.35		33.11	33.11		88.9	88.7		7.08	7.07		4.02	3.99		4	
4/2/2014	16:05	Fine	Middle	2.5	18.00	18.00	18.00	8.40	8.40	8.40	32.92	32.92	32.92	96.4	96.2	96.0	7.49	7.48	7.47	3.26	3.20	3.21	4	4.00
	16:07		Middle	2.5	18.00	18.00		8.40	8.40		32.92	32.92		95.8	95.7		7.46	7.46		3.15	3.21		4	
6/2/2014	17:08	Fine	Middle	2.5	18.70	18.70	18.70	8.44	8.44	8.44	33.32	33.32	33.32	95.2	98.7	96.3	7.34	7.54	7.37	2.68	2.68	2.68	3	2.50
	17:10		Middle	2.5	18.70	18.70		8.44	8.44		33.32	33.32		97.7	93.6		7.46	7.15		2.68	2.68		2	
8/2/2014	20:30	Cloudy	Middle	3.0	18.00	18.00	17.95	8.38	8.38	8.38	33.36	33.36	33.35	86.5	86.2	86.2	6.71	6.69	6.69	4.74	4.72	4.72	5	5.00
	20:32		Middle	3.0	17.90	17.90		8.38	8.38		33.34	33.34		86.0	85.9		6.68	6.67		4.74	4.68		5	
10/2/2014	22:09	Cloudy	Middle	3.0	16.40	16.40	16.20	8.47	8.47	8.47	33.63	33.63	33.62	89.4	89.1	88.8	7.16	7.14	7.13	5.20	5.16	5.15	6	6.00
	22:11		Middle	3.0	16.00	16.00		8.47	8.47		33.60	33.60		88.6	88.2		7.11	7.09		5.11	5.14		6	
12/2/2014	23:13	Cloudy	Middle	3.5	15.80	15.80	15.70	8.39	8.39	8.40	33.64	33.64	33.62	80.3	80.0	79.9	6.45	6.43	5.93	5.15	5.18	5.13	5	5.50
	23:15		Middle	3.5	15.60	15.60		8.40	8.40		33.59	33.59		79.9	79.5		6.43	4.41		5.11	5.09		6	
15/2/2014	0:30	Cloudy	Middle	3.0	15.60	15.60	15.40	8.41	8.41	8.41	33.55	33.55	33.55	82.7	82.5	82.3	6.75	6.73	6.72	3.97	3.94	4.67	6	5.50
	0:32		Middle	3.0	15.20	15.20		8.41	8.41		33.55	33.55		82.2	81.8		6.71	6.68		3.91	6.84		5	
17/2/2014	15:05	Cloudy	Middle	2.5	16.90	16.90	16.95	8.34	8.34	8.34	33.54	33.54	33.52	80.3	79.0	78.7	6.37	6.29	6.25	4.88	4.89	4.93	3	3.00
	15:07		Middle	2.5	17.00	17.00		8.34	8.34		33.50	33.50		78.0	77.3		6.21	6.12		4.97	4.98		3	
19/2/2014	15:17	Cloudy	Middle	2.5	15.80	15.80	15.80	8.33	8.33	8.33	33.62	33.62	33.62	91.6	91.2	90.7	7.48	7.40	7.36	6.56	6.55	6.55	5	6.00
	15:19		Middle	2.5	15.80	15.80		8.33	8.33		33.62	33.62		90.3	89.6		7.31	7.26		6.54	6.53		7	
21/2/2014	17:05	Fine	Middle	3.0	15.70	15.70	15.65	8.33	8.33	8.34	33.81	33.81	33.82	79.0	79.5	79.1	6.39	6.44	6.41	5.49	5.52	5.52	7	6.50
	17:07		Middle	3.0	15.60	15.60		8.34	8.34		33.82	33.82		79.1	78.9		6.41	6.39		5.53	5.54		6	
24/2/2014	19:55	Cloudy	Middle	3.0	16.40	16.40	16.45	8.37	8.37	8.38	33.95	33.95	33.95	92.3	92.0	91.9	7.34	7.32	7.31	24.05	24.01	**23.99**	21	**21.00**
	19:57		Middle	3.0	16.50	16.50		8.38	8.38		33.95	33.95		91.7	91.5		7.30	7.29		23.96	23.95		21	
26/2/2014	22:55	Cloudy	Middle	2.5	16.90	16.90	16.95	8.30	8.30	8.30	33.79	33.79	33.79	83.6	83.3	83.2	6.60	6.57	6.57	3.66	3.63	3.62	5	5.50
	22:57		Middle	2.5	17.00	17.00		8.29	8.29		33.79	33.79		83.2	82.8		6.57	6.55		3.60	3.57		6	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P4 - SOC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	23:19	Fine	Middle	3.0	16.80	16.80	16.75	8.36	8.36	8.36	33.12	33.12	33.11	90.7	90.6	90.2	7.22	7.22	7.21	4.63	4.61	4.59	4	3.00
	23:21		Middle	3.0	16.70	16.70		8.36	8.36		33.10	33.10		89.9	89.5		7.20	7.18		4.58	4.53		2	
4/2/2014	15:57	Fine	Middle	2.5	18.00	18.00	18.00	8.39	8.39	8.39	32.87	32.87	32.87	94.8	94.6	94.5	7.87	7.86	7.85	2.95	2.98	2.94	4	4.00
	15:59		Middle	2.5	18.00	18.00		8.39	8.39		32.87	32.87		94.3	94.1		7.84	7.83		2.95	2.86		4	
6/2/2014	16:55	Fine	Middle	2.5	18.60	18.60	18.60	8.43	8.43	8.43	33.35	33.35	33.35	94.6	94.2	95.6	7.26	7.22	7.33	2.76	2.74	2.75	5	4.50
	16:57		Middle	2.5	18.60	18.60		8.43	8.43		33.35	33.35		96.8	96.7		7.43	7.42		2.75	2.75		4	
8/2/2014	20:44	Cloudy	Middle	3.0	18.30	18.30	18.25	8.38	8.38	8.38	33.34	33.34	33.34	88.1	87.8	87.7	6.80	6.78	6.78	4.12	4.11	4.07	7	6.50
	20:46		Middle	3.0	18.20	18.20		8.38	8.38		33.34	33.34		87.4	87.3		6.76	6.76		4.05	4.01		6	
10/2/2014	22:25	Cloudy	Middle	3.0	16.40	16.40	16.25	8.47	8.47	8.48	33.59	33.59	33.60	89.1	88.7	88.7	7.15	7.13	7.13	5.02	4.99	4.98	5	5.00
	22:27		Middle	3.0	16.10	16.10		8.48	8.48		33.61	33.61		88.5	88.4		7.12	7.12		4.96	4.93		5	
12/2/2014	23:29	Cloudy	Middle	3.5	15.70	15.70	15.55	8.39	8.39	8.40	33.60	33.60	33.60	83.2	82.8	82.7	6.76	6.74	6.74	5.47	5.43	5.41	6	6.50
	23:31		Middle	3.5	15.40	15.40		8.40	8.40		33.60	33.60		82.5	82.4		6.72	6.72		5.38	5.36		7	
15/2/2014	0:43	Cloudy	Middle	3.0	15.50	15.50	15.50	8.44	8.44	8.44	33.61	33.61	33.60	84.8	84.6	84.5	6.90	6.89	6.89	4.42	4.38	4.38	5	4.50
	0:45		Middle	3.0	15.50	15.50		8.43	8.43		33.59	33.59		84.4	84.2		6.88	6.87		4.40	4.31		4	
17/2/2014	14:56	Cloudy	Middle	2.5	16.80	16.80	16.80	8.34	8.34	8.34	33.46	33.48	33.48	79.6	78.2	78.1	6.30	6.19	6.18	4.99	5.00	5.00	4	3.00
	14:58		Middle	2.5	16.80	16.80		8.34	8.34		33.48	33.48		77.8	76.8		6.16	6.08		5.01	5.00		2	
19/2/2014	15:08	Cloudy	Middle	2.5	15.90	15.90	15.90	8.33	8.33	8.33	33.63	33.63	33.63	76.9	78.6	78.2	6.20	6.36	6.32	5.56	5.55	5.55	4	5.00
	15:10		Middle	2.5	15.90	15.90		8.33	8.33		33.63	33.63		78.7	78.6		6.36	6.35		5.55	5.54		6	
21/2/2014	16:55	Fine	Middle	3.0	15.70	15.70	15.65	8.33	8.33	8.33	33.19	33.19	33.20	72.7	73.4	72.9	5.90	5.96	5.91	4.92	4.92	4.93	5	4.50
	16:57		Middle	3.0	15.60	15.60		8.33	8.33		33.20	33.20		73.0	72.3		5.92	5.87		4.92	4.94		4	
24/2/2014	20:05	Cloudy	Middle	3.0	16.30	16.30	16.35	8.36	8.36	8.37	33.97	33.97	33.98	95.4	95.1	95.0	7.60	7.58	7.58	8.01	8.01	7.99	4	4.50
	20:07		Middle	3.0	16.40	16.40		8.38	8.38		33.98	33.98		94.9	94.7		7.57	7.56		7.98	7.94		5	
26/2/2014	22:47	Cloudy	Middle	2.5	16.90	16.90	16.95	8.29	8.29	8.29	33.79	33.79	33.80	83.4	83.1	83.0	6.59	6.57	6.57	3.94	3.89	3.87	6	5.00
	22:49		Middle	2.5	17.00	17.00		8.29	8.29		33.80	33.80		82.9	82.7		6.56	6.55		3.83	3.82		4	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at P5 - WCT / RT / IT
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	23:28	Fine	Middle	3.0	16.70	16.70	16.70	8.35	8.35	8.35	33.08	33.08	33.09	90.6	90.2	90.0	7.21	7.19	7.18	4.30	4.27	4.25	4	4.00
	23:30		Middle	3.0	16.70	16.70		8.34	8.34		33.09	33.09		89.7	89.3		7.16	7.14		4.24	4.19		4	
4/2/2014	15:51	Fine	Middle	2.5	18.00	18.00	18.00	8.39	8.39	8.39	32.89	32.89	32.89	97.0	96.8	96.6	7.64	7.63	7.62	3.39	3.40	3.37	3	3.50
	15:53		Middle	2.5	18.00	18.00		8.39	8.39		32.89	32.89		96.5	96.1		7.61	7.58		3.37	3.32		4	
6/2/2014	16:49	Fine	Middle	2.5	18.60	18.60	18.60	8.42	8.42	8.42	33.37	33.37	33.37	98.7	99.2	98.8	7.61	7.71	7.61	3.15	3.14	3.15	3	4.00
	16:51		Middle	2.5	18.60	18.60		8.42	8.42		33.37	33.37		99.5	97.8		7.62	7.49		3.14	3.15		5	
8/2/2014	20:53	Cloudy	Middle	3.0	18.10	18.10	18.00	8.37	8.37	8.37	33.34	33.34	33.33	89.1	88.9	88.8	6.91	6.90	6.89	4.51	4.46	4.45	6	5.50
	20:55		Middle	3.0	17.90	17.90		8.37	8.37		33.32	33.32		88.6	88.4		6.88	6.87		4.42	4.40		5	
10/2/2014	22:35	Cloudy	Middle	3.0	16.30	16.30	16.10	8.46	8.46	8.47	33.60	33.60	33.59	88.2	87.9	87.8	7.08	7.06	7.06	4.51	4.52	4.50	5	5.50
	22:37		Middle	3.0	15.90	15.90		8.47	8.47		33.57	33.57		87.7	87.4		7.05	7.03		4.52	4.46		6	
12/2/2014	23:37	Cloudy	Middle	3.5	15.80	15.80	15.65	8.40	8.40	8.40	33.62	33.62	33.62	82.1	81.8	81.7	6.67	6.65	6.65	5.08	5.06	5.04	6	6.50
	23:39		Middle	3.5	15.50	15.50		8.40	8.40		33.61	33.61		81.6	81.4		6.64	6.63		5.02	4.98		7	
15/2/2014	0:52	Cloudy	Middle	3.0	15.60	15.60	15.50	8.40	8.40	8.40	33.54	33.54	33.54	88.8	88.3	88.2	7.22	7.29	7.21	4.20	4.16	4.15	5	4.50
	0:54		Middle	3.0	15.40	15.40		8.40	8.40		33.54	33.54		87.9	87.7		7.17	7.16		4.13	4.11		4	
17/2/2014	14:49	Cloudy	Middle	2.5	16.90	16.80	16.93	8.37	8.37	8.36	33.42	33.42	33.41	75.1	74.3	76.0	5.94	5.86	6.01	5.36	5.35	5.35	3	3.50
	14:51		Middle	2.5	17.00	17.00		8.34	8.34		33.40	33.40		78.1	76.6		6.19	6.05		5.34	5.33		4	
19/2/2014	15:03	Cloudy	Middle	2.5	15.80	15.80	15.80	8.34	8.34	8.34	33.62	33.62	33.62	86.2	86.2	86.2	6.98	6.99	6.99	4.87	4.89	4.89	3	4.00
	15:05		Middle	2.5	15.80	15.80		8.34	8.34		33.62	33.62		86.1	86.4		6.98	7.00		4.90	4.90		5	
21/2/2014	16:50	Fine	Middle	3.0	15.60	15.60	15.60	8.34	8.34	8.34	33.82	33.82	33.82	76.1	75.7	75.2	6.17	6.14	6.09	6.16	6.15	6.15	7	6.50
	16:52		Middle	3.0	15.60	15.60		8.34	8.34		33.81	33.81		74.7	74.2		6.05	6.01		6.15	6.12		6	
24/2/2014	20:18	Cloudy	Middle	3.0	16.30	16.30	16.35	8.38	8.38	8.38	33.97	33.97	33.96	89.2	89.1	88.8	7.11	7.11	7.09	4.73	4.66	4.66	3	4.00
	20:20		Middle	3.0	16.40	16.40		8.38	8.38		33.94	33.94		88.6	88.2		7.08	7.06		4.63	4.60		5	
26/2/2014	22:42	Cloudy	Middle	2.5	17.00	17.00	17.00	8.29	8.29	8.29	33.80	33.80	33.83	82.3	82.1	81.8	6.49	6.48	6.46	3.27	3.24	3.23	4	3.50
	22:44		Middle	2.5	17.00	17.00		8.29	8.29		33.85	33.85		81.6	81.2		6.45	6.43		3.22	3.18		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	0:30	Fine	Middle	3.0	17.10	17.10	17.10	8.15	8.15	8.16	32.17	32.17	32.18	87.4	87.5	87.4	6.94	6.95	6.94	1.76	1.62	1.57	5	5.50
	0:31		Middle	3.0	17.10	17.10		8.16	8.16		32.18	32.18		87.3	87.2		6.94	6.93		1.42	1.49		6	
4/2/2014	15:27	Fine	Middle	3.5	18.20	18.20	18.20	8.56	8.56	8.57	35.04	35.04	35.04	85.7	84.7	84.9	6.56	6.48	6.50	1.78	1.74	1.74	3	3.00
	15:29		Middle	3.5	18.20	18.20		8.57	8.57		35.04	35.04		84.9	84.4		6.49	6.45		1.72	1.72		3	
6/2/2014	16:48	Fine	Middle	2.5	18.90	18.90	18.95	8.56	8.56	8.57	35.58	35.58	35.56	87.9	88.2	87.6	6.61	6.63	6.59	1.45	1.47	1.48	3	2.50
	16:50		Middle	2.5	19.00	19.00		8.57	8.57		35.54	35.54		87.6	86.7		6.58	6.52		1.48	1.53		2	
8/2/2014	21:38	Cloudy	Middle	3.0	18.20	18.20	18.20	8.21	8.21	8.21	32.41	32.42	32.41	83.6	83.4	83.1	6.50	6.48	6.47	1.63	1.76	1.59	5	4.00
	21:39		Middle	3.0	18.20	18.20		8.20	8.20		32.41	32.41		82.5	83.0		6.41	6.47		1.47	1.49		3	
10/2/2014	23:12	Cloudy	Middle	3.0	12.60	12.60	12.60	8.18	8.18	8.20	32.51	32.51	32.51	80.3	81.2	81.0	6.97	7.06	7.04	2.63	2.69	2.64	8	9.00
	23:13		Middle	3.0	12.60	12.60		8.22	8.22		32.51	32.51		81.3	81.2		7.06	7.05		2.66	2.57		10	
12/2/2014	0:30	Cloudy	Middle	3.0	13.40	13.40	13.40	7.99	7.99	8.00	32.33	32.33	32.33	77.7	77.6	78.2	6.54	6.52	6.63	2.34	2.37	2.32	6	6.00
	0:31		Middle	3.0	13.40	13.40		8.01	8.01		32.33	32.33		78.5	78.9		6.70	6.74		2.30	2.28		6	
15/2/2014	1:58	Cloudy	Middle	3.0	13.80	13.80	13.80	8.05	8.05	8.06	32.44	32.44	32.44	75.6	75.6	75.9	6.39	6.39	6.42	1.31	1.28	1.24	4	4.00
	1:59		Middle	3.0	13.80	13.80		8.07	8.07		32.44	32.44		76.1	76.1		6.44	6.44		1.26	1.12		4	
17/2/2014	13:55	Cloudy	Middle	3.5	18.10	18.10	18.20	8.42	8.42	8.43	35.79	35.79	35.79	81.3	81.8	81.5	6.19	6.22	6.20	1.88	1.87	1.87	4	3.50
	13:57		Middle	3.5	18.30	18.30		8.43	8.43		35.78	35.78		81.8	80.9		6.22	6.15		1.86	1.86		3	
19/2/2014	14:10	Cloudy	Middle	3.5	15.20	15.20	15.20	8.44	8.44	8.44	35.88	35.88	35.88	75.5	75.8	75.2	6.11	6.14	6.13	3.98	3.84	3.82	4	4.50
	14:12		Middle	3.5	15.20	15.20		8.44	8.44		35.88	35.88		73.9	75.7		6.15	6.13		3.73	3.71		5	
21/2/2014	14:45	Fine	Middle	3.5	16.00	16.00	16.00	8.46	8.46	8.47	35.95	35.95	35.96	81.2	81.4	81.5	6.45	6.46	6.47	3.64	3.65	3.65	3	3.50
	14:47		Middle	3.5	16.00	16.00		8.47	8.47		35.96	35.96		81.6	81.8		6.47	6.49		3.65	3.65		4	
24/2/2014	19:45	Cloudy	Middle	3.5	17.40	17.40	17.40	8.18	8.18	8.19	32.99	32.99	32.99	92.0	91.7	91.2	7.24	7.21	7.17	1.84	1.82	1.80	3	3.00
	19:46		Middle	3.5	17.40	17.40		8.19	8.19		32.99	32.99		90.7	90.3		7.13	7.10		1.76	1.79		3	
26/2/2014	23:00	Cloudy	Middle	3.0	18.90	18.90	18.93	7.91	7.91	7.93	32.61	32.61	32.61	79.4	79.7	79.6	6.07	6.09	6.08	1.65	2.01	1.80	4	3.50
	23:01		Middle	3.0	18.90	19.00		7.95	7.95		32.61	32.61		79.4	79.8		6.07	6.10		1.70	1.84		3	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Water Monitoring Result at WSD 21 - Wan Chai
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	0:05	Fine	Middle	1.5	17.00	17.00	16.95	8.37	8.37	8.38	31.67	31.67	31.66	70.3	69.9	69.9	5.62	5.60	5.60	7.10	7.06	7.03	8	7.50
	0:07		Middle	1.5	16.90	16.90		8.39	8.39		31.64	31.64		69.8	69.6		5.60	5.58		7.02	6.95		7	
4/2/2014	15:22	Fine	Middle	1.5	18.60	18.60	18.55	8.35	8.35	8.35	32.71	32.71	32.71	90.7	90.4	90.3	6.98	6.96	6.96	3.09	3.11	3.07	4	4.00
	15:24		Middle	1.5	18.50	18.50		8.35	8.35		32.71	32.71		90.2	89.9		6.95	6.93		3.04	3.03		4	
6/2/2014	16:08	Fine	Middle	2.0	18.60	18.60	18.60	8.39	8.39	8.39	33.32	33.32	33.32	88.7	90.8	90.4	6.80	6.96	6.93	3.78	3.79	3.80	6	5.00
	16:10		Middle	2.0	18.60	18.60		8.39	8.39		33.32	33.32		91.2	90.8		6.99	6.95		3.82	3.80		4	
8/2/2014	21:43	Cloudy	Middle	1.5	18.30	18.30	18.25	8.33	8.33	8.32	31.56	31.56	31.57	69.1	68.8	68.6	5.39	5.37	5.36	26.16	26.11	**26.09**	21	**20.50**
	21:45		Middle	1.5	18.20	18.20		8.31	8.31		31.57	31.57		68.4	68.1		5.35	5.33		26.07	26.00		20	
10/2/2014	23:30	Cloudy	Middle	2.0	15.20	15.20	15.10	8.41	8.41	8.41	32.00	32.00	31.99	76.3	76.1	75.7	6.33	6.32	6.29	11.03	10.58	**10.67**	13	12.00
	23:32		Middle	2.0	15.00	15.00		8.40	8.40		31.98	31.98		75.4	74.9		6.27	6.24		10.55	10.52		11	
12/2/2014	0:20	Cloudy	Middle	2.0	15.80	15.80	15.70	8.40	8.40	8.40	33.63	33.63	33.63	75.8	75.6	75.4	6.14	6.13	6.11	4.87	4.89	4.85	8	7.50
	0:22		Middle	2.0	15.60	15.60		8.40	8.40		33.62	33.62		75.2	74.9		6.10	6.08		4.84	4.80		7	
15/2/2014	1:32	Cloudy	Middle	2.0	15.60	15.60	15.50	8.41	8.41	8.41	33.51	33.51	33.52	77.1	76.7	76.6	6.29	6.27	6.26	4.12	4.20	4.14	4	5.00
	1:34		Middle	2.0	15.40	15.40		8.41	8.41		33.52	33.52		76.4	76.1		6.25	6.23		4.17	4.08		6	
17/2/2014	14:14	Cloudy	Middle	1.5	17.10	17.10	17.10	8.48	8.48	8.46	33.30	33.30	33.30	65.8	65.7	66.3	5.19	5.19	5.23	6.93	6.94	7.13	12	12.00
	14:16		Middle	1.5	17.10	17.10		8.44	8.44		33.30	33.30		67.1	66.4		5.30	5.24		7.25	7.40		12	
19/2/2014	14:32	Cloudy	Middle	1.5	15.70	15.70	15.70	8.34	8.34	8.34	33.48	33.48	33.48	80.5	78.7	79.4	6.52	6.44	6.47	6.94	6.92	6.93	5	4.50
	14:34		Middle	1.5	15.70	15.70		8.34	8.34		33.48	33.48		79.0	79.2		6.45	6.46		6.94	6.93		4	
21/2/2014	16:12	Fine	Middle	1.5	16.30	16.30	16.30	8.32	8.32	8.33	33.22	33.22	33.22	67.9	67.6	68.1	5.45	5.42	5.46	5.97	5.92	5.93	9	8.50
	16:14		Middle	1.5	16.30	16.30		8.33	8.33		33.21	33.21		68.9	68.0		5.52	5.45		5.91	5.92		8	
24/2/2014	21:01	Cloudy	Middle	1.5	16.60	16.60	16.60	8.37	8.37	8.37	32.99	32.99	32.99	75.7	75.3	75.3	6.04	6.02	6.02	5.42	5.38	5.35	5	4.50
	21:03		Middle	1.5	16.60	16.60		8.36	8.36		32.99	32.99		75.2	74.9		6.02	6.00		5.33	5.27		4	
26/2/2014	22:09	Cloudy	Middle	1.5	17.20	17.20	17.20	8.30	8.30	8.30	32.87	32.87	32.87	69.4	69.2	69.1	5.48	5.47	5.46	4.45	4.41	4.40	4	4.50
	22:11		Middle	1.5	17.20	17.20		8.29	8.29		32.87	32.87		68.9	68.7		5.45	5.44		4.37	4.36		5	

Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

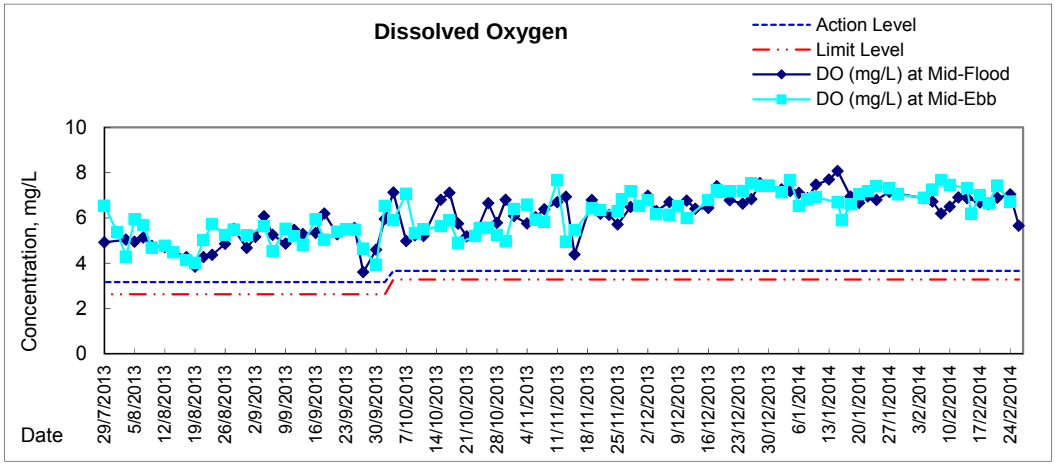
Water Monitoring Result at WSD19 - Sheung Wan
Mid-Ebb Tide

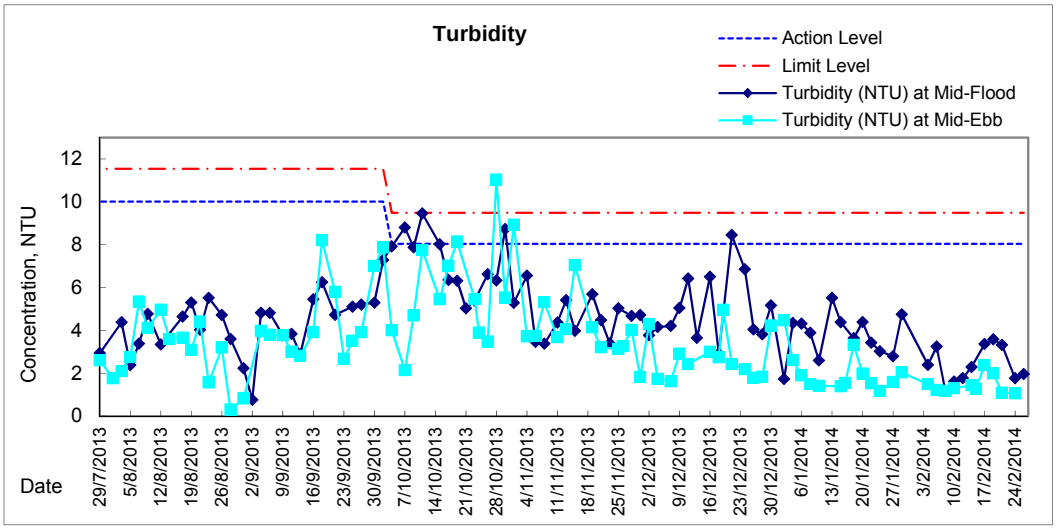
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/1/2014	2:18	Fine	Middle	1.5	16.80	16.80	16.80	8.11	8.11	8.11	32.04	32.04	32.04	85.1	85.4	85.0	6.80	6.83	6.80	4.38	4.88	4.41	5	5.50
	2:19		Middle	1.5	16.80	16.80		8.11	8.11		32.04	32.04		85.3	84.3		6.82	6.74		4.23	4.15		6	
4/2/2014	15:00	Fine	Middle	3.5	18.10	18.10	18.15	8.55	8.55	8.55	34.37	34.37	34.35	81.8	81.2	81.3	6.29	6.24	6.25	2.41	2.49	2.51	3	3.00
	15:02		Middle	3.5	18.20	18.20		8.55	8.55		34.33	34.33		80.1	82.1		6.15	6.31		2.47	2.66		3	
6/2/2014	16:19	Fine	Middle	3.5	19.30	19.30	19.35	8.53	8.53	8.54	35.38	35.38	35.35	89.9	90.4	90.0	6.71	6.75	6.72	2.85	2.78	2.79	5	4.00
	16:21		Middle	3.5	19.40	19.40		8.54	8.54		35.32	35.32		90.1	89.6		6.72	6.69		2.77	2.76		3	
8/2/2014	23:40	Cloudy	Middle	1.5	17.90	17.90	17.90	8.22	8.22	8.22	32.20	32.20	32.20	84.7	85.6	85.7	6.62	6.69	6.69	1.97	1.85	1.94	3	3.50
	23:41		Middle	1.5	17.90	17.90		8.22	8.22		32.20	32.20		86.6	85.7		6.76	6.70		2.10	1.82		4	
10/2/2014	1:10	Cloudy	Middle	1.5	13.40	13.40	13.35	8.19	8.19	8.20	32.51	32.52	32.51	80.4	81.8	81.8	6.87	7.00	7.00	2.31	2.46	2.52	5	4.00
	1:11		Middle	1.5	13.30	13.30		8.20	8.20		32.51	32.51		82.6	82.5		7.06	7.05		2.73	2.58		3	
12/2/2014	2:25	Cloudy	Middle	1.5	14.40	14.40	14.40	8.28	8.28	8.28	32.33	32.33	32.37	80.0	80.2	80.1	6.71	6.72	6.71	2.68	2.83	2.72	6	6.00
	2:26		Middle	1.5	14.40	14.40		8.27	8.27		32.40	32.40		80.1	80.1		6.71	6.71		2.71	2.66		6	
15/2/2014	3:40	Cloudy	Middle	1.5	14.60	14.60	14.55	8.24	8.24	8.24	32.68	32.68	32.68	77.6	77.9	78.0	6.47	6.49	6.51	2.49	2.51	2.50	3	4.00
	3:41		Middle	1.5	14.50	14.50		8.23	8.23		32.68	32.68		78.5	78.1		6.55	6.51		2.53	2.45		5	
17/2/2014	13:35	Cloudy	Middle	3.0	19.40	19.40	19.50	8.34	8.34	8.35	35.88	35.88	35.89	82.1	82.4	81.9	6.09	6.12	6.07	2.76	2.67	2.69	3	3.00
	13:37		Middle	3.0	19.60	19.60		8.36	8.36		35.89	35.89		81.6	81.4		6.04	6.03		2.66	2.65		3	
19/2/2014	13:40	Cloudy	Middle	3.5	14.80	14.80	14.70	8.40	8.40	8.41	35.66	35.66	35.67	68.0	68.3	68.3	5.54	5.57	5.57	6.88	7.10	6.98	6	5.00
	13:42		Middle	3.5	14.60	14.60		8.42	8.42		35.67	35.67		68.5	68.4		5.59	5.58		7.02	6.91		4	
21/2/2014	14:20	Fine	Middle	3.5	16.50	16.50	16.50	8.40	8.40	8.40	35.80	35.80	35.80	73.2	72.8	72.7	5.75	5.72	5.72	2.50	2.44	2.44	5	5.50
	14:22		Middle	3.5	16.50	16.50		8.40	8.40		35.80	35.80		72.5	72.4		5.70	5.70		2.42	2.41		6	
24/2/2014	21:05	Cloudy	Middle	1.5	17.00	17.00	17.05	8.30	8.30	8.30	33.01	33.01	33.00	82.1	83.2	83.2	6.49	6.62	6.56	4.51	4.41	4.33	7	6.50
	21:06		Middle	1.5	17.10	17.10		8.30	8.30		32.99	32.98		83.5	83.9		6.57	6.55		4.25	4.16		6	
26/2/2014	1:15	Cloudy	Middle	1.5	17.80	17.80	17.85	8.17	8.17	8.17	32.84	32.84	32.81	81.2	81.0	81.4	6.32	6.31	6.34	3.42	3.31	3.28	4	4.50
	1:16		Middle	1.5	17.90	17.90		8.17	8.17		32.78	32.78		81.6	81.7		6.35	6.36		3.21	3.18		5	

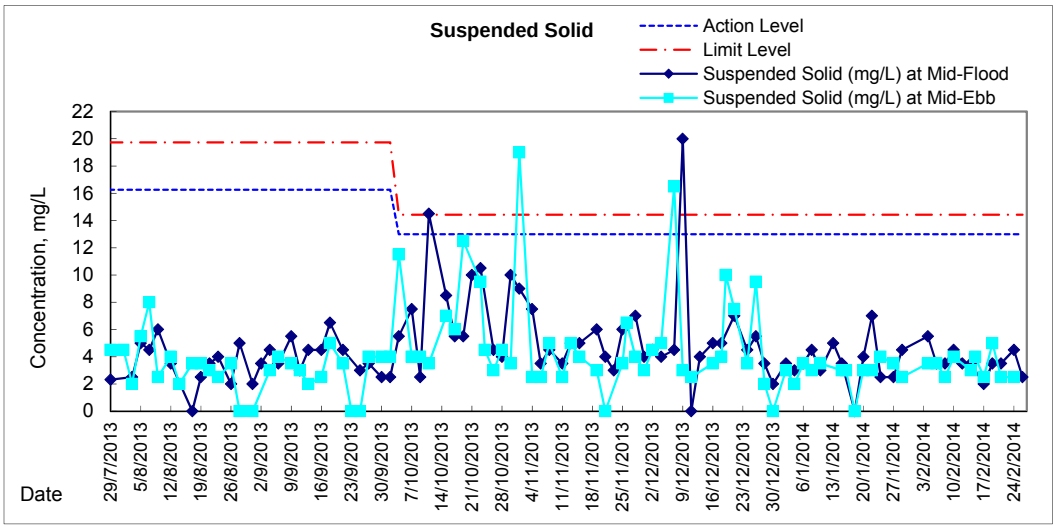
Remarks:
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

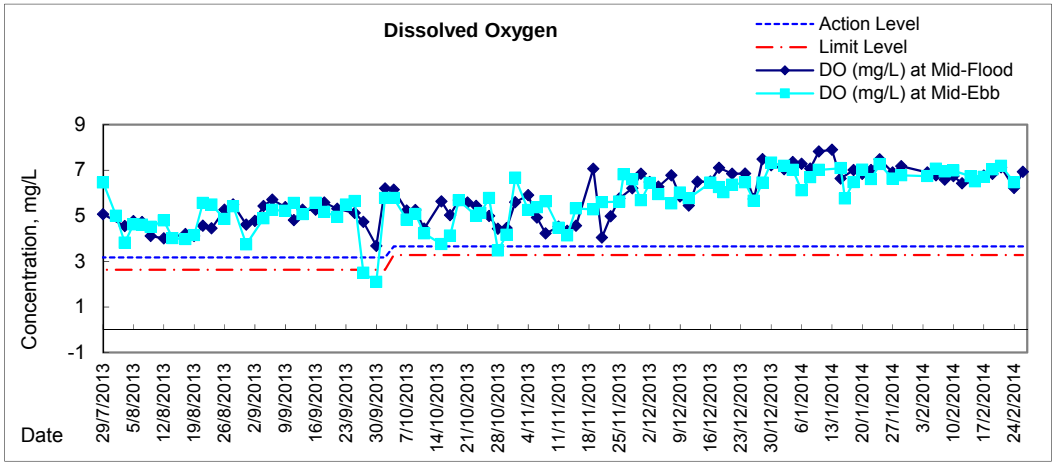
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

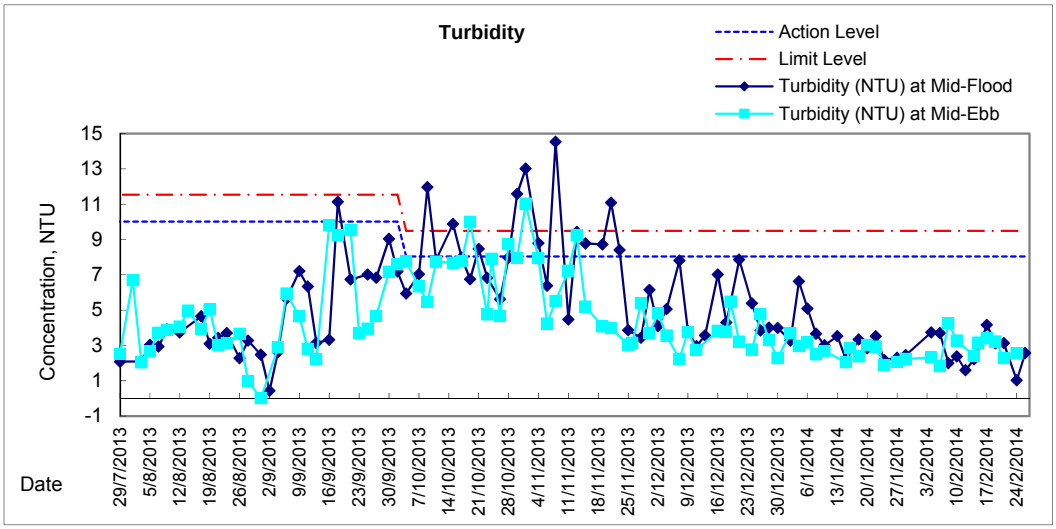


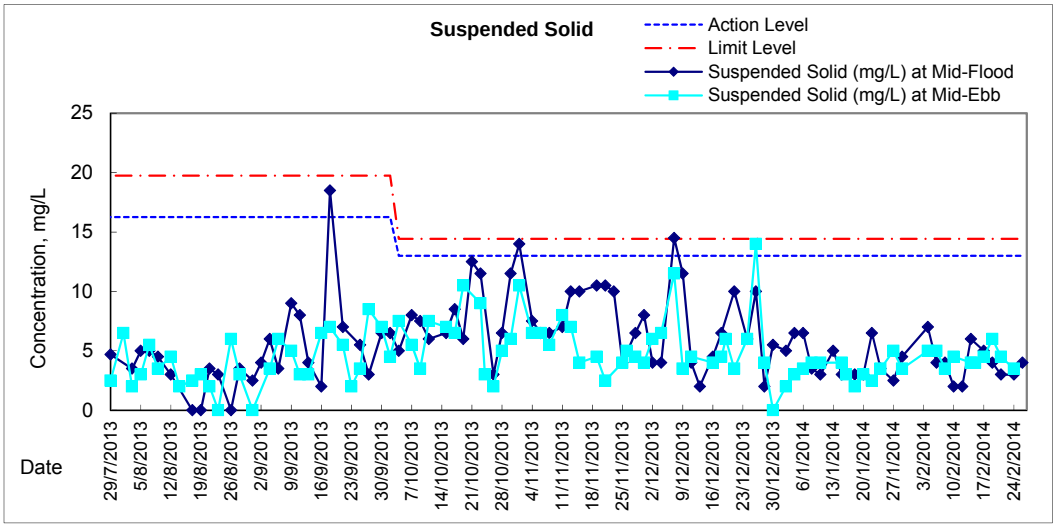




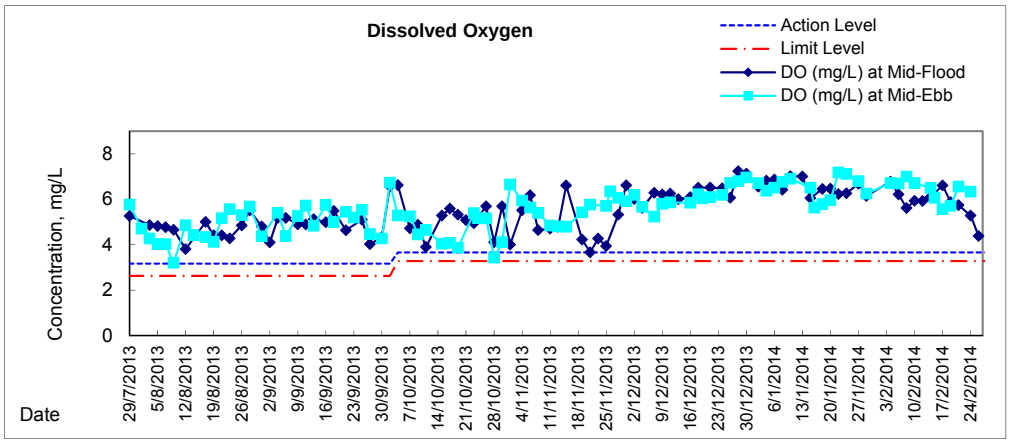
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

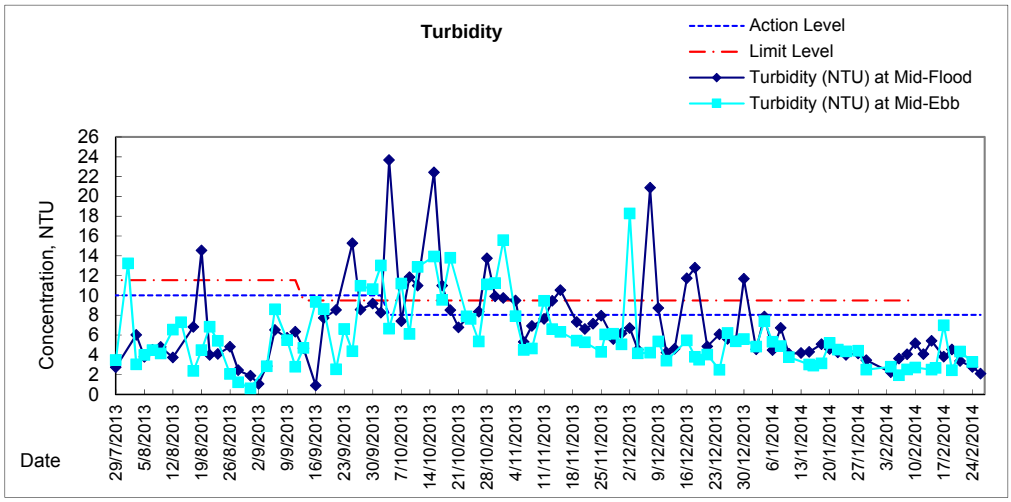


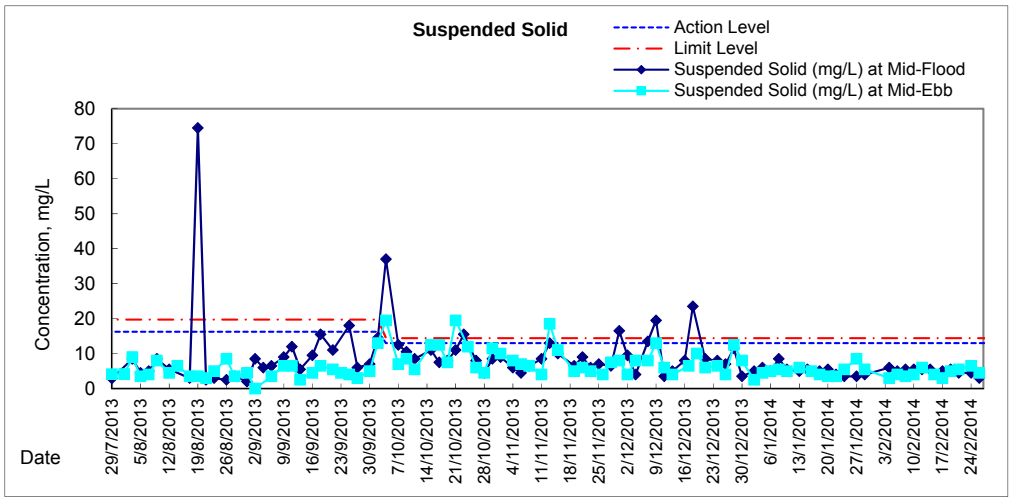




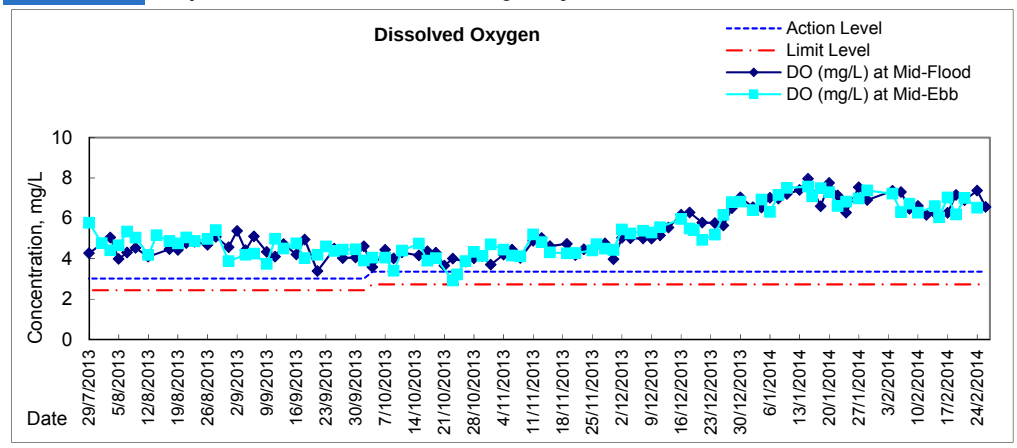
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

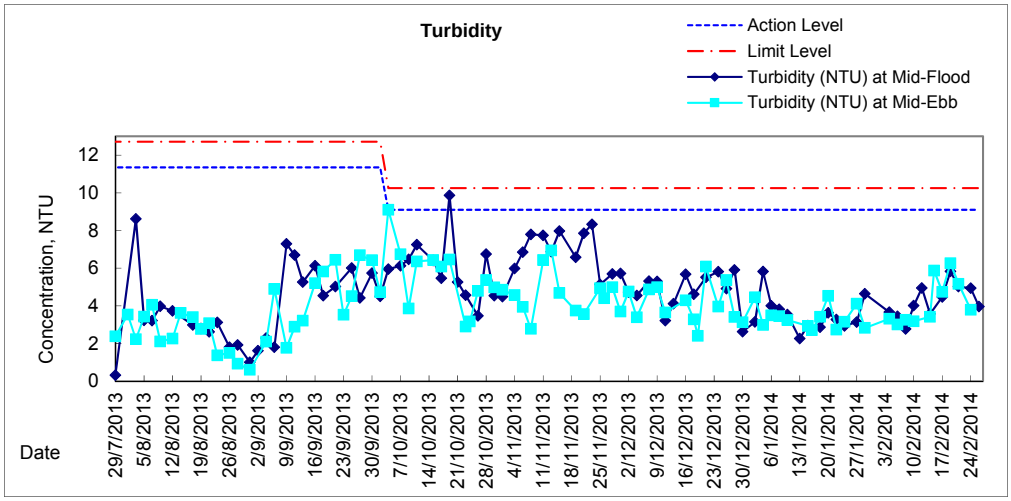


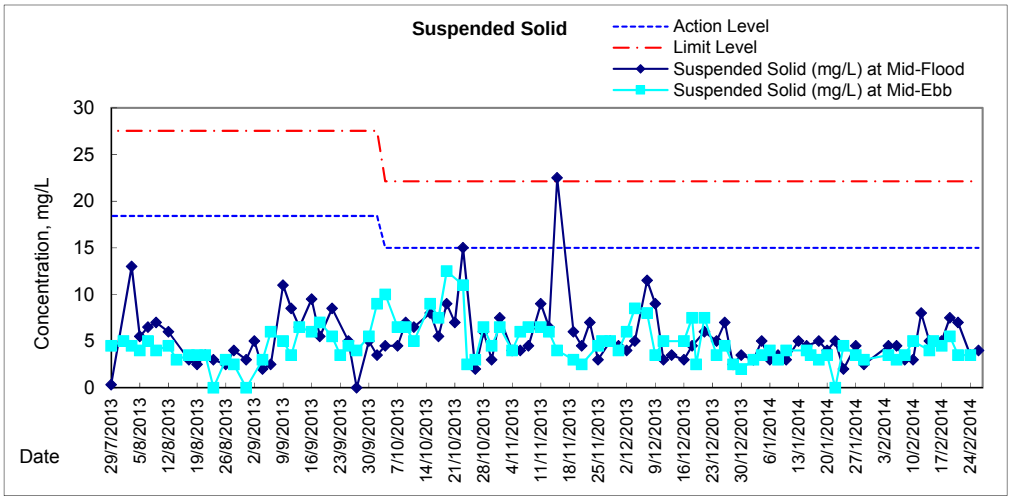




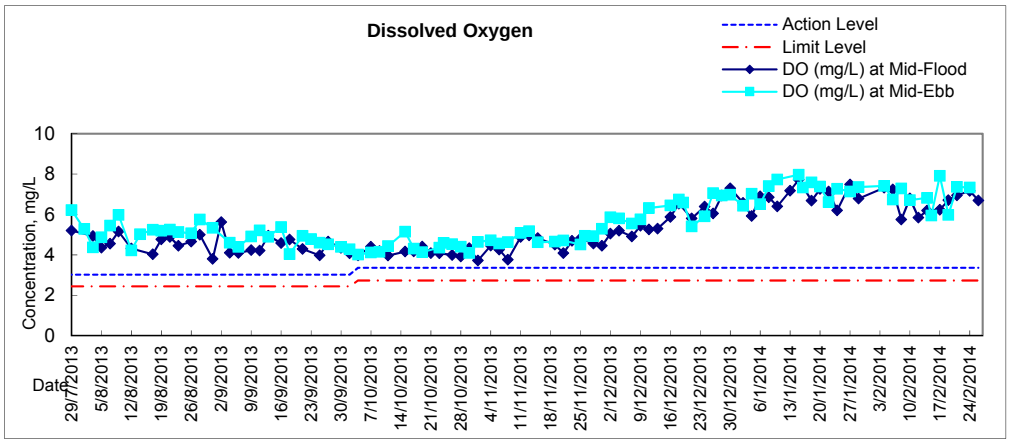
Graphic Presentation of Water Quality Result of C1 - HKCEC

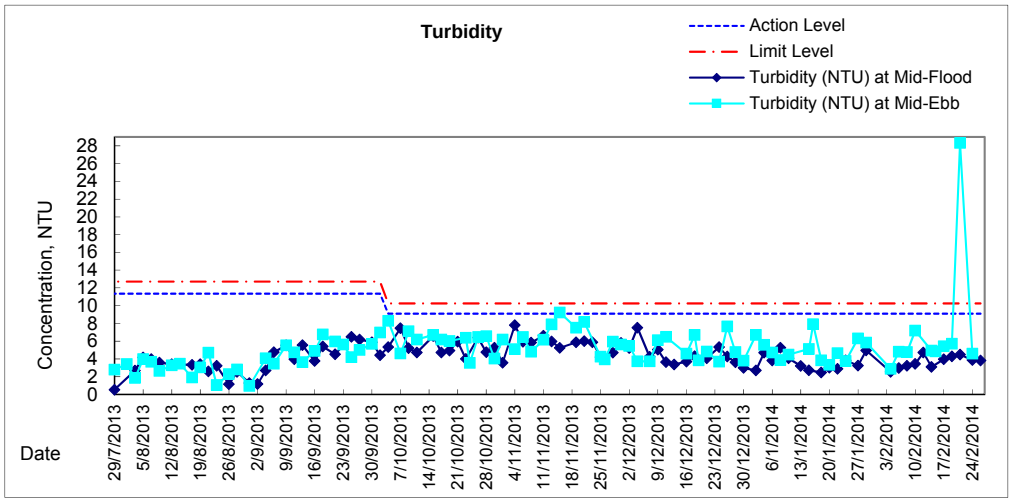


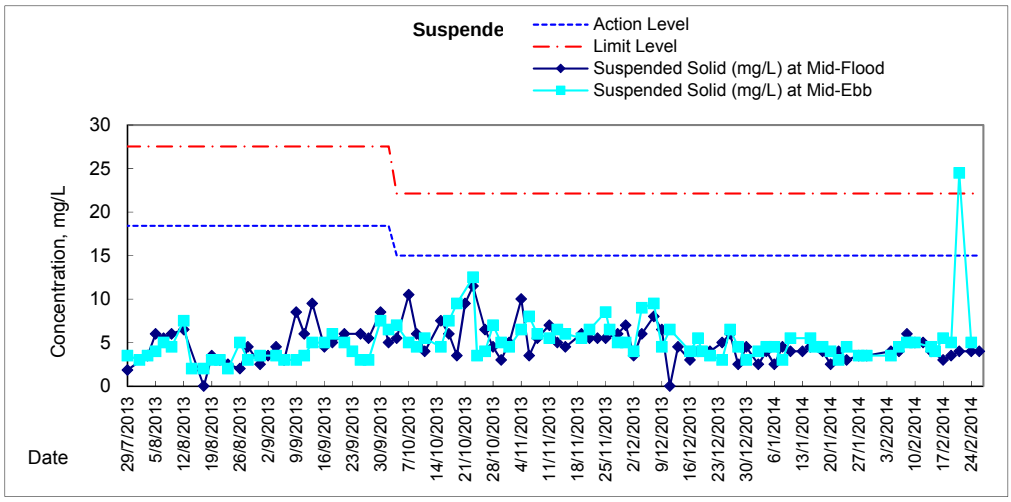




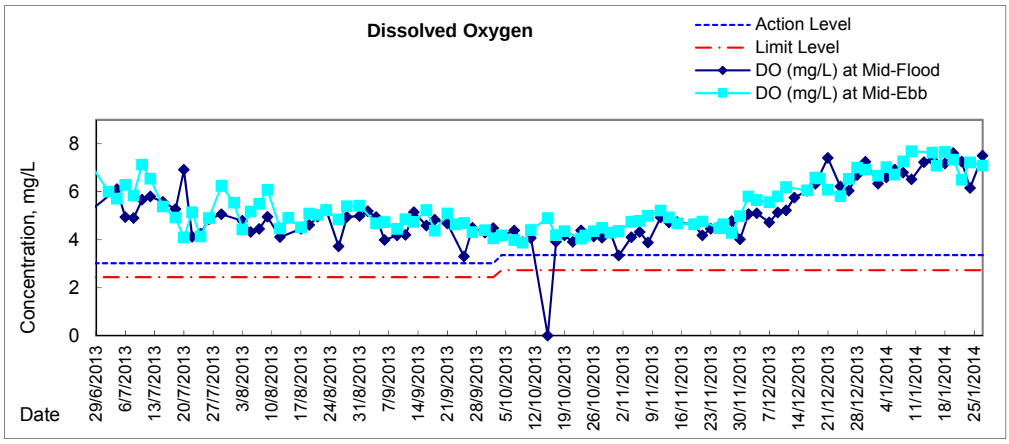
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

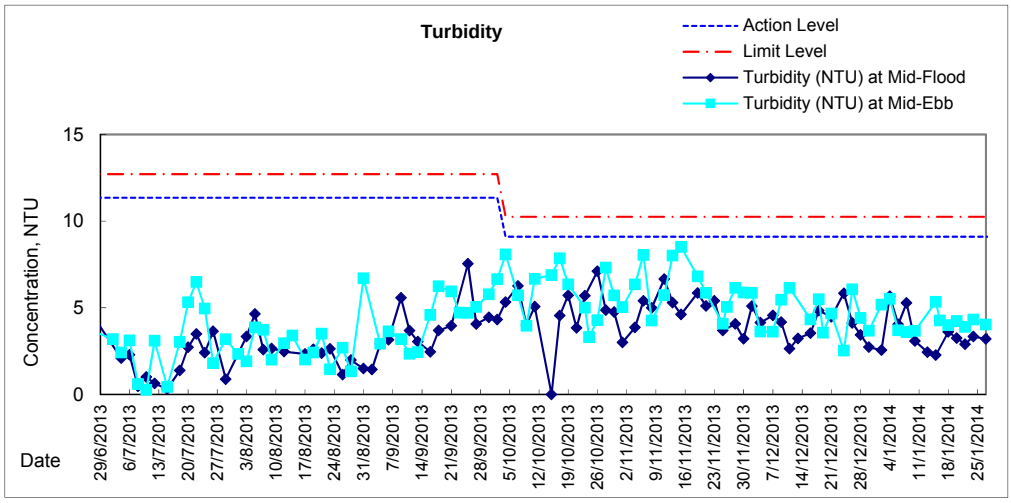


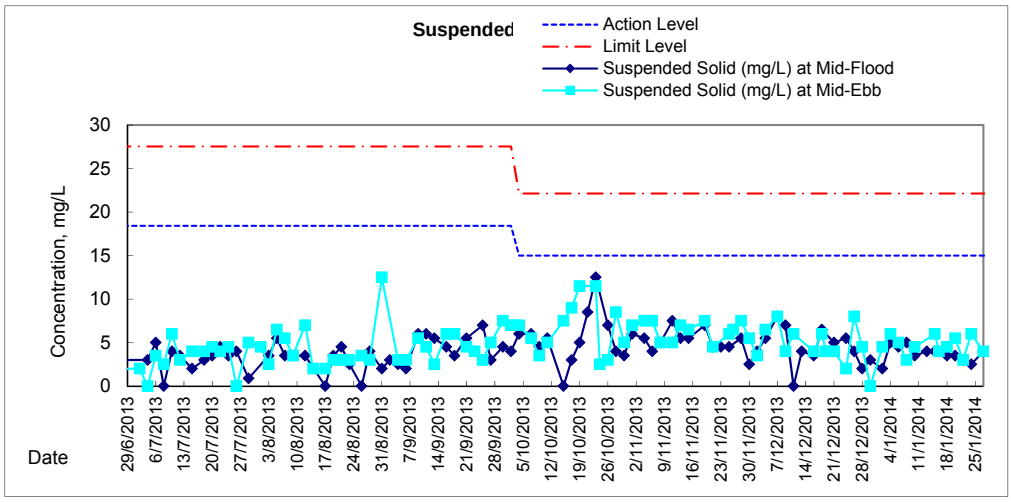




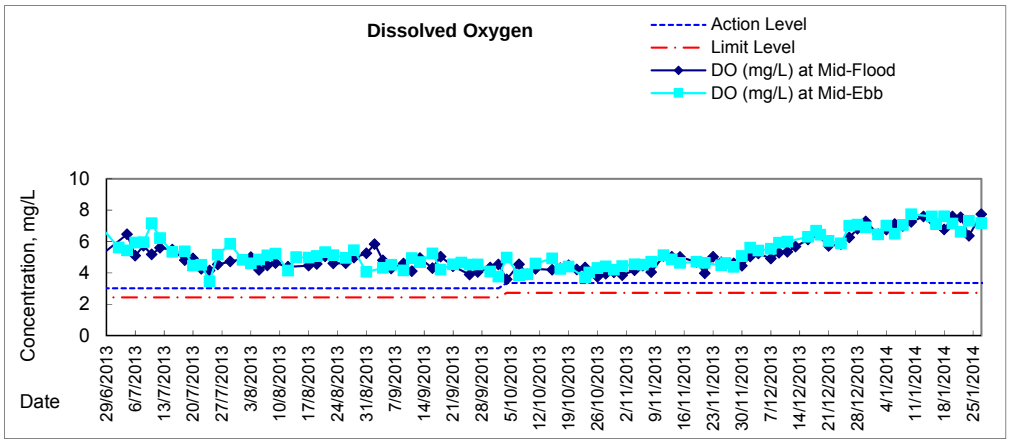
Graphic Presentation of Water Quality Result of P3 - APA

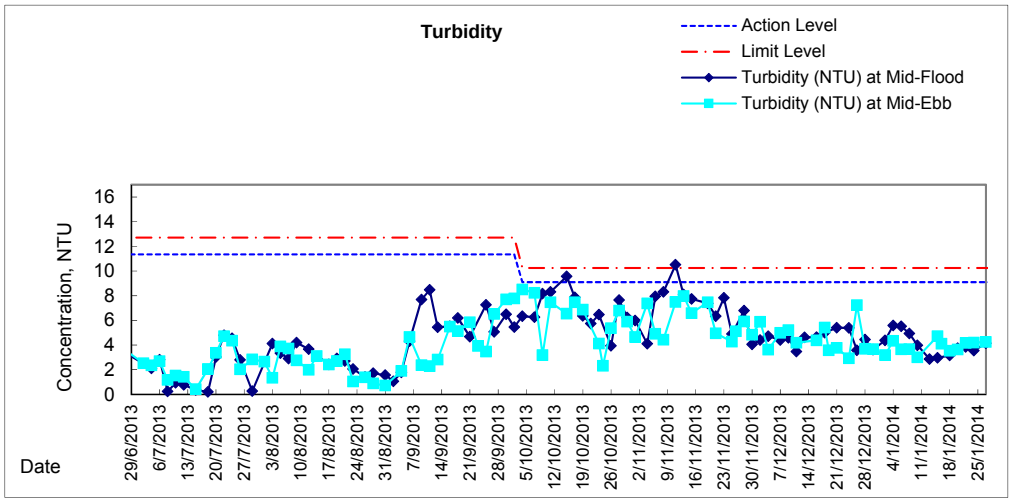


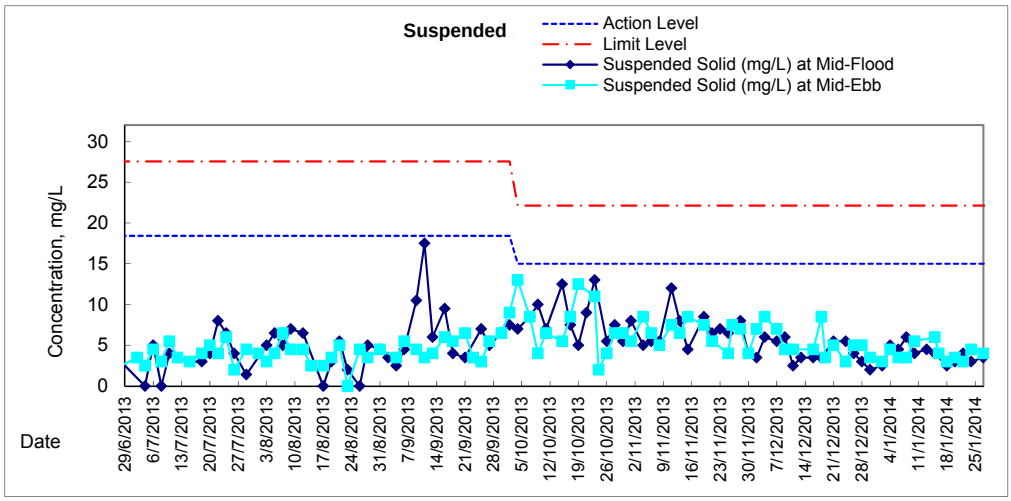




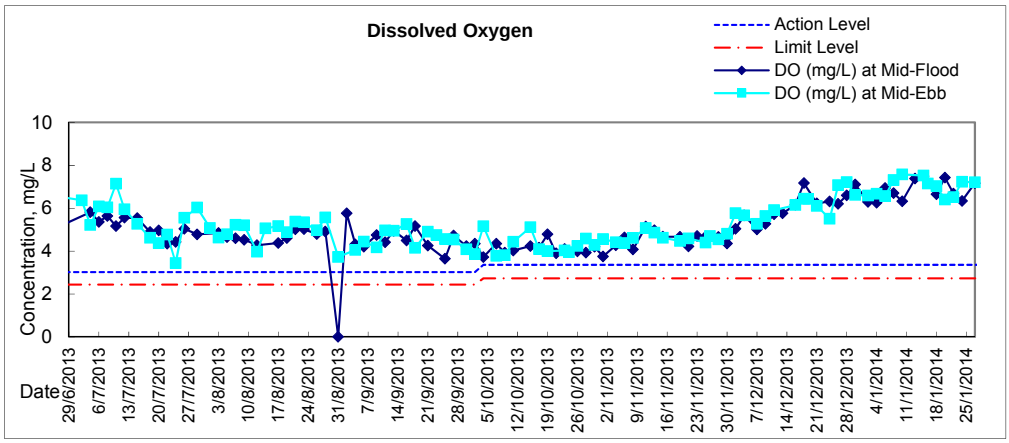
Graphic Presentation of Water Quality Result of P4 - SOC

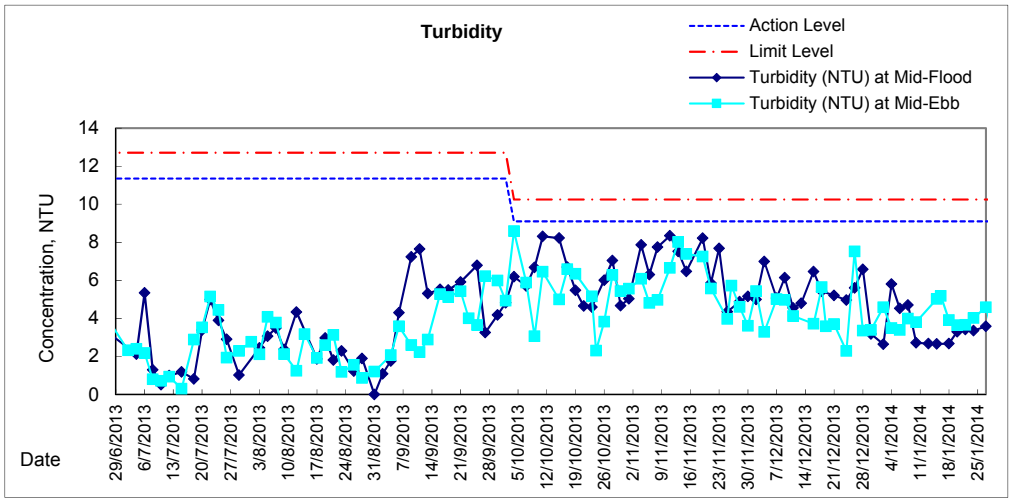


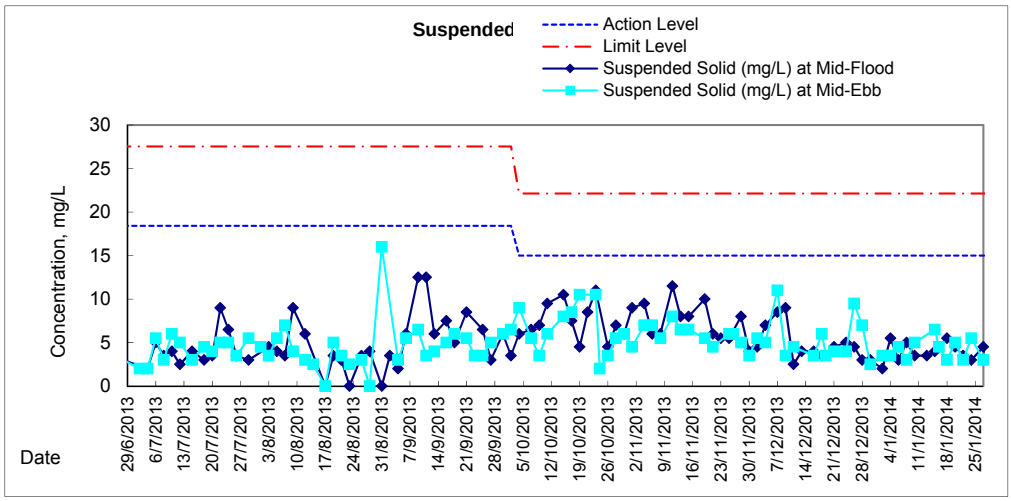




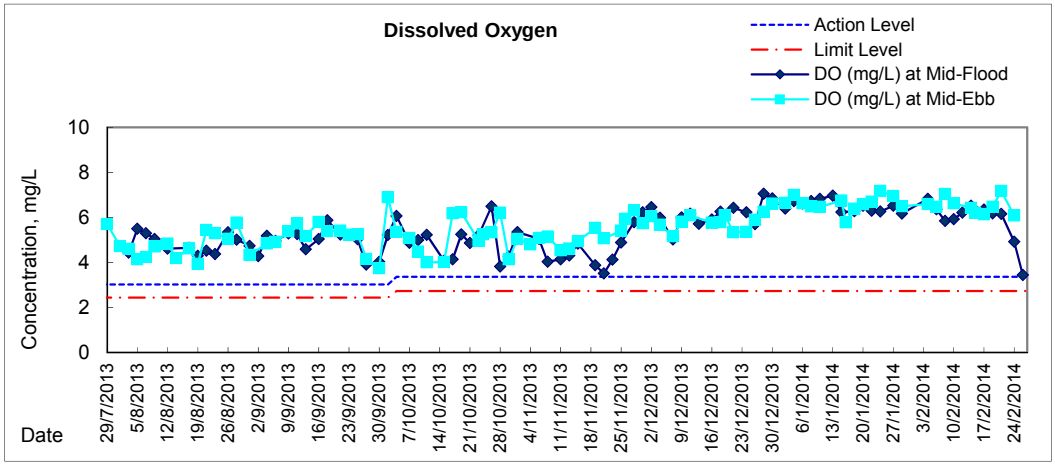
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

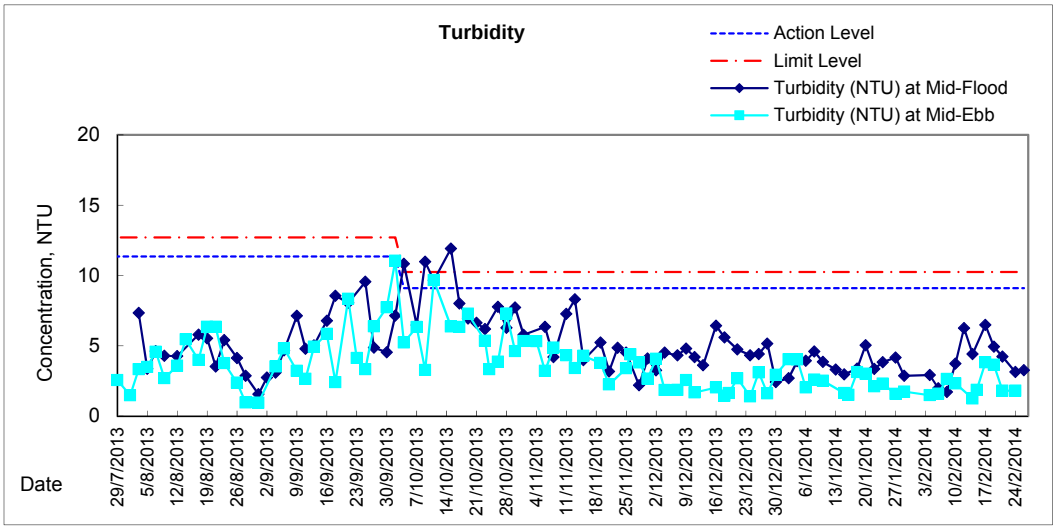


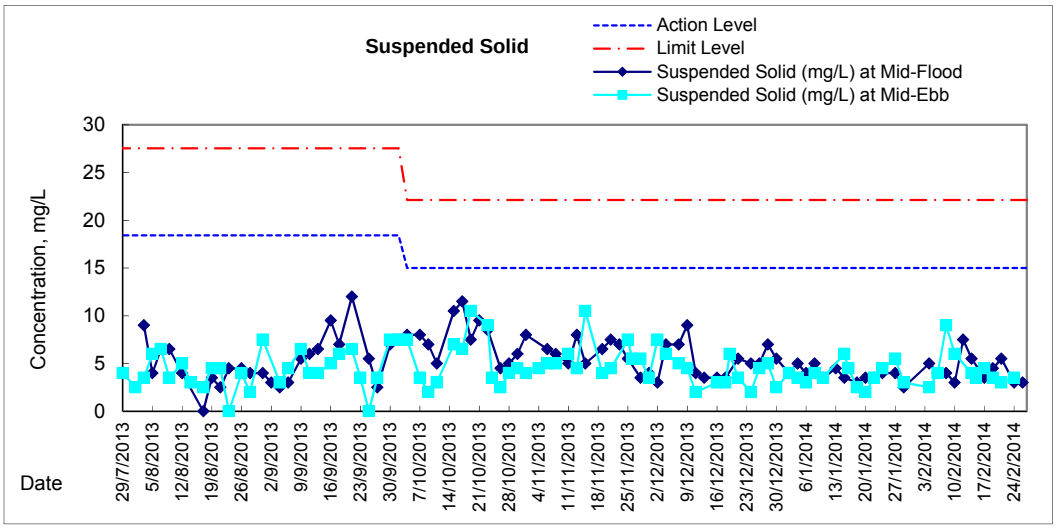




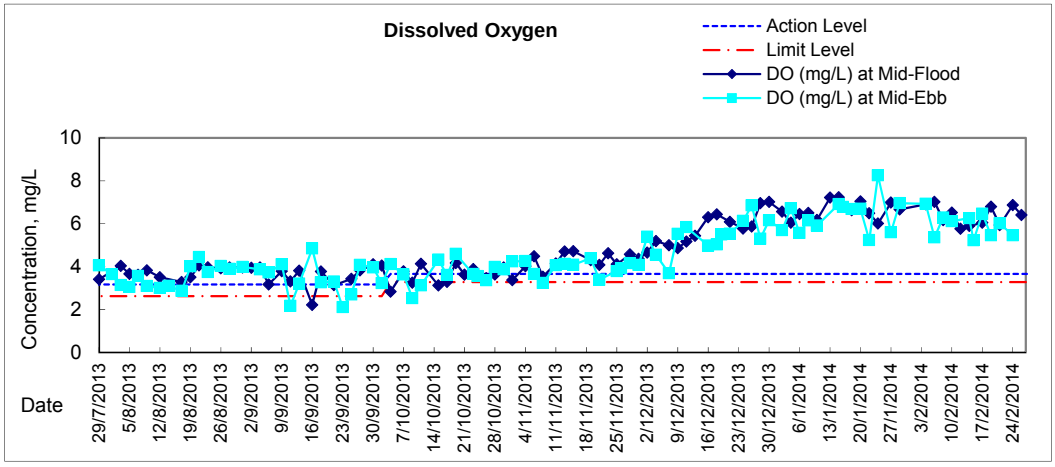
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

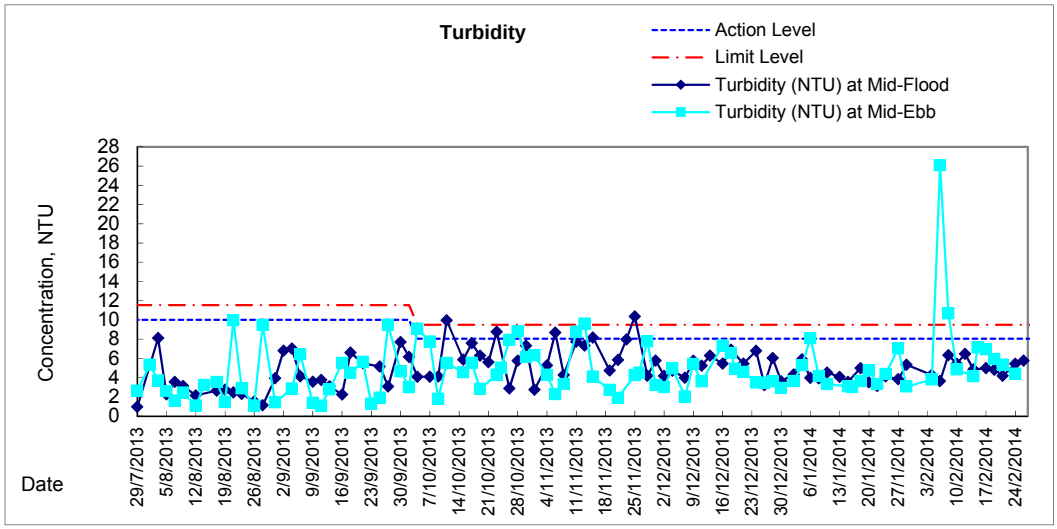


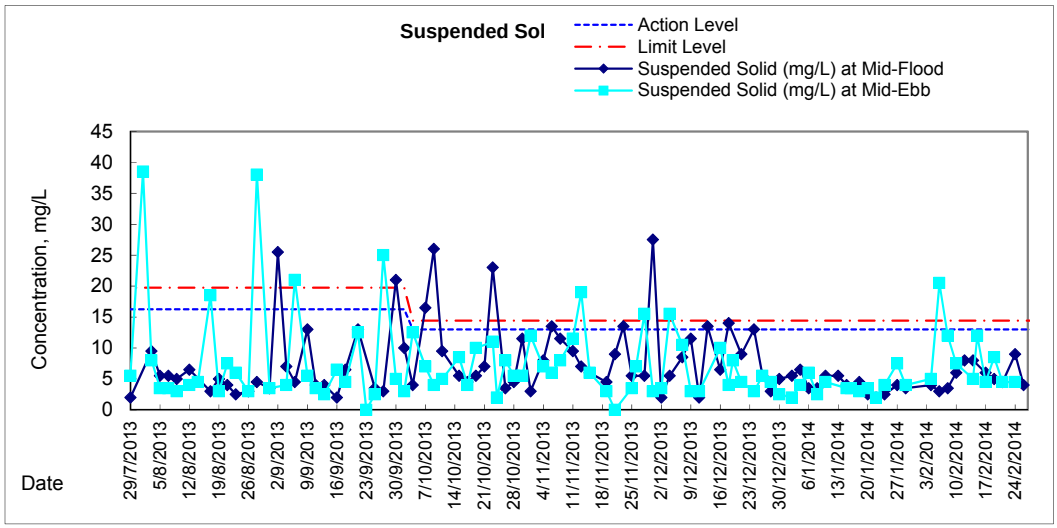




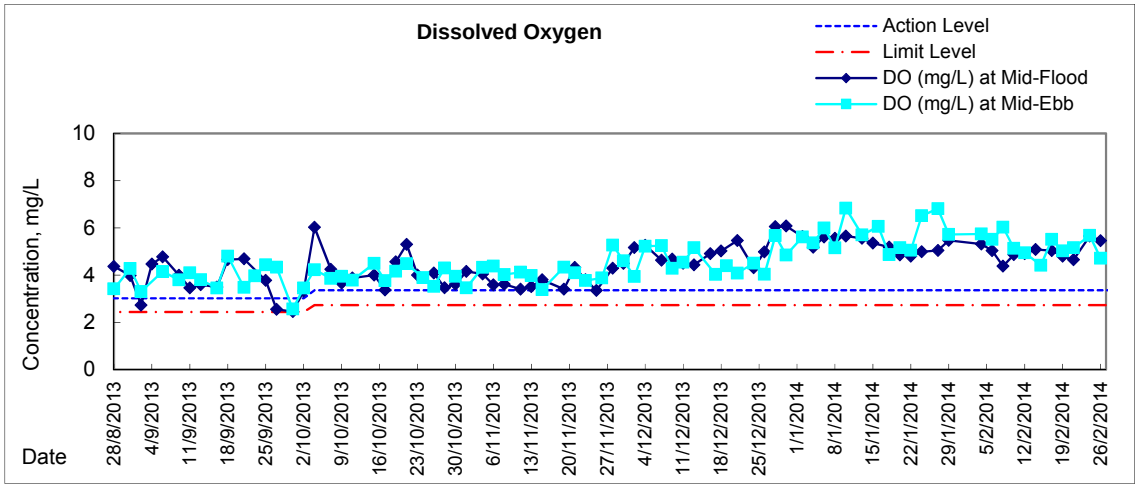
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

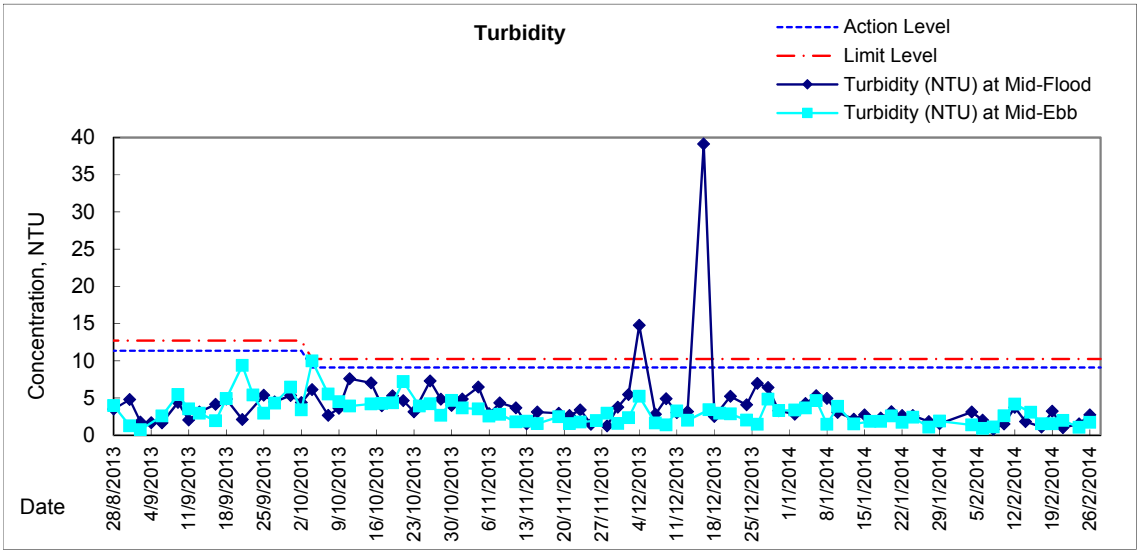


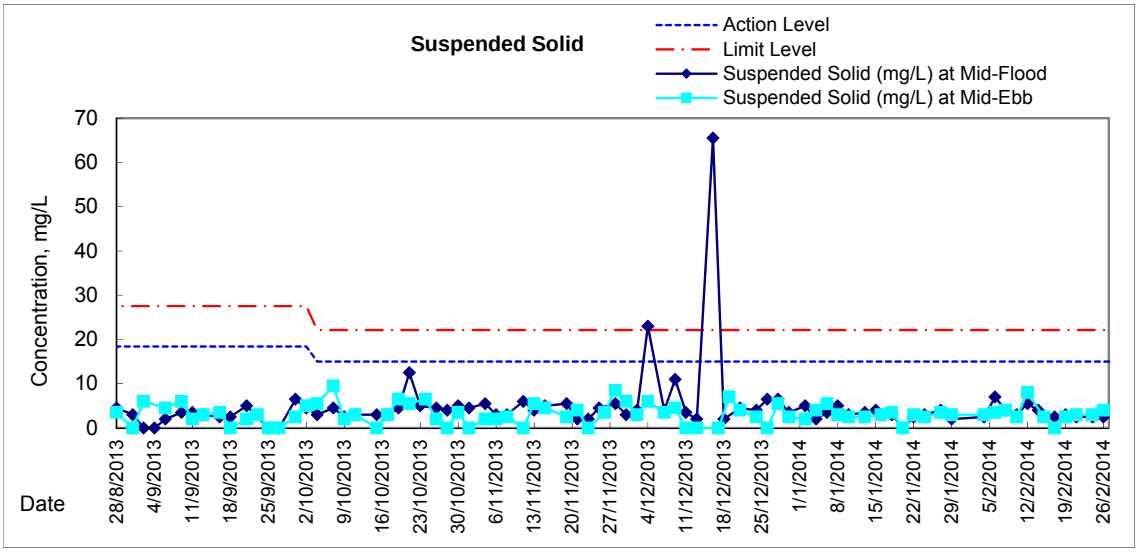




Graphic Presentation of Water Quality Result of C7 - Windsor House







Water Monitoring Result at C6 - Excelsior Hotel
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:10		Middle	1.5	18.10	18.10	18.1	8.48	8.48	8.5	34.28	34.28	34.3	78.7	79.3	79.0	6.03	6.08	6.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:24		Middle	1.5	18.10	18.10	18.1	8.53	8.53	8.5	34.05	34.05	34.1	83.2	82.6	82.9	6.41	6.36	6.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:30		Middle	1.5	18.90	18.90	18.9	8.69	8.69	8.7	34.67	34.68	34.7	83.3	83.8	83.6	6.29	6.33	6.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:45		Middle	1.5	18.20	18.20	18.2	8.44	8.45	8.4	34.33	34.33	34.3	71.2	70.6	70.9	5.47	5.42	5.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:19		Middle	1.5	16.50	16.50	16.5	8.55	8.55	8.6	34.35	34.35	34.4	72.9	72.8	72.9	5.78	5.78	5.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:35		Middle	1.5	15.90	15.90	15.9	8.52	8.52	8.5	34.44	34.44	34.4	68.8	69.5	69.2	5.56	5.62	5.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:34		Middle	1.5	16.10	16.10	16.1	8.53	8.53	8.5	34.85	34.85	34.9	84.8	84.2	84.5	6.75	6.70	6.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:05		Middle	1.5	18.70	18.70	18.7	8.00	8.00	8.0	31.39	31.52	31.5	81.9	81.7	81.8	6.33	6.31	6.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Middle	1.5	14.90	14.90	14.9	8.41	8.41	8.4	34.05	34.05	34.1	74.0	73.0	73.5	6.07	5.99	6.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:55		Middle	1.5	16.20	16.20	16.2	8.44	8.44	8.4	35.42	35.42	35.4	83.5	80.2	81.9	6.61	6.35	6.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:10		Middle	1.5	17.00	17.00	17.0	8.51	8.51	8.5	35.51	35.51	35.5	56.5	57.1	56.8	4.40	4.44	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:15		Middle	1.5	17.90	17.90	17.9	8.46	8.46	8.5	35.35	35.35	35.4	78.6	78.8	78.7	6.01	6.02	6.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at C7 - Windsor House
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:15		Middle	1.5	18.30	18.30	18.3	8.45	8.45	8.5	34.60	34.60	34.6	71.7	71.0	71.4	5.43	5.42	5.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:40		Middle	1.5	18.10	18.10	18.1	8.52	8.52	8.5	34.25	34.25	34.3	69.5	68.6	69.1	5.35	5.28	5.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:40		Middle	1.5	18.90	18.90	18.9	8.53	8.53	8.5	34.96	34.96	35.0	68.8	69.5	69.2	5.18	5.23	5.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:56		Middle	1.5	18.20	18.20	18.2	8.45	8.45	8.5	34.18	34.18	34.2	60.7	61.0	60.9	4.67	4.69	4.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:30		Middle	1.5	16.10	16.10	16.1	8.54	8.54	8.5	34.33	34.33	34.3	60.0	60.1	60.1	4.80	4.81	4.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:40		Middle	1.5	15.60	15.60	15.6	8.51	8.51	8.5	34.72	34.72	34.7	58.3	59.1	58.7	4.71	4.77	4.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:45		Middle	1.5	16.00	16.00	16.0	8.54	8.54	8.5	34.82	34.82	34.8	63.0	63.3	63.2	5.03	5.06	5.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:52		Middle	1.5	19.00	19.00	19.0	8.08	8.08	8.1	31.71	31.71	31.7	66.7	67.3	67.0	5.12	5.17	5.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:20		Middle	1.5	15.10	15.10	15.1	8.38	8.38	8.4	35.00	35.00	35.0	56.6	56.9	56.8	4.62	4.64	4.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:00		Middle	1.5	16.20	16.20	16.2	8.44	8.44	8.4	35.20	35.20	35.2	60.7	60.7	60.7	4.81	4.81	4.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:15		Middle	1.5	17.20	17.20	17.2	8.51	8.51	8.5	35.57	35.57	35.6	68.3	68.9	68.6	5.28	5.34	5.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:23		Middle	1.5	17.80	17.80	17.8	8.47	8.47	8.5	35.31	35.31	35.3	66.5	66.3	66.4	5.08	5.07	5.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:02		Middle	1.5	17.80	17.80	17.8	8.48	8.48	8.5	35.01	35.01	35.0	82.2	82.7	82.5	6.37	6.40	6.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:14		Middle	1.5	17.90	17.90	17.9	8.54	8.54	8.5	34.21	34.21	34.2	82.6	82.1	82.4	6.38	6.34	6.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:22		Middle	1.5	19.00	19.00	19.0	8.58	8.58	8.6	32.35	32.35	32.4	75.5	75.1	75.3	5.77	5.75	5.76
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:36		Middle	1.5	18.00	18.00	18.0	8.52	8.52	8.5	30.49	30.50	30.5	63.9	63.5	63.7	5.03	5.00	5.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:09		Middle	1.5	16.20	16.20	16.2	8.56	8.56	8.6	34.77	34.77	34.8	70.3	70.7	70.5	5.60	5.63	5.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:27		Middle	1.5	15.70	15.70	15.7	8.59	8.59	8.6	30.92	30.92	30.9	75.0	75.0	75.0	6.16	6.17	6.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:17		Middle	1.5	16.10	16.10	16.1	8.56	8.56	8.6	33.97	33.97	34.0	78.6	78.3	78.5	6.29	6.27	6.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:35		Middle	1.5	18.90	18.90	18.9	8.27	8.27	8.3	24.67	24.69	24.7	55.2	54.9	55.1	4.43	4.40	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:02		Middle	1.5	15.00	15.00	15.0	8.42	8.42	8.4	34.44	34.44	34.4	74.3	74.3	74.3	6.07	6.07	6.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	11:44	Fine	Surface	1.0	16.30	16.30	16.3	8.47	8.47	8.5	34.77	34.77	34.8	71.9	71.9	71.9	5.73	5.73	5.73
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:46		Bottom	3.0	15.60	15.60	15.6	8.47	8.47	8.5	35.13	35.13	35.1	75.6	75.5	75.6	6.03	6.03	6.03
24/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:02		Middle	1.5	16.90	16.90	16.9	8.51	8.51	8.5	35.15	35.15	35.2	60.4	60.5	60.5	4.34	4.35	4.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:02		Middle	1.5	18.20	18.20	18.2	8.48	8.48	8.5	32.81	32.81	32.8	80.0	79.6	79.8	6.19	6.17	6.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:00		Middle	1.5	17.70	17.70	17.7	8.48	8.48	8.5	35.15	35.15	35.2	80.2	80.8	80.5	6.17	6.19	6.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Middle	1.5	18.00	18.00	18.0	8.55	8.55	8.6	33.46	33.46	33.5	83.5	83.6	83.6	6.47	6.47	6.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:20		Middle	1.5	19.00	19.00	19.0	8.58	8.58	8.6	34.30	34.30	34.3	77.4	76.5	77.0	5.85	5.79	5.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:34		Middle	1.5	18.00	18.00	18.0	8.54	8.54	8.5	32.40	32.40	32.4	61.6	61.3	61.5	4.81	4.78	4.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:07		Middle	1.5	15.80	15.80	15.8	8.58	8.58	8.6	33.49	33.49	33.5	72.1	71.7	71.9	5.85	5.81	5.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:25		Middle	1.5	15.50	15.50	15.5	8.56	8.56	8.6	34.41	34.41	34.4	74.1	74.0	74.1	6.01	6.00	6.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:25		Middle	1.5	16.00	16.00	16.0	8.55	8.55	8.6	35.09	35.09	35.1	76.4	76.6	76.5	6.09	6.11	6.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:43		Middle	1.5	18.80	18.80	18.8	8.19	8.19	8.2	24.33	24.33	24.3	53.8	53.6	53.7	4.34	4.32	4.33
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:00		Middle	1.5	14.80	14.80	14.8	8.42	8.42	8.4	34.83	34.83	34.8	74.0	73.6	73.8	6.07	6.04	6.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	11:40	Fine	Surface	1.0	16.10	16.10	16.1	8.48	8.48	8.5	34.75	34.75	34.8	72.8	72.3	72.6	5.80	5.76	5.78
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:42		Bottom	3.0	15.70	15.70	15.7	8.46	8.46	8.5	34.69	34.69	34.7	74.9	75.0	75.0	5.98	5.98	5.98
24/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:00		Middle	1.5	17.20	17.20	17.2	8.50	8.50	8.5	35.39	35.39	35.4	58.0	58.6	58.3	4.50	4.54	4.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:00		Middle	1.5	18.40	18.40	18.4	8.44	8.44	8.4	35.43	35.43	35.4	80.2	80.7	80.5	6.08	6.16	6.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at C6 - Excelsior Hotel
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:13		Middle	1.0	16.90	16.90	16.9	8.12	8.12	8.1	30.55	30.55	30.6	78.7	78.8	78.8	6.34	6.35	6.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:59		Middle	1.5	18.20	18.20	18.2	8.42	8.42	8.4	33.95	33.95	34.0	81.6	80.8	81.2	6.28	6.22	6.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2104	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:19		Middle	1.5	18.60	18.70	18.7	8.51	8.51	8.5	35.24	35.24	35.2	83.9	83.0	83.5	6.35	6.27	6.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:32		Middle	1.0	18.10	18.10	18.1	8.12	8.12	8.1	28.81	28.84	28.8	74.5	74.9	74.7	5.93	5.97	5.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:48		Middle	1.0	12.90	12.90	12.9	8.07	8.07	8.1	27.45	27.49	27.5	60.3	60.9	60.6	5.37	5.42	5.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:20		Middle	1.0	13.40	13.40	13.4	8.01	8.01	8.0	25.56	25.56	25.6	52.9	53.1	53.0	4.71	4.72	4.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:50		Middle	1.0	14.20	14.20	14.2	8.27	8.27	8.3	26.53	26.53	26.5	68.7	68.3	68.5	5.98	5.95	5.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:20		Middle	1.5	17.60	17.60	17.6	8.43	8.43	8.4	35.02	35.02	35.0	78.0	77.6	77.8	6.00	5.97	5.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:35		Middle	1.5	15.60	15.60	15.6	8.43	8.43	8.4	35.06	35.06	35.1	75.6	74.8	75.2	6.09	6.03	6.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:10		Middle	1.5	16.40	16.40	16.4	8.38	8.38	8.4	34.70	34.70	34.7	70.7	70.7	70.7	5.61	5.60	5.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:35		Middle	1.5	17.80	17.80	17.8	7.90	7.90	7.9	32.05	32.09	32.1	76.6	76.1	76.4	6.02	5.97	6.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:40		Middle	1.0	18.80	18.70	18.8	8.11	8.11	8.1	26.13	26.13	26.1	70.6	71.1	70.9	5.50	5.54	5.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at C7 - Windsor House
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:00		Middle	1.0	17.00	17.00	17.0	8.14	8.14	8.1	30.51	30.51	30.5	70.7	70.3	70.5	5.68	5.66	5.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:12		Middle	1.5	18.20	18.20	18.2	8.47	8.47	8.5	34.10	34.10	34.1	74.0	73.7	73.9	5.69	5.66	5.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2104	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:28		Middle	1.5	18.70	18.70	18.7	8.52	8.52	8.5	35.00	35.00	35.0	74.1	73.0	73.6	5.60	5.52	5.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:23		Middle	1.0	18.10	18.10	18.1	8.13	8.13	8.1	30.75	30.75	30.8	74.2	75.4	74.8	5.84	5.93	5.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:58		Middle	1.0	12.90	12.90	12.9	8.16	8.16	8.2	28.79	28.79	28.8	58.3	58.9	58.6	5.14	5.20	5.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:07		Middle	1.0	13.50	13.50	13.5	8.18	8.18	8.2	28.15	28.15	28.2	55.1	55.8	55.5	4.82	4.88	4.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:40		Middle	1.0	13.90	13.90	13.9	7.99	7.99	8.0	27.71	27.71	27.7	50.9	51.3	51.1	4.43	4.47	4.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:30		Middle	1.5	18.00	18.00	18.0	8.41	8.41	8.4	34.90	34.90	34.9	74.3	73.9	74.1	5.69	5.65	5.67
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:45		Middle	1.5	15.40	15.40	15.4	8.41	8.41	8.4	34.77	34.77	34.8	60.8	61.3	61.1	4.92	4.96	4.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:15		Middle	1.5	16.30	16.30	16.3	8.39	8.39	8.4	35.21	35.21	35.2	66.1	66.1	66.1	5.23	5.23	5.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:20		Middle	1.5	17.90	17.90	17.9	8.10	8.10	8.1	32.43	32.43	32.4	72.1	72.6	72.4	5.64	5.68	5.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:26		Middle	1.0	18.80	18.80	18.8	8.14	8.14	8.1	30.71	30.71	30.7	59.9	61.6	60.8	4.69	4.78	4.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

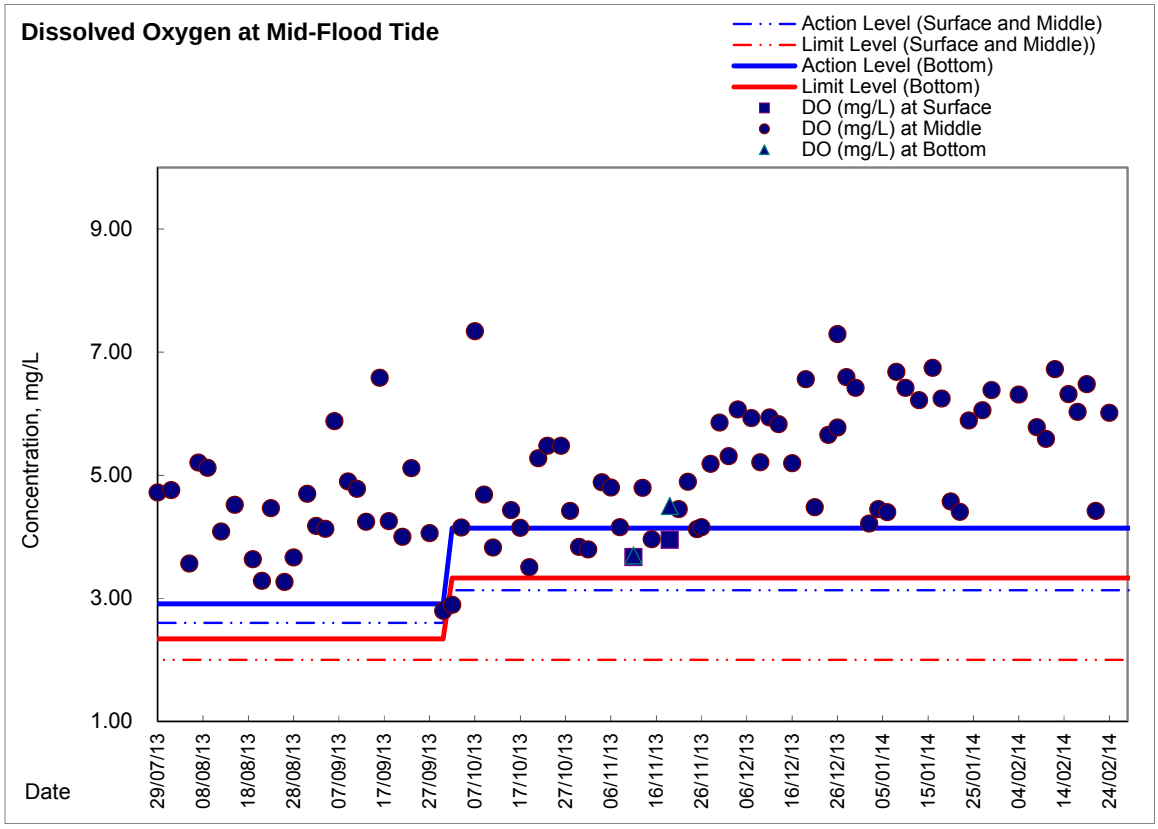
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area
Mid-Ebb Tide

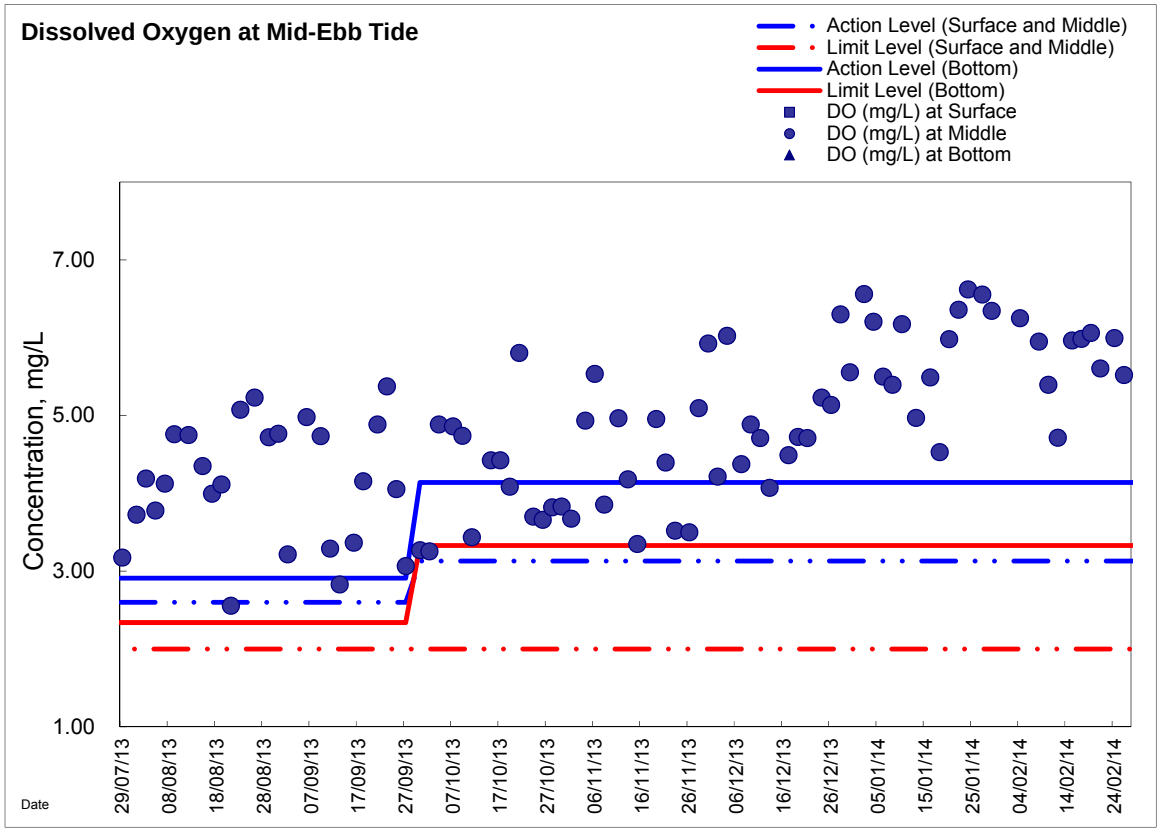
Date	Time	Weater Condition	Sampling Depth		Water Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L		
			m		Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:43		Middle	1.0	17.40	17.40	17.4	8.17	8.17	8.2	23.18	23.18	23.2	27.0	26.7	26.9	2.25	2.22	2.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	z	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:51		Middle	1.5	18.50	18.50	18.5	8.54	8.54	8.5	27.96	27.96	28.0	56.4	56.3	56.4	4.47	4.46	4.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2104	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:12		Middle	1.5	18.80	18.80	18.8	8.54	8.53	8.5	33.18	33.18	33.2	73.5	73.9	73.7	5.62	5.64	5.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:03		Middle	1.0	18.10	18.10	18.1	8.14	8.14	8.1	22.39	22.40	22.4	48.0	48.5	48.3	3.97	4.02	4.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:30		Middle	1.0	13.10	13.10	13.1	8.45	8.45	8.5	22.53	22.50	22.5	49.6	49.0	49.3	4.54	4.49	4.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:51		Middle	1.0	13.70	13.70	13.7	8.21	8.21	8.2	23.34	23.35	23.3	46.6	46.3	46.5	4.19	4.16	4.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:15		Middle	1.0	14.20	14.20	14.2	8.23	8.23	8.2	22.16	22.15	22.2	46.9	46.0	46.5	4.11	4.10	4.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:12		Middle	1.5	17.70	17.70	17.7	8.44	8.44	8.4	33.88	33.88	33.9	77.7	77.6	77.7	6.03	6.01	6.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:22		Middle	1.5	15.30	15.30	15.3	8.43	8.43	8.4	35.41	35.41	35.4	73.2	74.1	73.7	5.90	5.98	5.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:57		Middle	1.5	16.30	16.30	16.3	8.40	8.40	8.4	32.01	32.01	32.0	70.0	68.6	69.3	5.66	5.55	5.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:57		Middle	1.0	17.40	17.40	17.4	8.26	8.26	8.3	23.56	23.56	23.6	48.6	48.8	48.7	4.05	4.07	4.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:12		Middle	1.0	19.20	19.10	19.2	8.17	8.17	8.2	23.50	23.56	23.5	48.8	49.6	49.2	3.93	4.00	3.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area
Mid-Ebb Tide

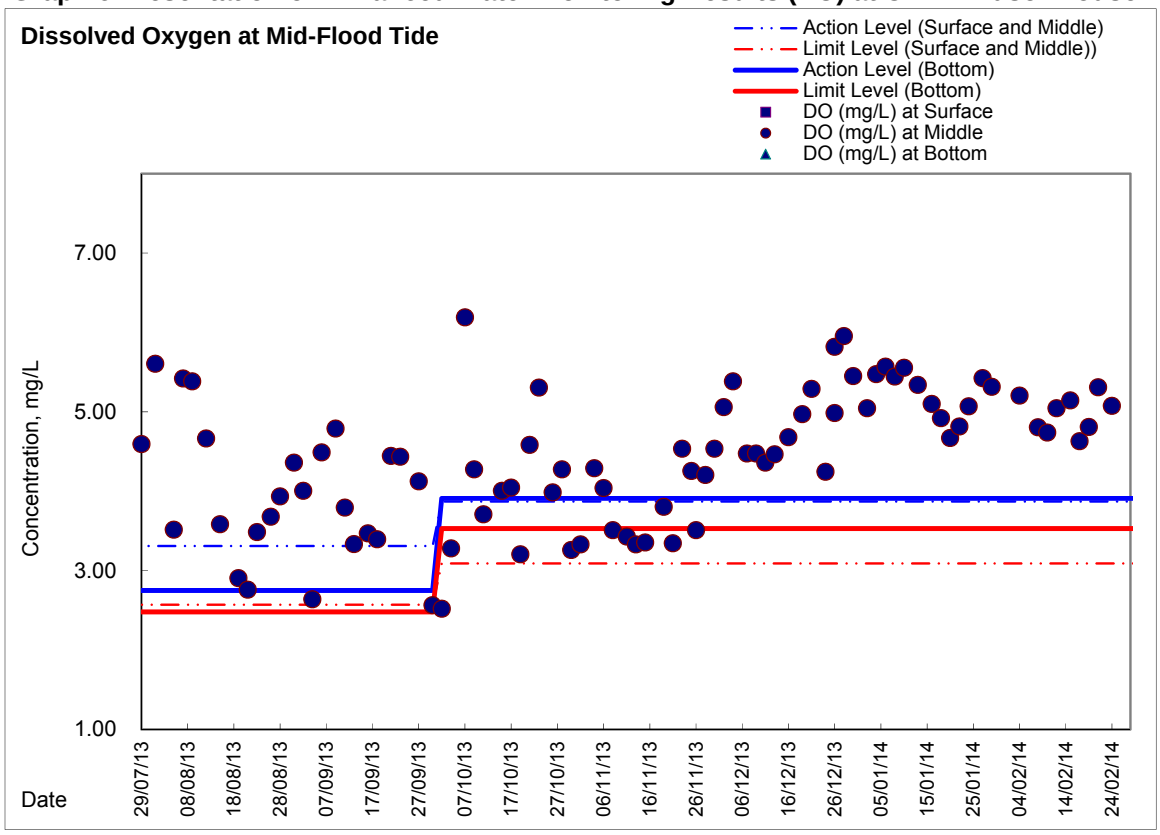
Date	Time	Weater Condition	Sampling Depth		Water Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L		
			m		Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/1/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:52		Middle	1.0	17.50	17.50	17.5	7.91	7.91	7.9	22.89	22.89	22.9	28.1	28.2	28.2	2.34	2.35	2.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:49		Middle	1.5	18.10	18.10	18.1	8.51	8.51	8.5	34.15	34.15	34.2	68.4	68.1	68.3	5.26	5.24	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/2/2104	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:09		Middle	1.5	19.00	19.00	19.0	8.54	8.54	8.5	34.41	34.41	34.4	73.1	74.1	73.6	5.52	5.59	5.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:09		Middle	1.0	18.10	18.10	18.1	8.00	8.01	8.0	22.16	22.47	22.3	53.2	53.9	53.6	4.39	4.45	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:39		Middle	1.0	13.20	13.20	13.2	8.33	8.32	8.3	22.01	22.01	22.0	48.5	48.3	48.4	4.44	4.43	4.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:58		Middle	1.0	13.70	13.70	13.7	8.14	8.14	8.1	23.06	23.06	23.1	49.0	49.4	49.2	4.40	4.44	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:22		Middle	1.0	14.10	14.10	14.1	8.16	8.16	8.2	21.42	21.42	21.4	52.0	51.2	51.6	4.64	4.59	4.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:10		Middle	1.5	18.10	18.10	18.1	8.42	8.42	8.4	35.10	35.10	35.1	76.6	76.6	76.6	5.85	5.85	5.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:20		Middle	1.5	15.00	15.00	15.0	8.45	8.45	8.5	34.79	34.79	34.8	69.9	70.0	70.0	5.71	5.72	5.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/2/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:55		Middle	1.5	16.50	16.50	16.5	8.49	8.49	8.5	28.19	28.19	28.2	71.5	71.3	71.4	5.89	5.88	5.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:05		Middle	1.0	17.40	17.40	17.4	8.13	8.13	8.1	22.99	22.99	23.0	52.3	52.9	52.6	4.37	4.41	4.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/2/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:18		Middle	1.0	19.20	19.20	19.2	8.00	8.00	8.0	23.35	23.35	23.4	54.0	54.6	54.3	4.33	4.38	4.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

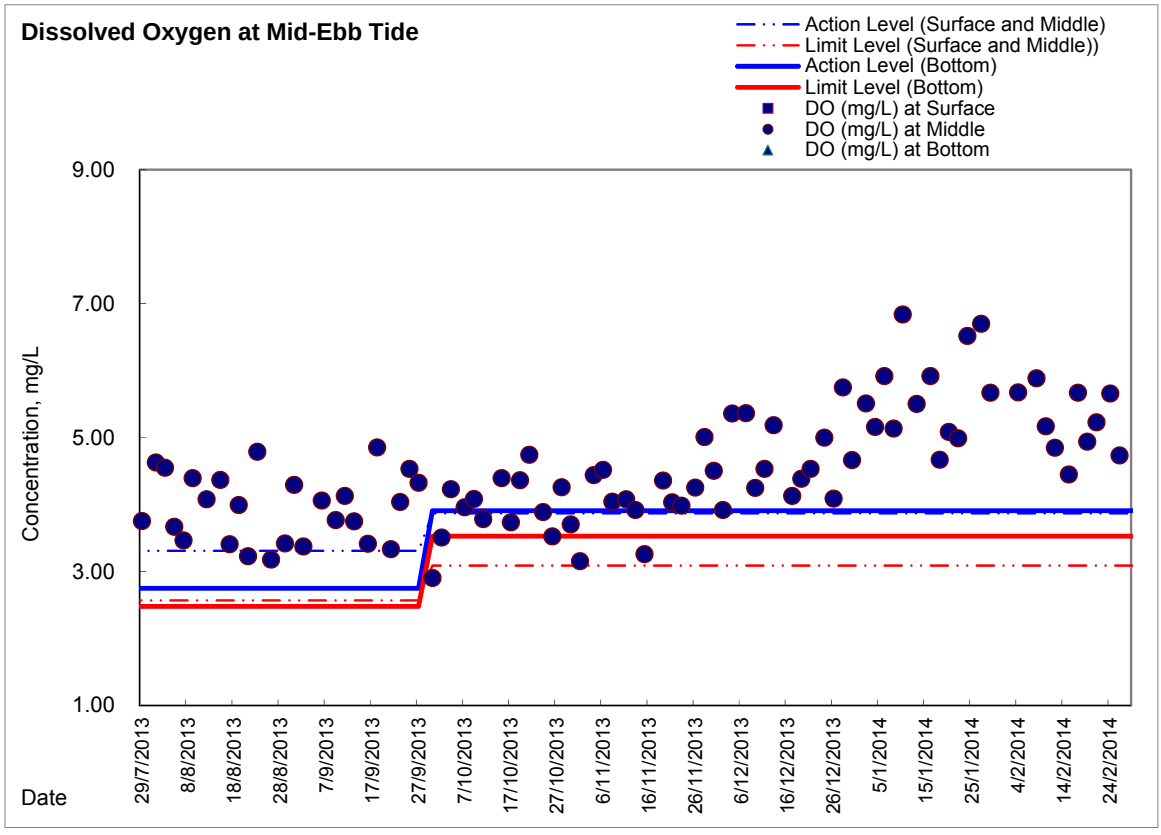
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



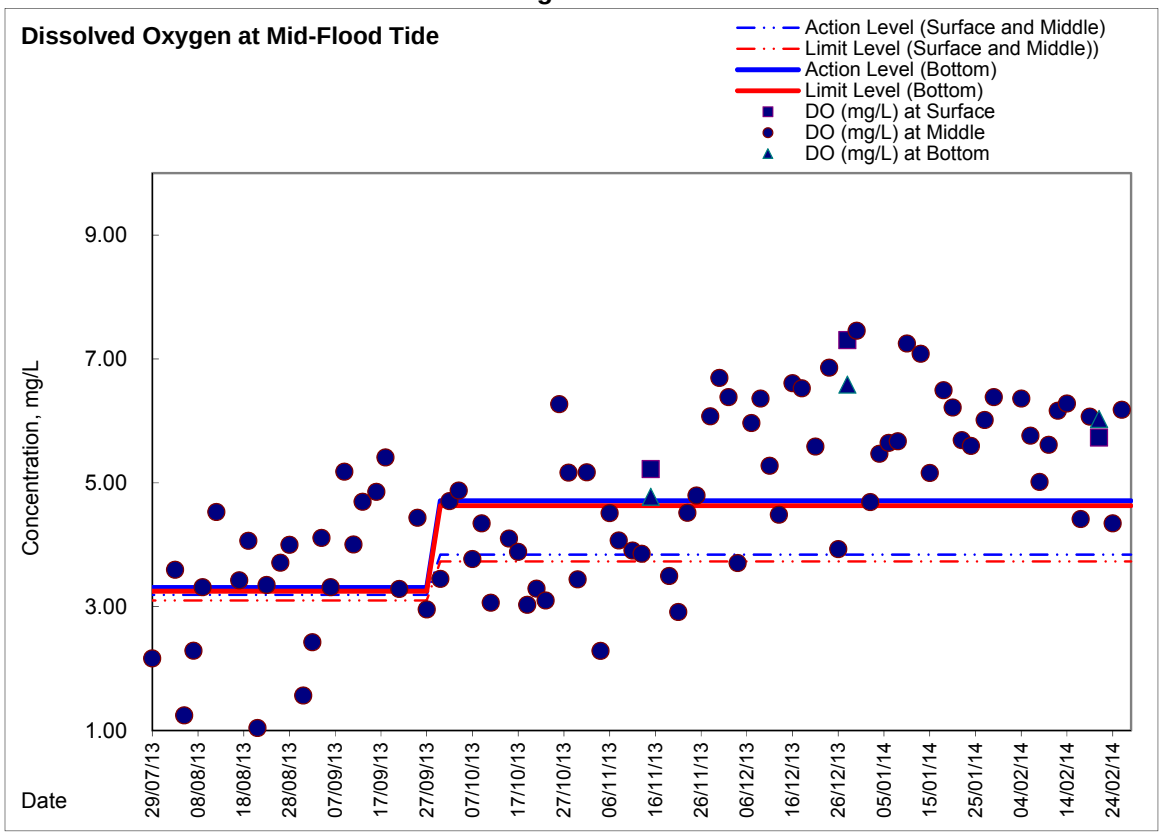


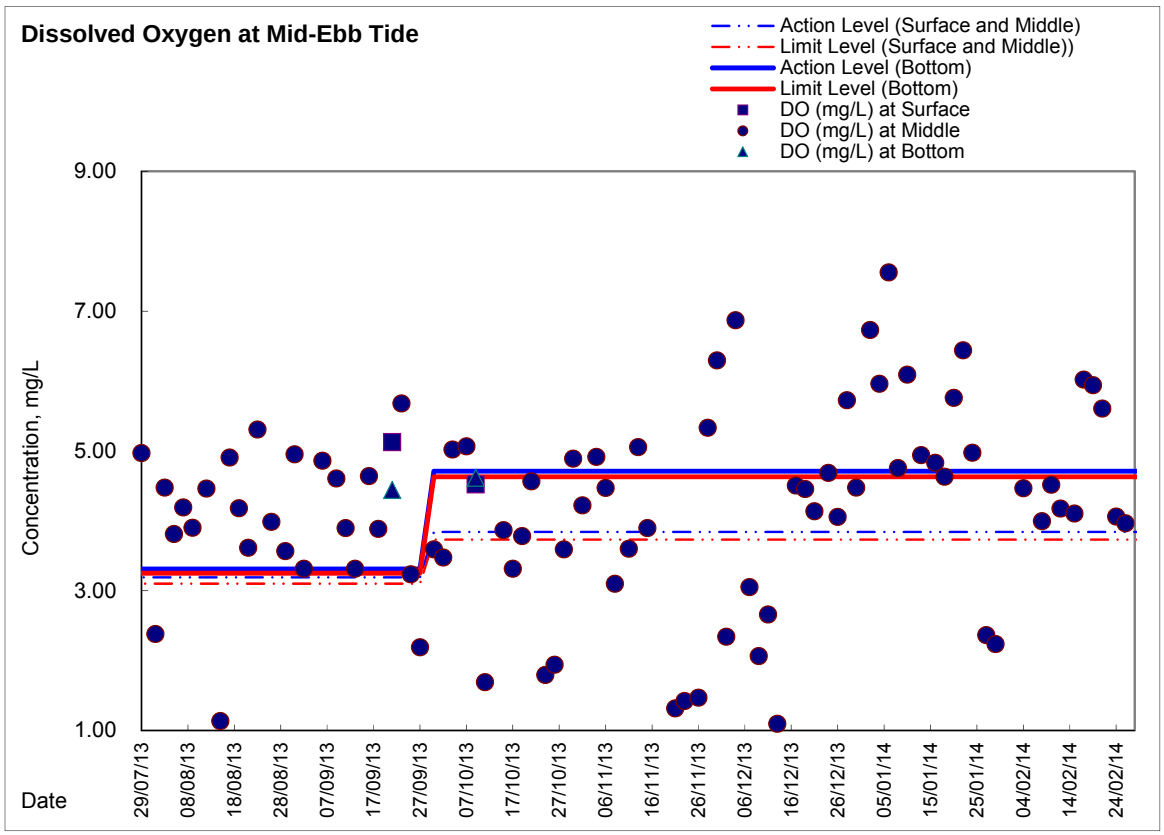
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



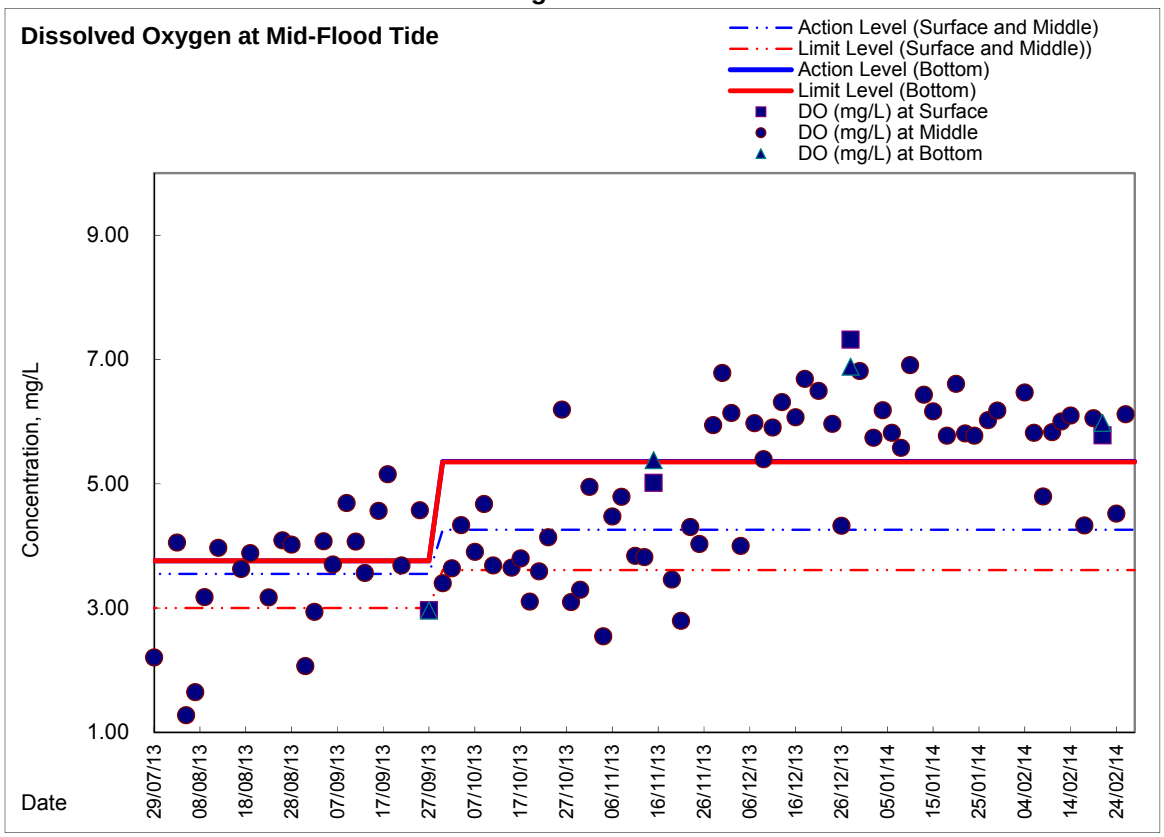


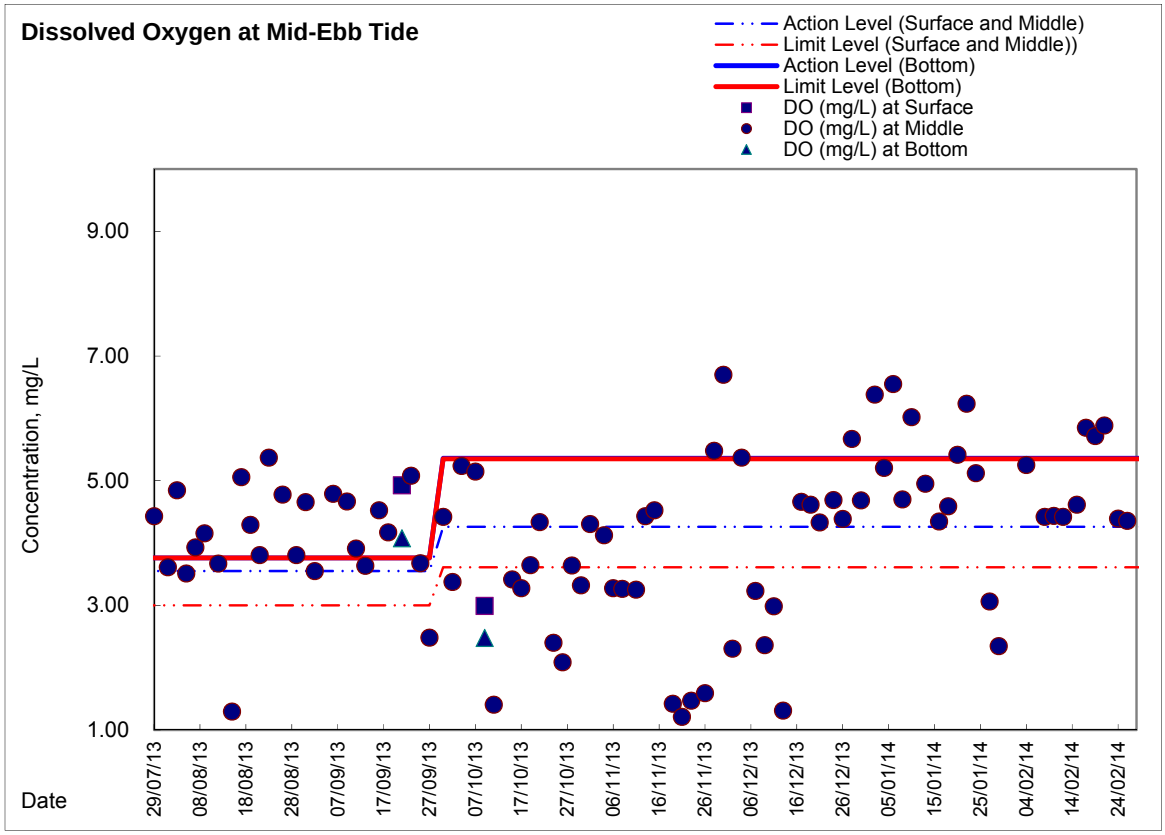
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area





Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data

RTN2a (Hong Kong Electric Centre)

Normal Day 07:00-19:00

28/1/2014 7:01	66.0
28/1/2014 7:31	69.7
28/1/2014 8:01	72.1
28/1/2014 8:31	72.9
28/1/2014 9:01	72.4
28/1/2014 9:31	72.1
28/1/2014 10:01	72.1
28/1/2014 10:31	70.9
28/1/2014 11:01	70.7
28/1/2014 11:31	70.2
28/1/2014 12:01	70.4
28/1/2014 12:31	70.8
28/1/2014 13:01	71.8
28/1/2014 13:31	71.6
28/1/2014 14:01	69.6
28/1/2014 14:31	70.7
28/1/2014 15:01	70.1
28/1/2014 15:31	70.5
28/1/2014 16:01	72.0
28/1/2014 16:31	70.3
28/1/2014 17:01	71.5
28/1/2014 17:31	71.6
28/1/2014 18:01	70.7
28/1/2014 18:31	56.9
29/1/2014 7:01	66.5
29/1/2014 7:31	70.7
29/1/2014 8:01	71.3
29/1/2014 8:31	71.7
29/1/2014 9:01	72.3
29/1/2014 9:31	71.8
29/1/2014 10:01	71.9
29/1/2014 10:31	71.6
29/1/2014 11:01	72.1
29/1/2014 11:31	71.4
29/1/2014 12:01	69.9
29/1/2014 12:31	69.8
29/1/2014 13:01	70.0
29/1/2014 13:31	70.0
29/1/2014 14:01	70.5
29/1/2014 14:31	71.1
29/1/2014 15:01	75.1
29/1/2014 15:31	73.9
29/1/2014 16:01	71.4
29/1/2014 16:31	70.6
29/1/2014 17:01	72.3
29/1/2014 17:31	71.6
29/1/2014 18:01	70.9
29/1/2014 18:31	63.2
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30/1/2014 9:01	70.8
30/1/2014 9:31	70.5
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30/1/2014 11:01	66.7
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6/2/2014 8:01	70.5
6/2/2014 8:31	72.1
6/2/2014 9:01	71.7
6/2/2014 9:31	72.1
6/2/2014 10:01	72.1
6/2/2014 10:31	72.4
6/2/2014 11:01	71.5
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6/2/2014 13:01	72.0
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6/2/2014 14:31	72.6
6/2/2014 15:01	72.9
6/2/2014 15:31	73.1
6/2/2014 16:01	73.0
6/2/2014 16:31	73.3
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7/2/2014 9:01	71.2
7/2/2014 9:31	71.6
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7/2/2014 10:31	71.9
7/2/2014 11:01	70.2
7/2/2014 11:31	66.9
7/2/2014 12:01	67.7
7/2/2014 12:31	69.2
7/2/2014 13:01	70.1
7/2/2014 13:31	69.2
7/2/2014 14:01	71.4
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12/2/2014 13:31	73.1
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14/2/2014 16:31	72.4
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17/2/2014 11:31	70.4
17/2/2014 12:01	68.8
17/2/2014 12:31	70.8
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17/2/2014 13:31	71.4
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17/2/2014 16:01	72.3
17/2/2014 16:31	71.2
17/2/2014 17:01	72.4
17/2/2014 17:31	72.4
17/2/2014 18:01	71.7
17/2/2014 18:31	62.8
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18/2/2014 7:31	70.5
18/2/2014 8:01	70.7
18/2/2014 8:31	72.0
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18/2/2014 12:01	72.2
18/2/2014 12:31	74.2
18/2/2014 13:01	76.3
18/2/2014 13:31	75.1
18/2/2014 14:01	74.4
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18/2/2014 15:31	72.6
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18/2/2014 17:31	73.5
18/2/2014 18:01	73.4
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19/2/2014 9:31	71.9
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19/2/2014 10:31	72.6
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19/2/2014 11:31	72.5
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19/2/2014 12:31	72.7
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20/2/2014 12:31	69.5
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20/2/2014 17:01	72.0
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21/2/2014 7:31	69.6
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21/2/2014 15:01	71.8
21/2/2014 15:31	72.2
21/2/2014 16:01	72.2
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21/2/2014 18:31	67.1
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22/2/2014 15:31	71.3
22/2/2014 16:01	69.8
22/2/2014 16:31	71.6
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22/2/2014 17:31	72.0
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22/2/2014 18:31	66.9
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24/2/2014 7:31	69.4
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24/2/2014 12:01	67.3
24/2/2014 12:31	69.0
24/2/2014 13:01	70.2
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24/2/2014 15:01	71.4
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25/2/2014 7:31	71.3
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25/2/2014 9:01	72.0
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25/2/2014 10:01	74.2
25/2/2014 10:31	72.7
25/2/2014 11:01	72.0
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25/2/2014 12:31	71.6
25/2/2014 13:01	72.3
25/2/2014 13:31	73.1
25/2/2014 14:01	73.1
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26/2/2014 17:31	70.4
26/2/2014 18:01	70.2
26/2/2014 18:31	69.2
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27/2/2014 14:01	70.5
27/2/2014 14:31	70.4
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27/2/2014 16:01	72.0
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27/2/2014 17:01	72.5
27/2/2014 17:31	72.0
27/2/2014 18:01	73.4
27/2/2014 18:31	70.7

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

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28/1/2014 19:11	64.6
28/1/2014 19:16	63.5
28/1/2014 19:21	64.1
28/1/2014 19:26	63.7
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28/1/2014 19:36	63.9
28/1/2014 19:41	64.9
28/1/2014 19:46	64.5
28/1/2014 19:51	63.3
28/1/2014 19:56	62.7
28/1/2014 20:01	62.2
28/1/2014 20:06	61.9
28/1/2014 20:11	61.6
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29/1/2014 19:26	63.4
29/1/2014 19:31	63.2
29/1/2014 19:36	63.6
29/1/2014 19:41	63.3
29/1/2014 19:46	64.2
29/1/2014 19:51	62.9
29/1/2014 19:56	63.5
29/1/2014 20:01	63.6
29/1/2014 20:06	63.1
29/1/2014 20:11	64.1
29/1/2014 20:16	64.4
29/1/2014 20:21	62.7
29/1/2014 20:26	63.9
29/1/2014 20:31	62.1
29/1/2014 20:36	62.3
29/1/2014 20:41	62.3
29/1/2014 20:46	62.2

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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31/1/2014 9:41 55.5	31/1/2014 18:46 61.1	1/2/2014 11:51 60.2	1/2/2014 20:56 60.6	2/2/2014 14:01 59.4	3/2/2014 7:06 40.3
31/1/2014 9:46 54.3	31/1/2014 18:51 60.6	1/2/2014 11:56 61.5	1/2/2014 21:01 60.2	2/2/2014 14:06 59.3	3/2/2014 7:11 49.4
31/1/2014 9:51 55.4	31/1/2014 18:56 62.0	1/2/2014 12:01 60.9	1/2/2014 21:06 60.7	2/2/2014 14:11 60.3	3/2/2014 7:16 61.4

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

3/2/2014 7:21	60.6	3/2/2014 16:26	62.0	4/2/2014 21:31	62.2	6/2/2014 22:36	60.3	9/2/2014 7:41	58.6	9/2/2014 16:46	65.8
3/2/2014 7:26	55.6	3/2/2014 16:31	62.1	4/2/2014 21:36	60.3	6/2/2014 22:41	60.7	9/2/2014 7:46	54.3	9/2/2014 16:51	65.5
3/2/2014 7:31	45.6	3/2/2014 16:36	61.5	4/2/2014 21:41	62.0	6/2/2014 22:46	59.9	9/2/2014 7:51	55.4	9/2/2014 16:56	66.0
3/2/2014 7:36	46.4	3/2/2014 16:41	60.9	4/2/2014 21:46	61.5	6/2/2014 22:51	59.4	9/2/2014 7:56	57.3	9/2/2014 17:01	65.7
3/2/2014 7:41	58.9	3/2/2014 16:46	61.3	4/2/2014 21:51	61.1	6/2/2014 22:56	57.7	9/2/2014 8:01	54.6	9/2/2014 17:06	65.1
3/2/2014 7:46	56.4	3/2/2014 16:51	60.9	4/2/2014 21:56	60.8	7/2/2014 19:01	62.2	9/2/2014 8:06	56.0	9/2/2014 17:11	64.8
3/2/2014 7:51	52.9	3/2/2014 16:56	60.5	4/2/2014 22:01	61.7	7/2/2014 19:06	63.1	9/2/2014 8:11	58.0	9/2/2014 17:16	65.6
3/2/2014 7:56	48.6	3/2/2014 17:01	61.9	4/2/2014 22:06	60.1	7/2/2014 19:11	62.3	9/2/2014 8:16	58.2	9/2/2014 17:21	65.5
3/2/2014 8:01	64.9	3/2/2014 17:06	60.3	4/2/2014 22:11	62.0	7/2/2014 19:16	62.8	9/2/2014 8:21	60.6	9/2/2014 17:26	66.1
3/2/2014 8:06	55.8	3/2/2014 17:11	61.2	4/2/2014 22:16	62.2	7/2/2014 19:21	62.5	9/2/2014 8:26	61.7	9/2/2014 17:31	66.7
3/2/2014 8:11	52.2	3/2/2014 17:16	61.8	4/2/2014 22:21	61.4	7/2/2014 19:26	62.8	9/2/2014 8:31	61.7	9/2/2014 17:36	66.1
3/2/2014 8:16	50.3	3/2/2014 17:21	62.8	4/2/2014 22:26	62.4	7/2/2014 19:31	64.1	9/2/2014 8:36	61.2	9/2/2014 17:41	66.0
3/2/2014 8:21	51.7	3/2/2014 17:26	61.3	4/2/2014 22:31	60.0	7/2/2014 19:36	62.9	9/2/2014 8:41	61.4	9/2/2014 17:46	65.3
3/2/2014 8:26	52.3	3/2/2014 17:31	61.4	4/2/2014 22:36	60.7	7/2/2014 19:41	63.5	9/2/2014 8:46	64.3	9/2/2014 17:51	65.9
3/2/2014 8:31	53.3	3/2/2014 17:36	60.3	4/2/2014 22:41	61.1	7/2/2014 19:46	61.7	9/2/2014 8:51	64.5	9/2/2014 17:56	65.6
3/2/2014 8:36	51.5	3/2/2014 17:41	61.4	4/2/2014 22:46	60.6	7/2/2014 19:51	63.4	9/2/2014 8:56	63.1	9/2/2014 18:01	66.4
3/2/2014 8:41	52.7	3/2/2014 17:46	61.0	4/2/2014 22:51	59.6	7/2/2014 19:56	62.3	9/2/2014 9:01	61.4	9/2/2014 18:06	66.6
3/2/2014 8:46	56.3	3/2/2014 17:51	61.6	4/2/2014 22:56	60.5	7/2/2014 20:01	62.0	9/2/2014 9:06	61.0	9/2/2014 18:11	66.3
3/2/2014 8:51	54.3	3/2/2014 17:56	59.7	5/2/2014 19:01	63.6	7/2/2014 20:06	62.7	9/2/2014 9:11	61.4	9/2/2014 18:16	66.2
3/2/2014 8:56	57.0	3/2/2014 18:01	60.8	5/2/2014 19:06	62.5	7/2/2014 20:11	62.2	9/2/2014 9:16	61.9	9/2/2014 18:21	66.9
3/2/2014 9:01	58.2	3/2/2014 18:06	60.5	5/2/2014 19:11	62.7	7/2/2014 20:16	61.5	9/2/2014 9:21	61.9	9/2/2014 18:26	66.7
3/2/2014 9:06	54.5	3/2/2014 18:11	61.1	5/2/2014 19:16	61.9	7/2/2014 20:21	62.6	9/2/2014 9:26	61.9	9/2/2014 18:31	66.3
3/2/2014 9:11	55.6	3/2/2014 18:16	61.7	5/2/2014 19:21	62.6	7/2/2014 20:26	61.6	9/2/2014 9:31	63.3	9/2/2014 18:36	65.7
3/2/2014 9:16	58.6	3/2/2014 18:21	61.8	5/2/2014 19:26	63.1	7/2/2014 20:31	61.1	9/2/2014 9:36	63.6	9/2/2014 18:41	65.9
3/2/2014 9:21	54.8	3/2/2014 18:26	60.7	5/2/2014 19:31	62.8	7/2/2014 20:36	60.4	9/2/2014 9:41	62.9	9/2/2014 18:46	65.8
3/2/2014 9:26	55.2	3/2/2014 18:31	65.3	5/2/2014 19:36	63.0	7/2/2014 20:41	61.5	9/2/2014 9:46	62.7	9/2/2014 18:51	65.7
3/2/2014 9:31	58.3	3/2/2014 18:36	60.7	5/2/2014 19:41	62.8	7/2/2014 20:46	60.5	9/2/2014 9:51	62.2	9/2/2014 18:56	66.1
3/2/2014 9:36	56.4	3/2/2014 18:41	60.8	5/2/2014 19:46	62.0	7/2/2014 20:51	61.5	9/2/2014 9:56	63.3	9/2/2014 19:01	66.6
3/2/2014 9:41	58.5	3/2/2014 18:46	59.5	5/2/2014 19:51	60.8	7/2/2014 20:56	61.8	9/2/2014 10:01	63.0	9/2/2014 19:06	65.5
3/2/2014 9:46	57.1	3/2/2014 18:51	60.6	5/2/2014 19:56	61.5	7/2/2014 21:01	61.6	9/2/2014 10:06	63.0	9/2/2014 19:11	65.4
3/2/2014 9:51	60.0	3/2/2014 18:56	60.8	5/2/2014 20:01	62.3	7/2/2014 21:06	60.6	9/2/2014 10:11	61.9	9/2/2014 19:16	65.3
3/2/2014 9:56	59.2	3/2/2014 19:01	61.4	5/2/2014 20:06	61.1	7/2/2014 21:11	62.2	9/2/2014 10:16	63.2	9/2/2014 19:21	65.5
3/2/2014 10:01	58.7	3/2/2014 19:06	60.4	5/2/2014 20:11	61.9	7/2/2014 21:16	61.5	9/2/2014 10:21	62.3	9/2/2014 19:26	65.6
3/2/2014 10:06	56.6	3/2/2014 19:11	59.5	5/2/2014 20:16	61.9	7/2/2014 21:21	59.8	9/2/2014 10:26	62.4	9/2/2014 19:31	65.5
3/2/2014 10:11	57.2	3/2/2014 19:16	60.4	5/2/2014 20:21	60.7	7/2/2014 21:26	63.3	9/2/2014 10:31	62.3	9/2/2014 19:36	65.0
3/2/2014 10:16	57.6	3/2/2014 19:21	60.6	5/2/2014 20:26	61.3	7/2/2014 21:31	60.9	9/2/2014 10:36	61.6	9/2/2014 19:41	64.3
3/2/2014 10:21	58.8	3/2/2014 19:26	60.5	5/2/2014 20:31	60.4	7/2/2014 21:36	60.9	9/2/2014 10:41	62.1	9/2/2014 19:46	64.2
3/2/2014 10:26	60.5	3/2/2014 19:31	57.8	5/2/2014 20:36	60.5	7/2/2014 21:41	61.0	9/2/2014 10:46	62.6	9/2/2014 19:51	64.9
3/2/2014 10:31	58.7	3/2/2014 19:36	61.3	5/2/2014 20:41	61.2	7/2/2014 21:46	60.5	9/2/2014 10:51	62.5	9/2/2014 19:56	65.2
3/2/2014 10:36	58.7	3/2/2014 19:41	58.0	5/2/2014 20:46	61.5	7/2/2014 21:51	61.0	9/2/2014 10:56	62.0	9/2/2014 20:01	64.5
3/2/2014 10:41	59.6	3/2/2014 19:46	59.6	5/2/2014 20:51	61.1	7/2/2014 21:56	60.8	9/2/2014 11:01	62.0	9/2/2014 20:06	65.2
3/2/2014 10:46	61.6	3/2/2014 19:51	59.2	5/2/2014 20:56	59.5	7/2/2014 22:01	61.6	9/2/2014 11:06	61.9	9/2/2014 20:11	65.6
3/2/2014 10:51	59.1	3/2/2014 19:56	59.5	5/2/2014 21:01	59.6	7/2/2014 22:06	60.8	9/2/2014 11:11	61.9	9/2/2014 20:16	65.9
3/2/2014 10:56	60.7	3/2/2014 20:01	59.4	5/2/2014 21:06	60.2	7/2/2014 22:11	61.5	9/2/2014 11:16	62.1	9/2/2014 20:21	65.7
3/2/2014 11:01	60.6	3/2/2014 20:06	60.0	5/2/2014 21:11	59.6	7/2/2014 22:16	61.4	9/2/2014 11:21	62.5	9/2/2014 20:26	65.6
3/2/2014 11:06	59.6	3/2/2014 20:11	59.1	5/2/2014 21:16	60.3	7/2/2014 22:21	61.0	9/2/2014 11:26	62.9	9/2/2014 20:31	65.7
3/2/2014 11:11	60.0	3/2/2014 20:16	57.9	5/2/2014 21:21	62.2	7/2/2014 22:26	61.9	9/2/2014 11:31	63.6	9/2/2014 20:36	65.3
3/2/2014 11:16	60.6	3/2/2014 20:21	61.0	5/2/2014 21:26	60.2	7/2/2014 22:31	62.3	9/2/2014 11:36	62.4	9/2/2014 20:41	64.9
3/2/2014 11:21	59.1	3/2/2014 20:26	60.1	5/2/2014 21:31	59.9	7/2/2014 22:36	61.0	9/2/2014 11:41	61.1	9/2/2014 20:46	64.8
3/2/2014 11:26	60.1	3/2/2014 20:31	59.6	5/2/2014 21:36	60.6	7/2/2014 22:41	61.1	9/2/2014 11:46	62.0	9/2/2014 20:51	65.7
3/2/2014 11:31	61.3	3/2/2014 20:36	59.5	5/2/2014 21:41	59.7	7/2/2014 22:46	61.0	9/2/2014 11:51	62.5	9/2/2014 20:56	65.1
3/2/2014 11:36	60.3	3/2/2014 20:41	59.0	5/2/2014 21:46	60.6	7/2/2014 22:51	61.3	9/2/2014 11:56	64.2	9/2/2014 21:01	65.0
3/2/2014 11:41	59.8	3/2/2014 20:46	60.3	5/2/2014 21:51	60.5	7/2/2014 22:56	61.0	9/2/2014 12:01	65.1	9/2/2014 21:06	65.1
3/2/2014 11:46	59.4	3/2/2014 20:51	59.8	5/2/2014 21:56	60.2	8/2/2014 19:01	62.3	9/2/2014 12:06	66.8	9/2/2014 21:11	65.4
3/2/2014 11:51	60.5	3/2/2014 20:56	59.3	5/2/2014 22:01	60.1	8/2/2014 19:06	62.8	9/2/2014 12:11	66.2	9/2/2014 21:16	64.7
3/2/2014 11:56	60.0	3/2/2014 21:01	60.1	5/2/2014 22:06	60.1	8/2/2014 19:11	62.1	9/2/2014 12:16	66.6	9/2/2014 21:21	65.5
3/2/2014 12:01	59.5	3/2/2014 21:06	59.9	5/2/2014 22:11	61.7	8/2/2014 19:16	61.2	9/2/2014 12:21	66.0	9/2/2014 21:26	66.0
3/2/2014 12:06	60.2	3/2/2014 21:11	59.8	5/2/2014 22:16	60.7	8/2/2014 19:21	61.7	9/2/2014 12:26	66.0	9/2/2014 21:31	65.1
3/2/2014 12:11	60.0	3/2/2014 21:16	60.3	5/2/2014 22:21	60.8	8/2/2014 19:26	62.6	9/2/2014 12:31	64.8	9/2/2014 21:36	65.0
3/2/2014 12:16	61.1	3/2/2014 21:21	59.9	5/2/2014 22:26	60.4	8/2/2014 19:31	61.3	9/2/2014 12:36	65.2	9/2/2014 21:41	65.3
3/2/2014 12:21	60.4	3/2/2014 21:26	60.5	5/2/2014 22:31	60.1	8/2/2014 19:36	61.5	9/2/2014 12:41	65.0	9/2/2014 21:46	66.2
3/2/2014 12:26	60.8	3/2/2014 21:31	60.6	5/2/2014 22:36	58.5	8/2/2014 19:41	61.5	9/2/2014 12:46	64.9	9/2/2014 21:51	65.2
3/2/2014 12:31	60.5	3/2/2014 21:36	60.0	5/2/2014 22:41	59.9	8/2/2014 19:46	61.4	9/2/2014 12:51	65.3	9/2/2014 21:56	65.5
3/2/2014 12:36	58.7	3/2/2014 21:41	61.2	5/2/2014 22:46	60.3	8/2/2014 19:51	60.8	9/2/2014 12:56	65.8	9/2/2014 22:01	65.2
3/2/2014 12:41	60.5	3/2/2014 21:46	60.1	5/2/2014 22:51	59.7	8/2/2014 19:56	61.2	9/2/2014 13:01	66.6	9/2/2014 22:06	65.6
3/2/2014 12:46	60.8	3/2/2014 21:51	60.7	5/2/2014 22:56	58.4	8/2/2014 20:01	61.9	9/2/2014 13:06	65.6	9/2/2014 22:11	64.7
3/2/2014 12:51	62.9	3/2/2014 21:56	61.3	6/2/2014 19:01	62.9	8/2/2014 20:06	61.4	9/2/2014 13:11	64.7	9/2/2014 22:16	65.0
3/2/2014 12:56	60.7	3/2/2014 22:01	60.0	6/2/2014 19:06	63.2	8/2/2014 20:11	60.7	9/2/2014 13:16	64.9	9/2/2014 22:21	64.8
3/2/2014 13:01	60.3	3/2/2014 22:06	61.3	6/2/2014 19:11	62.6	8/2/2014 20:16	61.4	9/2/2014 13:21	65.4	9/2/2014 22:26	64.3
3/2/2014 13:06	61.4	3/2/2014 22:11	60.3	6/2/2014 19:16	62.4	8/2/2014 20:21	60.2	9/2/2014 13:26	65.4	9/2/2014 22:31	65.0
3/2/2014 13:11	59.7	3/2/2014 22:16	61.7	6/2/2014 19:21	62.8	8/2/2014 20:26	60.5	9/2/2014 13:31	65.2	9/2/2014 22:36	64.6
3/2/2014 13:16	60.0	3/2/2014 22:21	60.7	6/2/2014 19:26	62.5	8/2/2014 20:31	60.0	9/2/2014 13:36	65.2	9/2/2014 22:41	64.6
3/2/2014 13:21	59.7	3/2/2014 22:26	60.0	6/2/2014 19:31	62.6	8/2/2014 20:36	60.7	9/2/2014 13:41	65.0	9/2/2014 22:46	64.8
3/2/2014 13:26	60.2	3/2/2014 22:31	59.5	6/2/2014 19:36	63.2	8/2/2014 20:41	60.3	9/2/2014 13:46	65.6	9/2/2014 22:51	63.9
3/2/2014 13:31	60.3	3/2/2014 22:36	59.7	6/2/2014 19:41	62.6	8/2/2014 20:46	59.7	9/2/2014 13:51	65.1	9/2/2014 22:56	64.0
3/2/2014 13:36	59.8	3/2/2014 22:41	60.3	6/2/2014 19:46	62.8	8/2/2014 20:51	60.8	9/2/2014 13:56	64.7	10/2/2014 19:01	69.1
3/2/2014 13:41	59.8	3/2/2014 22:46	60.7	6/2/2014 19:51	63.1	8/2/2014 20:56	62.5	9/2/2014 14:01	65.0	10/2/2014 19:06	68.0
3/2/2014 13:46	60.8	3/2/2014 22:51	60.1	6/2/2014 19:56	62.5	8/2/2014 21:01	60.6	9/2/2014 14:06	65.1	10/2/2014 19:11	66.0
3/2/2014 13:51	60.9	3/2/2014 22:56	59.5	6/2/2014 20:01	62.5	8/2/2014 21:06	61.3	9/2/2014 14:11	65.3	10/2/2014 19:16	67.4
3/2/2014 13:56	59.8	4/2/2014 19:01	63.0	6/2/2014 20:06	61.8	8/2/2014 21:11	60.1	9/2/2014 14:16	65.0	10/2/2014 19:21	65.3
3/2/2014 14:01	60.3	4/2/2014 19:06	63.4	6/2/2014 20:11	61.9	8/2/2014 21:16	59.6	9/2/2014 14:21	65.5	10/2/2014 19:26	65.0
3/2/2014 14:06	61.0	4/2/2014 19:11	63.2	6/2/2014 20:16	62.6	8/2/2014 21:21	60.3	9/2/2014 14:26	64.6	10/2/2014 19:31	65.7
3/2/2014 14:11	60.5	4/2/2014 19:16	63.1	6/2/2014 20:21	61.4	8/2/2014 21:26	60.5	9/2/2014 14:31	63.9	10/2/2014 19:36	65.0
3/2/2014 14:16	59.4	4/2/2014 19:21	63.0	6/2/2014 20:26	60.8	8/2/2014 21:31	60.3	9/2/2014 14:36	64.7	10/2/2014 19:41	64.9
3/2/2014 14:21	61.3	4/2/2014 19:26	62.5	6/2/2014 20:31	60.8	8/2/2014 21:36	61.0	9/2/2014 14:41	65.6	10/2/2014 19:46	65.1
3/2/2014 14:26	60.2	4/2/2014 19:31	63.7	6/2/2014 20:36	61.4	8/2/2014 21:41	61.7	9/2/2014 14:46	65.6	10/2/2014 19:51	65.3
3/2/2014 14:31	60.9	4/2/2014 19:36	62.4	6/2/2014 20:41	61.2	8/2/2014 21:46	61.6	9/2/2014 14:51	65.6	10/2/2014 19:56	64.6
3/2/2014 14:36	60.5	4/2/2014 19:41	62.5	6/2/2014 20:46	61.5	8/2/2014 21:51	62.0	9/2/2014 14:56	65.9	10/2/2014 20:01	64.5
3/2/2014 14:41	60.4	4/2/2014 19:46	61.5	6/2/2014 20:51	62.3	8/2/2014 21:56	60.9	9/2/2014 15:01	65.2	10/2/2014 20:06	64.8
3/2/2014 14:46	60.9	4/2/2014 19:51	61.3	6/2/2014 20:56	63.0	8/2/2014 22:01	60.9	9/2/2014 15:06	65.6	10/2/2014 20:11	64.3
3/2/2014 14:51	61.9	4/2/2014 19:56	65.7	6/2/2014 21:01	60.2	8/2/2014 22:06	61.3	9/2/2014 15:11	65.3	10/2/2014 20:16	63.3
3/2/2014 14:56	62.3	4/2/2014 20:01	62.0	6/2/2014 21:06	61.1	8/2/2014 22:11	62.3	9/2/2014 15:16	65.6	10/2/2014 20:21	63.8
3/2/2014 15:01	61.2	4/2/2014 20:06	61.4	6/2/2014 21:11	61.3	8/2/2014 22:16	61.0	9/2/2014 15:21	65.5	10/2/2014 20:26	64.1
3/2/2014 15:06	62.7	4/2/2014 20:11	61.6	6/2/2014 21:16	60.9	8/2/2014 22:21	62.3	9/2/2014 15:26	64.6	10/2/2014 20:31	63.1
3/2/2014 15:11	61.0	4/2/2014 20:16	61.7	6/2/2014 21:21	61.6	8/2/2014 22:26	61.2	9/2/2014 15:31	65.0	10/2/2014 20:36	64.4
3/2/2014 15:16	61.5	4/2/2014 20:21	61.1	6/2/2014 21:26	62.9	8/2/2014 22:31	60.9	9/2/2014 15:36	64.7	10/2/2014 20:41	63.4
3/2/2014 15:21	62.1	4/2/2014 20:26	63.2	6/2/2014 21:31	60.6	8/2/2014 22:36	61.6	9/2/2014 15:41	64.3	10/2/2014 20:46	63.3
3/2/2014 15:26	60.6	4/2/2014 20:31	62.4	6/2/2014 21:36	60.9	8/2/2014 22:41	62.0	9/2/2014 15:46	65.5	10/2/2014 20:51	63.0
3/2/2014 15:31	62.2	4/2/2014 20:36	60.5	6/2/2014 21:41	61.7	8/2/2014 22:46	61.8	9/2/2014 15:51	65.6	10/2/2014 20:56	63.2
3/2/2014 15:36	62.5	4/2/2014 20:41	61.2	6/2/2014 21:46	60.7	8/2/2014 22:51	61.2	9/2/2014 15:56	65.4	10/2/2014 21:01	62.8
3/2/2014 15:41	61.1	4/2/2014 20:46	60.5	6/2/2014 21:51	61.3	8/2/2014 22:56	62.0	9/2/2014 16:01	65.5	10/2/2014 21:06	62.9
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3/2/2014 16:16	61.3	4/2/2014 21:21	61.0	6/2/2014 22:26	60.0	9/2/2014 7:31	53.9	9/2/2014 16:36	65.6	10/2/2014 21:41	61.9
3/2/2014 16:21	62.9	4/2/2014 21:26	60.1	6/2/2014 22:31	61.9	9/2/2014 7:36	56.1	9/2/2014 16:41	65.9	10/2/2014 21:46	61.7

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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10/2/2014 21:56 60.3	13/2/2014 19:01 67.0	15/2/2014 20:06 62.7	16/2/2014 13:11 63.7	16/2/2014 22:16 62.5	19/2/2014 19:21 65.8
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11/2/2014 22:21 62.6	14/2/2014 19:26 55.9	16/2/2014 8:31 61.1	16/2/2014 17:36 63.6	17/2/2014 22:41 62.9	20/2/2014 19:46 57.5
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11/2/2014 22:31 63.6	14/2/2014 19:36 53.2	16/2/2014 8:41 60.1	16/2/2014 17:46 62.9	17/2/2014 22:51 63.1	20/2/2014 19:56 51.3
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11/2/2014 22:46 62.1	14/2/2014 19:51 61.9	16/2/2014 8:56 61.1	16/2/2014 18:01 63.6	18/2/2014 19:06 68.3	20/2/2014 20:11 54.5
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12/2/2014 22:01 62.8	15/2/2014 19:06 63.6	16/2/2014 12:11 62.9	16/2/2014 21:16 62.1	18/2/2014 22:21 63.4	21/2/2014 19:26 65.6
12/2/2014 22:06 62.9	15/2/2014 19:11 63.3	16/2/2014 12:16 63.4	16/2/2014 21:21 62.2	18/2/2014 22:26 62.8	21/2/2014 19:31 64.3
12/2/2014 22:11 62.7	15/2/2014 19:16 63.4	16/2/2014 12:21 63.5	16/2/2014 21:26 62.8	18/2/2014 22:31 63.0	21/2/2014 19:36 64.5
12/2/2014 22:16 63.2	15/2/2014 19:21 63.3	16/2/2014 12:26 63.8	16/2/2014 21:31 62.5	18/2/2014 22:36 63.1	21/2/2014 19:41 64.4
12/2/2014 22:21 64.0	15/2/2014 19:26 66.6	16/2/2014 12:31 63.9	16/2/2014 21:36 61.9	18/2/2014 22:41 63.2	21/2/2014 19:46 64.1
12/2/2014 22:26 63.7	15/2/2014 19:31 63.5	16/2/2014 12:36 63.6	16/2/2014 21:41 62.1	18/2/2014 22:46 62.5	21/2/2014 19:51 64.9
12/2/2014 22:31 63.8	15/2/2014 19:36 63.4	16/2/2014 12:41 64.1	16/2/2014 21:46 62.3	18/2/2014 22:51 62.4	21/2/2014 19:56 63.6
12/2/2014 22:36 62.3	15/2/2014 19:41 62.9	16/2/2014 12:46 64.0	16/2/2014 21:51 61.8	18/2/2014 22:56 63.3	21/2/2014 20:01 63.8
12/2/2014 22:41 62.5	15/2/2014 19:46 63.2	16/2/2014 12:51 63.3	16/2/2014 21:56 61.4	19/2/2014 19:01 65.2	21/2/2014 20:06 63.6
12/2/2014 22:46 62.3	15/2/2014 19:51 63.8	16/2/2014 12:56 64.6	16/2/2014 22:01 65.3	19/2/2014 19:06 64.3	21/2/2014 20:11 65.8
12/2/2014 22:51 62.9	15/2/2014 19:56 63.1	16/2/2014 13:01 63.8	16/2/2014 22:06 63.1	19/2/2014 19:11 64.4	21/2/2014 20:16 63.3

Real-time Noise Data

RTN2a (Hong Kong Electric Centre)

21/2/2014 20:21	64.2	23/2/2014 9:26	65.0	23/2/2014 18:31	63.9	25/2/2014 19:36	64.5	27/2/2014 20:41	63.4	28/1/2014 6:31	59.5
21/2/2014 20:26	64.8	23/2/2014 9:31	65.3	23/2/2014 18:36	63.8	25/2/2014 19:41	64.0	27/2/2014 20:46	63.3	28/1/2014 6:36	61.3
21/2/2014 20:31	64.3	23/2/2014 9:36	65.4	23/2/2014 18:41	63.9	25/2/2014 19:46	64.1	27/2/2014 20:51	63.2	28/1/2014 6:41	62.4
21/2/2014 20:36	63.9	23/2/2014 9:41	65.7	23/2/2014 18:46	64.1	25/2/2014 19:51	63.4	27/2/2014 20:56	62.8	28/1/2014 6:46	61.4
21/2/2014 20:41	65.5	23/2/2014 9:46	64.8	23/2/2014 18:51	63.9	25/2/2014 19:56	64.5	27/2/2014 21:01	63.1	28/1/2014 6:51	62.9
21/2/2014 20:46	65.2	23/2/2014 9:51	65.7	23/2/2014 18:56	63.9	25/2/2014 20:01	63.9	27/2/2014 21:06	62.4	28/1/2014 6:56	62.8
21/2/2014 20:51	63.9	23/2/2014 9:56	65.2	23/2/2014 19:01	63.4	25/2/2014 20:06	63.8	27/2/2014 21:11	63.4	28/1/2014 23:01	63.8
21/2/2014 20:56	63.2	23/2/2014 10:01	64.3	23/2/2014 19:06	63.4	25/2/2014 20:11	63.5	27/2/2014 21:16	63.3	28/1/2014 23:06	63.4
21/2/2014 21:01	62.8	23/2/2014 10:06	64.2	23/2/2014 19:11	63.4	25/2/2014 20:16	63.9	27/2/2014 21:21	63.6	28/1/2014 23:11	63.6
21/2/2014 21:06	62.8	23/2/2014 10:11	64.4	23/2/2014 19:16	63.1	25/2/2014 20:21	63.8	27/2/2014 21:26	62.9	28/1/2014 23:16	63.7
21/2/2014 21:11	63.0	23/2/2014 10:16	63.7	23/2/2014 19:21	63.8	25/2/2014 20:26	63.7	27/2/2014 21:31	63.4	28/1/2014 23:21	63.0
21/2/2014 21:16	63.8	23/2/2014 10:21	62.7	23/2/2014 19:26	63.4	25/2/2014 20:31	63.8	27/2/2014 21:36	64.6	28/1/2014 23:26	63.6
21/2/2014 21:21	62.8	23/2/2014 10:26	64.0	23/2/2014 19:31	67.0	25/2/2014 20:36	63.4	27/2/2014 21:41	63.1	28/1/2014 23:31	63.1
21/2/2014 21:26	62.6	23/2/2014 10:31	63.3	23/2/2014 19:36	63.3	25/2/2014 20:41	63.4	27/2/2014 21:46	63.0	28/1/2014 23:36	63.8
21/2/2014 21:31	63.4	23/2/2014 10:36	63.0	23/2/2014 19:41	63.4	25/2/2014 20:46	64.2	27/2/2014 21:51	63.1	28/1/2014 23:41	63.3
21/2/2014 21:36	63.5	23/2/2014 10:41	63.5	23/2/2014 19:46	62.6	25/2/2014 20:51	63.4	27/2/2014 21:56	62.5	28/1/2014 23:46	62.9
21/2/2014 21:41	63.1	23/2/2014 10:46	63.3	23/2/2014 19:51	62.1	25/2/2014 20:56	63.2	27/2/2014 22:01	63.0	28/1/2014 23:51	63.1
21/2/2014 21:46	63.3	23/2/2014 10:51	63.1	23/2/2014 19:56	64.0	25/2/2014 21:01	62.9	27/2/2014 22:06	63.5	28/1/2014 23:56	63.2
21/2/2014 21:51	63.4	23/2/2014 10:56	63.6	23/2/2014 20:01	61.7	25/2/2014 21:06	63.0	27/2/2014 22:11	63.7	29/1/2014 0:01	63.0
21/2/2014 21:56	63.0	23/2/2014 11:01	64.6	23/2/2014 20:06	63.0	25/2/2014 21:11	62.6	27/2/2014 22:16	63.7	29/1/2014 0:06	63.4
21/2/2014 22:01	64.6	23/2/2014 11:06	64.3	23/2/2014 20:11	62.9	25/2/2014 21:16	63.6	27/2/2014 22:21	63.2	29/1/2014 0:11	62.8
21/2/2014 22:06	63.5	23/2/2014 11:11	63.4	23/2/2014 20:16	62.7	25/2/2014 21:21	62.9	27/2/2014 22:26	64.0	29/1/2014 0:16	62.4
21/2/2014 22:11	62.6	23/2/2014 11:16	62.7	23/2/2014 20:21	63.1	25/2/2014 21:26	64.2	27/2/2014 22:31	63.7	29/1/2014 0:21	62.7
21/2/2014 22:16	63.8	23/2/2014 11:21	64.1	23/2/2014 20:26	62.8	25/2/2014 21:31	63.0	27/2/2014 22:36	64.2	29/1/2014 0:26	62.9
21/2/2014 22:21	63.9	23/2/2014 11:26	64.8	23/2/2014 20:31	62.5	25/2/2014 21:36	62.9	27/2/2014 22:41	62.6	29/1/2014 0:31	62.1
21/2/2014 22:26	63.8	23/2/2014 11:31	63.6	23/2/2014 20:36	63.2	25/2/2014 21:41	64.8	27/2/2014 22:46	63.0	29/1/2014 0:36	62.2
21/2/2014 22:31	64.8	23/2/2014 11:36	63.5	23/2/2014 20:41	62.9	25/2/2014 21:46	63.5	27/2/2014 22:51	62.7	29/1/2014 0:41	62.0
21/2/2014 22:36	64.2	23/2/2014 11:41	63.8	23/2/2014 20:46	63.2	25/2/2014 21:51	63.4	27/2/2014 22:56	62.7	29/1/2014 0:46	61.2
21/2/2014 22:41	64.2	23/2/2014 11:46	62.5	23/2/2014 20:51	62.8	25/2/2014 21:56	63.1			29/1/2014 0:51	61.1
21/2/2014 22:46	63.1	23/2/2014 11:51	64.4	23/2/2014 20:56	62.9	25/2/2014 22:01	63.1	Night time: 23:00-07:00		29/1/2014 0:56	61.6
21/2/2014 22:51	63.8	23/2/2014 11:56	63.4	23/2/2014 21:01	63.2	25/2/2014 22:06	63.5			29/1/2014 1:01	61.5
21/2/2014 22:56	63.6	23/2/2014 12:01	62.9	23/2/2014 21:06	63.2	25/2/2014 22:11	63.5	28/1/2014 0:01	63.6	29/1/2014 1:06	64.1
22/2/2014 19:01	63.6	23/2/2014 12:06	63.5	23/2/2014 21:11	63.1	25/2/2014 22:16	63.8	28/1/2014 0:06	62.9	29/1/2014 1:11	61.4
22/2/2014 19:06	63.6	23/2/2014 12:11	63.7	23/2/2014 21:16	63.2	25/2/2014 22:21	63.7	28/1/2014 0:11	62.3	29/1/2014 1:16	59.4
22/2/2014 19:11	64.6	23/2/2014 12:16	63.9	23/2/2014 21:21	64.0	25/2/2014 22:26	63.6	28/1/2014 0:16	62.7	29/1/2014 1:21	61.8
22/2/2014 19:16	64.2	23/2/2014 12:21	64.1	23/2/2014 21:26	62.7	25/2/2014 22:31	62.3	28/1/2014 0:21	61.4	29/1/2014 1:26	60.7
22/2/2014 19:21	65.4	23/2/2014 12:26	63.9	23/2/2014 21:31	62.4	25/2/2014 22:36	62.5	28/1/2014 0:26	61.5	29/1/2014 1:31	60.1
22/2/2014 19:26	64.7	23/2/2014 12:31	64.0	23/2/2014 21:36	63.0	25/2/2014 22:41	62.9	28/1/2014 0:31	61.6	29/1/2014 1:36	59.1
22/2/2014 19:31	64.2	23/2/2014 12:36	63.5	23/2/2014 21:41	63.8	25/2/2014 22:46	62.7	28/1/2014 0:36	61.2	29/1/2014 1:41	59.8
22/2/2014 19:36	65.2	23/2/2014 12:41	63.9	23/2/2014 21:46	63.4	25/2/2014 22:51	62.2	28/1/2014 0:41	61.3	29/1/2014 1:46	58.7
22/2/2014 19:41	63.9	23/2/2014 12:46	63.5	23/2/2014 21:51	63.2	25/2/2014 22:56	63.4	28/1/2014 0:46	60.2	29/1/2014 1:51	59.5
22/2/2014 19:46	63.2	23/2/2014 12:51	68.5	23/2/2014 21:56	63.0	26/2/2014 19:01	64.8	28/1/2014 0:51	60.6	29/1/2014 1:56	60.4
22/2/2014 19:51	63.9	23/2/2014 12:56	64.7	23/2/2014 22:01	62.0	26/2/2014 19:06	65.0	28/1/2014 0:56	62.8	29/1/2014 2:01	58.1
22/2/2014 19:56	63.6	23/2/2014 13:01	63.6	23/2/2014 22:06	62.7	26/2/2014 19:11	65.2	28/1/2014 1:01	60.2	29/1/2014 2:06	59.0
22/2/2014 20:01	63.3	23/2/2014 13:06	63.8	23/2/2014 22:11	62.6	26/2/2014 19:16	65.4	28/1/2014 1:06	61.9	29/1/2014 2:11	56.8
22/2/2014 20:06	63.8	23/2/2014 13:11	63.5	23/2/2014 22:16	62.4	26/2/2014 19:21	65.2	28/1/2014 1:11	59.6	29/1/2014 2:16	57.7
22/2/2014 20:11	62.7	23/2/2014 13:16	63.8	23/2/2014 22:21	62.8	26/2/2014 19:26	64.9	28/1/2014 1:16	59.5	29/1/2014 2:21	57.3
22/2/2014 20:16	63.3	23/2/2014 13:21	64.1	23/2/2014 22:26	62.2	26/2/2014 19:31	64.7	28/1/2014 1:21	60.7	29/1/2014 2:26	58.4
22/2/2014 20:21	63.0	23/2/2014 13:26	64.4	23/2/2014 22:31	63.6	26/2/2014 19:36	64.0	28/1/2014 1:26	60.4	29/1/2014 2:31	58.7
22/2/2014 20:26	62.6	23/2/2014 13:31	64.5	23/2/2014 22:36	62.9	26/2/2014 19:41	64.0	28/1/2014 1:31	60.0	29/1/2014 2:36	67.1
22/2/2014 20:31	64.1	23/2/2014 13:36	64.3	23/2/2014 22:41	62.2	26/2/2014 19:46	64.1	28/1/2014 1:36	59.4	29/1/2014 2:41	65.9
22/2/2014 20:36	63.6	23/2/2014 13:41	64.0	23/2/2014 22:46	61.9	26/2/2014 19:51	64.7	28/1/2014 1:41	59.0	29/1/2014 2:46	60.3
22/2/2014 20:41	63.9	23/2/2014 13:46	64.6	23/2/2014 22:51	62.1	26/2/2014 19:56	64.6	28/1/2014 1:46	59.7	29/1/2014 2:51	57.2
22/2/2014 20:46	62.6	23/2/2014 13:51	64.4	23/2/2014 22:56	62.0	26/2/2014 20:01	64.1	28/1/2014 1:51	57.4	29/1/2014 2:56	57.0
22/2/2014 20:51	62.1	23/2/2014 13:56	64.0	24/2/2014 19:01	65.1	26/2/2014 20:06	63.5	28/1/2014 1:56	57.3	29/1/2014 3:01	54.6
22/2/2014 20:56	62.0	23/2/2014 14:01	64.0	24/2/2014 19:06	64.1	26/2/2014 20:11	63.4	28/1/2014 2:01	58.0	29/1/2014 3:06	55.8
22/2/2014 21:01	61.4	23/2/2014 14:06	63.7	24/2/2014 19:11	64.3	26/2/2014 20:16	64.5	28/1/2014 2:06	56.8	29/1/2014 3:11	55.4
22/2/2014 21:06	62.6	23/2/2014 14:11	63.3	24/2/2014 19:16	64.7	26/2/2014 20:21	63.9	28/1/2014 2:11	58.1	29/1/2014 3:16	50.9
22/2/2014 21:11	62.9	23/2/2014 14:16	64.9	24/2/2014 19:21	64.9	26/2/2014 20:26	65.7	28/1/2014 2:16	59.2	29/1/2014 3:21	52.3
22/2/2014 21:16	62.5	23/2/2014 14:21	64.7	24/2/2014 19:26	64.3	26/2/2014 20:31	63.6	28/1/2014 2:21	56.9	29/1/2014 3:26	57.8
22/2/2014 21:21	62.4	23/2/2014 14:26	64.5	24/2/2014 19:31	63.9	26/2/2014 20:36	63.2	28/1/2014 2:26	57.5	29/1/2014 3:31	53.2
22/2/2014 21:26	62.9	23/2/2014 14:31	64.1	24/2/2014 19:36	64.6	26/2/2014 20:41	63.3	28/1/2014 2:31	55.9	29/1/2014 3:36	54.2
22/2/2014 21:31	62.1	23/2/2014 14:36	64.5	24/2/2014 19:41	65.0	26/2/2014 20:46	63.7	28/1/2014 2:36	56.4	29/1/2014 3:41	53.3
22/2/2014 21:36	61.9	23/2/2014 14:41	64.5	24/2/2014 19:46	64.4	26/2/2014 20:51	63.0	28/1/2014 2:41	55.3	29/1/2014 3:46	53.2
22/2/2014 21:41	64.0	23/2/2014 14:46	64.5	24/2/2014 19:51	63.9	26/2/2014 20:56	63.4	28/1/2014 2:46	56.2	29/1/2014 3:51	55.3
22/2/2014 21:46	62.6	23/2/2014 14:51	64.6	24/2/2014 19:56	64.2	26/2/2014 21:01	63.1	28/1/2014 2:51	56.8	29/1/2014 3:56	48.6
22/2/2014 21:51	62.6	23/2/2014 14:56	63.6	24/2/2014 20:01	65.1	26/2/2014 21:06	64.7	28/1/2014 2:56	53.5	29/1/2014 4:01	46.8
22/2/2014 21:56	63.9	23/2/2014 15:01	64.4	24/2/2014 20:06	63.9	26/2/2014 21:11	62.8	28/1/2014 3:01	52.6	29/1/2014 4:06	49.2
22/2/2014 22:01	62.5	23/2/2014 15:06	64.3	24/2/2014 20:11	63.5	26/2/2014 21:16	62.8	28/1/2014 3:06	51.4	29/1/2014 4:11	52.9
22/2/2014 22:06	61.8	23/2/2014 15:11	64.0	24/2/2014 20:16	63.5	26/2/2014 21:21	64.2	28/1/2014 3:11	53.1	29/1/2014 4:16	51.5
22/2/2014 22:11	63.4	23/2/2014 15:16	64.1	24/2/2014 20:21	63.6	26/2/2014 21:26	63.4	28/1/2014 3:16	50.7	29/1/2014 4:21	52.2
22/2/2014 22:16	63.3	23/2/2014 15:21	64.1	24/2/2014 20:26	63.7	26/2/2014 21:31	62.9	28/1/2014 3:21	52.7	29/1/2014 4:26	53.2
22/2/2014 22:21	62.8	23/2/2014 15:26	63.8	24/2/2014 20:31	64.0	26/2/2014 21:36	62.9	28/1/2014 3:26	52.3	29/1/2014 4:31	58.1
22/2/2014 22:26	62.2	23/2/2014 15:31	64.0	24/2/2014 20:36	63.5	26/2/2014 21:41	62.7	28/1/2014 3:31	53.3	29/1/2014 4:36	54.1
22/2/2014 22:31	63.0	23/2/2014 15:36	63.1	24/2/2014 20:41	62.8	26/2/2014 21:46	63.0	28/1/2014 3:36	51.7	29/1/2014 4:41	53.9
22/2/2014 22:36	62.6	23/2/2014 15:41	64.1	24/2/2014 20:46	63.4	26/2/2014 21:51	63.0	28/1/2014 3:41	59.6	29/1/2014 4:46	54.6
22/2/2014 22:41	62.7	23/2/2014 15:46	63.9	24/2/2014 20:51	62.8	26/2/2014 21:56	64.2	28/1/2014 3:46	51.3	29/1/2014 4:51	53.9
22/2/2014 22:46	62.5	23/2/2014 15:51	63.9	24/2/2014 20:56	62.9	26/2/2014 22:01	62.9	28/1/2014 3:51	45.0	29/1/2014 4:56	49.6
22/2/2014 22:51	63.6	23/2/2014 15:56	63.5	24/2/2014 21:01	62.9	26/2/2014 22:06	62.3	28/1/2014 3:56	51.4	29/1/2014 5:01	53.5
22/2/2014 22:56	62.7	23/2/2014 16:01	64.4	24/2/2014 21:06	63.4	26/2/2014 22:11	63.3	28/1/2014 4:01	49.6	29/1/2014 5:06	55.6
23/2/2014 7:01	40.3	23/2/2014 16:06	64.5	24/2/2014 21:11	63.6	26/2/2014 22:16	64.1	28/1/2014 4:06	50.1	29/1/2014 5:11	56.2
23/2/2014 7:06	61.7	23/2/2014 16:11	63.5	24/2/2014 21:16	62.8	26/2/2014 22:21	63.4	28/1/2014 4:11	40.4	29/1/2014 5:16	51.5
23/2/2014 7:11	58.5	23/2/2014 16:16	64.3	24/2/2014 21:21	63.4	26/2/2014 22:26	63.0	28/1/2014 4:16	44.3	29/1/2014 5:21	51.2
23/2/2014 7:16	60.6	23/2/2014 16:21	63.6	24/2/2014 21:26	62.5	26/2/2014 22:31	64.1	28/1/2014 4:21	56.9	29/1/2014 5:26	54.1
23/2/2014 7:21	61.4	23/2/2014 16:26	63.9	24/2/2014 21:31	63.0	26/2/2014 22:36	62.4	28/1/2014 4:26	47.9	29/1/2014 5:31	56.3
23/2/2014 7:26	64.0	23/2/2014 16:31	64.1	24/2/2014 21:36	63.4	26/2/2014 22:41	62.7	28/1/2014 4:31	50.1	29/1/2014 5:36	54.5
23/2/2014 7:31	59.7	23/2/2014 16:36	64.4	24/2/2014 21:41	63.6	26/2/2014 22:46	62.5	28/1/2014 4:36	54.5	29/1/2014 5:41	57.3
23/2/2014 7:36	61.0	23/2/2014 16:41	63.6	24/2/2014 21:46	63.4	26/2/2014 22:51	62.9	28/1/2014 4:41	58.3	29/1/2014 5:46	56.3
23/2/2014 7:41	60.5	23/2/2014 16:46	64.2	24/2/2014 21:51	63.1	26/2/2014 22:56	62.6	28/1/2014 4:46	57.3	29/1/2014 5:51	57.7
23/2/2014 7:46	57.7	23/2/2014 16:51	64.0	24/2/2014 21:56	63.2	27/2/2014 19:01	64.8	28/1/2014 4:51	50.6	29/1/2014 5:56	58.6
23/2/2014 7:51	58.9	23/2/2014 16:56	64.5	24/2/2014 22:01	62.2	27/2/2014 19:06	64.6	28/1/2014 4:56	56.0	29/1/2014 6:01	57.2
23/2/2014 7:56	59.1	23/2/2014 17:01	64.2	24/2/2014 22:06	63.2	27/2/2014 19:11	65.4	28/1/2014 5:01	53.0	29/1/2014 6:06	58.7
23/2/2014 8:01	58.6	23/2/2014 17:06	65.1	24/2/2014 22:11	63.0	27/2/2014 19:16	65.3	28/1/2014 5:06	53.3	29/1/2014 6:11	57.3
23/2/2014 8:06	59.6	23/2/2014 17:11	64.3	24/2/2014 22:16	62.4	27/2/2014 19:21	65.2	28/1/2014 5:11	49.5	29/1/2014 6:16	58.0
23/2/2014 8:11	60.8	23/2/2014 17:16	64.7	24/2/2014 22:21	62.4	27/2/2014 19:26	65.8	28/1/2014 5:16	55.3	29/1/2014 6:21	58.8
23/2/2014 8:16	61.4	23/2/2014 17:21	64.0	24/2/2014 22:26	63.0	27/2/2014 19:31	64.9	28/1/2014 5:21	59.4	29/1/2014 6:26	59.7
23/2/2014 8:21	63.6	23/2/2014 17:26	63.6	24/2/2014 22:31	62.6	27/2/2014 19:36	63.8	28/1/2014 5:26	55.4	29/1/2014 6:31	59.9
23/2/2014 8:26	64.5	23/2/2014 17:31	64.0	24/2/2014 22:36	62.7	27/2/2014 19:41	63.7	28/1/2014 5:31	54.6	29/1/2014 6:36	60.3
23/2/2014 8:31	63.6	23/2/2014 17:36	64.7	24/2/2014 22:41	63.3	27/2/2014 19:46	64.1	28/1/2014 5:36	56.4	29/1/2014 6:41	61.4
23/2/2014 8:36	64.3	23/2/2014 17:41	64.8	24/2/2014 22:46	62.6	27/2/2014 19:51	64.0	28/1/2014 5:41	56.8	29/1/2014 6:46	61.7
23/2/2014 8:41	64.2	23/2/2014 17:46	64.3	24/2/2014 22:51	62.8	27/2/2014 19:56	63.9	28/1/2014 5:46	56.2	29/1/2014 6:51	62.4
23/2/2014 8:46	64.4	23/2/2014 17:51	63.8	24/2/2014 22:56	61.4	27/2/2014 20:01	63.6	28/1/2014 5:51	57.0	29/1/2014 6:56	62.7
23/2/2014 8:51	64.3	23/2/2014 17:56	64.6	25/2/2014 19:01	64.9	27/2/2014 20:06	63.7	28/1/2014 5:56	57.2	29/1/2014 23:01	63.7
23/2/2014 8:56	64.2	23/2/2014 18:01	63.6	25/2/2014 19:06	65.3	27/2/2014 20:11	63.2	28/1/2014 6:01	56.6	29/1/2014 23:06	63.4
23/2/2014 9:01	64.0	23/2/2014 18:06	63.6	25/2/2014 19:11	64.8	27/2/2014 20:16	63.3	28/1/2014 6:06	58.3	29/1/2014 23:11	62.9
23/2/2014 9:06	63.9	23/2/2014 18:11	63.8	25/2/2014 19:16	63.8	27/2/2014 20:21	63.5	28/1/2014 6:11	59.0	29/1/2014 23:16	64.0
23/2/2014 9:11	64.8	23/2/2014 18:16	63.6	25/2/2014 19:21	62.8	27/2/2014 20:26	63.4	28/1/2014 6:16	60.3	29/1/2014 23:21	63.8
23/2/2014 9:16	64.9	23/2/2014 18:21	63.9	25/2/2014 19:26	63.3	27/2/2014 20:31	63.3	28/1/2014 6:21	58.4	29/1/2014 23:26	62.5
23/2/2014 9:21	65.2	23/2/2014 18:26	64.3	25/2/2014 19:31	63.8	27/2/2014 20:36	63.6	28/1/2014 6:26	60.8	29/1/2014 23:31	62.8

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

29/1/2014 23:36	63.0	31/1/2014 0:41	61.8	1/2/2014 1:46	58.3	2/2/2014 2:51	54.7	3/2/2014 3:56	54.2	4/2/2014 5:01	51.3
29/1/2014 23:41	62.8	31/1/2014 0:46	61.7	1/2/2014 1:51	59.7	2/2/2014 2:56	57.5	3/2/2014 4:01	59.5	4/2/2014 5:06	55.4
29/1/2014 23:46	62.2	31/1/2014 0:51	61.5	1/2/2014 1:56	58.5	2/2/2014 3:01	57.1	3/2/2014 4:06	55.6	4/2/2014 5:11	54.1
29/1/2014 23:51	62.5	31/1/2014 0:56	62.1	1/2/2014 2:01	58.7	2/2/2014 3:06	55.0	3/2/2014 4:11	55.1	4/2/2014 5:16	38.9
29/1/2014 23:56	63.2	31/1/2014 1:01	61.4	1/2/2014 2:06	57.5	2/2/2014 3:11	54.9	3/2/2014 4:16	53.3	4/2/2014 5:21	56.1
30/1/2014 0:01	62.9	31/1/2014 1:06	61.3	1/2/2014 2:11	56.3	2/2/2014 3:16	57.0	3/2/2014 4:21	54.4	4/2/2014 5:26	53.9
30/1/2014 0:06	62.5	31/1/2014 1:11	60.4	1/2/2014 2:16	56.8	2/2/2014 3:21	55.0	3/2/2014 4:26	55.1	4/2/2014 5:31	54.1
30/1/2014 0:11	62.4	31/1/2014 1:16	61.6	1/2/2014 2:21	57.2	2/2/2014 3:26	53.6	3/2/2014 4:31	51.7	4/2/2014 5:36	53.8
30/1/2014 0:16	62.5	31/1/2014 1:21	61.1	1/2/2014 2:26	57.0	2/2/2014 3:31	56.1	3/2/2014 4:36	52.9	4/2/2014 5:41	49.3
30/1/2014 0:21	61.2	31/1/2014 1:26	60.4	1/2/2014 2:31	56.6	2/2/2014 3:36	56.5	3/2/2014 4:41	51.5	4/2/2014 5:46	55.0
30/1/2014 0:26	62.3	31/1/2014 1:31	60.2	1/2/2014 2:36	56.9	2/2/2014 3:41	54.6	3/2/2014 4:46	53.4	4/2/2014 5:51	56.1
30/1/2014 0:31	61.8	31/1/2014 1:36	60.1	1/2/2014 2:41	52.0	2/2/2014 3:46	55.7	3/2/2014 4:51	51.3	4/2/2014 5:56	55.2
30/1/2014 0:36	61.1	31/1/2014 1:41	59.8	1/2/2014 2:46	56.6	2/2/2014 3:51	54.0	3/2/2014 4:56	54.5	4/2/2014 6:01	55.2
30/1/2014 0:41	63.3	31/1/2014 1:46	58.8	1/2/2014 2:51	54.0	2/2/2014 3:56	56.0	3/2/2014 5:01	55.3	4/2/2014 6:06	57.4
30/1/2014 0:46	61.5	31/1/2014 1:51	59.9	1/2/2014 2:56	55.4	2/2/2014 4:01	55.5	3/2/2014 5:06	55.4	4/2/2014 6:11	67.1
30/1/2014 0:51	61.8	31/1/2014 1:56	60.1	1/2/2014 3:01	51.4	2/2/2014 4:06	54.5	3/2/2014 5:11	55.4	4/2/2014 6:16	56.2
30/1/2014 0:56	61.1	31/1/2014 2:01	59.3	1/2/2014 3:06	53.6	2/2/2014 4:11	57.1	3/2/2014 5:16	55.2	4/2/2014 6:21	57.8
30/1/2014 1:01	61.4	31/1/2014 2:06	58.8	1/2/2014 3:11	54.7	2/2/2014 4:16	56.1	3/2/2014 5:21	54.5	4/2/2014 6:26	59.9
30/1/2014 1:06	61.1	31/1/2014 2:11	59.1	1/2/2014 3:16	54.1	2/2/2014 4:21	56.1	3/2/2014 5:26	54.3	4/2/2014 6:31	59.0
30/1/2014 1:11	60.9	31/1/2014 2:16	59.7	1/2/2014 3:21	56.7	2/2/2014 4:26	55.3	3/2/2014 5:31	47.7	4/2/2014 6:36	59.2
30/1/2014 1:16	60.6	31/1/2014 2:21	58.5	1/2/2014 3:26	31.9	2/2/2014 4:31	55.3	3/2/2014 5:36	54.6	4/2/2014 6:41	60.6
30/1/2014 1:21	61.0	31/1/2014 2:26	60.5	1/2/2014 3:31	56.5	2/2/2014 4:36	54.4	3/2/2014 5:41	54.1	4/2/2014 6:46	60.5
30/1/2014 1:26	60.1	31/1/2014 2:31	59.8	1/2/2014 3:36	54.4	2/2/2014 4:41	50.7	3/2/2014 5:46	56.2	4/2/2014 6:51	61.5
30/1/2014 1:31	59.7	31/1/2014 2:36	59.4	1/2/2014 3:41	49.8	2/2/2014 4:46	47.4	3/2/2014 5:51	54.8	4/2/2014 6:56	62.3
30/1/2014 1:36	60.4	31/1/2014 2:41	59.3	1/2/2014 3:46	52.4	2/2/2014 4:51	54.2	3/2/2014 5:56	56.9	4/2/2014 23:01	62.5
30/1/2014 1:41	59.0	31/1/2014 2:46	59.0	1/2/2014 3:51	55.2	2/2/2014 4:56	50.4	3/2/2014 6:01	55.1	4/2/2014 23:06	63.3
30/1/2014 1:46	59.0	31/1/2014 2:51	58.7	1/2/2014 3:56	53.2	2/2/2014 5:01	54.0	3/2/2014 6:06	54.5	4/2/2014 23:11	62.3
30/1/2014 1:51	60.4	31/1/2014 2:56	58.6	1/2/2014 4:01	51.4	2/2/2014 5:06	57.6	3/2/2014 6:11	53.7	4/2/2014 23:16	62.3
30/1/2014 1:56	58.6	31/1/2014 3:01	58.4	1/2/2014 4:06	49.2	2/2/2014 5:11	53.1	3/2/2014 6:16	57.8	4/2/2014 23:21	62.2
30/1/2014 2:01	59.1	31/1/2014 3:06	57.4	1/2/2014 4:11	50.7	2/2/2014 5:16	59.1	3/2/2014 6:21	58.5	4/2/2014 23:26	62.6
30/1/2014 2:06	60.1	31/1/2014 3:11	59.9	1/2/2014 4:16	50.4	2/2/2014 5:21	54.6	3/2/2014 6:26	56.8	4/2/2014 23:31	61.2
30/1/2014 2:11	57.8	31/1/2014 3:16	58.2	1/2/2014 4:21	53.4	2/2/2014 5:26	50.5	3/2/2014 6:31	57.9	4/2/2014 23:36	61.5
30/1/2014 2:16	58.8	31/1/2014 3:21	57.8	1/2/2014 4:26	48.7	2/2/2014 5:31	54.9	3/2/2014 6:36	55.8	4/2/2014 23:41	61.7
30/1/2014 2:21	57.8	31/1/2014 3:26	58.3	1/2/2014 4:31	50.3	2/2/2014 5:36	55.1	3/2/2014 6:41	58.8	4/2/2014 23:46	61.4
30/1/2014 2:26	57.3	31/1/2014 3:31	57.3	1/2/2014 4:36	52.8	2/2/2014 5:41	54.3	3/2/2014 6:46	59.8	4/2/2014 23:51	61.3
30/1/2014 2:31	57.9	31/1/2014 3:36	62.7	1/2/2014 4:41	52.0	2/2/2014 5:46	55.7	3/2/2014 6:51	59.7	4/2/2014 23:56	61.5
30/1/2014 2:36	57.8	31/1/2014 3:41	58.0	1/2/2014 4:46	52.0	2/2/2014 5:51	54.1	3/2/2014 6:56	60.1	5/2/2014 0:01	62.1
30/1/2014 2:41	56.1	31/1/2014 3:46	57.9	1/2/2014 4:51	43.1	2/2/2014 5:56	53.7	3/2/2014 23:01	62.3	5/2/2014 0:06	62.1
30/1/2014 2:46	56.8	31/1/2014 3:51	57.6	1/2/2014 4:56	44.0	2/2/2014 6:01	57.7	3/2/2014 23:06	62.9	5/2/2014 0:11	61.5
30/1/2014 2:51	58.4	31/1/2014 3:56	60.9	1/2/2014 5:01	55.8	2/2/2014 6:06	55.6	3/2/2014 23:11	62.5	5/2/2014 0:16	61.8
30/1/2014 2:56	57.0	31/1/2014 4:01	58.6	1/2/2014 5:06	54.5	2/2/2014 6:11	56.0	3/2/2014 23:16	62.4	5/2/2014 0:21	61.0
30/1/2014 3:01	57.3	31/1/2014 4:06	57.4	1/2/2014 5:11	47.5	2/2/2014 6:16	55.6	3/2/2014 23:21	62.1	5/2/2014 0:26	61.6
30/1/2014 3:06	56.0	31/1/2014 4:11	59.2	1/2/2014 5:16	58.1	2/2/2014 6:21	56.0	3/2/2014 23:26	62.7	5/2/2014 0:31	60.6
30/1/2014 3:11	56.1	31/1/2014 4:16	56.6	1/2/2014 5:21	53.4	2/2/2014 6:26	58.2	3/2/2014 23:31	62.1	5/2/2014 0:36	60.9
30/1/2014 3:16	57.2	31/1/2014 4:21	58.1	1/2/2014 5:26	50.3	2/2/2014 6:31	56.2	3/2/2014 23:36	62.8	5/2/2014 0:41	60.6
30/1/2014 3:21	56.8	31/1/2014 4:26	56.8	1/2/2014 5:31	52.8	2/2/2014 6:36	56.8	3/2/2014 23:41	62.1	5/2/2014 0:46	60.6
30/1/2014 3:26	56.2	31/1/2014 4:31	57.7	1/2/2014 5:36	53.0	2/2/2014 6:41	58.1	3/2/2014 23:46	61.6	5/2/2014 0:51	60.1
30/1/2014 3:31	51.7	31/1/2014 4:36	57.0	1/2/2014 5:41	50.1	2/2/2014 6:46	58.0	3/2/2014 23:51	60.6	5/2/2014 0:56	61.4
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30/1/2014 3:51	56.5	31/1/2014 4:56	56.0	1/2/2014 6:01	49.9	2/2/2014 23:06	62.3	4/2/2014 0:11	60.8	5/2/2014 1:16	59.2
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30/1/2014 4:01	49.8	31/1/2014 5:06	56.5	1/2/2014 6:11	51.1	2/2/2014 23:16	62.3	4/2/2014 0:21	60.2	5/2/2014 1:26	57.5
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30/1/2014 4:11	52.9	31/1/2014 5:16	61.0	1/2/2014 6:21	53.2	2/2/2014 23:26	62.5	4/2/2014 0:31	60.4	5/2/2014 1:36	59.7
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30/1/2014 4:51	51.8	31/1/2014 5:56	57.3	1/2/2014 23:01	62.5	3/2/2014 0:06	62.1	4/2/2014 1:11	58.5	5/2/2014 2:16	59.3
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30/1/2014 5:16	58.1	31/1/2014 6:21	56.5	1/2/2014 23:26	62.3	3/2/2014 0:31	60.6	4/2/2014 1:36	56.9	5/2/2014 2:41	56.6
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30/1/2014 5:36	57.3	31/1/2014 6:41	57.3	1/2/2014 23:46	62.7	3/2/2014 0:51	61.0	4/2/2014 1:56	56.2	5/2/2014 3:01	57.2
30/1/2014 5:41	53.2	31/1/2014 6:46	60.5	1/2/2014 23:51	61.9	3/2/2014 0:56	60.1	4/2/2014 2:01	57.3	5/2/2014 3:06	53.4
30/1/2014 5:46	55.4	31/1/2014 6:51	58.3	1/2/2014 23:56	62.1	3/2/2014 1:01	60.2	4/2/2014 2:06	55.3	5/2/2014 3:11	51.0
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30/1/2014 5:56	57.1	31/1/2014 23:01	61.5	2/2/2014 0:06	61.6	3/2/2014 1:11	61.1	4/2/2014 2:16	54.5	5/2/2014 3:21	51.8
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30/1/2014 6:31	59.9	31/1/2014 23:36	62.0	2/2/2014 0:41	60.5	3/2/2014 1:46	59.2	4/2/2014 2:51	57.1	5/2/2014 3:56	46.8
30/1/2014 6:36	60.5	31/1/2014 23:41	62.3	2/2/2014 0:46	61.6	3/2/2014 1:51	59.7	4/2/2014 2:56	57.3	5/2/2014 4:01	57.8
30/1/2014 6:41	60.6	31/1/2014 23:46	62.1	2/2/2014 0:51	65.3	3/2/2014 1:56	58.9	4/2/2014 3:01	48.8	5/2/2014 4:06	46.8
30/1/2014 6:46	60.9	31/1/2014 23:51	62.1	2/2/2014 0:56	59.6	3/2/2014 2:01	57.0	4/2/2014 3:06	48.3	5/2/2014 4:11	45.2
30/1/2014 6:51	65.4	31/1/2014 23:56	62.0	2/2/2014 1:01	59.9	3/2/2014 2:06	58.8	4/2/2014 3:11	49.8	5/2/2014 4:16	57.9
30/1/2014 6:56	62.3	1/2/2014 0:01	61.8	2/2/2014 1:06	59.7	3/2/2014 2:11	58.4	4/2/2014 3:16	50.0	5/2/2014 4:21	49.9
30/1/2014 23:01	62.7	1/2/2014 0:06	62.3	2/2/2014 1:11	59.9	3/2/2014 2:16	59.4	4/2/2014 3:21	41.5	5/2/2014 4:26	49.3
30/1/2014 23:06	62.7	1/2/2014 0:11	61.8	2/2/2014 1:16	58.8	3/2/2014 2:21	58.6	4/2/2014 3:26	46.7	5/2/2014 4:31	50.9
30/1/2014 23:11	62.9	1/2/2014 0:16	61.1	2/2/2014 1:21	58.6	3/2/2014 2:26	57.9	4/2/2014 3:31	58.1	5/2/2014 4:36	51.8
30/1/2014 23:16	62.3	1/2/2014 0:21	63.4	2/2/2014 1:26	60.3	3/2/2014 2:31	60.2	4/2/2014 3:36	51.1	5/2/2014 4:41	58.3
30/1/2014 23:21	62.6	1/2/2014 0:26	61.8	2/2/2014 1:31	58.8	3/2/2014 2:36	55.1	4/2/2014 3:41	57.8	5/2/2014 4:46	52.0
30/1/2014 23:26	62.4	1/2/2014 0:31	60.9	2/2/2014 1:36	59.3	3/2/2014 2:41	61.1	4/2/2014 3:46	49.6	5/2/2014 4:51	56.1
30/1/2014 23:31	63.2	1/2/2014 0:36	59.7	2/2/2014 1:41	59.0	3/2/2014 2:46	55.7	4/2/2014 3:51	54.2	5/2/2014 4:56	58.2
30/1/2014 23:36	62.1	1/2/2014 0:41	60.3	2/2/2014 1:46	59.2	3/2/2014 2:51	58.3	4/2/2014 3:56	50.0	5/2/2014 5:01	53.8
30/1/2014 23:41	61.8	1/2/2014 0:46	59.0	2/2/2014 1:51	57.8	3/2/2014 2:56	55.5	4/2/2014 4:01	58.0	5/2/2014 5:06	54.5
30/1/2014 23:46	62.7	1/2/2014 0:51	62.2	2/2/2014 1:56	58.4	3/2/2014 3:01	57.1	4/2/2014 4:06	51.5	5/2/2014 5:11	56.1
30/1/2014 23:51	62.5	1/2/2014 0:56	59.1	2/2/2014 2:01	58.5	3/2/2014 3:06	55.4	4/2/2014 4:11	57.8	5/2/2014 5:16	51.8
30/1/2014 23:56	62.8	1/2/2014 1:01	58.2	2/2/2014 2:06	58.0	3/2/2014 3:11	54.4	4/2/2014 4:16	52.8	5/2/2014 5:21	58.6
31/1/2014 0:01	62.6	1/2/2014 1:06	57.8	2/2/2014 2:11	58.5	3/2/2014 3:16	54.7	4/2/2014 4:21	53.1	5/2/2014 5:26	57.2
31/1/2014 0:06	62.8	1/2/2014 1:11	57.9	2/2/2014 2:16	58.4	3/2/2014 3:21	57.0	4/2/2014 4:26	48.8	5/2/2014 5:31	41.5
31/1/2014 0:11	62.5	1/2/2014 1:16	58.1	2/2/2014 2:21	61.6	3/2/2014 3:26	57.0	4/2/2014 4:31	57.5	5/2/2014 5:36	38.0
31/1/2014 0:16	63.0	1/2/2014 1:21	58.7	2/2/2014 2:26	57.2	3/2/2014 3:31	58.0	4/2/2014 4:36	48.5	5/2/2014 5:41	55.4
31/1/2014 0:21	62.6	1/2/2014 1:26	59.2	2/2/2014 2:31	57.7	3/2/2014 3:36	57.0	4/2/2014 4:41	47.1	5/2/2014 5:46	56.6
31/1/2014 0:26	62.0	1/2/2014 1:31	60.9	2/2/2014 2:36	57.1	3/2/2014 3:41	56.8	4/2/2014 4:46	46.4	5/2/2014 5:51	53.6
31/1/2014 0:31	61.1	1/2/2014 1:36	61.6	2/2/2014 2:41	56.5	3/2/2014 3:46	53.1	4/2/2014 4:51	48.0	5/2/2014 5:56	52.7
31/1/2014 0:36	61.4	1/2/2014 1:41	59.3	2/2/2014 2:46	57.5	3/2/2014 3:51	56.2	4/2/2014 4:56	46.2	5/2/2014 6:01	58.1

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

5/2/2014 6:06	56.3	6/2/2014 23:11	62.5	8/2/2014 0:16	60.4	9/2/2014 1:21	61.2	10/2/2014 2:26	57.7	11/2/2014 3:31	50.0
5/2/2014 6:11	57.8	6/2/2014 23:16	62.2	8/2/2014 0:21	59.3	9/2/2014 1:26	60.2	10/2/2014 2:31	56.5	11/2/2014 3:36	54.8
5/2/2014 6:16	57.7	6/2/2014 23:21	62.3	8/2/2014 0:26	59.0	9/2/2014 1:31	59.6	10/2/2014 2:36	58.9	11/2/2014 3:41	48.9
5/2/2014 6:21	56.6	6/2/2014 23:26	63.0	8/2/2014 0:31	59.2	9/2/2014 1:36	60.5	10/2/2014 2:41	57.8	11/2/2014 3:46	52.8
5/2/2014 6:26	58.7	6/2/2014 23:31	63.2	8/2/2014 0:36	59.3	9/2/2014 1:41	59.9	10/2/2014 2:46	56.2	11/2/2014 3:51	50.2
5/2/2014 6:31	59.8	6/2/2014 23:36	62.5	8/2/2014 0:41	61.8	9/2/2014 1:46	59.4	10/2/2014 2:51	56.8	11/2/2014 3:56	50.9
5/2/2014 6:36	60.8	6/2/2014 23:41	64.4	8/2/2014 0:46	64.6	9/2/2014 1:51	59.7	10/2/2014 2:56	56.0	11/2/2014 4:01	52.1
5/2/2014 6:41	60.7	6/2/2014 23:46	62.5	8/2/2014 0:51	61.4	9/2/2014 1:56	59.4	10/2/2014 3:01	56.2	11/2/2014 4:06	51.2
5/2/2014 6:46	60.8	6/2/2014 23:51	62.1	8/2/2014 0:56	60.7	9/2/2014 2:01	60.1	10/2/2014 3:06	55.2	11/2/2014 4:11	39.7
5/2/2014 6:51	62.0	6/2/2014 23:56	61.4	8/2/2014 1:01	73.0	9/2/2014 2:06	59.9	10/2/2014 3:11	52.0	11/2/2014 4:16	51.9
5/2/2014 6:56	62.3	7/2/2014 0:01	61.0	8/2/2014 1:06	72.0	9/2/2014 2:11	60.2	10/2/2014 3:16	56.1	11/2/2014 4:21	50.1
5/2/2014 23:01	62.1	7/2/2014 0:06	61.8	8/2/2014 1:11	61.5	9/2/2014 2:16	60.3	10/2/2014 3:21	54.3	11/2/2014 4:26	44.0
5/2/2014 23:06	61.9	7/2/2014 0:11	61.8	8/2/2014 1:16	60.5	9/2/2014 2:21	59.9	10/2/2014 3:26	54.8	11/2/2014 4:31	50.4
5/2/2014 23:11	62.7	7/2/2014 0:16	61.6	8/2/2014 1:21	59.6	9/2/2014 2:26	59.0	10/2/2014 3:31	54.8	11/2/2014 4:36	51.7
5/2/2014 23:16	62.7	7/2/2014 0:21	60.9	8/2/2014 1:26	60.1	9/2/2014 2:31	59.6	10/2/2014 3:36	56.6	11/2/2014 4:41	52.8
5/2/2014 23:21	61.5	7/2/2014 0:26	61.4	8/2/2014 1:31	59.8	9/2/2014 2:36	59.7	10/2/2014 3:41	54.4	11/2/2014 4:46	50.9
5/2/2014 23:26	61.8	7/2/2014 0:31	60.9	8/2/2014 1:36	60.0	9/2/2014 2:41	58.9	10/2/2014 3:46	50.9	11/2/2014 4:51	52.9
5/2/2014 23:31	61.5	7/2/2014 0:36	59.8	8/2/2014 1:41	60.3	9/2/2014 2:46	58.4	10/2/2014 3:51	48.7	11/2/2014 4:56	54.4
5/2/2014 23:36	61.5	7/2/2014 0:41	60.6	8/2/2014 1:46	67.9	9/2/2014 2:51	58.4	10/2/2014 3:56	55.5	11/2/2014 5:01	54.4
5/2/2014 23:41	60.8	7/2/2014 0:46	60.0	8/2/2014 1:51	63.8	9/2/2014 2:56	58.5	10/2/2014 4:01	55.1	11/2/2014 5:06	56.5
5/2/2014 23:46	61.8	7/2/2014 0:51	59.5	8/2/2014 1:56	66.4	9/2/2014 3:01	58.5	10/2/2014 4:06	53.2	11/2/2014 5:11	57.8
5/2/2014 23:51	61.3	7/2/2014 0:56	60.3	8/2/2014 2:01	67.6	9/2/2014 3:06	58.1	10/2/2014 4:11	55.3	11/2/2014 5:16	57.1
5/2/2014 23:56	61.0	7/2/2014 1:01	60.0	8/2/2014 2:06	71.1	9/2/2014 3:11	58.0	10/2/2014 4:16	53.3	11/2/2014 5:21	57.3
6/2/2014 0:01	61.5	7/2/2014 1:06	57.9	8/2/2014 2:11	71.0	9/2/2014 3:16	57.4	10/2/2014 4:21	51.2	11/2/2014 5:26	55.4
6/2/2014 0:06	61.5	7/2/2014 1:11	59.7	8/2/2014 2:16	73.7	9/2/2014 3:21	57.9	10/2/2014 4:26	52.9	11/2/2014 5:31	56.6
6/2/2014 0:11	60.7	7/2/2014 1:16	57.5	8/2/2014 2:21	72.9	9/2/2014 3:26	60.0	10/2/2014 4:31	48.1	11/2/2014 5:36	56.2
6/2/2014 0:16	61.1	7/2/2014 1:21	58.8	8/2/2014 2:26	72.9	9/2/2014 3:31	57.9	10/2/2014 4:36	56.2	11/2/2014 5:41	57.0
6/2/2014 0:21	61.1	7/2/2014 1:26	59.5	8/2/2014 2:31	77.0	9/2/2014 3:36	58.0	10/2/2014 4:41	55.2	11/2/2014 5:46	58.3
6/2/2014 0:26	60.9	7/2/2014 1:31	59.3	8/2/2014 2:36	73.0	9/2/2014 3:41	58.9	10/2/2014 4:46	55.3	11/2/2014 5:51	59.2
6/2/2014 0:31	61.4	7/2/2014 1:36	58.6	8/2/2014 2:41	72.3	9/2/2014 3:46	57.9	10/2/2014 4:51	57.9	11/2/2014 5:56	58.3
6/2/2014 0:36	60.2	7/2/2014 1:41	58.5	8/2/2014 2:46	71.2	9/2/2014 3:51	56.3	10/2/2014 4:56	53.5	11/2/2014 6:01	58.2
6/2/2014 0:41	60.4	7/2/2014 1:46	58.2	8/2/2014 2:51	68.3	9/2/2014 3:56	56.4	10/2/2014 5:01	55.5	11/2/2014 6:06	59.3
6/2/2014 0:46	59.7	7/2/2014 1:51	58.2	8/2/2014 2:56	66.1	9/2/2014 4:01	55.8	10/2/2014 5:06	57.6	11/2/2014 6:11	58.6
6/2/2014 0:51	60.2	7/2/2014 1:56	56.2	8/2/2014 3:01	56.9	9/2/2014 4:06	56.4	10/2/2014 5:11	58.0	11/2/2014 6:16	59.8
6/2/2014 0:56	59.2	7/2/2014 2:01	56.1	8/2/2014 3:06	57.0	9/2/2014 4:11	54.0	10/2/2014 5:16	58.1	11/2/2014 6:21	59.8
6/2/2014 1:01	59.6	7/2/2014 2:06	57.8	8/2/2014 3:11	62.4	9/2/2014 4:16	52.9	10/2/2014 5:21	58.1	11/2/2014 6:26	61.3
6/2/2014 1:06	58.8	7/2/2014 2:11	56.6	8/2/2014 3:16	73.0	9/2/2014 4:21	55.1	10/2/2014 5:26	55.6	11/2/2014 6:31	62.0
6/2/2014 1:11	59.5	7/2/2014 2:16	55.4	8/2/2014 3:21	73.4	9/2/2014 4:26	55.1	10/2/2014 5:31	56.7	11/2/2014 6:36	63.1
6/2/2014 1:16	59.2	7/2/2014 2:21	55.8	8/2/2014 3:26	69.5	9/2/2014 4:31	56.0	10/2/2014 5:36	57.4	11/2/2014 6:41	62.2
6/2/2014 1:21	58.7	7/2/2014 2:26	55.2	8/2/2014 3:31	69.5	9/2/2014 4:36	56.3	10/2/2014 5:41	60.0	11/2/2014 6:46	62.3
6/2/2014 1:26	58.9	7/2/2014 2:31	55.1	8/2/2014 3:36	67.2	9/2/2014 4:41	55.4	10/2/2014 5:46	58.9	11/2/2014 6:51	63.7
6/2/2014 1:31	58.6	7/2/2014 2:36	55.5	8/2/2014 3:41	59.3	9/2/2014 4:46	55.7	10/2/2014 5:51	59.2	11/2/2014 6:56	64.4
6/2/2014 1:36	58.1	7/2/2014 2:41	54.4	8/2/2014 3:46	57.7	9/2/2014 4:51	54.8	10/2/2014 5:56	58.4	11/2/2014 23:01	64.3
6/2/2014 1:41	57.6	7/2/2014 2:46	54.2	8/2/2014 3:51	59.0	9/2/2014 4:56	54.2	10/2/2014 6:01	59.0	11/2/2014 23:06	64.1
6/2/2014 1:46	56.1	7/2/2014 2:51	52.8	8/2/2014 3:56	58.1	9/2/2014 5:01	55.6	10/2/2014 6:06	60.7	11/2/2014 23:11	64.2
6/2/2014 1:51	55.4	7/2/2014 2:56	52.5	8/2/2014 4:01	59.9	9/2/2014 5:06	52.9	10/2/2014 6:11	61.5	11/2/2014 23:16	64.0
6/2/2014 1:56	57.2	7/2/2014 3:01	56.9	8/2/2014 4:06	55.9	9/2/2014 5:11	56.8	10/2/2014 6:16	61.3	11/2/2014 23:21	63.5
6/2/2014 2:01	53.8	7/2/2014 3:06	54.4	8/2/2014 4:11	53.6	9/2/2014 5:16	56.3	10/2/2014 6:21	61.7	11/2/2014 23:26	63.4
6/2/2014 2:06	55.6	7/2/2014 3:11	50.8	8/2/2014 4:16	53.4	9/2/2014 5:21	56.8	10/2/2014 6:26	62.6	11/2/2014 23:31	63.9
6/2/2014 2:11	57.6	7/2/2014 3:16	49.3	8/2/2014 4:21	56.3	9/2/2014 5:26	56.6	10/2/2014 6:31	63.2	11/2/2014 23:36	64.1
6/2/2014 2:16	55.2	7/2/2014 3:21	52.1	8/2/2014 4:26	55.3	9/2/2014 5:31	54.7	10/2/2014 6:36	63.7	11/2/2014 23:41	63.1
6/2/2014 2:21	56.5	7/2/2014 3:26	52.1	8/2/2014 4:31	54.8	9/2/2014 5:36	56.8	10/2/2014 6:41	63.7	11/2/2014 23:46	63.2
6/2/2014 2:26	54.0	7/2/2014 3:31	51.8	8/2/2014 4:36	54.8	9/2/2014 5:41	56.1	10/2/2014 6:46	63.9	11/2/2014 23:51	63.7
6/2/2014 2:31	55.4	7/2/2014 3:36	46.7	8/2/2014 4:41	56.0	9/2/2014 5:46	56.8	10/2/2014 6:51	65.1	11/2/2014 23:56	64.0
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6/2/2014 2:56	53.0	7/2/2014 4:01	58.2	8/2/2014 5:06	56.4	9/2/2014 6:11	56.5	10/2/2014 23:16	64.0	12/2/2014 0:21	62.4
6/2/2014 3:01	52.7	7/2/2014 4:06	50.2	8/2/2014 5:11	55.9	9/2/2014 6:16	56.6	10/2/2014 23:21	63.5	12/2/2014 0:26	62.5
6/2/2014 3:06	52.1	7/2/2014 4:11	49.9	8/2/2014 5:16	59.1	9/2/2014 6:21	57.0	10/2/2014 23:26	64.0	12/2/2014 0:31	61.7
6/2/2014 3:11	47.8	7/2/2014 4:16	45.2	8/2/2014 5:21	61.5	9/2/2014 6:26	58.2	10/2/2014 23:31	63.0	12/2/2014 0:36	61.6
6/2/2014 3:16	43.1	7/2/2014 4:21	58.2	8/2/2014 5:26	57.5	9/2/2014 6:31	58.5	10/2/2014 23:36	63.7	12/2/2014 0:41	61.7
6/2/2014 3:21	48.9	7/2/2014 4:26	57.9	8/2/2014 5:31	56.3	9/2/2014 6:36	58.8	10/2/2014 23:41	63.0	12/2/2014 0:46	61.1
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6/2/2014 3:36	52.8	7/2/2014 4:41	50.5	8/2/2014 5:46	57.8	9/2/2014 6:51	59.7	10/2/2014 23:56	63.4	12/2/2014 1:01	60.9
6/2/2014 3:41	51.4	7/2/2014 4:46	58.1	8/2/2014 5:51	58.1	9/2/2014 6:56	59.5	11/2/2014 0:01	63.3	12/2/2014 1:06	60.3
6/2/2014 3:46	52.1	7/2/2014 4:51	46.2	8/2/2014 5:56	56.1	9/2/2014 23:01	65.2	11/2/2014 0:06	63.4	12/2/2014 1:11	60.5
6/2/2014 3:51	49.2	7/2/2014 4:56	49.4	8/2/2014 6:01	55.7	9/2/2014 23:06	64.9	11/2/2014 0:11	62.4	12/2/2014 1:16	59.8
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6/2/2014 4:31	47.4	7/2/2014 5:36	50.9	8/2/2014 6:41	61.8	9/2/2014 23:46	65.3	11/2/2014 0:51	61.8	12/2/2014 1:56	57.9
6/2/2014 4:36	48.0	7/2/2014 5:41	55.6	8/2/2014 6:46	60.5	9/2/2014 23:51	64.1	11/2/2014 0:56	60.6	12/2/2014 2:01	57.1
6/2/2014 4:41	50.1	7/2/2014 5:46	54.4	8/2/2014 6:51	61.2	9/2/2014 23:56	64.6	11/2/2014 1:01	60.9	12/2/2014 2:06	57.9
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6/2/2014 4:56	57.7	7/2/2014 6:01	55.8	8/2/2014 23:06	63.8	10/2/2014 0:11	63.4	11/2/2014 1:16	59.1	12/2/2014 2:21	56.7
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6/2/2014 5:11	49.0	7/2/2014 6:16	58.3	8/2/2014 23:21	63.2	10/2/2014 0:26	64.7	11/2/2014 1:31	59.6	12/2/2014 2:36	56.7
6/2/2014 5:16	52.1	7/2/2014 6:21	58.3	8/2/2014 23:26	63.7	10/2/2014 0:31	63.6	11/2/2014 1:36	60.1	12/2/2014 2:41	56.6
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6/2/2014 5:31	31.9	7/2/2014 6:36	60.9	8/2/2014 23:41	62.7	10/2/2014 0:46	62.8	11/2/2014 1:51	59.1	12/2/2014 2:56	56.2
6/2/2014 5:36	48.3	7/2/2014 6:41	60.2	8/2/2014 23:46	62.3	10/2/2014 0:51	61.9	11/2/2014 1:56	58.0	12/2/2014 3:01	54.9
6/2/2014 5:41	54.8	7/2/2014 6:46	59.8	8/2/2014 23:51	62.4	10/2/2014 0:56	62.5	11/2/2014 2:01	57.5	12/2/2014 3:06	50.9
6/2/2014 5:46	54.1	7/2/2014 6:51	61.6	8/2/2014 23:56	62.7	10/2/2014 1:01	60.6	11/2/2014 2:06	58.3	12/2/2014 3:11	52.1
6/2/2014 5:51	55.5	7/2/2014 6:56	62.0	9/2/2014 0:01	63.0	10/2/2014 1:06	60.7	11/2/2014 2:11	57.9	12/2/2014 3:16	53.4
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6/2/2014 6:16	56.2	7/2/2014 23:21	61.4	9/2/2014 0:26	62.8	10/2/2014 1:31	60.2	11/2/2014 2:36	57.0	12/2/2014 3:41	52.4
6/2/2014 6:21	57.3	7/2/2014 23:26	61.9	9/2/2014 0:31	61.5	10/2/2014 1:36	59.8	11/2/2014 2:41	55.8	12/2/2014 3:46	53.1
6/2/2014 6:26	67.1	7/2/2014 23:31	61.3	9/2/2014 0:36	61.4	10/2/2014 1:41	59.7	11/2/2014 2:46	53.7	12/2/2014 3:51	52.3
6/2/2014 6:31	59.9	7/2/2014 23:36	61.8	9/2/2014 0:41	61.0	10/2/2014 1:46	59.4	11/2/2014 2:51	55.8	12/2/2014 3:56	51.6
6/2/2014 6:36	59.6	7/2/2014 23:41	62.3	9/2/2014 0:46	62.2	10/2/2014 1:51	60.8	11/2/2014 2:56	57.3	12/2/2014 4:01	58.0
6/2/2014 6:41	60.7	7/2/2014 23:46	61.1	9/2/2014 0:51	61.2	10/2/2014 1:56	60.1	11/2/2014 3:01	54.4	12/2/2014 4:06	48.3
6/2/2014 6:46	60.9	7/2/2014 23:51	59.8	9/2/2014 0:56	60.1	10/2/2014 2:01	58.8	11/2/2014 3:06	55.7	12/2/2014 4:11	57.9
6/2/2014 6:51	61.0	7/2/2014 23:56	61.4	9/2/2014 1:01	61.4	10/2/2014 2:06	60.0	11/2/2014 3:11	55.5	12/2/2014 4:16	44.8
6/2/2014 6:56	61.8	8/2/2014 0:01	61.0	9/2/2014 1:06	61.4	10/2/2014 2:11	57.7	11/2/2014 3:16	53.2	12/2/2014 4:21	54.5
6/2/2014 23:01	62.7	8/2/2014 0:06	61.2	9/2/2014 1:11	61.1	10/2/2014 2:16	58.0	11/2/2014 3:21	53.0	12/2/2014 4:26	49.8
6/2/2014 23:06	62.3	8/2/2014 0:11	60.7	9/2/2014 1:16	60.9	10/2/2014 2:21	59.1	11/2/2014 3:26	54.5	12/2/2014 4:31	57.9

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

12/2/2014 4:36	53.9	13/2/2014 5:41	60.6	14/2/2014 6:46	64.0	15/2/2014 23:51	63.5	17/2/2014 0:56	60.9	18/2/2014 2:01	58.8
12/2/2014 4:41	52.1	13/2/2014 5:46	59.5	14/2/2014 6:51	64.2	15/2/2014 23:56	63.1	17/2/2014 1:01	60.8	18/2/2014 2:06	60.7
12/2/2014 4:46	53.6	13/2/2014 5:51	60.2	14/2/2014 6:56	64.1	16/2/2014 0:01	63.7	17/2/2014 1:06	60.3	18/2/2014 2:11	58.7
12/2/2014 4:51	52.7	13/2/2014 5:56	66.9	14/2/2014 23:01	64.4	16/2/2014 0:06	63.4	17/2/2014 1:11	61.5	18/2/2014 2:16	60.8
12/2/2014 4:56	53.8	13/2/2014 6:01	61.0	14/2/2014 23:06	63.7	16/2/2014 0:11	63.6	17/2/2014 1:16	61.6	18/2/2014 2:21	59.5
12/2/2014 5:01	52.9	13/2/2014 6:06	61.7	14/2/2014 23:11	63.9	16/2/2014 0:16	63.2	17/2/2014 1:21	60.5	18/2/2014 2:26	59.1
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12/2/2014 5:16	56.5	13/2/2014 6:21	63.1	14/2/2014 23:26	63.9	16/2/2014 0:31	62.8	17/2/2014 1:36	60.1	18/2/2014 2:41	57.5
12/2/2014 5:21	55.9	13/2/2014 6:26	63.2	14/2/2014 23:31	64.5	16/2/2014 0:36	62.4	17/2/2014 1:41	60.1	18/2/2014 2:46	58.8
12/2/2014 5:26	54.6	13/2/2014 6:31	62.8	14/2/2014 23:36	64.4	16/2/2014 0:41	62.1	17/2/2014 1:46	59.7	18/2/2014 2:51	58.6
12/2/2014 5:31	55.2	13/2/2014 6:36	65.1	14/2/2014 23:41	64.0	16/2/2014 0:46	62.5	17/2/2014 1:51	59.9	18/2/2014 2:56	58.5
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12/2/2014 6:01	57.3	13/2/2014 23:06	65.2	15/2/2014 0:11	63.5	16/2/2014 1:16	60.5	17/2/2014 2:21	59.5	18/2/2014 3:26	58.9
12/2/2014 6:06	57.6	13/2/2014 23:11	65.4	15/2/2014 0:16	64.1	16/2/2014 1:21	61.1	17/2/2014 2:26	59.1	18/2/2014 3:31	57.2
12/2/2014 6:11	58.6	13/2/2014 23:16	65.4	15/2/2014 0:21	63.9	16/2/2014 1:26	60.5	17/2/2014 2:31	59.1	18/2/2014 3:36	57.3
12/2/2014 6:16	59.8	13/2/2014 23:21	65.4	15/2/2014 0:26	63.7	16/2/2014 1:31	59.7	17/2/2014 2:36	59.1	18/2/2014 3:41	56.4
12/2/2014 6:21	59.0	13/2/2014 23:26	65.3	15/2/2014 0:31	63.1	16/2/2014 1:36	56.7	17/2/2014 2:41	57.5	18/2/2014 3:46	57.6
12/2/2014 6:26	59.7	13/2/2014 23:31	65.1	15/2/2014 0:36	64.7	16/2/2014 1:41	51.0	17/2/2014 2:46	58.8	18/2/2014 3:51	57.3
12/2/2014 6:31	60.7	13/2/2014 23:36	64.7	15/2/2014 0:41	63.3	16/2/2014 1:46	55.7	17/2/2014 2:51	58.6	18/2/2014 3:56	57.9
12/2/2014 6:36	61.1	13/2/2014 23:41	64.9	15/2/2014 0:46	63.3	16/2/2014 1:51	56.4	17/2/2014 2:56	58.5	18/2/2014 4:01	54.6
12/2/2014 6:41	61.0	13/2/2014 23:46	64.9	15/2/2014 0:51	61.7	16/2/2014 1:56	56.7	17/2/2014 3:01	57.8	18/2/2014 4:06	62.6
12/2/2014 6:46	62.3	13/2/2014 23:51	64.1	15/2/2014 0:56	62.9	16/2/2014 2:01	56.8	17/2/2014 3:06	56.5	18/2/2014 4:11	57.5
12/2/2014 6:51	62.9	13/2/2014 23:56	64.4	15/2/2014 1:01	62.2	16/2/2014 2:06	55.7	17/2/2014 3:11	60.3	18/2/2014 4:16	56.9
12/2/2014 6:56	63.4	14/2/2014 0:01	64.7	15/2/2014 1:06	61.8	16/2/2014 2:11	55.9	17/2/2014 3:16	58.7	18/2/2014 4:21	56.7
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13/2/2014 2:21	60.5	14/2/2014 3:26	53.6	15/2/2014 4:31	56.8	16/2/2014 5:36	62.7	17/2/2014 6:41	63.0	18/2/2014 23:46	63.4
13/2/2014 2:26	59.3	14/2/2014 3:31	55.4	15/2/2014 4:36	57.5	16/2/2014 5:41	60.0	17/2/2014 6:46	63.3	18/2/2014 23:51	62.6
13/2/2014 2:31	60.7	14/2/2014 3:36	56.0	15/2/2014 4:41	57.2	16/2/2014 5:46	66.1	17/2/2014 6:51	63.7	18/2/2014 23:56	63.3
13/2/2014 2:36	60.5	14/2/2014 3:41	55.5	15/2/2014 4:46	57.3	16/2/2014 5:51	61.9	17/2/2014 6:56	66.4	19/2/2014 0:01	63.3
13/2/2014 2:41	58.5	14/2/2014 3:46	54.9	15/2/2014 4:51	57.4	16/2/2014 5:56	66.6	17/2/2014 23:01	63.2	19/2/2014 0:06	63.4
13/2/2014 2:46	59.8	14/2/2014 3:51	54.7	15/2/2014 4:56	58.5	16/2/2014 6:01	68.0	17/2/2014 23:06	63.2	19/2/2014 0:11	62.8
13/2/2014 2:51	58.9	14/2/2014 3:56	55.0	15/2/2014 5:01	60.3	16/2/2014 6:06	65.2	17/2/2014 23:11	63.5	19/2/2014 0:16	62.7
13/2/2014 2:56	59.6	14/2/2014 4:01	54.3	15/2/2014 5:06	58.2	16/2/2014 6:11	61.9	17/2/2014 23:16	63.5	19/2/2014 0:21	63.2
13/2/2014 3:01	58.6	14/2/2014 4:06	51.2	15/2/2014 5:11	55.3	16/2/2014 6:16	62.0	17/2/2014 23:21	63.2	19/2/2014 0:26	62.9
13/2/2014 3:06	56.2	14/2/2014 4:11	51.4	15/2/2014 5:16	59.3	16/2/2014 6:21	63.2	17/2/2014 23:26	62.9	19/2/2014 0:31	62.7
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13/2/2014 3:41	57.2	14/2/2014 4:46	53.2	15/2/2014 5:51	56.3	16/2/2014 6:56	63.1	18/2/2014 0:01	62.9	19/2/2014 1:06	60.6
13/2/2014 3:46	58.4	14/2/2014 4:51	57.1	15/2/2014 5:56	57.6	16/2/2014 23:01	63.2	18/2/2014 0:06	62.9	19/2/2014 1:11	60.8
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13/2/2014 3:56	58.0	14/2/2014 5:01	57.2	15/2/2014 6:06	59.9	16/2/2014 23:11	63.5	18/2/2014 0:16	63.0	19/2/2014 1:21	60.6
13/2/2014 4:01	53.7	14/2/2014 5:06	57.3	15/2/2014 6:11	58.9	16/2/2014 23:16	63.5	18/2/2014 0:21	62.4	19/2/2014 1:26	61.1
13/2/2014 4:06	55.7	14/2/2014 5:11	52.2	15/2/2014 6:16	60.1	16/2/2014 23:21	63.2	18/2/2014 0:26	62.9	19/2/2014 1:31	58.8
13/2/2014 4:11	55.2	14/2/2014 5:16	55.4	15/2/2014 6:21	59.2	16/2/2014 23:26	62.9	18/2/2014 0:31	62.2	19/2/2014 1:36	59.2
13/2/2014 4:16	54.9	14/2/2014 5:21	57.4	15/2/2014 6:26	60.2	16/2/2014 23:31	64.3	18/2/2014 0:36	62.2	19/2/2014 1:41	60.0
13/2/2014 4:21	56.4	14/2/2014 5:26	55.7	15/2/2014 6:31	58.7	16/2/2014 23:36	62.9	18/2/2014 0:41	61.8	19/2/2014 1:46	60.0
13/2/2014 4:26	56.9	14/2/2014 5:31	57.4	15/2/2014 6:36	61.2	16/2/2014 23:41	63.1	18/2/2014 0:46	61.9	19/2/2014 1:51	58.8
13/2/2014 4:31	52.1	14/2/2014 5:36	56.8	15/2/2014 6:41	61.5	16/2/2014 23:46	62.6	18/2/2014 0:51	61.7	19/2/2014 1:56	59.6
13/2/2014 4:36	54.7	14/2/2014 5:41	57.2	15/2/2014 6:46	61.6	16/2/2014 23:51	63.2	18/2/2014 0:56	60.9	19/2/2014 2:01	58.9
13/2/2014 4:41	56.7	14/2/2014 5:46	57.3	15/2/2014 6:51	62.4	16/2/2014 23:56	63.1	18/2/2014 1:01	60.8	19/2/2014 2:06	58.8
13/2/2014 4:46	56.4	14/2/2014 5:51	59.0	15/2/2014 6:56	61.7	17/2/2014 0:01	62.9	18/2/2014 1:06	60.3	19/2/2014 2:11	57.6
13/2/2014 4:51	56.8	14/2/2014 5:56	59.4	15/2/2014 23:01	64.0	17/2/2014 0:06	62.9	18/2/2014 1:11	61.5	19/2/2014 2:16	58.6
13/2/2014 4:56	56.0	14/2/2014 6:01	59.2	15/2/2014 23:06	64.0	17/2/2014 0:11	62.7	18/2/2014 1:16	61.6	19/2/2014 2:21	58.2
13/2/2014 5:01	56.2	14/2/2014 6:06	59.6	15/2/2014 23:11	63.9	17/2/2014 0:16	63.0	18/2/2014 1:21	60.5	19/2/2014 2:26	59.0
13/2/2014 5:06	57.5	14/2/2014 6:11	59.8	15/2/2014 23:16	64.0	17/2/2014 0:21	62.4	18/2/2014 1:26	60.9	19/2/2014 2:31	57.8
13/2/2014 5:11	59.2	14/2/2014 6:16	66.3	15/2/2014 23:21	63.5	17/2/2014 0:26	62.9	18/2/2014 1:31	60.0	19/2/2014 2:36	58.3
13/2/2014 5:16	59.5	14/2/2014 6:21	60.2	15/2/2014 23:26	64.3	17/2/2014 0:31	62.2	18/2/2014 1:36	60.1	19/2/2014 2:41	58.0
13/2/2014 5:21	58.2	14/2/2014 6:26	62.3	15/2/2014 23:31	64.5	17/2/2014 0:36	62.2	18/2/2014 1:41	60.1	19/2/2014 2:46	58.7
13/2/2014 5:26	58.7	14/2/2014 6:31	61.8	15/2/2014 23:36	63.2	17/2/2014 0:41	61.8	18/2/2014 1:46	59.7	19/2/2014 2:51	58.2
13/2/2014 5:31	57.9	14/2/2014 6:36	66.9	15/2/2014 23:41	63.3	17/2/2014 0:46	61.9	18/2/2014 1:51	59.9	19/2/2014 2:56	57.1
13/2/2014 5:36	59.3	14/2/2014 6:41	63.7	15/2/2014 23:46	63.6	17/2/2014 0:51	61.7	18/2/2014 1:56	59.6	19/2/2014 3:01	55.1

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

19/2/2014 3:06	56.1	20/2/2014 4:11	47.7	21/2/2014 5:16	62.5	22/2/2014 6:21	61.3	23/2/2014 23:26	63.3	25/2/2014 0:31	62.7
19/2/2014 3:11	55.9	20/2/2014 4:16	44.3	21/2/2014 5:21	54.9	22/2/2014 6:26	62.6	23/2/2014 23:31	63.0	25/2/2014 0:36	62.7
19/2/2014 3:16	55.8	20/2/2014 4:21	58.3	21/2/2014 5:26	56.8	22/2/2014 6:31	62.6	23/2/2014 23:36	63.4	25/2/2014 0:41	63.1
19/2/2014 3:21	55.3	20/2/2014 4:26	49.6	21/2/2014 5:31	56.8	22/2/2014 6:36	62.9	23/2/2014 23:41	63.6	25/2/2014 0:46	61.7
19/2/2014 3:26	54.3	20/2/2014 4:31	54.6	21/2/2014 5:36	56.8	22/2/2014 6:41	63.1	23/2/2014 23:46	63.8	25/2/2014 0:51	61.9
19/2/2014 3:31	56.1	20/2/2014 4:36	52.5	21/2/2014 5:41	57.2	22/2/2014 6:46	63.6	23/2/2014 23:51	63.2	25/2/2014 0:56	62.3
19/2/2014 3:36	56.9	20/2/2014 4:41	52.5	21/2/2014 5:46	56.7	22/2/2014 6:51	63.6	23/2/2014 23:56	63.4	25/2/2014 1:01	61.8
19/2/2014 3:41	57.5	20/2/2014 4:46	54.8	21/2/2014 5:51	59.0	22/2/2014 6:56	63.1	24/2/2014 0:01	62.9	25/2/2014 1:06	61.4
19/2/2014 3:46	56.0	20/2/2014 4:51	54.9	21/2/2014 5:56	58.1	22/2/2014 23:01	64.1	24/2/2014 0:06	62.3	25/2/2014 1:11	61.6
19/2/2014 3:51	56.2	20/2/2014 4:56	55.3	21/2/2014 6:01	59.9	22/2/2014 23:06	64.4	24/2/2014 0:11	62.4	25/2/2014 1:16	61.5
19/2/2014 3:56	55.3	20/2/2014 5:01	54.2	21/2/2014 6:06	61.3	22/2/2014 23:11	63.7	24/2/2014 0:16	61.5	25/2/2014 1:21	61.6
19/2/2014 4:01	55.3	20/2/2014 5:06	56.6	21/2/2014 6:11	61.0	22/2/2014 23:16	64.8	24/2/2014 0:21	61.1	25/2/2014 1:26	60.7
19/2/2014 4:06	53.2	20/2/2014 5:11	56.9	21/2/2014 6:16	62.0	22/2/2014 23:21	63.9	24/2/2014 0:26	61.9	25/2/2014 1:31	60.2
19/2/2014 4:11	42.8	20/2/2014 5:16	61.5	21/2/2014 6:21	62.5	22/2/2014 23:26	64.3	24/2/2014 0:31	61.3	25/2/2014 1:36	60.8
19/2/2014 4:16	58.2	20/2/2014 5:21	58.3	21/2/2014 6:26	62.6	22/2/2014 23:31	64.4	24/2/2014 0:36	60.6	25/2/2014 1:41	61.0
19/2/2014 4:21	52.2	20/2/2014 5:26	57.2	21/2/2014 6:31	63.1	22/2/2014 23:36	63.8	24/2/2014 0:41	60.1	25/2/2014 1:46	60.5
19/2/2014 4:26	31.9	20/2/2014 5:31	56.9	21/2/2014 6:36	62.3	22/2/2014 23:41	63.7	24/2/2014 0:46	59.6	25/2/2014 1:51	60.1
19/2/2014 4:31	52.5	20/2/2014 5:36	57.0	21/2/2014 6:41	63.0	22/2/2014 23:46	64.6	24/2/2014 0:51	59.5	25/2/2014 1:56	59.9
19/2/2014 4:36	49.4	20/2/2014 5:41	57.4	21/2/2014 6:46	62.9	22/2/2014 23:51	63.6	24/2/2014 0:56	58.8	25/2/2014 2:01	58.2
19/2/2014 4:41	55.7	20/2/2014 5:46	56.4	21/2/2014 6:51	64.6	22/2/2014 23:56	64.0	24/2/2014 1:01	58.8	25/2/2014 2:06	60.0
19/2/2014 4:46	54.3	20/2/2014 5:51	59.1	21/2/2014 6:56	63.4	23/2/2014 0:01	63.5	24/2/2014 1:06	60.2	25/2/2014 2:11	62.5
19/2/2014 4:51	56.7	20/2/2014 5:56	57.7	21/2/2014 23:01	64.6	23/2/2014 0:06	64.1	24/2/2014 1:11	57.9	25/2/2014 2:16	60.3
19/2/2014 4:56	56.3	20/2/2014 6:01	59.1	21/2/2014 23:06	64.4	23/2/2014 0:11	62.9	24/2/2014 1:16	58.3	25/2/2014 2:21	59.1
19/2/2014 5:01	57.8	20/2/2014 6:06	58.8	21/2/2014 23:11	64.2	23/2/2014 0:16	63.7	24/2/2014 1:21	58.8	25/2/2014 2:26	59.6
19/2/2014 5:06	56.3	20/2/2014 6:11	58.8	21/2/2014 23:16	65.1	23/2/2014 0:21	63.1	24/2/2014 1:26	57.5	25/2/2014 2:31	59.7
19/2/2014 5:11	54.3	20/2/2014 6:16	60.5	21/2/2014 23:21	65.0	23/2/2014 0:26	63.5	24/2/2014 1:31	60.6	25/2/2014 2:36	59.5
19/2/2014 5:16	60.8	20/2/2014 6:21	60.7	21/2/2014 23:26	64.9	23/2/2014 0:31	63.4	24/2/2014 1:36	56.8	25/2/2014 2:41	58.8
19/2/2014 5:21	54.7	20/2/2014 6:26	62.2	21/2/2014 23:31	64.2	23/2/2014 0:36	62.4	24/2/2014 1:41	56.3	25/2/2014 2:46	59.5
19/2/2014 5:26	57.3	20/2/2014 6:31	62.4	21/2/2014 23:36	65.0	23/2/2014 0:41	63.2	24/2/2014 1:46	54.2	25/2/2014 2:51	60.4
19/2/2014 5:31	54.9	20/2/2014 6:36	63.1	21/2/2014 23:41	64.3	23/2/2014 0:46	63.3	24/2/2014 1:51	58.0	25/2/2014 2:56	58.7
19/2/2014 5:36	56.6	20/2/2014 6:41	62.9	21/2/2014 23:46	64.3	23/2/2014 0:51	62.5	24/2/2014 1:56	56.9	25/2/2014 3:01	59.1
19/2/2014 5:41	56.4	20/2/2014 6:46	63.5	21/2/2014 23:51	64.5	23/2/2014 0:56	62.2	24/2/2014 2:01	57.0	25/2/2014 3:06	58.4
19/2/2014 5:46	58.2	20/2/2014 6:51	64.1	21/2/2014 23:56	63.9	23/2/2014 1:01	62.1	24/2/2014 2:06	55.7	25/2/2014 3:11	58.3
19/2/2014 5:51	59.9	20/2/2014 6:56	64.1	22/2/2014 0:01	64.1	23/2/2014 1:06	61.7	24/2/2014 2:11	60.7	25/2/2014 3:16	56.9
19/2/2014 5:56	59.2	20/2/2014 23:01	64.3	22/2/2014 0:06	64.2	23/2/2014 1:11	62.3	24/2/2014 2:16	54.5	25/2/2014 3:21	57.9
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19/2/2014 23:26	64.2	21/2/2014 0:31	63.9	22/2/2014 1:36	62.3	23/2/2014 2:41	59.5	24/2/2014 3:46	58.1	25/2/2014 4:51	58.2
19/2/2014 23:31	64.4	21/2/2014 0:36	63.3	22/2/2014 1:41	63.4	23/2/2014 2:46	59.5	24/2/2014 3:51	49.8	25/2/2014 4:56	58.2
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20/2/2014 0:06	63.4	21/2/2014 1:11	62.5	22/2/2014 2:16	62.7	23/2/2014 3:21	59.8	24/2/2014 4:26	46.7	25/2/2014 5:31	59.0
20/2/2014 0:11	62.7	21/2/2014 1:16	60.5	22/2/2014 2:21	62.5	23/2/2014 3:26	60.1	24/2/2014 4:31	47.8	25/2/2014 5:36	57.9
20/2/2014 0:16	64.2	21/2/2014 1:21	61.4	22/2/2014 2:26	61.8	23/2/2014 3:31	58.9	24/2/2014 4:36	47.5	25/2/2014 5:41	59.2
20/2/2014 0:21	62.8	21/2/2014 1:26	60.2	22/2/2014 2:31	62.3	23/2/2014 3:36	59.7	24/2/2014 4:41	51.6	25/2/2014 5:46	59.5
20/2/2014 0:26	62.6	21/2/2014 1:31	60.4	22/2/2014 2:36	62.6	23/2/2014 3:41	62.7	24/2/2014 4:46	52.0	25/2/2014 5:51	60.3
20/2/2014 0:31	61.8	21/2/2014 1:36	59.0	22/2/2014 2:41	60.8	23/2/2014 3:46	58.8	24/2/2014 4:51	53.1	25/2/2014 5:56	58.6
20/2/2014 0:36	62.2	21/2/2014 1:41	60.2	22/2/2014 2:46	61.0	23/2/2014 3:51	59.1	24/2/2014 4:56	57.7	25/2/2014 6:01	60.0
20/2/2014 0:41	62.4	21/2/2014 1:46	59.3	22/2/2014 2:51	60.3	23/2/2014 3:56	59.4	24/2/2014 5:01	52.9	25/2/2014 6:06	60.5
20/2/2014 0:46	63.2	21/2/2014 1:51	60.2	22/2/2014 2:56	59.4	23/2/2014 4:01	58.1	24/2/2014 5:06	53.2	25/2/2014 6:11	60.8
20/2/2014 0:51	62.3	21/2/2014 1:56	60.9	22/2/2014 3:01	60.0	23/2/2014 4:06	58.4	24/2/2014 5:11	51.4	25/2/2014 6:16	61.1
20/2/2014 0:56	62.6	21/2/2014 2:01	62.0	22/2/2014 3:06	61.2	23/2/2014 4:11	61.7	24/2/2014 5:16	48.8	25/2/2014 6:21	61.7
20/2/2014 1:01	61.2	21/2/2014 2:06	61.2	22/2/2014 3:11	59.4	23/2/2014 4:16	61.5	24/2/2014 5:21	55.5	25/2/2014 6:26	61.7
20/2/2014 1:06	61.2	21/2/2014 2:11	61.0	22/2/2014 3:16	61.3	23/2/2014 4:21	61.4	24/2/2014 5:26	55.7	25/2/2014 6:31	62.8
20/2/2014 1:11	61.6	21/2/2014 2:16	60.9	22/2/2014 3:21	59.2	23/2/2014 4:26	61.9	24/2/2014 5:31	54.2	25/2/2014 6:36	62.3
20/2/2014 1:16	62.7	21/2/2014 2:21	61.3	22/2/2014 3:26	59.7	23/2/2014 4:31	60.6	24/2/2014 5:36	52.3	25/2/2014 6:41	63.5
20/2/2014 1:21	60.1	21/2/2014 2:26	60.4	22/2/2014 3:31	59.3	23/2/2014 4:36	60.6	24/2/2014 5:41	59.6	25/2/2014 6:46	63.2
20/2/2014 1:26	60.2	21/2/2014 2:31	60.2	22/2/2014 3:36	59.8	23/2/2014 4:41	60.6	24/2/2014 5:46	60.5	25/2/2014 6:51	63.4
20/2/2014 1:31	60.5	21/2/2014 2:36	59.9	22/2/2014 3:41	59.8	23/2/2014 4:46	60.6	24/2/2014 5:51	60.7	25/2/2014 6:56	64.5
20/2/2014 1:36	62.2	21/2/2014 2:41	55.6	22/2/2014 3:46	60.6	23/2/2014 4:51	60.9	24/2/2014 5:56	60.3	25/2/2014 23:01	64.1
20/2/2014 1:41	68.1	21/2/2014 2:46	53.7	22/2/2014 3:51	61.8	23/2/2014 4:56	59.7	24/2/2014 6:01	60.2	25/2/2014 23:06	64.7
20/2/2014 1:46	59.2	21/2/2014 2:51	59.4	22/2/2014 3:56	61.5	23/2/2014 5:01	59.5	24/2/2014 6:06	60.8	25/2/2014 23:11	64.3
20/2/2014 1:51	58.7	21/2/2014 2:56	58.4	22/2/2014 4:01	61.2	23/2/2014 5:06	59.5	24/2/2014 6:11	60.3	25/2/2014 23:16	64.3
20/2/2014 1:56	59.3	21/2/2014 3:01	56.4	22/2/2014 4:06	61.0	23/2/2014 5:11	57.3	24/2/2014 6:16	61.6	25/2/2014 23:21	64.6
20/2/2014 2:01	59.3	21/2/2014 3:06	56.4	22/2/2014 4:11	60.8	23/2/2014 5:16	61.3	24/2/2014 6:21	61.3	25/2/2014 23:26	64.2
20/2/2014 2:06	58.3	21/2/2014 3:11	57.4	22/2/2014 4:16	60.3	23/2/2014 5:21	58.8	24/2/2014 6:26	61.9	25/2/2014 23:31	64.7
20/2/2014 2:11	59.8	21/2/2014 3:16	55.3	22/2/2014 4:21	58.9	23/2/2014 5:26	58.3	24/2/2014 6:31	61.9	25/2/2014 23:36	63.4
20/2/2014 2:16	59.9	21/2/2014 3:21	56.7	22/2/2014 4:26	57.9	23/2/2014 5:31	57.3	24/2/2014 6:36	62.5	25/2/2014 23:41	63.9
20/2/2014 2:21	58.9	21/2/2014 3:26	56.1	22/2/2014 4:31	59.0	23/2/2014 5:36	58.7	24/2/2014 6:41	62.4	25/2/2014 23:46	63.2
20/2/2014 2:26	59.1	21/2/2014 3:31	59.5	22/2/2014 4:36	57.4	23/2/2014 5:41	59.5	24/2/2014 6:46	62.1	25/2/2014 23:51	63.6
20/2/2014 2:31	59.2	21/2/2014 3:36	60.0	22/2/2014 4:41	58.0	23/2/2014 5:46	59.3	24/2/2014 6:51	63.7	25/2/2014 23:56	63.1
20/2/2014 2:36	58.9	21/2/2014 3:41	59.9	22/2/2014 4:46	59.0	23/2/2014 5:51	60.3	24/2/2014 6:56	65.1	26/2/2014 0:01	63.8
20/2/2014 2:41	57.5	21/2/2014 3:46	59.7	22/2/2014 4:51	58.0	23/2/2014 5:56	61.5	24/2/2014 23:01	64.3	26/2/2014 0:06	63.1
20/2/2014 2:46	55.9	21/2/2014 3:51	58.7	22/2/2014 4:56	59.4	23/2/2014 6:01	62.0	24/2/2014 23:06	63.7	26/2/2014 0:11	62.9
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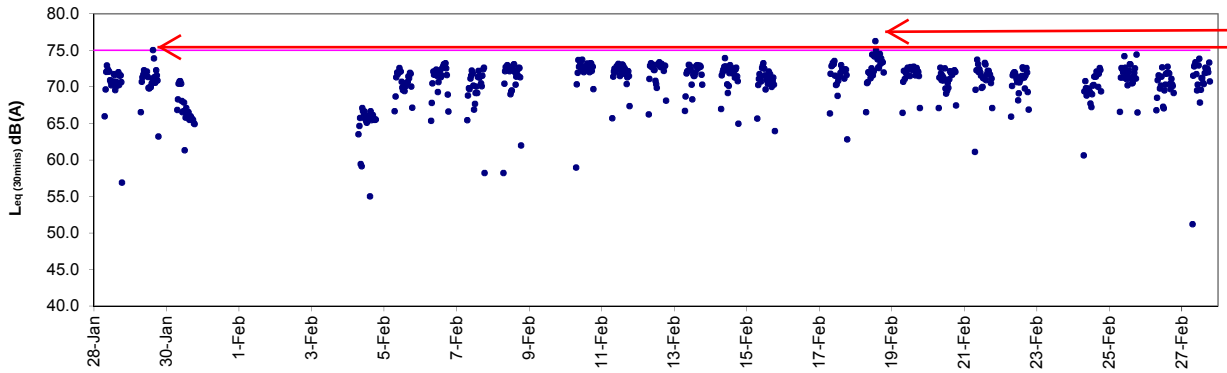
20/2/2014 3:01	57.2	21/2/2014 4:06	52.3	22/2/2014 5:11	60.8	23/2/2014 6:16	61.2	24/2/2014 23:21	64.0	26/2/2014 0:26	63.3
20/2/2014 3:06	56.1	21/2/2014 4:11	50.5	22/2/2014 5:16	62.6	23/2/2014 6:21	60.7	24/2/2014 23:26	63.2	26/2/2014 0:31	64.3
20/2/2014 3:11	53.8	21/2/2014 4:16	56.0	22/2/2014 5:21	61.8	23/2/2014 6:26	57.9	24/2/2014 23:31	64.4	26/2/2014 0:36	62.0
20/2/2014 3:16	53.5	21/2/2014 4:21	52.1	22/2/2014 5:26	61.1	23/2/2014 6:31	57.5	24/2/2014 23:36	63.3	26/2/2014 0:41	62.7
20/2/2014 3:21	53.7	21/2/2014 4:26	53.4	22/2/2014 5:31	60.8	23/2/2014 6:36	58.8	24/2/2014 23:41	63.2	26/2/2014 0:46	62.3
20/2/2014 3:26	52.3	21/2/2014 4:31	52.8	22/2/2014 5:36	56.6	23/2/2014 6:41	60.2	24/2/2014 23:46	63.7	26/2/2014 0:51	62.4
20/2/2014 3:31	54.0	21/2/2014 4:36	51.6	22/2/2014 5:41	58.4	23/2/2014 6:46	59.5	24/2/2014 23:51	63.1	26/2/2014 0:56	62.4
20/2/2014 3:36	56.9	21/2/2014 4:41	56.5	22/2/2014 5:46	58.4	23/2/2014 6:51	61.4	24/2/2014 23:56	63.8	26/2/2014 1:01	62.4
20/2/2014 3:41	54.7	21/2/2014 4:46	57.8	22/2/2014 5:51	58.6	23/2/2014 6:56	61.0	25/2/2014 0:01	63.3	26/2/2014 1:06	61.8
20/2/2014 3:46	54.6	21/2/2014 4:51	58.4	22/2/2014 5:56	59.0	23/2/2014 23:01	64.2	25/2/2014 0:06	63.7	26/2/2014 1:11	62.5
20/2/2014 3:51	56.1	21/2/2014 4:56	59.2	22/2/2014 6:01	59.0	23/2/2014 23:06	64.3	25/2/2014 0:11	62.9	26/2/2014 1:16	61.0
20/2/2014 3:56	55.0	21/2/2014 5:01	59.7	22/2/2014 6:06	60.0	23/2/2014 23:11	64.0	25/2/2014 0:16	63.9	26/2/2014 1:21	61.9
20/2/2014 4:01	53.3	21/2/2014 5:06	59.1	22/2/2014 6:11	59.4	23/2/2014 23:16	64.0	25/2/2014 0:21	62.6	26/2/2014 1:26	61.0
20/2/2014 4:06	54.2	21/2/2014 5:11	59.7	22/2/2014 6:16	59.8	23/2/2014 23:21	64.7	25/2/2014 0:26	61.8	26/2/2014 1:31	60.7

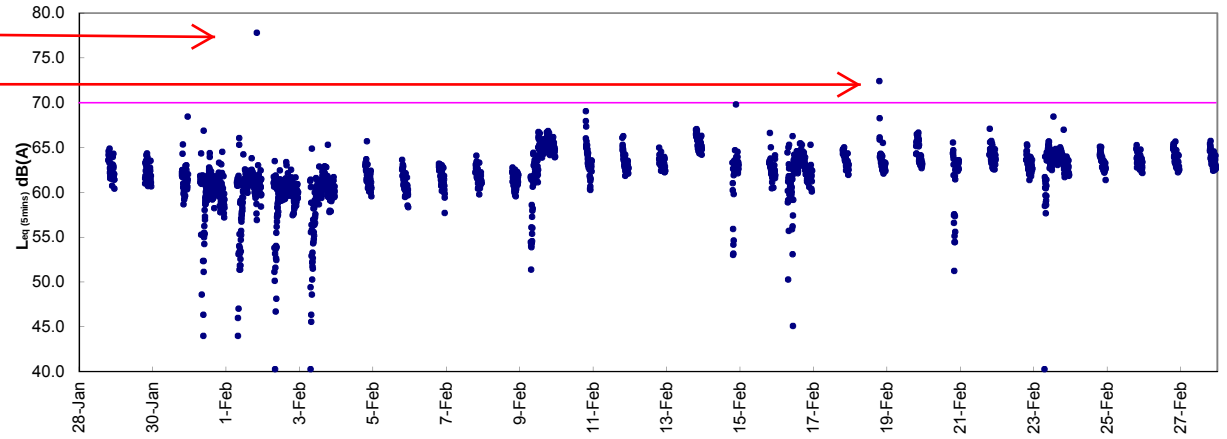
Real-time Noise Data		RTN2a (Hong Kong Electric Centre)	
26/2/2014 1:36	60.4	27/2/2014 2:41	59.7
26/2/2014 1:41	59.4	27/2/2014 2:46	59.1
26/2/2014 1:46	60.5	27/2/2014 2:51	60.8
26/2/2014 1:51	59.6	27/2/2014 2:56	62.2
26/2/2014 1:56	61.2	27/2/2014 3:01	58.9
26/2/2014 2:01	60.0	27/2/2014 3:06	58.1
26/2/2014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

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

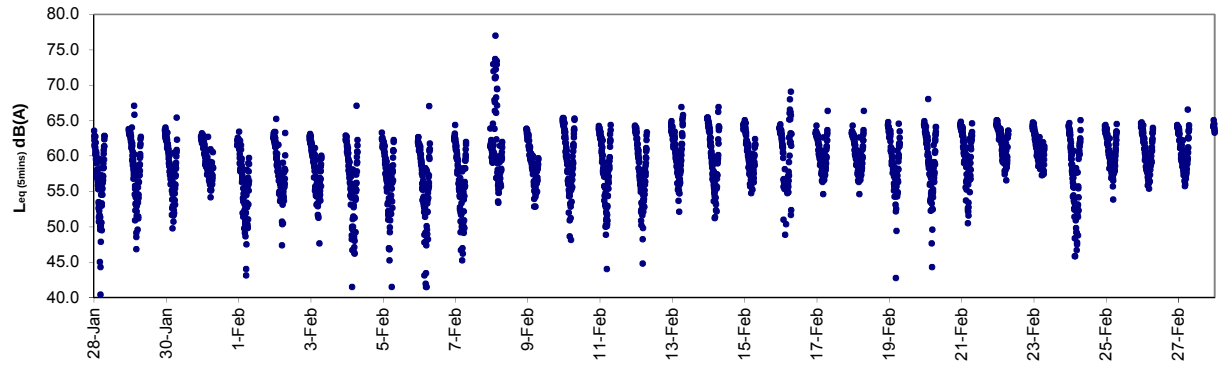
Day Time (0700 -1900 hrs on normal weekdays)



Restricted hours (1900 - 2300) on normal weekdays and 0700 - 2300 hrs on public holidays)



Night Time (2300 - 0700hrs)



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

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

Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

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

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

Event / Action Plan for Construction Air Quality

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

Event and Action Plan for Marine Water Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET , IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)

Event and Action Plan for Odour Patrol

Event	ACTION	
	Person-in-charge of Odour Monitoring	**Implementation Agent Identified by CEDD**
Action Level		
Exceedance of Action Level	1. Identify source/reason of exceedance; 2. Repeat odour patrol to confirm finding.	1. Carry out investigation to identify the source/reason of exceedance; 2. Rectify any unacceptable practice 3. Implement more mitigation measures if necessary; 4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol.	1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; 2. Rectify any unacceptable practice; 3. Formulate remedial actions; 4. Ensure remedial actions properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 6. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.

Appendix 6.2

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N155	13-Feb-14	15:22	M6 - HK Baptist Church Henrietta Secondary School	74	Leq(30-min)	when one documented complaint was received.	65	**Possible reason:** Traffic nearby was observed during monitoring and was considered as the major noise contribution. **Action taken / to be taken:** Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Scheduling of concreting hacking off works and use of acoustic mat to minmize potential noise impact to nearby education institute during examination period were implemented by the Contractor **Remarks / Other Obs:** Welding and support erection works at dolphin cap for Contract HY/2009/19 were conducted around the concerned location during the measurement. It was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N156	20-Feb-14	9:39	M6 - HK Baptist Church Henrietta Secondary School	67	Leq(30-min)	when one documented complaint was received.	65	**Possible reason:** Traffic nearby was observed during monitoring and was considered as the major noise contribution. **Action taken / to be taken:** Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Scheduling of concreting hacking off works and use of acoustic mat to minmize potential noise impact to nearby education institute during examination period were implemented by the Contractor **Remarks / Other Obs:** Welding works at dolphin cap for Contract HY/2009/19 were conducted around the concerned location during the measurement. It was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N157	25-Feb-14	16:05	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	**Possible reason:** Traffic nearby was observed during monitoring and was considered as the major noise contribution. **Action taken / to be taken:** Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. **Remarks / Other Obs:** Welding and cleaning works at dolphin cap for Contract HY/2009/19 were conducted around the concerned location during the measurement. It was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.

Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_10C604	24-Feb-14	Mid-ebb	P1	DO(mg/L)	7.37	3.36	2.73	**Possible reason:**	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	28.32	9.10	10.25	**Action taken / to be taken:**	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record. Contractor mitigation measures including deployment of silt curtain was confirmed in place.
				SS	24.50	15.00	22.13	**Remarks / Other Obs:**	Despite marine filling at the sea area of former Expo Drive West Bridge was conducted by Contractor HK/2012/08 during monitoring, contractor mitigation meaures including the deployment of silt curtain for filling works was in place. In addition, as observed during the environmental inspection conducted on 25 Feb 2014, the condition of the silt curtain was found generally satisfactory. In view of no further exceedance was recorded in the next consecutive monitoring, the exceedance was considered not project related.
X_10C605	24-Feb-14	Mid-ebb	P3	DO(mg/L)	7.37	3.36	2.73	**Possible reason:**	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	23.32	9.10	10.25	**Action taken / to be taken:**	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record. Contractor mitigation measures including deployment of silt curtain was confirmed in place.
				SS	21.00	15.00	22.13	**Remarks / Other Obs:**	Despite marine filling at the sea area of former Expo Drive West Bridge was conducted by Contractor HK/2012/08 during monitoring, contractor mitigation meaures including the deployment of silt curtain for filling works was in place. In addition, as observed during the environmental inspection conducted on 25 Feb 2014, the condition of the silt curtain was found generally satisfactory. In view of no further exceedance was recorded in the next consecutive monitoring, the exceedance was considered not project related.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D397	29-Jan-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.24	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D398	29-Jan-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	2.35	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Lam Geotechnices Limited

Contract No. HK/2011/07
Wanchai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 2)
Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_W557	8-Feb-13	Mid-Ebb	WSD21	DO(mg/L)	5.36	3.66	3.28	Possible reason:	Natural variation of changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	**26.09**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	**20.50**	13.00	14.43	Remarks / Other Obs:	Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related.
X_W558	10-Feb-13	Mid-Ebb	WSD21	DO(mg/L)	6.29	3.66	3.28	Possible reason:	Natural variation of changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	**10.67**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	12.00	13.00	14.43	Remarks / Other Obs:	Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related.

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
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation. 2) Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation. 3) The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities. 4) No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring. 5) No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	Closed
100321b	21/3/2010	Unknown	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March 2010(Monday).	1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP. 2) Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation. 3) No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring. 4) No further complaints were received in the reporting month. The complaint is considered closed.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. 3) No further complaints were received in the reporting month. The complaint is considered closed.	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. 2) There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. 3) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period. 4) It is considered as invalid from the EP and CNP point of view.	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period. 3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no.. WSD15)	1) Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen. 2) Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint. 3) Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	Closed
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period. 3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine Department	North Point	Bad odour was generated from the dredging plant off North Point	1) The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work. 2) A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation. 3) Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	Closed
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1) ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1-266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot-light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00-21:00.	Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; • Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; • Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; • No starting work on 7 Dec 2010 at 0630hours. 2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; 3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; 4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. 5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; 6) No further complaint was received after implementation of proposed measures	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1-281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	1) The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. 2) Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. 3) It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. 4) It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile 5) The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1-272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1) According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. 2) There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre. 3) It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	1) The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area. 2) According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection. 3) In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor. 4) A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works. 5) Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon-wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	1) Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period 2) Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. 3) Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation. 4) Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	Closed
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	1) ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011. 2) The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident. 3) According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					so as to prevent recurrent by barge defect	
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's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from 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 while breaking and excavation works were undertaken 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) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring 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) 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	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.	monitoring station at Victoria Centre on 25 July and 4 August 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. 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
	08/08/2011				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.*	
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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
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 reclamation area.	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 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.	Closed
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor 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.	1) It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the • construction works were referred to the Contractors HY/2009/11 and HY/2009/19. • The pump is located on the site area of HY/2009/19 • 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. • An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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. • Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. • 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 coming from the seabed 2) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation. 3) During on-site inspection, floating refuses 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. 4) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. 5) 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. 6) 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. 7) 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	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) RSS notified ET to carry out investigation on 17 October 2011. 2) ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	1) ET confirmed with the Resident Site Staff that • A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. • Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no	Keep in view for three months from the date of complaint recevied

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700. 3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position. 4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	1) RSS notified ET on 5 April 2012. 2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. 3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. 4) HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1-407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	1) RSS notified ET on 8 March 2013 2) ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013. 3) Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use.	Closed

Appendix 10.1

Construction Programme of Individual Contracts

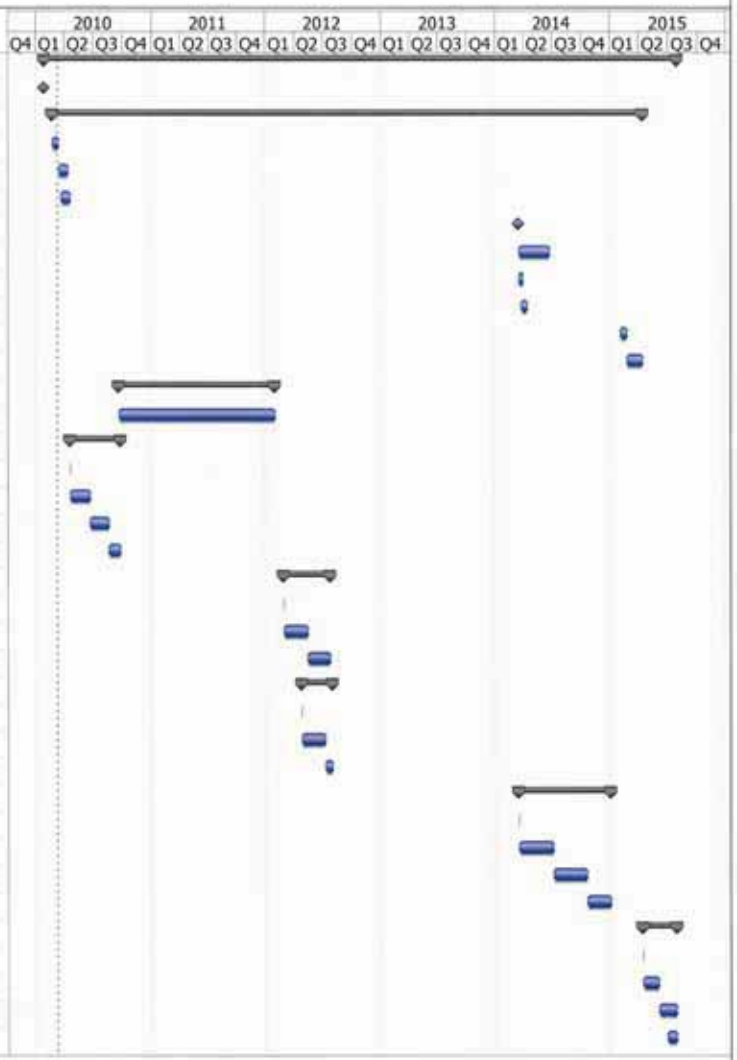
Contract No. : HK/2009/01
WAN CHAI DEVELOPMENT PHASE II
CENTRAL-WAN CHAI BYPASS AT HKCEC

Working Programme for Marine Works (Dredging and Reclamation)

ACTIVITIES	START	FINISH	2014											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cross Harbour Watermains (Rock Trimming)														
Wan Chai North	15/1/2014	15/2/2014												
Fairway	15/1/2014	15/2/2014												
TST (Subject to Handover of ASD)	1/3/2014	30/5/2014												
Reclamation Works at HKCEC Water Channel														
Dredging underneath Expo Drive East Bridge	29/8/2014	27/9/2014												
Backfilling underneath Expo Drive East Bridge	28/9/2014	27/10/2014												

Dredging & Reclamation Works Programme Summary
(based on Initial Works Programme Rev. 0)

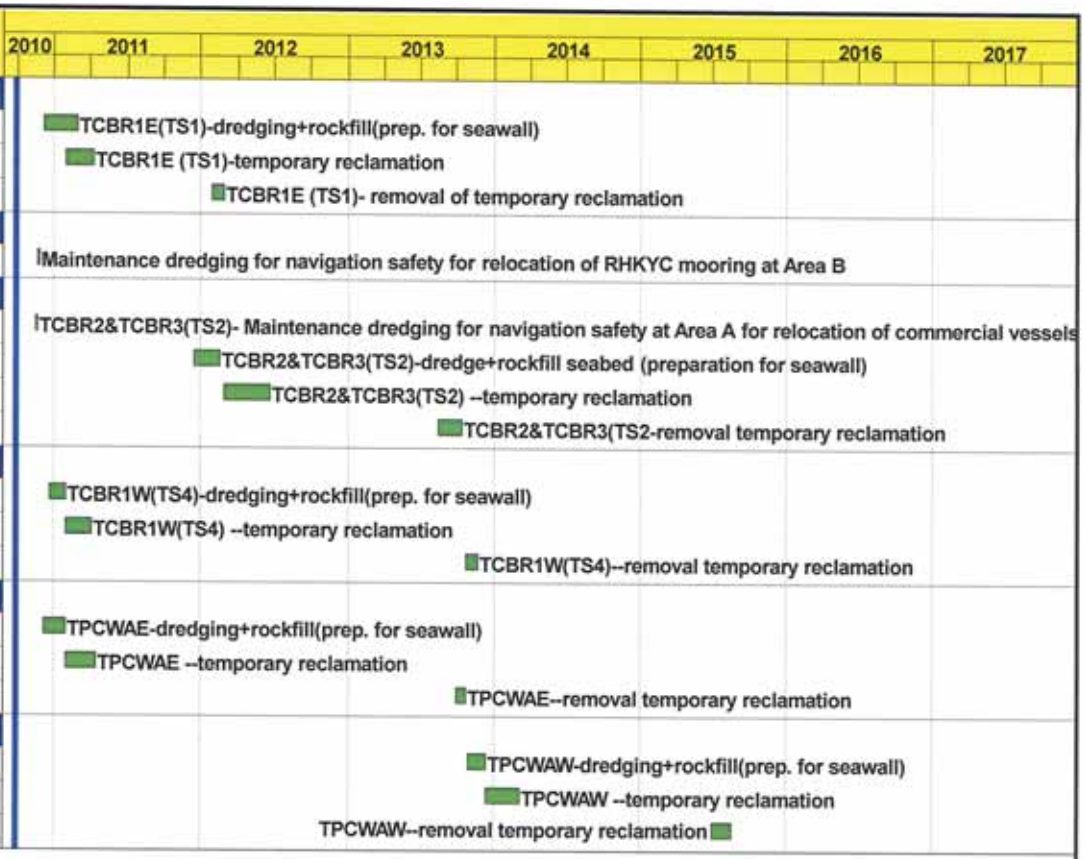
ID	Task Name	Duration	Start
1	**HK/2009/02-Marine & Reclamation Works**	**2008 d**	**Thu 28/1/10**
2	Contract Commencement	0 d	Thu 28/1/10
3	**General**	**1879 d**	**Mon 22/2/10**
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10
6	Engineer's Design review for Dredging of WCR1, WCR2 & WCR4	30 d	Mon 22/3/10
7	Relocation of New Star Ferry Pier	0 d	Tue 18/3/14
8	Demolition of Existing Star Ferry Pier	100 d	Tue 18/3/14
9	Stage 2 Marine GI for Reclamation	14 d	Tue 18/3/14
10	Engineer's Design review for Dredging of WCR3	21 d	Tue 25/3/14
11	Complete Diversion of Hung Hing Road Traffic Back to Original	20 d	Fri 6/2/15
12	Excavate & remove top of d-wall for permanet seawall construction	50 d	Wed 25/2/15
13	**Submarine Outfall**	**500 d**	**Tue 21/9/10**
14	Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea	500 d	Tue 21/9/10
15	**Phase 1 - WCR1**	**158 d**	**Wed 21/4/10**
16	Mobilization of plants	1 d	Wed 21/4/10
17	Seabed dredging	63 d	Wed 21/4/10
18	Bedding Filling and Permanent seawall (precast cassion)	60 d	Tue 22/6/10
19	Bulk reclamation	37 d	Fri 20/8/10
20	**Phase 2 - WCR2**	**149 d**	**Thu 1/3/12**
21	Mobilization of plants	1 d	Thu 1/3/12
22	Temp seawall and Seabed dredging	77 d	Thu 1/3/12
23	Bulk reclamation	73 d	Wed 16/5/12
24	**Phase 3 - TWCR4 & WCR4**	**98 d**	**Sat 28/4/12**
25	Mobilization of plants	1 d	Sat 28/4/12
26	Temp Seawall and Seabed dredging	75 d	Sat 28/4/12
27	Bulk & temp reclamation	24 d	Wed 11/7/12
28	**Phase 4 - WCR3**	**294 d**	**Tue 18/3/14**
29	Mobilization of plants	1 d	Tue 18/3/14
30	Seabed dredging for Permanent Seawall	112 d	Tue 18/3/14
31	Backfill and permanent seawall (precast cassion)	108 d	Tue 8/7/14
32	Bulk reclamation	74 d	Fri 24/10/14
33	**Phasee 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4**	**105 d**	**Wed 15/4/15**
34	Mobilization of plants	1 d	Wed 15/4/15
35	Dredging and Filling for permanent seawall construction	50 d	Wed 15/4/15
36	Construction of Permanent Seawall Blocks for curved coastline	56 d	Wed 3/6/15
37	Remove temp seawall and reinstate the location of TWCR4	30 d	Mon 29/6/15



Project: Reclamation Works Programm
Date: Tue 9/3/10

Task | Summary | Rolled Up Progress | Project Summary
Progress | Rolled Up Task | Split | Group By Summary
Milestone | Rolled Up Milestone | External Tasks | Deadline

Activity ID	Cal ID	Activity Description	Orig Dur	Early Start	Early Finish
TCBR1E (TS1 Area)					
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	86	03DEC10*	26FEB11
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12
TCBR4					
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10
TCBR2 + TCBR3 (TS2 Area)					
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12
120	1	TCBR2&TCBR3(TS2) --temporary reclamation	115	26FEB12*	19JUN12
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	13OCT13
TCBR1W (TS4 Area)					
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11
130	1	TCBR1W(TS4) --temporary reclamation	68	28JAN11	05APR11
165	1	TCBR1W(TS4)--removal temporary reclamation	26	27OCT13*	21NOV13
TPCWAE					
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55	03DEC10*	26JAN11
140	1	TPCWAE --temporary reclamation	77	27JAN11	13APR11
170	1	TPCWAE--removal temporary reclamation	28	28SEP13*	25OCT13
TPCWAW					
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	28OCT13*	13DEC13
150	1	TPCWAW --temporary reclamation	83	14DEC13	06MAR14
175	1	TPCWAW--removal temporary reclamation	50	02JUL15*	20AUG15



Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc.

EP02

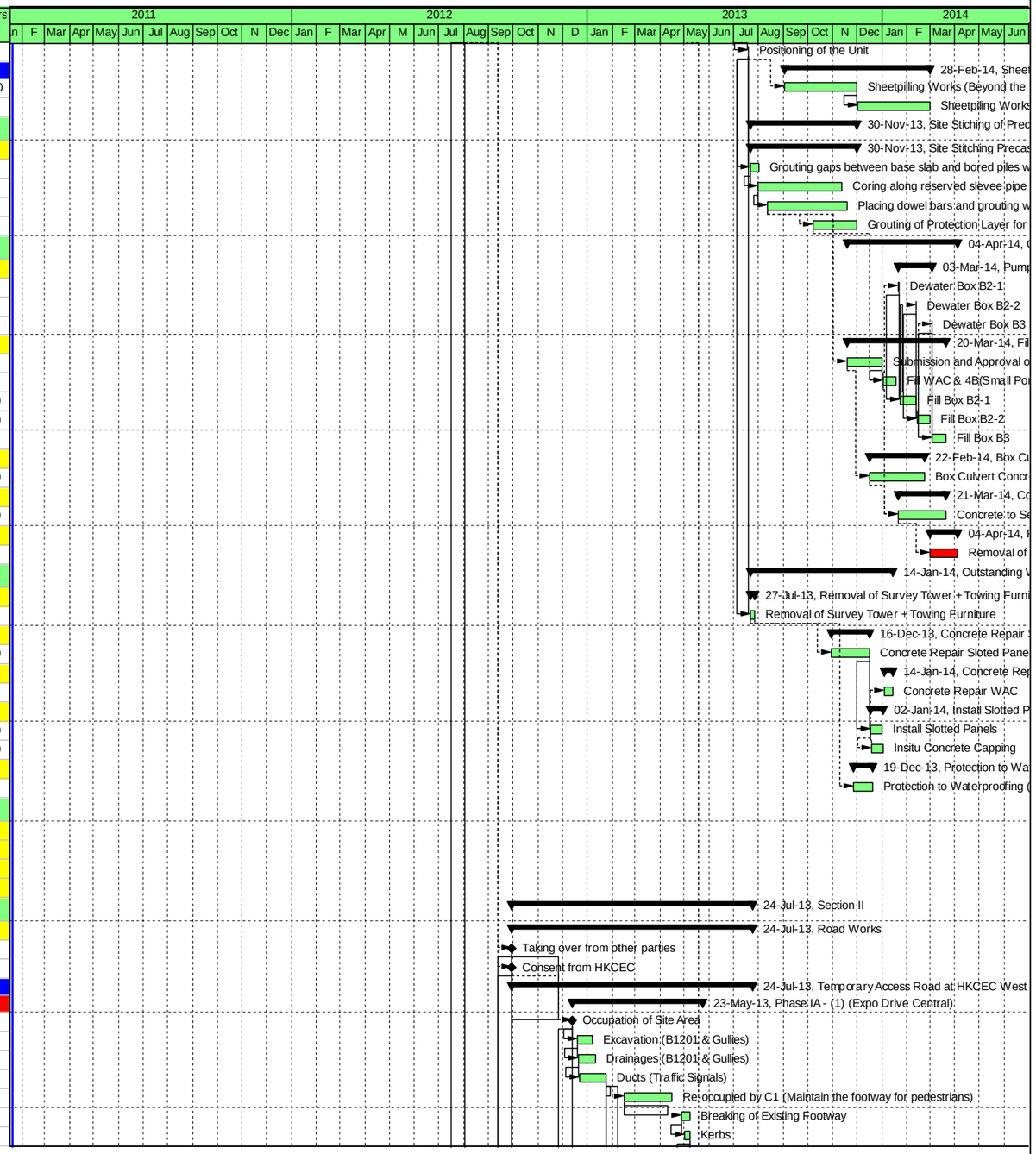
CHINA STATE CONSTRUCTION ENGG LTD

CONTRACT NO. HY/2009/15: CENTRAL
WAN CHAI BYPASS- TUNNEL (CBTS SECTION)

Prepared based on IWP Rev. 0

Date Prepared: 28 Oct 2010

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
PPU8050	Positioning of the Unit	1	19-Jul-13	19-Jul-13	49	PPU8040	SSU9010
Sheetpilling (Beyond the Precast Box Unit) - II		180	02-Sep-13	28-Feb-14	35		
PCW1830	Sheetpilling Works (Beyond the Precast Box Unit - (Western) - (W329-W411)	75	02-Sep-13*	30-Nov-13	30	PPU8050	PCW1840
PCW1840	Sheetpiling Works (Beyond the Precast Box Unit) - (Eastern) - (E464-E637)	71	02-Dec-13	28-Feb-14	30	PCW1830	
Site Stiching of Precast Box Unit		132	22-Jul-13	30-Nov-13	107		
Site Stitching Precast Combined Unit		132	22-Jul-13	30-Nov-13	107		
SSU9010	Grouting gaps between base slab and bored piles within the gasket (51nos.)	10	22-Jul-13	01-Aug-13	78	PPU8050	SSU9020
SSU9020	Coring along reserved slevee pipe to bored piles (816nos.)	86	31-Jul-13	11-Nov-13	78	SSU9010	SSU9030
SSU9030	Placing dowel bars and grouting works (816nos.)	82	12-Aug-13	18-Nov-13	78	SSU9020	SSU9040
SSU9040	Grouting of Protection Layer for Exposed Dowel Bar (51nos.)	47	07-Oct-13*	30-Nov-13	85	SSU9030	MPU1110
Outstanding Works inside Precast Box Unit after Stitching		138	18-Nov-13	04-Apr-14	0		
Pump out Water from Pre-cast Box Unit		43	20-Jan-14	03-Mar-14	15		
MPU1000	Dewater Box B2-1	2	20-Jan-14*	21-Jan-14	14	MPU1110	MPU1120
MPU1010	Dewater Box B2-2	1	12-Feb-14*	12-Feb-14	14	MPU1120	MPU1130
MPU1020	Dewater Box B3	1	03-Mar-14*	03-Mar-14	13	MPU1130	MPU1140
Filling of Box Culvert		123	18-Nov-13	20-Mar-14	15		
MPU1100	Submission and Approval of Infill Proposal	36	18-Nov-13*	31-Dec-13	15	SSU9030	MPU1110
MPU1110	Fill WAC & 4B(Small Portion)	15	02-Jan-14*	18-Jan-14	15	MPU1100	MPU1000
MPU1120	Fill Box B2-1	15	23-Jan-14*	12-Feb-14	14	MPU1000	MPU1010
MPU1130	Fill Box B2-2	15	13-Feb-14*	01-Mar-14	14	MPU1010	MPU1020
MPU1140	Fill Box B3	15	04-Mar-14*	20-Mar-14	13	MPU1020	
Box Culvert Concreting to seal wall access opening		69	16-Dec-13	22-Feb-14	18		
MPU1200	Box Culvert Concreting to seal Wall Access opening	54	16-Dec-13*	22-Feb-14	15	MPU1100	MPU1300
Concrete to Seal Access Opening on Top Slab		61	20-Jan-14	21-Mar-14	14		
MPU1300	Concrete to Seal Access Opening on Top Slab	50	20-Jan-14*	21-Mar-14	12	MPU1110	MPU1400
Removal of Turrents		35	01-Mar-14	04-Apr-14	0		
MPU1400	Removal of Turrets	30	01-Mar-14*	04-Apr-14	0	MPU1300	
Outstanding Works outside Precast Unit after Stitching		177	22-Jul-13	14-Jan-14	80		
Removal of Survey Tower + Towing Furniture		6	22-Jul-13	27-Jul-13	156		
MPU2000	Removal of Survey Tower + Towing Furniture	6	22-Jul-13	27-Jul-13	128	PPU8050	MPU2100
Concrete Repair Sloted Panels		48	30-Oct-13	16-Dec-13	94		
MPU2100	Concrete Repair Sloted Panels	41	30-Oct-13*	16-Dec-13	75	MPU2000	MPU2300
Concrete Repair WAC		12	03-Jan-14	14-Jan-14	80		
MPU2200	Concrete Repair WAC	10	03-Jan-14*	14-Jan-14	66	MPU2310	
Install Slotted Panels		17	17-Dec-13	02-Jan-14	92		
MPU2300	Install Slotted Panels	11	17-Dec-13*	31-Dec-13	75	MPU2100	MPU2310
MPU2310	Insitu Concrete Capping	15	19-Dec-13*	02-Jan-14	92	MPU2300	MPU2200
Protection to Waterproofing		24	26-Nov-13	19-Dec-13	106		
MPU2500	Protection to Waterproofing (Box 4A & 4B)	21	26-Nov-13*	19-Dec-13	85	MPU2000	
Works To be Done After Tunnel Connection		0			0		
Dewater Box B4A-2 & Box 4B(B4B-1~B4B-3)		0			0		
Construction of Drain Pipes, Profile Barriers and Infill Concrete, etc.		0			0		
Intermediate Slab		0			0		
Removal of Bulkheads		0			0		
Section II		299	29-Sep-12	24-Jul-13	254		
Road Works		299	29-Sep-12	24-Jul-13	254		
TAR8000	Taking over from other parties	0	29-Sep-12*		254	CNO1010	P1A1000
TAR8010	Consent from HKCEC	0	29-Sep-12*		258	CNO1010	P1A1000
Temporary Access Road at HKCEC West Bridge		299	29-Sep-12	24-Jul-13	254		
Phase IA - (1) (Expo Drive Central)		162	13-Dec-12	23-May-13	266		
P1A1000	Occupation of Site Area	0	13-Dec-12		254	TAR8000	P1A1010
P1A1010	Excavation (B1201 & Gullies)	18	20-Dec-12	06-Jan-13	266	P1A1000	P1A1020
P1A1020	Drainages (B1201 & Gullies)	22	21-Dec-12	11-Jan-13	266	P1A1010	P1A1030
P1A1030	Ducts (Traffic Signals)	34	22-Dec-12	24-Jan-13	266	P1A1020	P1A1040
P1A1040	Re-occupied by C1 (Maintain the footway for pedestrians)	60	15-Feb-13	15-Apr-13	266	P1A1030	P1A1060
P1A1060	Breaking of Existing Footway	11	28-Apr-13	08-May-13	266	P1A1040	P1A1070
P1A1070	Kerbs	6	02-May-13	07-May-13	266	P1A1060	P1A1080



Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

Date	Revision	Ch...	Approved
14-Aug-12	Rev. H	MF	KT
19-Sep-12	Rev. I	MF	KT
21-Nov-12	Rev. J	MF	KT
19-Feb-13	Rev. K	MF	KT
05-Mar-13	Rev. L	MF	KT
21-May-13	Rev. M	MF	KT
20-Aug-13	Rev. N	MF	EY
15-Nov-13	Rev. O	WC	EY

Contract No.: HK/2010/06

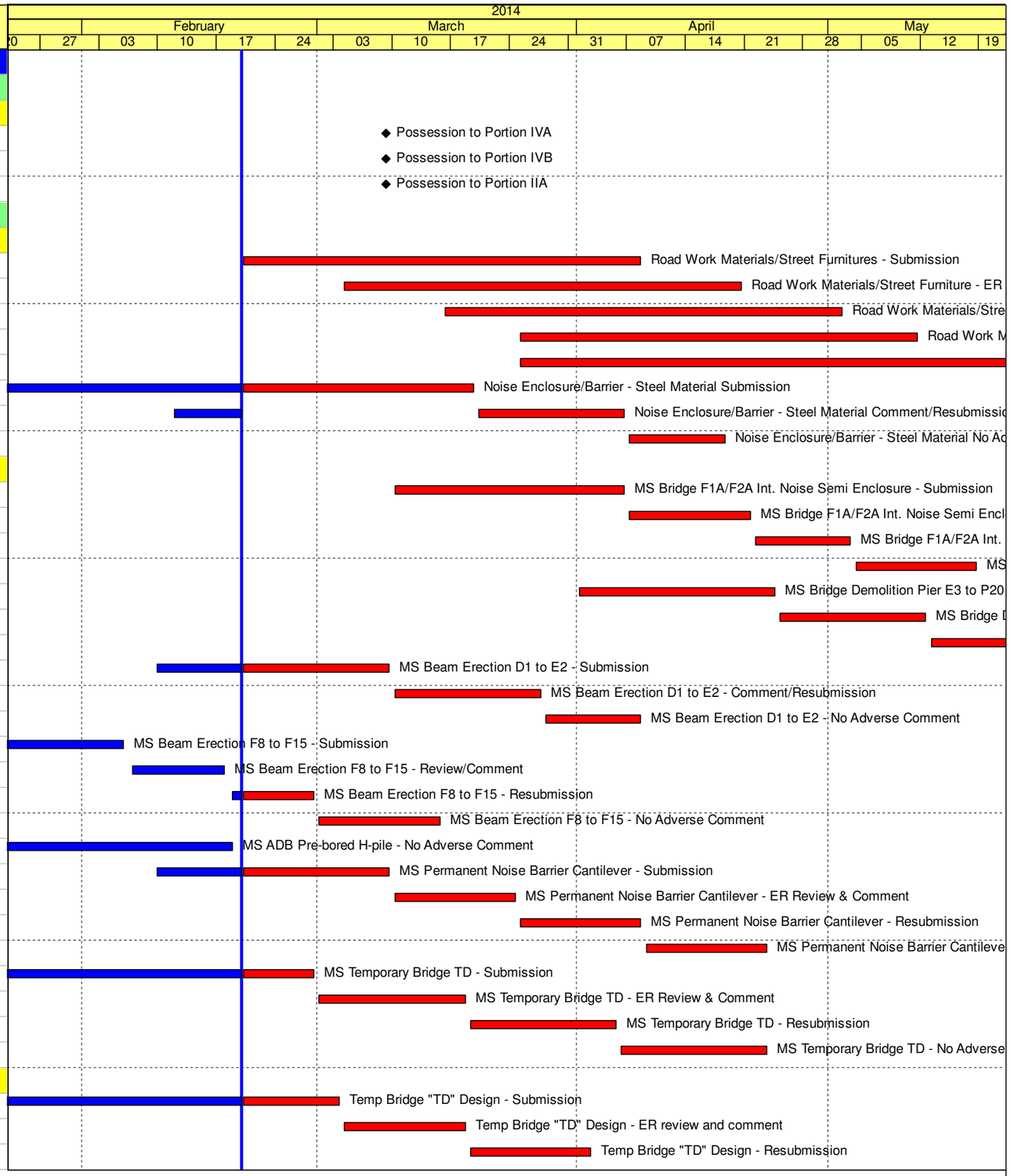
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. O)

金門 – 利達聯營
Gammon – Leader Joint Venture

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



Remaining Level of Effort
Actual Level of Effort
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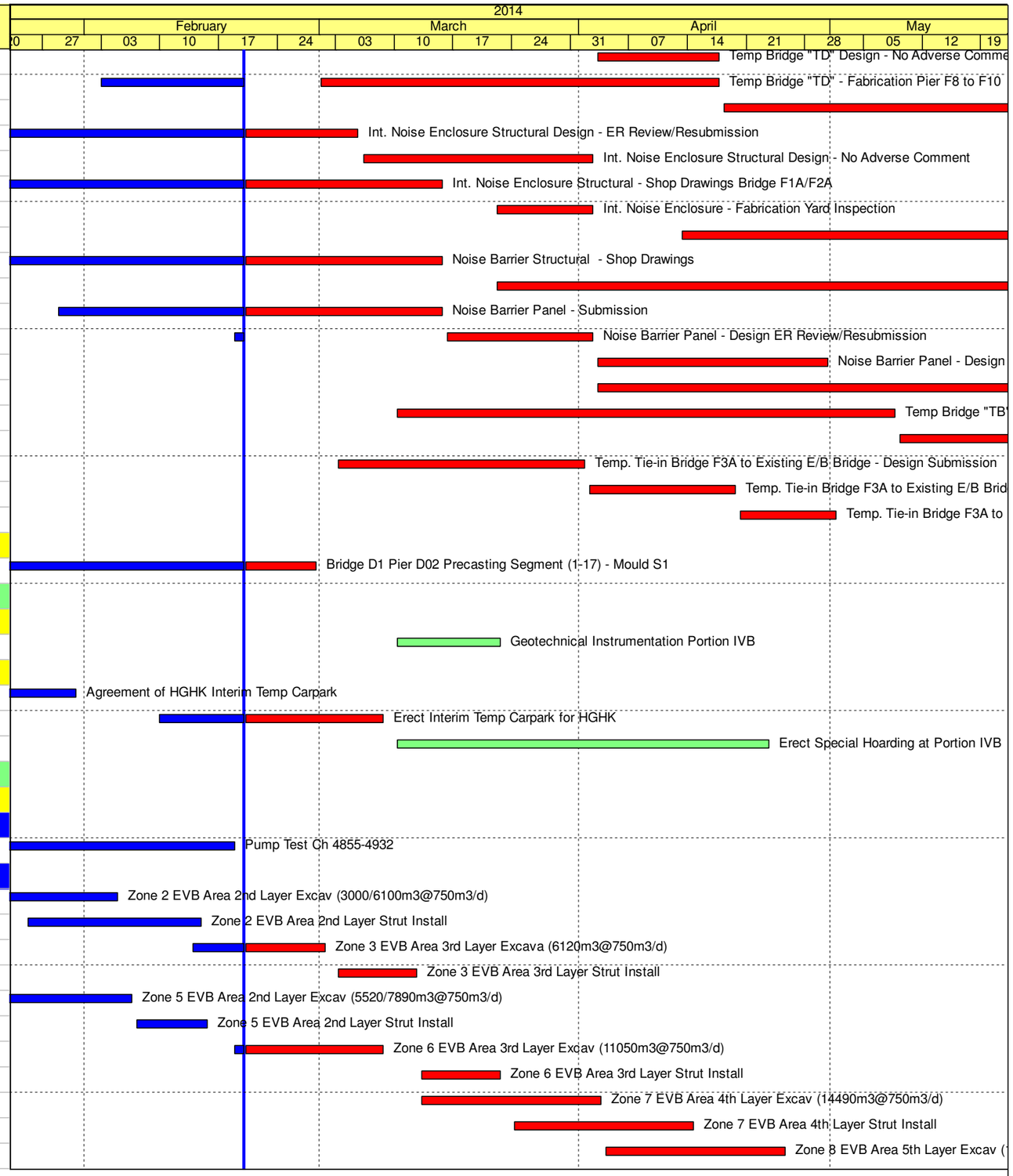
Milestone

Contract HY/2009/19

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

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



Remaining Level of Effort
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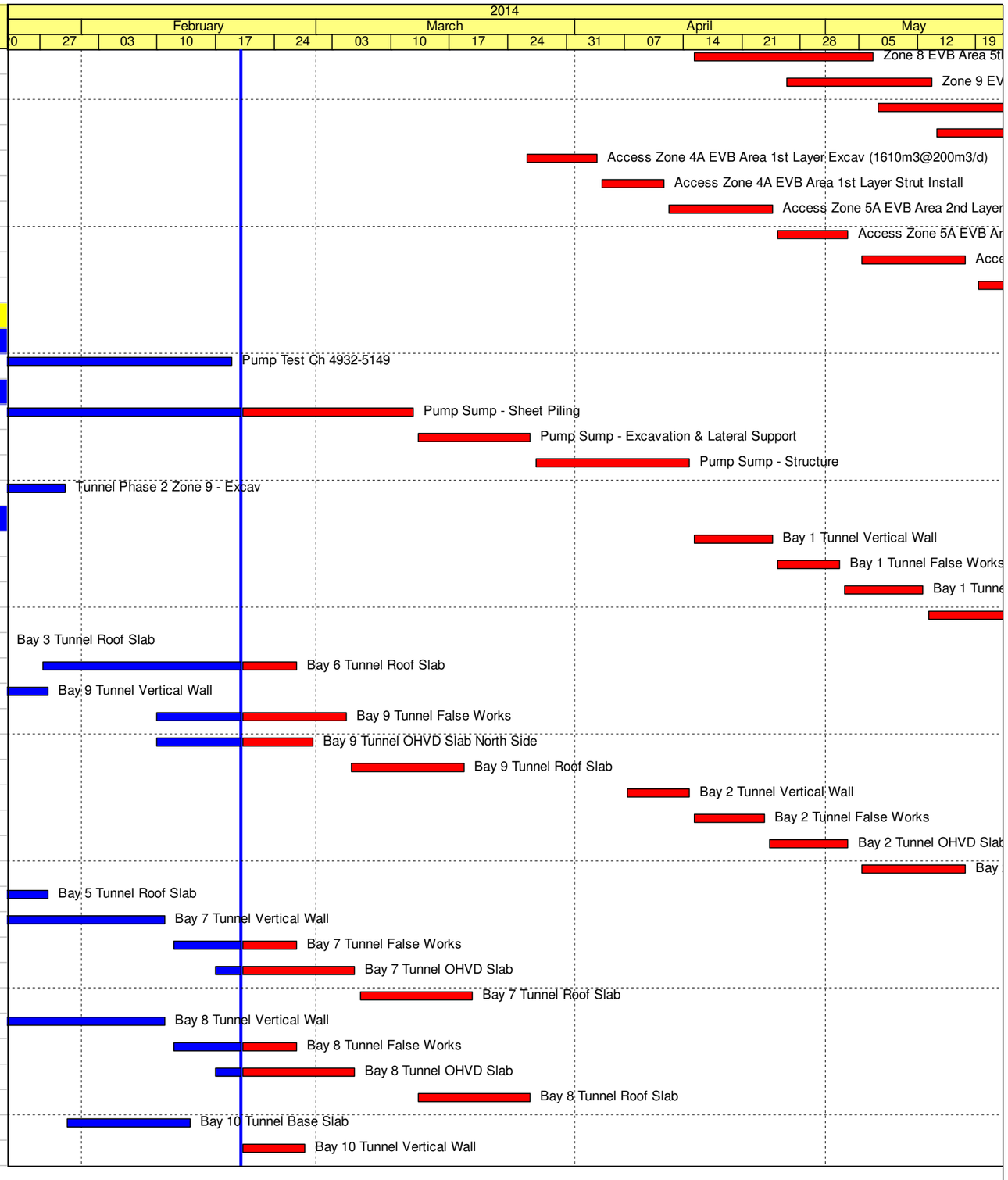
Contract HY/2009/19

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

3MRP

3MRP - Feb 2014 to May 2014

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



Remaining Level of Effort
Actual Level of Effort
Actual Work
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Milestone

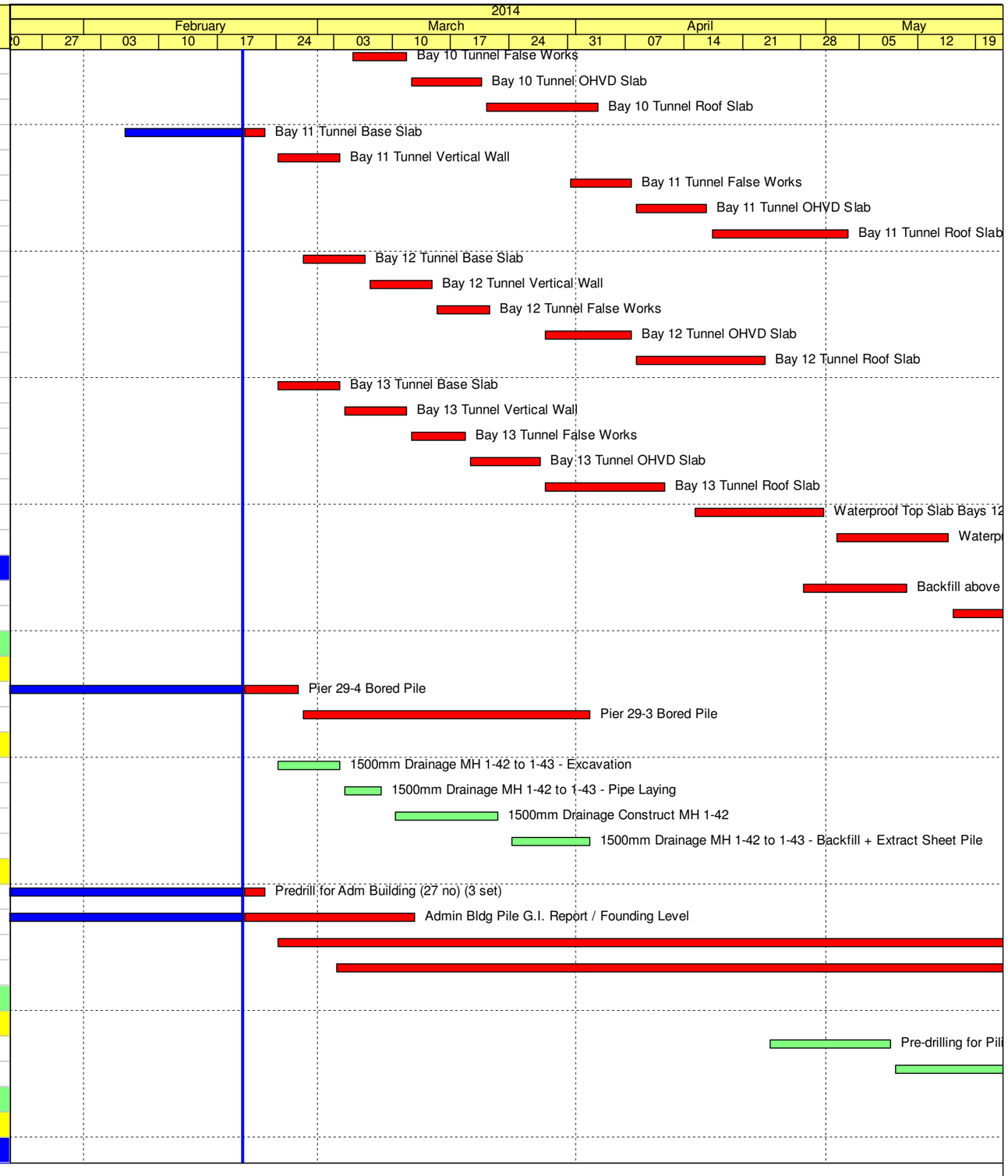
Contract HY/2009/19

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

3MRP

3MRP - Feb 2014 to May 2014

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



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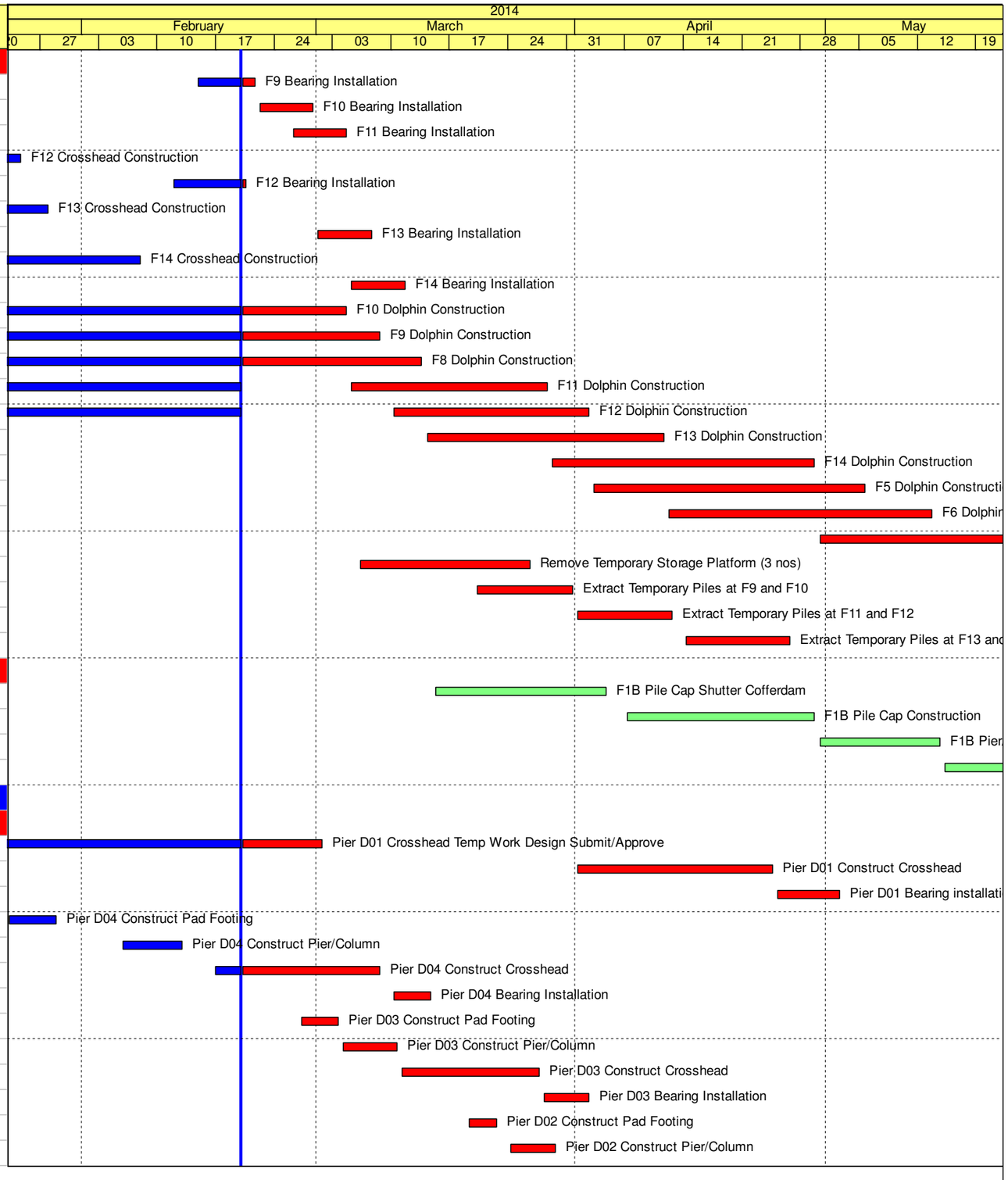
Contract HY/2009/19

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

Activity ID	Activity Name	Rem Dur	Start	Finish
Pier F03 to F15				
1011-2405	F9 Bearing Installation	2	15-Feb-14 A	21-Feb-14
1011-2433	F10 Bearing Installation	6	22-Feb-14	28-Feb-14
1011-2375	F11 Bearing Installation	6	26-Feb-14	04-Mar-14
1011-2460	F12 Crosshead Construction	0	10-Jan-14 A	24-Jan-14 A
1011-2465	F12 Bearing Installation	1	12-Feb-14 A	20-Feb-14
1011-2490	F13 Crosshead Construction	0	13-Jan-14 A	28-Jan-14 A
1011-2495	F13 Bearing Installation	6	01-Mar-14	07-Mar-14
1011-2520	F14 Crosshead Construction	0	15-Jan-14 A	08-Feb-14 A
1011-2525	F14 Bearing Installation	6	05-Mar-14	11-Mar-14
1011-3175	F10 Dolphin Construction	11	02-Dec-13 A	04-Mar-14
1011-3185	F9 Dolphin Construction	15	09-Dec-13 A	08-Mar-14
1011-3195	F8 Dolphin Construction	19	16-Dec-13 A	13-Mar-14
1011-3205	F11 Dolphin Construction	21	21-Dec-13 A	28-Mar-14
1011-3215	F12 Dolphin Construction	21	08-Jan-14 A	02-Apr-14
1011-3225	F13 Dolphin Construction	24	14-Mar-14	11-Apr-14
1011-3235	F14 Dolphin Construction	24	29-Mar-14	29-Apr-14
1011-3245	F5 Dolphin Construction	24	03-Apr-14	05-May-14
1011-3255	F6 Dolphin Construction	24	12-Apr-14	13-May-14
1011-3265	F7 Dolphin Construction	24	30-Apr-14	28-May-14
1011-2055	Remove Temporary Storage Platform (3 nos)	18	06-Mar-14*	26-Mar-14
1011-3275	Extract Temporary Piles at F9 and F10	10	20-Mar-14	31-Mar-14
1011-3285	Extract Temporary Piles at F11 and F12	10	01-Apr-14	12-Apr-14
1011-3295	Extract Temporary Piles at F13 and F14	10	14-Apr-14	26-Apr-14
Pier F01 to F02				
1011-2890	F1B Pile Cap Shutter Cofferdam	18	15-Mar-14*	04-Apr-14
1011-2895	F1B Pile Cap Construction	18	07-Apr-14	29-Apr-14
1011-2900	F1B Pier/Column Construction	12	30-Apr-14	14-May-14
1011-2910	F1B Crosshead Construction	18	15-May-14	05-Jun-14
10.1.2 - Land Pier Construction				
Pier D01 to D04				
1012-1395	Pier D01 Crosshead Temp Work Design Submit/Approve	9	21-Oct-13 A	01-Mar-14
1012-1400	Pier D01 Construct Crosshead	18	01-Apr-14*	24-Apr-14
1012-1570	Pier D01 Bearing installation	6	25-Apr-14	02-May-14
1012-1470	Pier D04 Construct Pad Footing	0	23-Jan-14 A	29-Jan-14 A
1012-1480	Pier D04 Construct Pier/Column	0	06-Feb-14 A	13-Feb-14 A
1012-1490	Pier D04 Construct Crosshead	15	17-Feb-14 A	08-Mar-14
1012-1540	Pier D04 Bearing Installation	5	10-Mar-14	14-Mar-14
1012-1440	Pier D03 Construct Pad Footing	4	27-Feb-14	03-Mar-14
1012-1450	Pier D03 Construct Pier/Column	6	04-Mar-14	10-Mar-14
1012-1460	Pier D03 Construct Crosshead	15	11-Mar-14	27-Mar-14
1012-1550	Pier D03 Bearing Installation	5	28-Mar-14	02-Apr-14
1012-1410	Pier D02 Construct Pad Footing	4	19-Mar-14	22-Mar-14
1012-1420	Pier D02 Construct Pier/Column	6	24-Mar-14	29-Mar-14

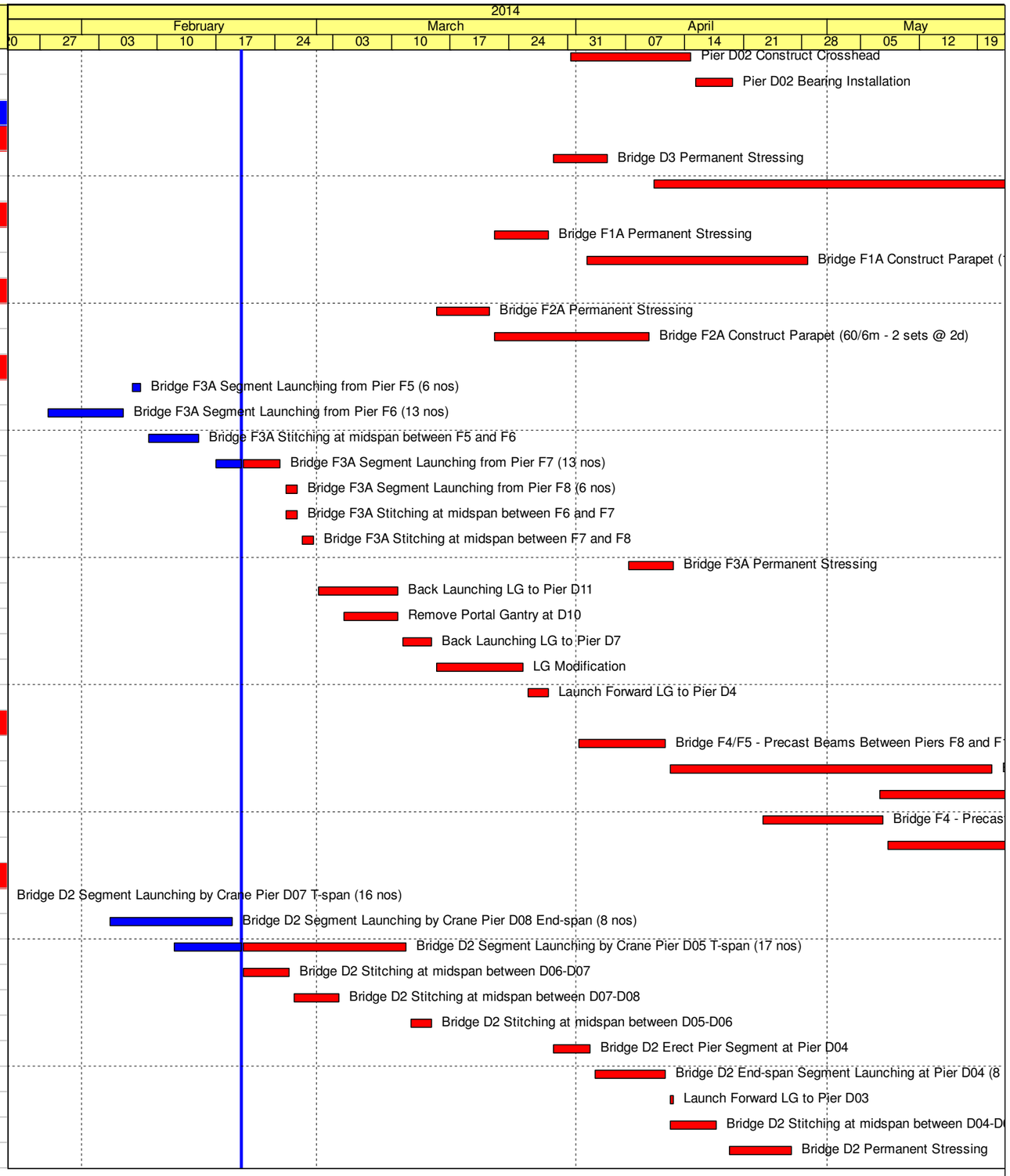


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

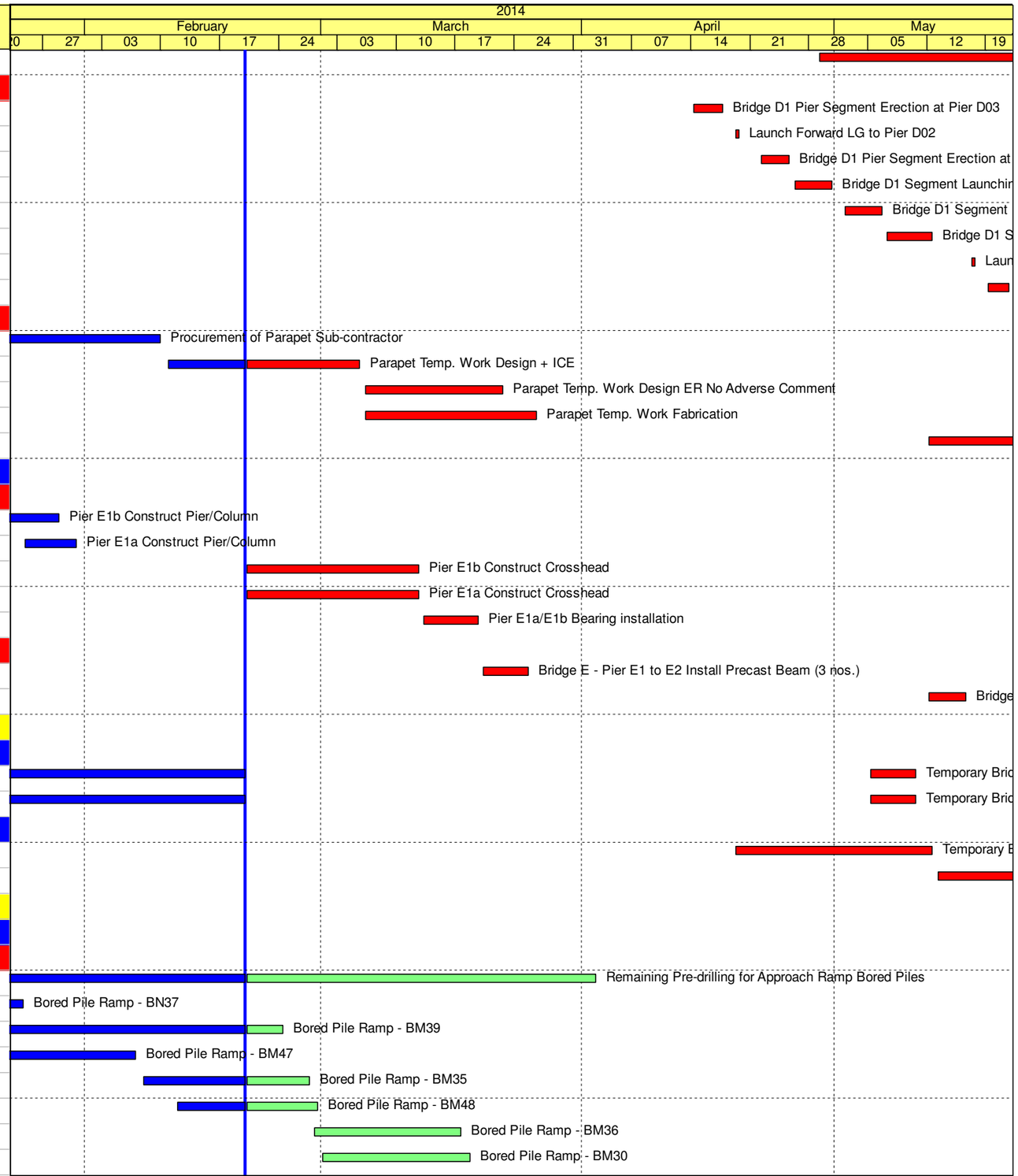
Three Month Rolling Programme (20 Feb 2014 to 19 May 2014)

Activity ID	Activity Name	Rem Dur	Start	Finish
1012-1430	Pier D02 Construct Crosshead	12	31-Mar-14	14-Apr-14
1012-1560	Pier D02 Bearing Installation	4	15-Apr-14	19-Apr-14
10.1.3 - E/B Bridge Construction				
Bridge D3				
1013-1130	Bridge D3 Permanent Stressing	6	29-Mar-14	04-Apr-14
1013-1140	Bridge D3 Construct Parapet (300/6m - 2 sets @ 2d)	50	10-Apr-14	11-Jun-14
Bridge F1A				
1013-1230	Bridge F1A Permanent Stressing	6	22-Mar-14	28-Mar-14
1013-1240	Bridge F1A Construct Parapet (111/6m - 2sets @ 2d)	20	02-Apr-14	28-Apr-14
Bridge F2A				
1013-1350	Bridge F2A Permanent Stressing	6	15-Mar-14*	21-Mar-14
1013-1360	Bridge F2A Construct Parapet (60/6m - 2 sets @ 2d)	15	22-Mar-14	09-Apr-14
Bridge F3A				
1013-1290	Bridge F3A Segment Launching from Pier F5 (6 nos)	0	07-Feb-14 A	08-Feb-14 A
1013-1300	Bridge F3A Segment Launching from Pier F6 (13 nos)	0	28-Jan-14 A	06-Feb-14 A
1013-1380	Bridge F3A Stitching at midspan between F5 and F6	0	09-Feb-14 A	15-Feb-14 A
1013-1310	Bridge F3A Segment Launching from Pier F7 (13 nos)	4	17-Feb-14 A	24-Feb-14
1013-1320	Bridge F3A Segment Launching from Pier F8 (6 nos)	2	25-Feb-14	26-Feb-14
1013-1390	Bridge F3A Stitching at midspan between F6 and F7	2	25-Feb-14	26-Feb-14
1013-1400	Bridge F3A Stitching at midspan between F7 and F8	2	27-Feb-14	28-Feb-14
1013-1410	Bridge F3A Permanent Stressing	6	07-Apr-14	12-Apr-14
1013-1431	Back Launching LG to Pier D11	8	01-Mar-14	10-Mar-14
1013-1810	Remove Portal Gantry at D10	6	04-Mar-14	10-Mar-14
1013-1820	Back Launching LG to Pier D7	4	11-Mar-14	14-Mar-14
1013-1830	LG Modification	9	15-Mar-14	25-Mar-14
1013-1840	Launch Forward LG to Pier D4	3	26-Mar-14	28-Mar-14
Bridge F5/F4				
1013-1440	Bridge F4/F5 - Precast Beams Between Piers F8 and F10 by barge 4 nos.	9	01-Apr-14	11-Apr-14
1013-1442	Bridge F4/F5 Construct R.C. Deck	30	12-Apr-14	20-May-14
1013-1445	Bridge F4/F5 Tie-in to Existing IEC Bridge	24	07-May-14	04-Jun-14
1013-1890	Bridge F4 - Precast Beams between Piers F10 and F15 by barge 6 nos.	12	23-Apr-14	07-May-14
1013-1450	Bridge F4/F5 Construct R.C. Deck / Tie-in to Existing	60	08-May-14	18-Jul-14
Bridge D2				
1013-1490	Bridge D2 Segment Launching by Crane Pier D07 T-span (16 nos)	0	13-Jan-14 A	23-Jan-14 A
1013-1470	Bridge D2 Segment Launching by Crane Pier D08 End-span (8 nos)	0	04-Feb-14 A	19-Feb-14 A
1013-1500	Bridge D2 Segment Launching by Crane Pier D05 T-span (17 nos)	17	12-Feb-14 A	11-Mar-14
1013-1520	Bridge D2 Stitching at midspan between D06-D07	5	20-Feb-14	25-Feb-14
1013-1530	Bridge D2 Stitching at midspan between D07-D08	5	26-Feb-14	03-Mar-14
1013-1540	Bridge D2 Stitching at midspan between D05-D06	3	12-Mar-14	14-Mar-14
1013-1850	Bridge D2 Erect Pier Segment at Pier D04	4	29-Mar-14	02-Apr-14
1013-1510	Bridge D2 End-span Segment Launching at Pier D04 (8 nos)	7	03-Apr-14	11-Apr-14
1013-1515	Launch Forward LG to Pier D03	1	12-Apr-14	12-Apr-14
1013-1550	Bridge D2 Stitching at midspan between D04-D05	5	12-Apr-14	17-Apr-14
1013-1560	Bridge D2 Permanent Stressing	6	19-Apr-14	26-Apr-14



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

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



Remaining Level of Effort
Actual Level of Effort
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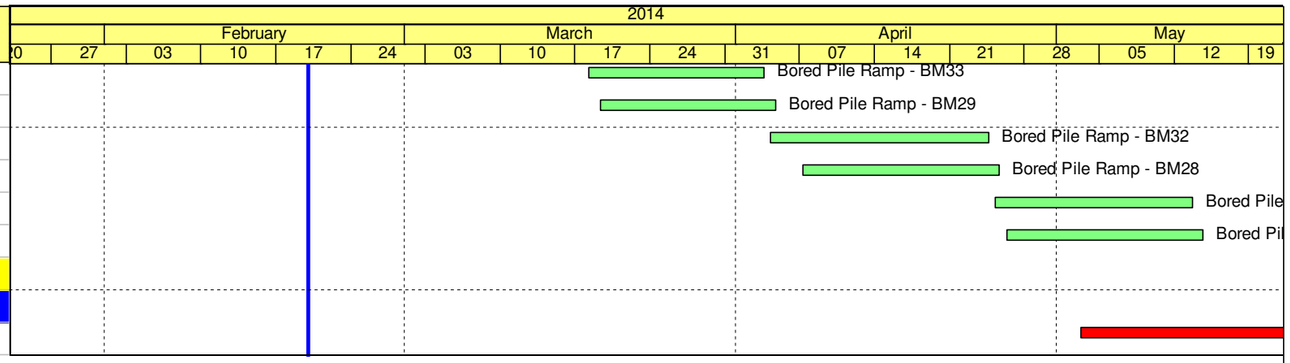
Milestone

Contract HY/2009/19

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

Activity ID	Activity Name	Rem Dur	Start	Finish
1061-1810	Bored Pile Ramp - BM33	15	18-Mar-14	03-Apr-14
1061-1820	Bored Pile Ramp - BM29	15	19-Mar-14	04-Apr-14
1061-1830	Bored Pile Ramp - BM32	15	04-Apr-14	24-Apr-14
1061-1840	Bored Pile Ramp - BM28	15	07-Apr-14	25-Apr-14
1061-1850	Bored Pile Ramp - BM34	15	25-Apr-14	13-May-14
1061-1860	Bored Pile Ramp - BM31	15	26-Apr-14	14-May-14
10.7 - Section X - Miscellaneous Works				
10.7.1 - TTM Stages				
1071-1005	TTA Stage 2A - TMLG / TD / Police Consultation and Endorsement	36	03-May-14	14-Jun-14



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

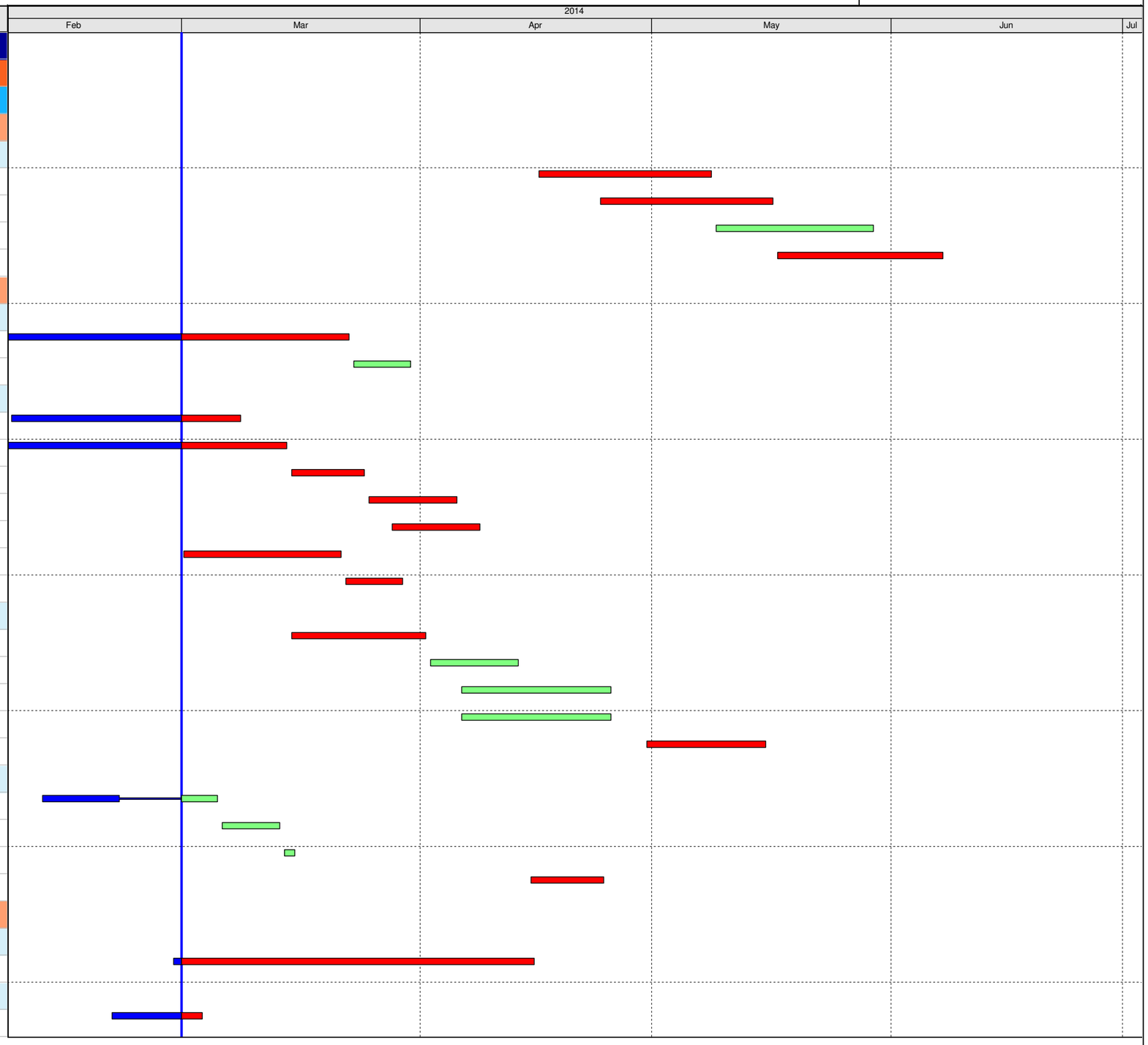
Contract HY/2009/19

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

中國建築-利達聯營
CHINA STATE - LEADER JOINT VENTURE

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

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish
HK/2012/08 Revised Works Programme (Rev.2/2) - Data Date 01-Mar-2014				
Dredging and Reclamation				
Marine Work Construction				
Dredging				
Dredging - Zone D				
MAR11880	Zone D - Remove existing rock armour [S8-S10]	18	16-Apr-14	08-May-14
MAR11900	Zone D - dredging [R8-R10]	18	24-Apr-14	16-May-14
MAR12640	Zone D - Remove existing rock armour [S13-S1152]	18	09-May-14	29-May-14
MAR12660	Zone D - dredging [R12-R14]	18	17-May-14	07-Jun-14
Seawall Construction				
Seawall Construction - Zone C				
MAR11620	Zone C - WDII Box 1 temp SW - place rock mound	30	23-Jan-14 A	22-Mar-14
MAR11660	Zone C - WDII Box 1 temp SW - place concrete block	8	23-Mar-14	30-Mar-14
Seawall Construction - Zone B				
MAR11009	Zone B - seawall - Type 7 - install seawall block from -6.65mPD to above	26	07-Feb-14 A	08-Mar-14
MAR18180	Zone B - seawall - Type 5, 6 - fill rock mound	18	14-Jan-14 A	14-Mar-14
MAR18221	Zone B - seawall - Type 5, 6 - lay toe block & leveling stone	10	15-Mar-14	24-Mar-14
MAR18222	Zone B - seawall - install block seawall type 5	12	25-Mar-14	05-Apr-14
MAR18224	Zone B - seawall - install block seawall type 6	12	28-Mar-14	08-Apr-14
MAR21425	Zone B - WDII Box 1 temp SW - place rock mound	21	01-Mar-14	21-Mar-14
MAR21430	Zone B - WDII Box 1 temp SW - place concrete block	8	22-Mar-14	29-Mar-14
Seawall Construction - Zone A2				
MAR10765	Zone A2 - seawall - Type 4, 13 - fill rock mound	18	15-Mar-14	01-Apr-14
MAR10767	Zone A2 - seawall - Type 4, 13 - lay toe block and leveling stone	12	02-Apr-14	13-Apr-14
MAR10780	Zone A2 - seawall - install block seawall type 4 to -4.0mPD	20	06-Apr-14	25-Apr-14
MAR10800	Zone A2 - seawall - install block seawall type 13 to -4.0mPD	20	06-Apr-14	25-Apr-14
MAR10805	Zone A2 - seawall - install block seawall type 4 from -4 to +4.0mPD	12	30-Apr-14	15-May-14
Seawall Construction - Zone A1				
MAR10290	Zone A1 - seawall - Type 1R, 3 - fill rock mound	20	11-Feb-14 A	05-Mar-14
MAR10294	Zone A1 - seawall - Type 1R, 3 - lay toe block and leveling stone	8	06-Mar-14	13-Mar-14
MAR10300	Zone A1 - seawall - delivery and install caisson seawall no. 1R	2	14-Mar-14	15-Mar-14
MAR10320	Zone A1 - seawall - install block seawall type 3	10	15-Apr-14	24-Apr-14
Filling				
Filling - Zone C				
MAR11740	Zone C - public fill -4.0 to +4.0mPD	52	28-Feb-14 A	15-Apr-14
Filling - Zone B				
MAR11110	Zone B - C4 unit - seal bottom gap	12	20-Feb-14 A	03-Mar-14



Data Date:
01-Mar-14

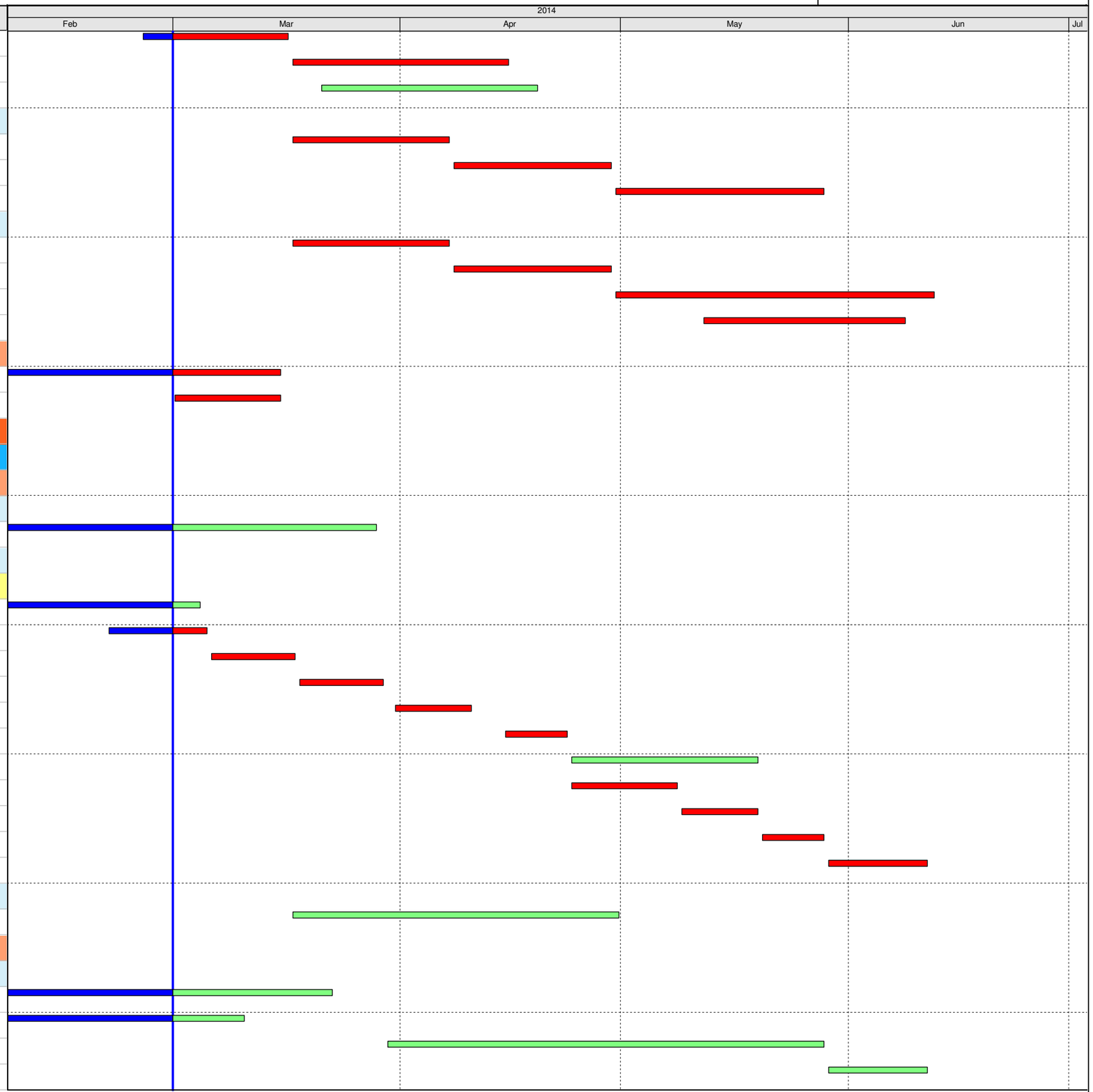
Current Milestone
Actual Work
Critical Remaining Work
Remaining Work
Remaining Level of Effort

3-Month Rolling Programme for Works outside CRIII Area

(Mar 2014 to May 2014)

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

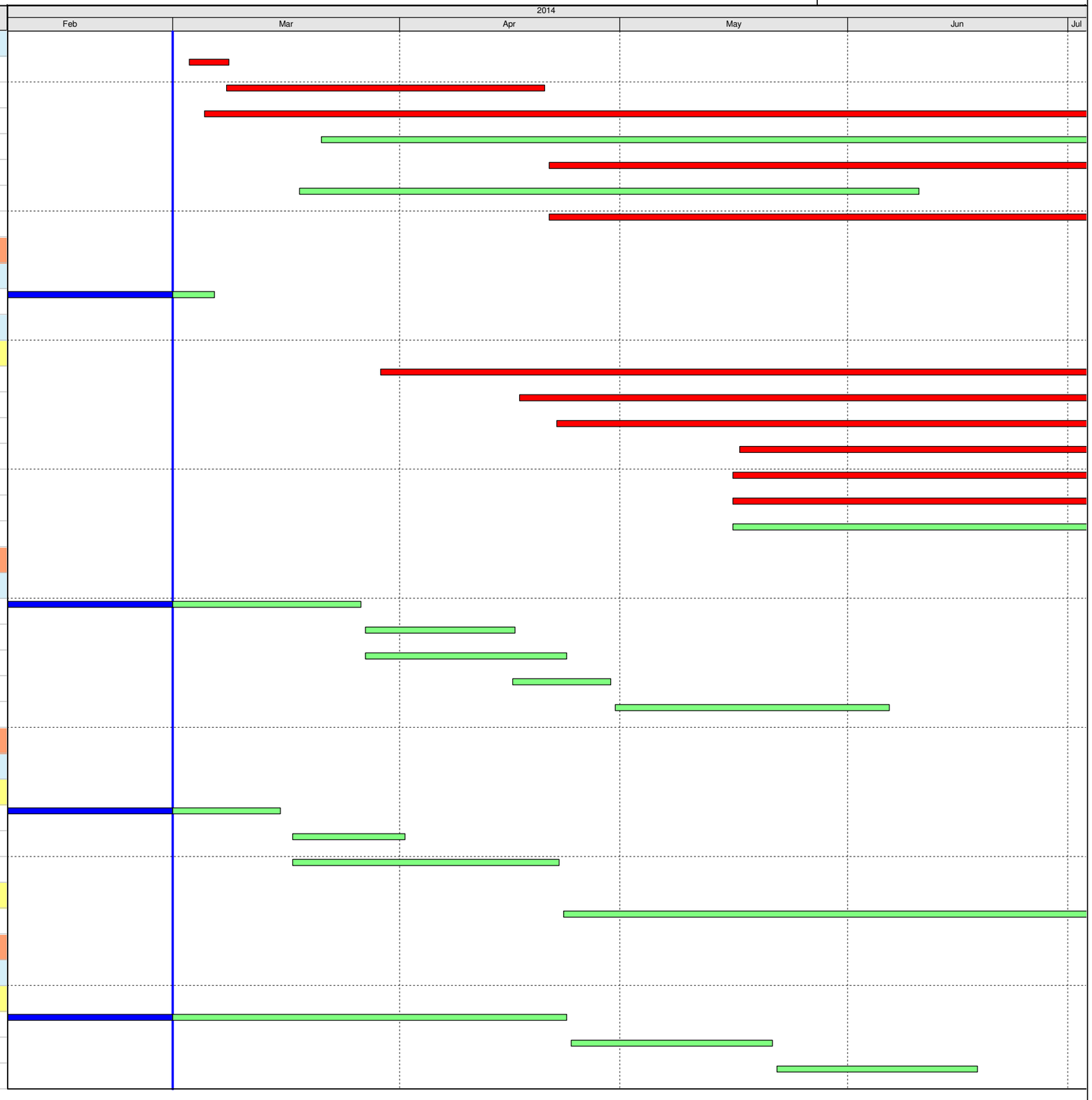
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish
MAR11120	Zone B - Public Fill (MTR) -10.0 to -4.0mPD	20	25-Feb-14 A	16-Mar-14
MAR11125	Zone B - Public Fill (MTR) -4.0 to +4.0mPD	30	17-Mar-14	15-Apr-14
MAR11140	Zone B - Sorted & Compacted Fill above MTR TWL	30	21-Mar-14	19-Apr-14
Filling - Zone A2				
MAR10820	Zone A2 - public Fill -14.0 to -10.0mPD	22	17-Mar-14	07-Apr-14
MAR20340	Zone A2 - Public Fill -10.0 to -4.0mPD	22	08-Apr-14	29-Apr-14
MAR20360	Zone A2 - Public Fill -4.0 to +4.0mPD	29	30-Apr-14	28-May-14
Filling - Zone A1				
MAR10440	Zone A1 - public fill -14.0 to -10.0mPD	22	17-Mar-14	07-Apr-14
MAR20380	Zone A1 - Public Fill -10.0 to -4.0mPD	22	08-Apr-14	29-Apr-14
MAR20400	Zone A1 - Public Fill -4.0 to +4.0mPD	44	30-Apr-14	12-Jun-14
MAR20420	Zone A1 & A2 - Form rock underlayer for temp channel	28	12-May-14	08-Jun-14
Abandoning Submarine Sewage Outfall and Cross Harbour Watermain				
MAR12477	abandoning watermain - seal up watermain and grout (portion to south of CWB tunnel)	17	21-Jan-14 A	15-Mar-14
MAR12480	abandoning watermain - remove existing cross harbour watermain pipelines & seal up cut opening	13	01-Mar-14	15-Mar-14
Works for Section Completion				
Construction				
Box Culvert La, L1 & FRP-L Construction				
Box Culvert L - Design, Submission and Approval				
CUL12360	Culvert L & K - Stage 2 DIA Report - prepare and submit to Eng	28	04-Feb-14 A	28-Mar-14
Sec VI A - Box Culvert La bay 1-3 and Roadwork				
Box Culvert La Bay 1-3				
CUL10166	Sec VI A - Area 1 - Culvert L bay 1-3 - Installation of Sheetpile (total 110m long)	12	23-Dec-13 A	04-Mar-14
CUL10170	Sec VI A - Area 1 - Culvert L bay 1-3 - grouting	10	20-Feb-14 A	05-Mar-14
CUL10480	Sec VI A - Area 1 - Culvert L bay 1-3 - excavation and ELS installation	10	06-Mar-14	17-Mar-14
CUL10520	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 1 - base slab	11	18-Mar-14	29-Mar-14
CUL10540	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 1 - wall	9	31-Mar-14	10-Apr-14
CUL10560	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 1 - top slab	8	15-Apr-14	23-Apr-14
CUL10580	Sec VI A - Area 1 - Culvert L bay 1-3 - construct manhole DO-01; IM-01	20	24-Apr-14	19-May-14
CUL10600	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 2 - base slab	11	24-Apr-14	08-May-14
CUL10620	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 2 - wall	9	09-May-14	19-May-14
CUL10640	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 2 - top slab	8	20-May-14	28-May-14
CUL10660	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 3 - base slab	11	29-May-14	11-Jun-14
Box Culvert L1 & FRP-L - Bay 5 to 7				
CUL10015	Culvert L - form temp opening at existing box culvert for temp flow diversion	35	17-Mar-14	30-Apr-14
Section II - MVB Structure				
Section II - MVB Substructure - Design, Submission and Approval				
SII10100	Sec II - MVB - MS for bored pile construction - Eng comment and approve	28	02-Jan-14 A	22-Mar-14
SII10120	Sec II - MVB - MS for Dwall construction - prepare and submit to ICE	60	01-Aug-13 A	10-Mar-14
SII10240	Sec II - MVB - MS & temp work design for bulk exc & ELS - prepare and submit to ICE	60	30-Mar-14	28-May-14
SII10260	Sec II - MVB - MS & temp work design for bulk exc & ELS - ICE check & issue cert	14	29-May-14	11-Jun-14



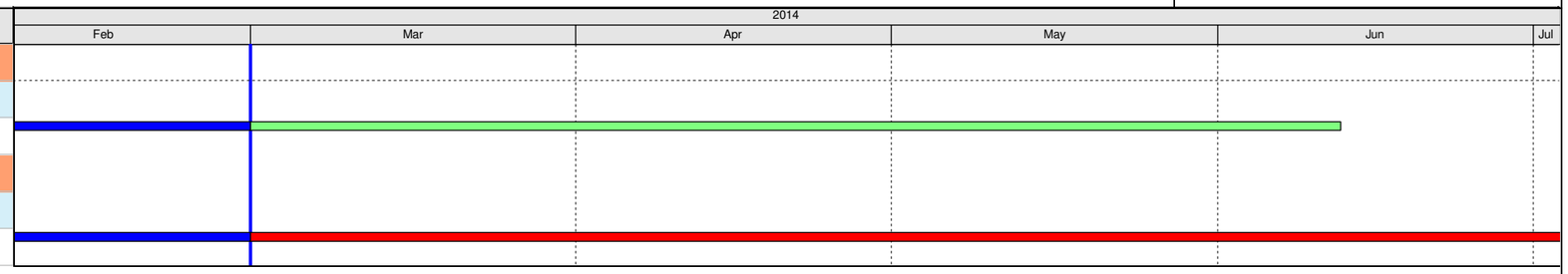
CHINA STATE - LEADER JOINT VENTURE

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

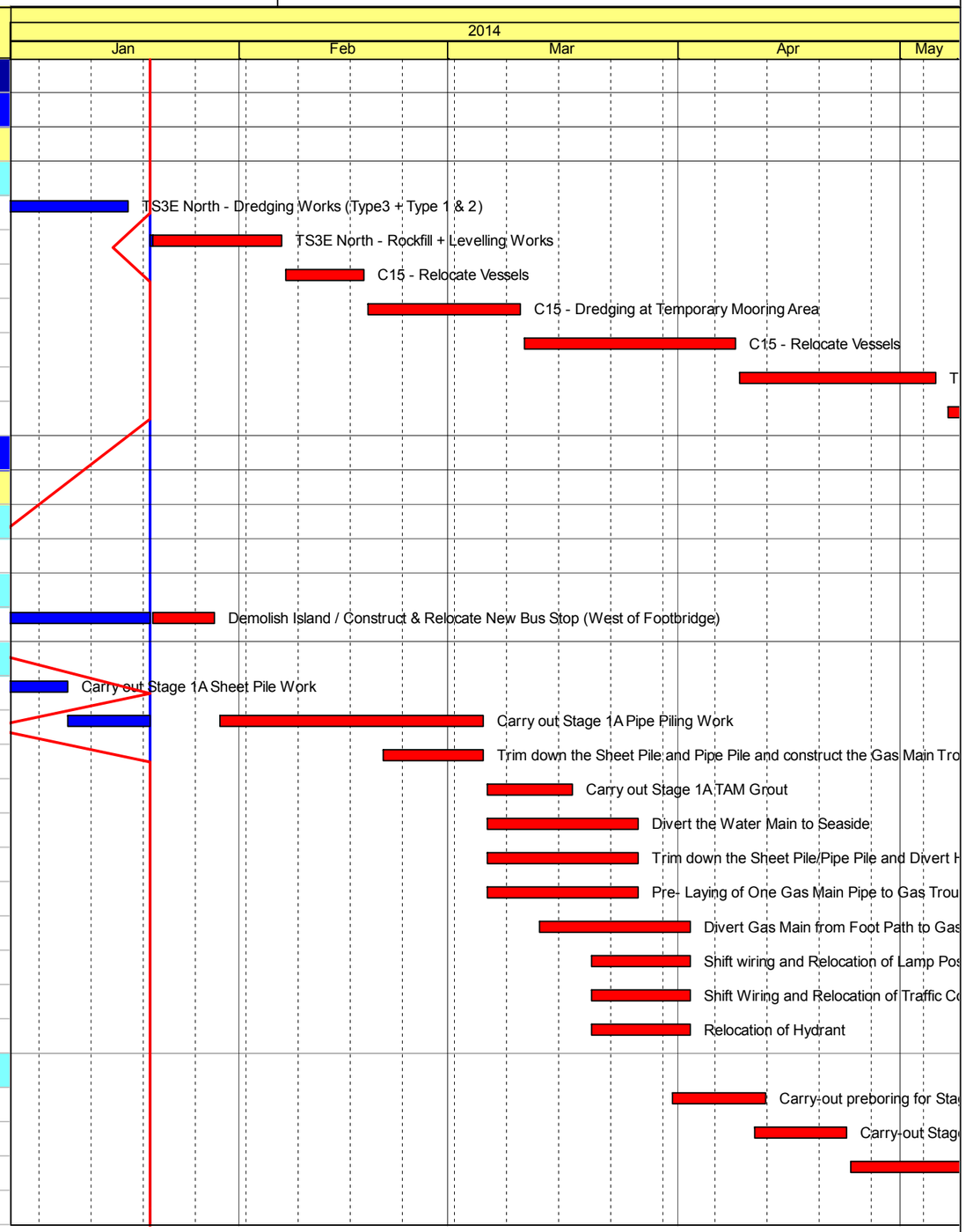
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish
	MVB Substructure - Diaphragm Wall and Sheetpile Wall			
SII10425	Sec II - MVB - Set up predrill rigs and preparation for predrilling	6	03-Mar-14	08-Mar-14
SII10430	Sec II - MVB - D-wall construction preparation and silo setup	44	08-Mar-14	20-Apr-14
SII10440	Sec II - MVB - predrilling and ground pretreatment for Dwall	102	05-Mar-14	10-Jul-14
SII10460	Sec II - MVB A - construct guide wall [P1-P13, P33-P41]	150	21-Mar-14	22-Sep-14
SII10480	Sec II - MVB A - construct Dwall [P1-P13, P33-P41] (1.5m thk on rock)	150	21-Apr-14	20-Oct-14
SII10520	Sec II - MVB B - construct guide wall [P14-P32]	66	18-Mar-14	10-Jun-14
SII10540	Sec II - MVB B - construct Dwall [P14-P32] (1.5m thk on rock)	150	21-Apr-14	20-Oct-14
	Section II A - CWB Tunnel & Slip Road Structures and Facilities			
	Section II A - CWB Tunnel - Design, Submission and Approval			
SIIA10460	CWB Tunnel - MS for DWall Construction - Eng comment & approve	28	16-Jan-14 A	06-Mar-14
	CWB A2 & B			
	CWB A2 & B - Dwall Construction			
SIIA11460	Sec II A - CWB B: Predrilling for Dwall & piles	78	29-Mar-14	07-Jul-14
SIIA11480	Sec II A - CWB B: Ground treatment	120	17-Apr-14	08-Sep-14
SIIA11500	Sec II A - CWB B: construct Guide Wall	60	22-Apr-14	04-Jul-14
SIIA11520	Sec II A - CWB B: construct DWall and barrette (1.2m thk on rock)	96	17-May-14	08-Sep-14
SIIA13340	Sec II A - CWB A2(1): Predrilling for Dwall & piles	50	16-May-14	15-Jul-14
SIIA13360	Sec II A - CWB A2(1): ground pretreatment	46	16-May-14	10-Jul-14
SIIA13380	Sec II A - CWB A2(1): Guide Wall	50	16-May-14	15-Jul-14
	Section VI B - Area 8			
	Area 8 - Demolish Ex. Cooling Water Pumping Station			
SVIB10000	MS of cooling water pump station demolition Works - prepare and submit	60	03-Dec-13 A	26-Mar-14
SVIB10020	MS of cooling water pump station demolition - ICE check and issue check cert	14	27-Mar-14	16-Apr-14
SVIB10040	MS of cooling water pump station demolition Works - Eng comment and approve	28	27-Mar-14	23-Apr-14
SVIB10070	Sec VI B - site clearance, u/g utilities detection	12	16-Apr-14	29-Apr-14
SVIB10080	Sec VI B - demolish existing air duct	30	30-Apr-14	06-Jun-14
	Section VI C - Area 3, 6, 8A & 8C			
	Area 8A & 8C - Seawall Modification (Reviewed)			
	Design Submission & Approval			
PRS-1000	Sec VI C - Temp Work Design for Seawall Modification - Prepare and submit to ICE	90	20-Nov-13 A	15-Mar-14
PRS-1002	Sec VI C - Temp Work Design for Seawall Modification & MTR Pump Room Stabilization - ICE check and issue check cert.	14	17-Mar-14	01-Apr-14
PRS-1004	Sec VI C - Temp Work Design for Seawall Modification & MTR Pump Room Stabilization - Engineer / MTR comment and approve	28	17-Mar-14	22-Apr-14
	Tenders for Sub-contractor and Procurement			
Sub11040	Sec VI C - Prepare Sub-contract for Seawall Modification and Procurement of Materials	90	23-Apr-14	09-Aug-14
	Section VI D - Area 8B & 10			
	WDII Box 1 Construction (Reviewed)			
	WDII Box 1 Submission and Approval / Material Procurement			
S0721020	Sec VI D - WD II Box 1 - temp work design - prepare and submit	180	03-Jul-13 A	23-Apr-14
S0721040	Sec VI D - WD II Box 1 - temp work design - ICE check and issue check cert	28	24-Apr-14	21-May-14
S0721060	Sec VI D - WD II Box 1 - temp work design - Engineer comment and approve	28	22-May-14	18-Jun-14



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



Activity ID	Activity Name	Original Duration	Start	Finish
HY/2010/08: CWB-SR8 Three Months Rolling Programme_updated up to 20140120				
Works in TS3				
TS3 East & West Reclamation Works				
TS3E - Reclamation (Advance Works)				
TS3E.MW.1025	TS3E North - Dredging Works (Type3 + Type 1 & 2)	59	04-Nov-13 A	17-Jan-14 A
TS3E.MW.1030	TS3E North - Rockfill + Levelling Works	13	20-Jan-14 A	06-Feb-14
TS3E.MW.1050	C15 - Relocate Vessels	9	07-Feb-14	17-Feb-14
TS3E.MW.1060	C15 - Dredging at Temporary Mooring Area	18	18-Feb-14	10-Mar-14
TS3E.MW.1070	C15 - Relocate Vessels	24	11-Mar-14	08-Apr-14
TS3E.MW.1080	TS3E South - Dredging Works (Type 3)	19	09-Apr-14	05-May-14
TS3E.MW.1085	TS3E South - Dredging Works (Type 1 & 2)	28	07-May-14	09-Jun-14
Works in SR8 (Open Cut Method)				
SR8 - Cofferdam & Cut & Cover Tunnel Works				
SR8 East Bound - (Seaside to Victoria Road / IEC Central Divider)				
TTA Stage 0 - East Bound				
Stage 0B - East Bound (Seaside) (Ref. DRG. No. CDD/SR8/081)				
SR8.EB.0240	Demolish Island / Construct & Relocate New Bus Stop (West of Footbridge)	24	16-Nov-13 A	28-Jan-14
Stage 1A - East Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)				
SR8.EB.1030	Carry out Stage 1A Sheet Pile Work	15	24-Dec-13 A	09-Jan-14 A
SR8.EB.1040	Carry out Stage 1A Pipe Piling Work	28	09-Jan-14 A	05-Mar-14
SR8.EB.1060	Trim down the Sheet Pile and Pipe Pile and construct the Gas Main Trough	12	20-Feb-14	05-Mar-14
SR8.EB.1050	Carry out Stage 1A TAM Grout	10	06-Mar-14	17-Mar-14
SR8.EB.1070	Divert the Water Main to Seaside	18	06-Mar-14	26-Mar-14
SR8.EB.1090	Trim down the Sheet Pile/Pipe Pile and Divert HEC Cable (11kv) to completed Pipe pile	18	06-Mar-14	26-Mar-14
SR8.EB.1100	Pre- Laying of One Gas Main Pipe to Gas Trough for diversion at Stage 2	18	06-Mar-14	26-Mar-14
SR8.EB.1080	Divert Gas Main from Foot Path to Gas Main Trough	18	13-Mar-14	02-Apr-14
SR8.EB.1110	Shift wiring and Relocation of Lamp Post	12	20-Mar-14	02-Apr-14
SR8.EB.1120	Shift Wiring and Relocation of Traffic Control Box	12	20-Mar-14	02-Apr-14
SR8.EB.1130	Relocation of Hydrant	12	20-Mar-14	02-Apr-14
Stage 1B - East Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)				
SR8.EB.1210	Carry-out preboring for Stage 1B Sheet Pile	11	31-Mar-14	12-Apr-14
SR8.EB.1220	Carry-out Stage 1B Sheet Piling works	8	11-Apr-14	23-Apr-14
SR8.EB.1230	Carry-out Stage 1B Pipe Piling works	24	24-Apr-14	23-May-14
SR8.EB.1250	Install King Post for Traffic Deck (3 nos.)	16	24-May-14	12-Jun-14

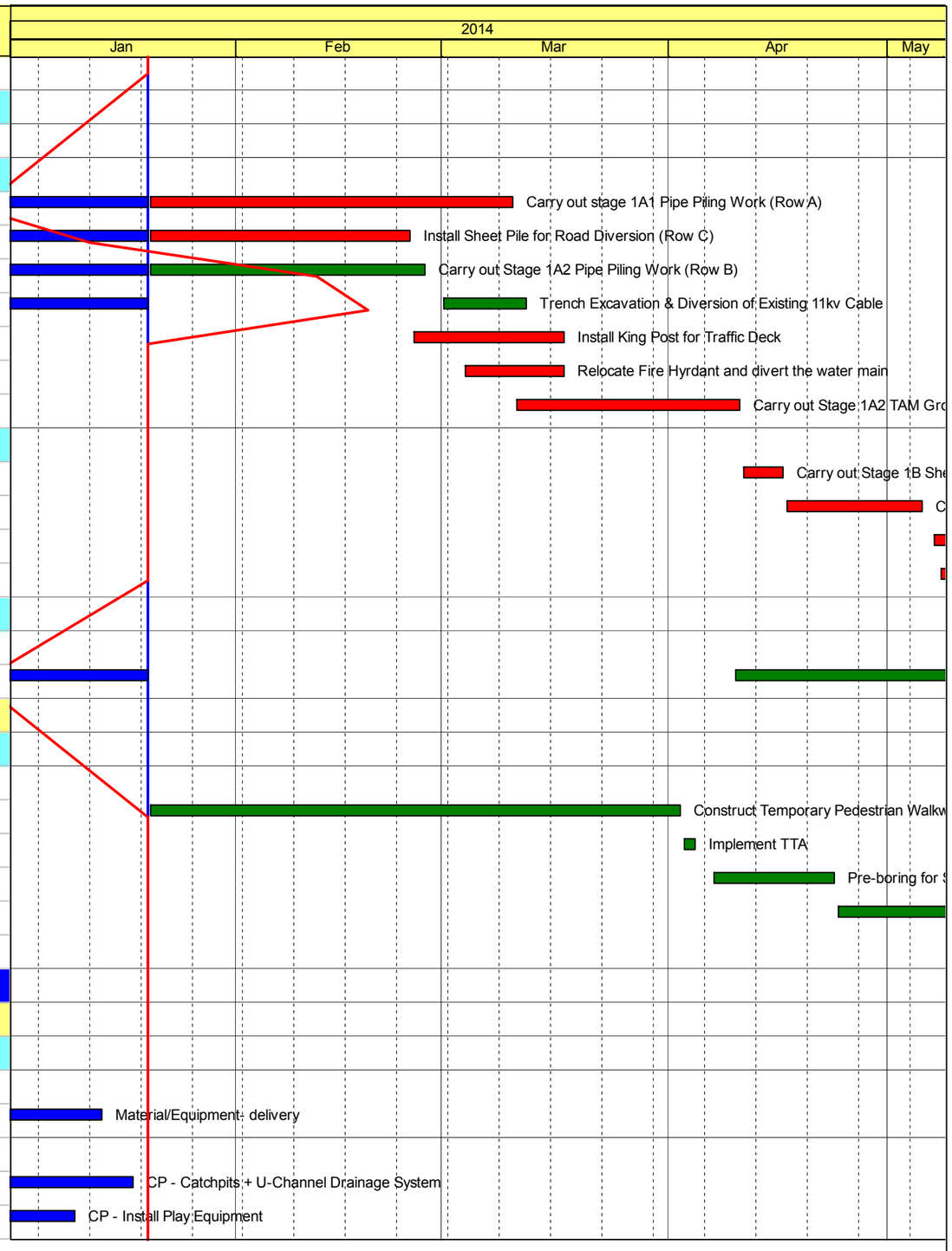


Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
20-Jan-14	Updated to 20th Jan 2014	DML/WC	

Activity ID	Activity Name	Original Duration	Start	Finish
SR8.EB.1255	Carry-out Stage 1B TAM Grout + Jet Grouting (12nos)	22	24-May-14	19-Jun-14
SR8 West Bound - Ch. 369.000 to 495.000 (Victoria Road / IEC Central Divider)				
TTA Stage 0 (West Bound)				
Stage 1A - West Bound (Inside VP) (Ref. DRG. No.CDD/SR8/085)				
SR8.WB.1050	Carry out stage 1A1 Pipe Piling Work (Row A)	73	12-Nov-13 A	10-Mar-14
SR8.WB.1035	Install Sheet Pile for Road Diversion (Row C)	28	29-Nov-13 A	24-Feb-14
SR8.WB.1080	Carry out Stage 1A2 Pipe Piling Work (Row B)	63	19-Dec-13 A	26-Feb-14
SR8.WB.1115	Trench Excavation & Diversion of Existing 11kv Cable	64	20-Dec-13 A	12-Mar-14
SR8.WB.1100	Install King Post for Traffic Deck	18	25-Feb-14	17-Mar-14
SR8.WB.1110	Relocate Fire Hyrdant and divert the water main	12	04-Mar-14	17-Mar-14
SR8.WB.1112	Carry out Stage 1A2 TAM Grout	26	11-Mar-14	10-Apr-14
Stage 1B - West Bound (Inside VP) (Ref. DRG. No.CDD/SR8/085)				
SR8.WB.1220	Carry out Stage 1B Sheet Pile Work	5	11-Apr-14	16-Apr-14
SR8.WB.1230	Carry out Stage 1B Pipe Piling Work	12	17-Apr-14	05-May-14
SR8.WB.1240	Carry out Stage 1B TAM Grout	6	07-May-14	13-May-14
SR8.WB.1250	Construction of Traffic Deck and Temporary Road	30	08-May-14	12-Jun-14
SR8 Ch.369.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)				
Stage 4 - SR8 Ch.369.000 to Ch317.500 (Tunnel Portal) (Ref. DRG. No.CDD/SR8/087)				
SR8.VP.4010	Carry Out Stage 4 Sheet Pile Works	90	19-Dec-13 A	31-Jul-14
Tsing Fung St - RW & Subway Extension & Toe Wall at Hing Fat St				
Ret. Wall & TF Subway Extension (Portion V)				
Retaining Wall at Tsing Fung Street (Portion V)				
VP_1215	Construct Temporary Pedestrian Walkway	60	20-Jan-14*	02-Apr-14
VP_1205	Implement TTA	2	03-Apr-14	04-Apr-14
VP_1225	Pre-boring for Sheet Pile	12	07-Apr-14	23-Apr-14
VP_1235	TFS New Ret. Wall -sheet pile (400 m2)	12	24-Apr-14	09-May-14
VP_1240	TFS New Ret. Wall - excavation	42	10-May-14	28-Jun-14
Works in Victoria Park				
Re-Provisioning Works				
Children's Playground				
Procurement				
VP_0125	Material/Equipment- delivery	48	15-Nov-13 A	13-Jan-14 A
Construction Works				
VP_1080.03	CP - Catchpits + U-Channel Drainage System	12	22-Nov-13 A	18-Jan-14 A
VP_1200	CP - Install Play Equipment	18	29-Nov-13 A	10-Jan-14 A



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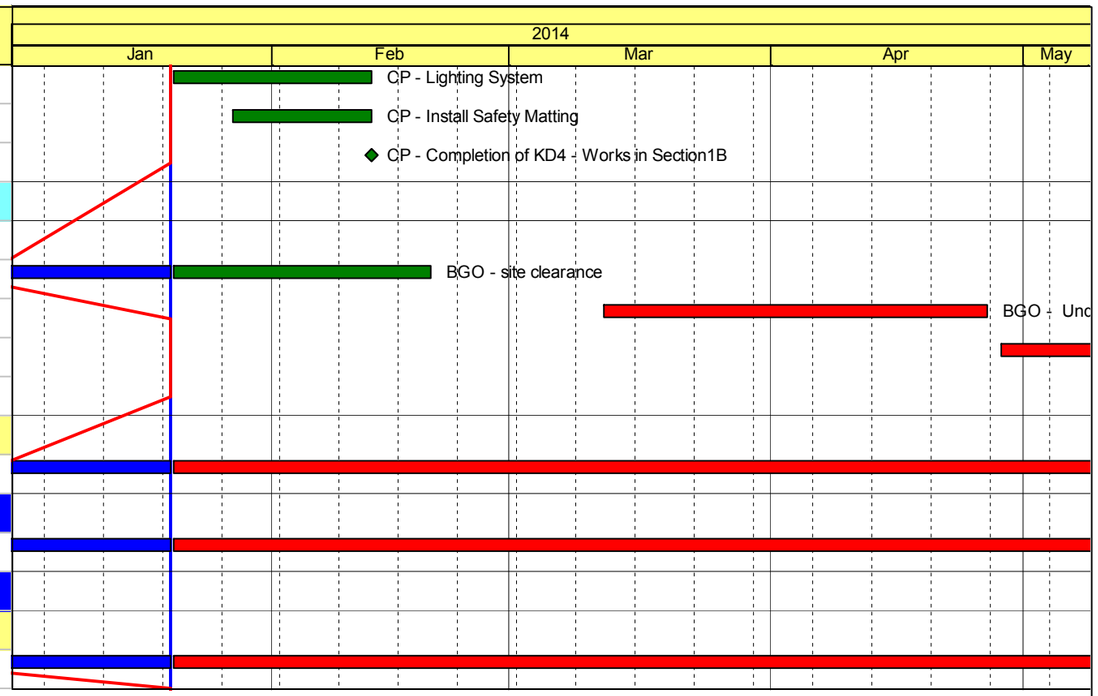
Activity ID	Activity Name	Original Duration	Start	Finish
VP_1140	CP - Lighting System	18	20-Jan-14	12-Feb-14
VP_1230	CP - Install Safety Matting	12	27-Jan-14	12-Feb-14
VP_1160	CP - Completion of KD4 - Works in Section1B	0		12-Feb-14
Bowling Green Office				
BGO - Construction Works				
VP_1100.02	BGO - site clearance	24	02-Dec-13 A	19-Feb-14
VP_1150	BGO - Underground utilities & foundation works	36	12-Mar-14	26-Apr-14
VP_1180.01	BGO - Base Slab	24	28-Apr-14	27-May-14
VP_1180.02	BGO - Walls	36	14-May-14	25-Jun-14
Tree Transplanting at Portion XIV (Victoria Park Open Space)				
VP_1040	Tree Transplanting & Upkeep at Portion XIV	347	16-Oct-13 A	13-Jan-15
Mooring Components Upkeep (CBTS and ATS)				
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Feb-17
Works for Public Works Regional Laboratory (North Lantau)				
Maintenance and Upkeep of New PWRL (Portion XVII)				
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	16-Dec-17



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