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

- DECEMBER 2013 -

CLIENTS:

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and

Highways Department

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

14 January 2014

ENVIRON

Ref.: AACWBIECEM00_0_4800L.14

14 January 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 (December 2013) 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 December 2013 received by email on 14 January 2014.

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

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

Yours sincerely,

David Yeung
Independent Environmental Checker

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

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report –December 2013 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass 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. This report presents the environmental monitoring findings and information recorded during the period November 2013 to December 2013. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

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

Marine Works (at Wan Chai)

- Further rock filling from HATS at East side of Area 8 in order to extend the work area.
- Concreting of roof slab of bay 9.
- The construction of D-Wall at C1/C2 interface. The guide wall and ground treatment for construction from CH325 to CH360.
- Reinstatement works at Tsim Sha Tsi Site B.
- Footpath diversion for construction of discharge pipes ata Expo Drive East.

Waterworks

- Reinstatement works at HKCEC northwest.
- Cooling main laying works along Expo Drive East to Fleming Road in C1-3 and Zone X2-1.
- Salt watermain laying works near Grand Hyatt Hotel. Zone A5-2, A1-5C and A1-5B. Zone A1-5A3 near the Urban Car Park. Salt watermain laying works at Harbour Road and Zone A5-3, A5-4 toward the eastbound. Night works for salt watermain laying near Renaissance Harbour View hotel.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link.
- Installation of pre-bored H-pile in CWB Stage 3 Atrium Link.
- Construction of the Common D-wall in Stage 2.
- Backfilling of Temporary Water Chanel & Reclaim Land at CH220 – CH260
- Installation of sheet pile for demolition of P5 house and the works for tie-back.
- Installation of ELS at first layer for 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.
- Rectification works of the special movement joint for P8 discharge main at

CHBH152m. Trench excavation and the rectified special movement joint was delivered to the Site.

- Additional flushing & CCTV for P9 intake mains was done.
- The watertightness test of Salt Water Intake Culvert.
- The watertightness test of Inlet Chamber of WSD Salt Water Pumping Station.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
- Watertightness test of Box Culvert N1 was eventually.
- Concreting for the Temporary Covered Walkway footing (GL5) in the vicinity of Ferry Pier.
- Area 9A was being vacated for handing over it to HY/2009/15 contractor. The new site office would be relocated to Gate No.3 underneath the existing Hung Hing Road Flyover.

WCR4/TWCR4 Reclamation:

- No progress in the reporting period as the diversion of temp 1800 dia, drain to the completed Box Culvert N1.

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

- Construction of EVA

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

- Sheet piling works

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

- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- 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 truss TA1

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
- Dredging
- Filling for seawall rock mound formation
- Filling for reclamation at sea area of former Expo Drive West Bridge

- Works for abandoning submarine sewerage outfall

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

- Dredging works

Noise Monitoring

ix. 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.

x. No action and 2 limit level exceedances at M6 – HK Baptist Church Henrietta Secondary School were recorded on 10 and 18 December 2013 in this reporting month. The exceedances were concluded as non-project related.

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 restricted hours on 30 November 2013. 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 electricity interruption, the 24hr TSP monitoring at CMA2a was rescheduled from 23 December 2013 to 24 December 2013.

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

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

xviii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; CMA2a – Causeway Bay Community Center; CMA3a – CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5a –

Children Garden opposite to Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western wing on every six days basis.

Water Quality Monitoring

xix. 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

xx. 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.

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

xxii. 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.

xxiii. 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.

xxiv. 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.

xxv. 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.

xxvi. 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;

xxvii. 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.

xxviii. 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.

xxix. 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.

xxx. 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.

xxxi. 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.

xxxii. 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
HK/2009/01	C1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	WSD19	0	0	1	3	1	3	0	0	0	1	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
	P3	0	0	0	0	0	0	0	0	0	0	0	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	2	2	0	0	0	0	0	2
	WSD9	0	0	1	0	0	1	0	0	0	0	0	1
	WSD17	0	0	0	0	0	1	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	2	3	3	6	0	0	0	1	0	3

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

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

xxxiv. 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	1	0	5
	Ex-WPCWA SE	1	0	0	5
Total		1	1	0	10

xxxv. There were 1 action level exceedances and 10 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***.

xxxvi. 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.

xxxvii. 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

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

Site Inspections and Audit

xxxix. 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

xl. 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

Marine Works

- Import rock fill from HATS to extend the coastline at East of Area 8.
- The roof slab of bay 8 would be cast. Backfilling works at box culvert bay 8 and bay9 would be carried out for further road diversion works.
- Construction of RC structure proposed box culvert wall and roof slab at bay 8 and bay 9.
- D-wall construction at Stage 3.
- Outfall construction for discharge pipes at Expo Drive East.

Waterworks (Cooling Watermains, Salt Watermains and Sewer)

- Salt watermain laying works for the works area in Zone A1-5B, A1-5C and A1-5A2 near Grand Hyatt hotel.
- Salt watermain laying works at Harbour Road would go further north to Zone A5-3, A5-4 and A5-6.
- Cooling main laying works along Expo Drive East and night works.
- Pedestrian relocation at the temporary steel bridge near junction of Expo Drive East and Convention Ave for cooling main laying works

Tunnel Works

- Stage 3 tunnel works include the installation of pre-bored H-pile and Stage 3 Southern D-wall construction.
- Demolition of the HKCEC Pump home.
- ELS for Stage 1 CWB.
- Backfilling Temporary Water Channel & Reclaim Land at CH220- CH260.

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

- Special movement joint rectification works for P8 discharge mains at CHBH152m.
- Hatch box replacement for P7 intake mains and cable relocation works for subsequent construction of 8x8 pit.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.
- The connection with the existing DN600 salt watermains at Hung Hing Road.

- The water tightness test for Salt Water Intake Culvert.
- Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Wet test of the WSD Salt Water Pumping Station and connection with existing saltwater system at Hung Hing Road.
- Outstanding works at WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and the associated testing for handing over to DSD
- Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1.
- ABWF works in Ferry Pier.
- Rectifying the defects in movable ramps.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Utility installation works and EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier.
- Construction of Temporary Covered Walkway footing at GL5 in the vicinity of Ferry Pier.
- Design verification works of the Eastern Bulkhead by the CSD Designer for substantial handing over to Section IXA of the Works.
- Seawall blocks installation and filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4.

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

- Sheet piling works

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

- Removal of strut at ELS will commence
- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- 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 truss TA1

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

- Dredging
- 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
- Caisson seawall units installation
- Works for abandoning submarine sewerage outfall

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

- Dredging works

1 Introduction

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-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 November 2013 to December 2013. 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	Fan Chun Wai	6487 4488	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. David Lau	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	
		Environmental Supervisor	Jacky Cheung	9779 2292	

Party	Role	Post	Name	Contact No.	Contact Fax
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 Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

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

Marine Works (at Wan Chai)

- Further rock filling from HATS at East side of Area 8 in order to extend the work area.
- Concreting of roof slab of bay 9.
- The construction of D-Wall at C1/C2 interface. The guide wall and ground treatment for construction from CH325 to CH360.
- Reinstatement works at Tsim Sha Tsi Site B.
- Footpath diversion for construction of discharge pipes ata Expo Drive East.

Waterworks

- Reinstatement works at HKCEC northwest.
- Cooling main laying works along Expo Drive East to Fleming Road in C1-3 and Zone X2-1.
- Salt watermain laying works near Grand Hyatt Hotel. Zone A5-2, A1-5C and A1-5B. Zone A1-5A3 near the Urban Car Park. Salt watermain laying works at Harbour Road and Zone A5-3, A5-4 toward the eastbound. Night works for salt watermain laying near Renaissance Harbour View hotel.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link.
- Installation of pre-bored H-pile in CWB Stage 3 Atrium Link.
- Construction of the Common D-wall in Stage 2.
- Backfilling of Temporary Water Chanel & Reclaim Land at CH220 – CH260
- Installation of sheet pile for demolition of P5 house and the works for tie-back.
- Installation of ELS at first layer for Stage 1..

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

- Modification of existing covered walkway along Expo Drive East.
- Modification of road junction between Expo Drive and Expo Drive East.
- Rectification works of the special movement joint for P8 discharge main at CHBH152m. Trench excavation and the rectified special movement joint was delivered to the Site.
- Additional flushing & CCTV for P9 intake mains was done.
- The watertightness test of Salt Water Intake Culvert.
- The watertightness test of Inlet Chamber of WSD Salt Water Pumping Station.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
- Watertightness test of Box Culvert N1 was eventually.

- Concreting for the Temporary Covered Walkway footing (GL5) in the vicinity of Ferry Pier.
- Area 9A was being vacated for handing over it to HY/2009/15 contractor. The new site office would be relocated to Gate No.3 underneath the existing Hung Hing Road Flyover.

WCR4/TWCR4 Reclamation:

- No progress in the reporting period as the diversion of temp 1800 dia, drain to the completed Box Culvert N1.

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, the principal work activities in this reporting month included:

- Sheet piling works

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

- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- 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 truss TA1

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
- Dredging
- Filling for seawall rock mound formation
- Filling for reclamation at sea area of former Expo Drive West Bridge
- Works for abandoning submarine sewerage outfall

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

- Dredging works

2.4.10. 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

Marine Works

- Import rock fill from HATS to extend the coastline at East of Area 8.
- The roof slab of bay 8 would be cast. Backfilling works at box culvert bay 8 and bay9 would be carried out for further road diversion works.
- Construction of RC structure proposed box culvert wall and roof slab at bay 8 and bay 9.
- D-wall construction at Stage 3.
- Outfall construction for discharge pipes at Expo Drive East.

Waterworks (Cooling Watermains, Salt Watermains and Sewer)

- Salt watermain laying works for the works area in Zone A1-5B, A1-5C and A1-5A2 near Grand Hyatt hotel.
- Salt watermain laying works at Harbour Road would go further north to Zone A5-3, A5-4 and A5-6.
- Cooling main laying works along Expo Drive East and night works.
- Pedestrian relocation at the temporary steel bridge near junction of Expo Drive East and Convention Ave for cooling main laying works

Tunnel Works

- Stage 3 tunnel works include the installation of pre-bored H-pile and Stage 3 Southern D-wall construction.
- Demolition of the HKCEC Pump home.
- ELS for Stage 1 CWB.
- Backfilling Temporary Water Channel & Reclaim Land at CH220- CH260.

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

- Special movement joint rectification works for P8 discharge mains at CHBH152m.
- Hatch box replacement for P7 intake mains and cable relocation works for subsequent construction of 8x8 pit.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.
- The connection with the existing DN600 salt watermains at Hung Hing Road.
- The water tightness test for Salt Water Intake Culvert.

- Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Wet test of the WSD Salt Water Pumping Station and connection with existing saltwater system at Hung Hing Road.
- Outstanding works at WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and the associated testing for handing over to DSD
- Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1.
- ABWF works in Ferry Pier.
- Rectifying the defects in movable ramps.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Utility installation works and EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier.
- Construction of Temporary Covered Walkway footing at GL5 in the vicinity of Ferry Pier.
- Design verification works of the Eastern Bulkhead by the CSD Designer for substantial handing over to Section IXA of the Works.
- Seawall blocks installation and filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4.

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

- Sheet piling works

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

- Removal of strut at ELS will commence
- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- 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 truss TA1

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

- Dredging
- 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
- Caisson seawall units installation
- Works for abandoning submarine sewerage outfall

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

- Dredging works

3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/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-RS0797-13	16 Jul 2013	18 Jul 2013 to 15 Jan 2014	Cancelled
	GW-RS0773-13	16 Jul 2013	20 July 2013 to 19 Jan 2014	Cancelled
	GW-RS0807-13	24 Jul 2013	25 Jul 2013 to 21 Jan 2014	Cancelled
	GW-RS0626-13	13 Jun 2013	15 Jun 2013 to 12 Dec 2013	Cancelled
	GW-RS0631-13	14 Jun 2013	14 Jun 2013 to 13 Dec 2013	Cancelled
	GW-RS0651-13	21 Jun 2013	22 Jun 2013 to 20 Dec 2013	Cancelled
	GW-RS0856-13	7 Aug 2013	10 Aug 2013 to 1 Feb 2014	Valid
	GW-RS0883-13	12 Aug 2013	14 Aug 2013 to 13 Feb 2014	Valid
	GW-RS0937-13	23 Aug 2013	25 Aug 2013 to 22 Feb 2014	Valid
	GW-RS1063-13	24 Sep 2013	26 Sep 2013 to 23 Mar 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RE1034-13	27 Sep 2013	30 Sep 2013 to 29 Mar 2014	Valid
	GW-RS0626-13	13 Jun 2013	15 Jun 2013 to 12 Dec 2013	Cancelled
	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
	GW-RS1091-13	7 Oct 2013	08 Oct 2013 to 07 Apr 2014	Valid
	GW-RS1211-13	4 Nov 2013	09 Nov 2013 to 08 May 2014	Valid
	GW-RS1246-13	8 Nov 2013	10 Nov 2013 to 07 May 2014	Valid
	GW-RS1265-13	14 Nov 2013	16 Nov 2013 to 12 May 2014	Valid
	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
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid

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

Table 3.5 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

EP Condition	Submission	Date of Submission
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
Condition 2.9	Noise Management Plan	10 Jun 2011
Condition 2.11	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-RE0508-13	21 May /2013	30 May 2013 to 29 Nov 2013	Expired
	GW-RS0525-13	21 May /2013	30 May 2013 to 29 Nov 2013	Expired
	GW-RS0538-13	21 May /2013	30 May 2013 to 29 Nov 2013	Expired
	GW-RS0539-13	23 May 2013	6 June 2013 to 5 Dec 2013	Cancelled
	GW-RS0554-13	23 May 2013	6 June 2013 to 5 Dec 2013	Expired
	GW-RS0633-13	14 June 2013	16 June 2013 to 13 Dec 2013	Cancelled
	GW-RS0739-13	09 July 2013	17 July 2013 to 16 Jan 2014	Valid
	GW-RS0708-13	03 July 2013	03 July 2013 to 01 Jan 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0846-13	30 July 2013	01 Aug 2013 to 25 Jan 2014	Cancelled
	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
	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
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

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

EP Condition	Submission	Date of Submission
	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 breakwater removal works at Eastern Breakwater of CBTS	GW-RS0798-13	18 Jul 2013	19 Jul 2013 to 18 Jan 2014	Cancelled
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	Valid
Construction Noise Permit (CNP) for Pre-treatment, ELS and rock breaking works at TS4/ME4	GW-RS0705-13	28 Jun 2013	02 Jul 2013 to 31 Dec 2013	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	25 Sep 2013	17 Oct 2013 to 16 Jan 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-034	16 Jul 2013	24 Jul 2013 to 23 Jan 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal and Type 2 – Confined Marine Disposal)	EP/MD/14-093	19 Nov 2013	24 Nov 2013 to 23 Dec 2013	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 3 – Special Treatment / Disposal contained in Geosynethetic Containers)	EP/MD/14-080	12 Nov 2013	13 Nov 2013 to 12 Dec 2013	Expired

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
	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 2.23	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-RS0017-13	19 June 2013	6 Jul 2013 to 5 Jan 2014	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
Condition 2.23	Noise Management Plan	11 March 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

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Construction Noise Permit (CNP) (For D-wall construction) (Portion I, VII, VIII & IX)	GW-RS0503-13	21-May-12	20-Nov-13	Cancelled
	GW-RS1125-13	13-Oct-13	10-Apr-13	Cancelled
	GW-RS1473-13	29-Dec-13	23-Jun-14	Valid
Construction Noise Permit (CNP) (For Bored pile construction at Portion III)	GW-RS0767-13	11-Jul-13	10-Jan-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
Construction Noise Permit (CNP) (For Watson Road)	GW-RS0528-12	26-May-13	25-Nov-13	Expired
Construction Noise Permit (CNP) (For IEC)	GW-RS0706-13	11-Jul-13	10-Jan-14	Valid
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS1099-13	21-Oct-13	20-Apr-14	Valid
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0724-13	08-Jul-13	07-Jan-14	Cancelled
	GW-RS1179-13	25-Oct-13	22-Apr-14	Valid
Discharge Licence (Land)	WT00010093-2011	17 Aug 2012	30-Sept-16	Cancelled
	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/14-019	10 Jun 2013	09 Dec 2013	Expired
	EP/MD/14-104	10 Dec 2013	09 Jun 2013	Valid

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-097	25 Nov 2013	24 Dec 2013	Expired

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
Construction Noise Permit	GW-RS0703-13	3 Jul 2013	4 Jul 2013 to 2 Jan 2014	Valid
	GW-RS0824-13	29 Jul 2013	30 Jul 2013 to 28 Jan 2014	Valid
	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/14-008	23 May 2013	24 Nov 2013	Superseded by EP/MD/14-082
	EP/MD/14-082	29 Oct 2013	31 Dec 2013	Valid
Dumping Permit (Type 1 – Open	EP/MD/14-094	19 Nov 2013	24 Dec 2013	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/14-110	16 Dec 2013	24 Jan 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 to EPD on 25 Nov 2013
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Deposited to EPD on 19 Aug 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	WT0001651-2013	9 Jul 2013	31 Jul 2018	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	() in EP/MD/14-095	29 Nov 2013	1 Jun 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	() in EP/MD/14-096	29 Nov 2013	1 Jan 2014	Valid

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. Two limit level exceedances were recorded on 10 and 18 December 2013 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month.

5.1.8. Major traffic noise observed during monitoring on 10 and 18 December 2013 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 restricted hours on 11 November 2013. After checking with contractor, no construction activity was conducted at the concerned location by the Contractor during the recorded period. As such, the exceedances were considered as non-project related and contributed by nearby IEC traffic.

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

5.3.1. Due to electricity interruption, the 24hr TSP monitoring at CMA2a was rescheduled from 23 December 2013 to 24 December 2013.

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

5.3.2. 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
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

5.3.3. 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)

5.3.4. 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

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

5.4.2. 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

5.4.3. 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.

5.4.4. 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.

5.4.5. 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;

5.4.6. 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.

5.4.7. 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.

5.4.8. 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.

5.4.9. 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.

5.4.10. 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.

5.4.11. 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.

5.4.12. 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.

5.4.13. 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.

5.4.14. 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

5.4.15. 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

5.4.16. 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

5.4.17. 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			

Station Ref.	Location	Easting	Northing
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)

5.4.18. 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.

5.4.19. 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.

5.4.20. 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

5.4.21. 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.

5.4.22. 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.

5.4.23. 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.

5.4.24. 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.

5.4.25. 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.

5.4.26. 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.

5.4.27. 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	1	3	1	3	0	0	0	1	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
	P3	0	0	0	0	0	0	0	0	0	0	0	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	2	2	0	0	0	0	0	2
	WSD9	0	0	1	0	0	1	0	0	0	0	0	1
	WSD17	0	0	0	0	0	1	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	2	2	3	6	0	0	0	1	0	3

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

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

5.4.29. 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	1	0	5
	Ex-WPCWA SE	1	0	0	5
Total		1	1	0	10

5.4.30. There were 1 action level exceedances and 11 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***.

5.4.31. 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***.

5.4.32. 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	123.66	37540.655	TKO137, TM38
Inert C&D materials recycled, m^3	5000	10104.5	N/A
Non-inert C&D materials disposed,	37.51	1538.35	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	10050	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	364.69	242164.715	TKO137 / TM 38
Inert C&D materials recycled, m^3	NIL	18161	N/A
Non-inert C&D materials disposed, m^3	41.20	1250.60	SENT Landfill
Non-inert C&D materials recycled, m^3	N/A	N/A	N/A
Chemical waste disposed, kg	700	10936	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

Remarks: Cumelative Quantity – to – Date of Non-inert C&D materials disposed and Chemical waste disposed was updated

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	3730 (Bulk Volume)	226495 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	590	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 of and non-inert C&D waste were disposed 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	28256.18	299650.95	TM38
Inert C&D materials recycled, m^3	0	51347.97	N/A
Non-inert C&D materials disposed, m^3	42.47	560.07	N/A
Non-inert C&D materials recycled, kg	0	303.6	N/A
Chemical waste disposed, L	0.38	1.15	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	162	South Cheung Chau
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	

Remarks: Cumelative Quantity – to – Date of Inert C&D materials disposed and Non-inert C&D materials disposed was updated

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	2140	25248	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	10834	106169	South of The Brothers (from 27 Aug 2013 onwards)

5.5.12. There was marine sediment Type 1 – Open Sea Disposa and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were 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)	8420	8420	South Cheung Chau
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	11120	11120	Brothers Island

5.5.14. There was marine sediment Type 1 – Open Sea Disposa and 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 Two limit level exceedances were recorded on 10 and 18 December 2013 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Investigations found that on 10 and 18 December 2013, 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 restricted hours on 30 November 2013. 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.

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 was turbidity and SS exceedance recorded at WSD19 on 30 November 2013, 4, 7, 9, 16 and 18 December 2013 during flood tide and ebb tide, confirmed with Contractor, silt screen was in proper condition. Dredging and filling for sewall rock mould formation works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedances 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 SS exceedances at WSD21 on 30 November 2013, 7, 13, 18 and 24 December 2013 during flood and 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.

6.4.3 There were SS exceedances at WSD17 recorded on 17 December 2013 during flood tide in this reporting month. Confirmed with Contractor,in view that no marine work was conducted on those day, the exceedances was considered not project related.

6.4.4 There were occasionally turbidity and SS exceedances at WSD9 recorded on 9 and 21 December 2013 during flood and ebb tide in this reporting month. Confirmed with Contractor, in view of no marine works was conducted on that day and since WSD9 was located at the downstream of the Project, the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.

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

6.4.5 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.

6.4.6 There were turbidity and SS exceedances at C7 recorded ion 4 December 2013. Installation of rebar for EVA at Eastern Breakwaterand dredging of type 2 marine sediment was conducted by contractor HY/2009/15 on that day. Mitigation measure including frame type silt curtain was confirmed in place. In view of no further exceedance was recorded in the next consecutive monitoring despite on-going marine works within same sampling date. The exceedance was considered as non-project related.

6.4.7 There were turbidity and SS exceedances at C7 recorded ion 16 December 2013. Underwater silt screen inspection was observed during water quality monitoring. According to on-site observation during sampling, it was considered that the dragging action of unwinding silt curtain installed around the silt screen could have impaired the water quality and lead to the abnormal turbidity and SS level. Contractor was advised to review the underwater silt screen inspection process as a propose to reduce the impact on water quality in the vicinity of water quality monitoring station. In view of no further exceedance was recorded in the next consecutive monitoring despite on-going marine works within same sampling date. The exceedance was considered as works-related

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

6.4.8 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

6.4.9 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

6.4.10 There was turbidity and SS exceedance recorded at WSD19 on 30 November 2013, 4, 7, 9, 16 and 18 December 2013 during flood tide and ebb tide, confirmed with Contractor, silt screen was in proper condition. Dredging and filling for sewall rock mould formation works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedances was considered not project related.

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

6.4.11 There were turbidity and SS exceedances at C7 recorded ion 16 December 2013. Underwater silt screen inspection was observed during water quality monitoring. According to on-site observation during sampling, it was considered that the dragging action of unwinding silt curtain installed around the silt screen could have impaired the water quality and lead to the abnormal turbidity and SS level. Contractor was advised to review the underwater silt screen inspection process as a propose to reduce the impact on water quality in the vicinity of water quality monitoring station. In view of no further exceedance was recorded in the next

consecutive monitoring despite on-going marine works within same sampling date. The exceedance was considered as works-related

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 (November 2013) of Central Reclamation Phase III (CRIII) for Contract HK 12/02, remaining footpath construction at Edinburgh Place were performed in the December 2013 reporting month. The water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.

7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II were marine works at HKCEC areas, cross-harbour Watermains, Fresh Watermains and Cooling Watermains Installations, tunnel works at Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ELS work and tunnel water proofing works at TS4 and cut and cover tunnel construction at TPCWAE. Bridge construction and tunnel works at Central Interchange, ELS segment launching works and IEC parapet demolition at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activities were excavation at TS2, ELS work and tunnel water proofing works at TS4, cut and cover tunnel construction 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. Four site inspections for Contract no. HK/2009/01 was carried out on 4, 11, 20, 23 December 2013 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

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

Item	Date	Observations	Action taken by Contractor	Outcome
131204_01	4-Dec-13	Public road should be kept in clean condition (Convention Avenue)	The public road was cleared	Completion as observed on 11 Dec 2013
131220_01	20-Dec-13	Mud abd silt should be prevented from leakage into public road, mud and silt should be cleaned and oil stain should be cleaned as chemical waste (Convention Avenue)	The public road was cleared	Completion as observed on 23 Dec 2013

8.0.3. Five site inspections for Contract no. HK/2009/02 was carried out on 28 November 2013, 5, 12, 18, and 23 December 2013 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
131223_01	23-Dec-13	Chemical containers should be properly stored as chemical waste. (WCR2)	Chemical container was removed	Completion as observed on 02 Jan 2014
131223_02	23-Dec-13	Drip try shoud be provided for oil drum. (WCR2)	Oil drum have been removed.	Completion as observed on 02 Jan 2014

8.0.4. Four site inspections for Contract no. HY/2009/15 was carried out on 3, 10, 17 and 24 December 2013 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
131203_01	3-Dec-13	Clear the leaked oil as chemical waste (TS2)	Chemical waste were removed	Completion as observed on 10 Dec 2013
131210_01	10-Dec-13	Provide proper collection point for collecting surface runoff to prevent overflow to nearby water	Proper collection point have been provided.	Completion as observed on 17 Dec 2013

Item	Date	Observations	Action taken by Contractor	Outcome
		(TS1)		
131210_02	10-Dec-13	Provide tapaulin sheet during excavaded material trasfer and clear the mud resting at the edge of barge.	Tarpualin sheet have been provided	Completion as observed on 17 Dec 2013
131217_01	17-Dec-13	Provide drip tray to oil containers and clear the leaked oil as chemical waste (TS2, TS4)	Drip trays were provided	Completion as observed on 24 Dec 2013
131217_02	17-Dec-13	Reinforce the embankment around critical area to prevent the runoff of concreting runoff to waterbody.	Embankment were reinforced to prevent runoff	Completion as observed on 24 Dec 2013

8.0.5. Four site inspections for Contract no. HK/2010/06 was carried out on 2, 9, 19 and 23 December 2013 in reporting month. No observation is found in the reporting month.

8.0.6. Four site inspections for Contract no. HY/2009/19 was carried out on 4, 12, 18 and 23 December 2013 in reporting month. No observation is found in the reporting month.

8.0.7. Four site inspections for Contract no. HK/2012/08 were carried out on 3, 10, 17 and 24 December 2013 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. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
131203_01	3-Dec-13	The objects around the tree roots should be removed and contractor was reminded to update the landscape plan.	Objects placed around the tree roots have been removed.	Completion as observed on 10 Dec 2013.

8.0.8. Five site inspections for Contract no. HY/2010/08 was carried out on 28 November 2013, 5, 12, 19 and 27 December 2013 in this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.6***.

Table 8.6 Summary of Environmental Inspections for Contract no. HY/2010/08

Item	Date	Observations	Action taken by Contractor	Outcome
131128_01	28-Nov-13	Provide drip tray to oil drums	Drip trays were provided	Completion as observed on 05 Dec 2013
131219_01	19-Dec-13	Clear the muddy residue at site exit (Gate 3)	Mud residue was cleared	Completion as observed on 27 Dec 2013

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
December 2013	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	Marine Works • Import rock fill from HATS to extend the coastline at East of Area 8. • The roof slab of bay 8 would be cast. Backfilling works at box culvert bay 8 and bay9 would be carried out for further road diversion works. • Construction of RC structure proposed box culvert wall and roof slab at bay 8 and bay 9. • D-wall construction at Stage 3. • Outfall construction for discharge pipes at Expo Drive East. Waterworks (Cooling Watermains, Salt Watermains and Sewer) • Salt watermain laying works for the works area in Zone A1-5B, A1-5C and A1-5A2 near Grand Hyatt hotel. • Salt watermain laying works at Harbour Road would go further north to Zone A5-3, A5-4 and	• 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
	A5-6. • Cooling main laying works along Expo Drive East and night works. • Pedestrian relocation at the temporary steel bridge near junction of Expo Drive East and Convention Ave for cooling main laying works Tunnel Works • Stage 3 tunnel works include the installation of pre-bored H-pile and Stage 3 Southern D-wall construction. • Demolition of the HKCEC Pump home. • ELS for Stage 1 CWB. • Backfilling Temporary Water Channel & Reclaim Land at CH220- CH260.	
HK/2009/02	• Special movement joint rectification works for P8 discharge mains at CHBH152m. • Hatch box replacement for P7 intake mains and cable relocation works for subsequent construction of 8x8 pit. • All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations. • The connection with the existing DN600 salt watermains at Hung Hing Road. • The water tightness test for Salt Water Intake Culvert. • Removal of temporary bulkhead	• 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

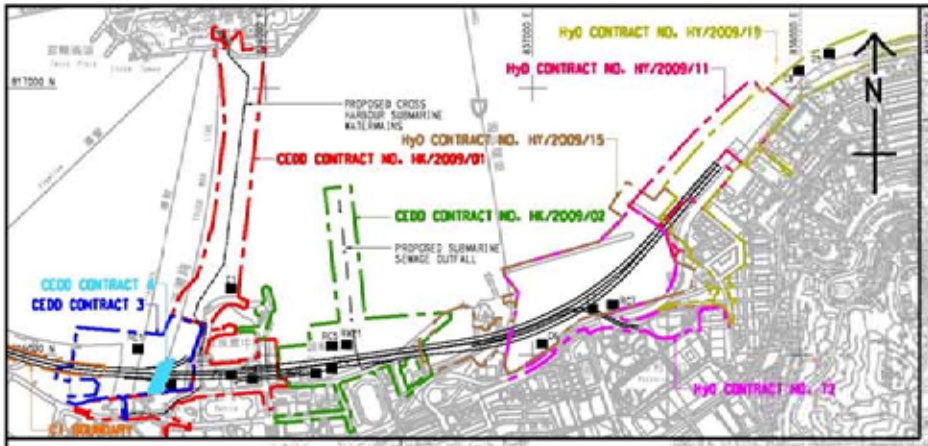
Contract No.	Key Construction Works	Recommended Mitigation Measures
	for commencement of wet test of the WSD Salt Water Pumping Station. • Wet test of the WSD Salt Water Pumping Station and connection with existing saltwater system at Hung Hing Road. • Outstanding works at WSD Salt Water Pumping Station. • Box Culvert N1 & Drain FRP-N and the associated testing for handing over to DSD • Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1. • ABWF works in Ferry Pier. • Rectifying the defects in movable ramps. • Most of the individual T&C of E&M equipment at Ferry Pier • Utility installation works and EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier. • Construction of Temporary Covered Walkway footing at GL5 in the vicinity of Ferry Pier. • Design verification works of the Eastern Bulkhead by the CSD Designer for substantial handing over to Section IXA of the Works. • Seawall blocks installation and filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4.	associated plans submitted to EPD.

Contract No.	Key Construction Works	Recommended Mitigation Measures
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	• Sheet piling works	• 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/2009/19	• Removal of strut at ELS will commence • Construction works for Box Culvert T1 • Removal of marine platform • Construction of pile cap, pier & cross head (Marine) • 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 truss TA1	• To conform the installation and setting as in the silt screen and silt curtain deployment plan
HK/2012/08	• Dredging • 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 • Caisson seawall units installation • Works for abandoning submarine sewerage outfall	• 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/2009/08	• Dredging works	• 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



DETAIL 'A'

LEGEND:

- WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

- C1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
- C2 TELECOM HOUSE/THE ACADEMY FOR PERFORMING ARTS / GOLF ON CENTRE
- C3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE II
- 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 HUKFA EXTENSION
- RC5 SUN HUNG KAI CENTRE (REPROVISION)
- RC7 WINDSOR HOUSE (TEMPORARY REPROVISION)

WSD SALT WATER INTAKE

- #S021 WAN CHAI
- #W07 WAN CHAI (REPROVISION)
- #S07 KOWLOON SOUTH
- #S09 TAI WAN
- #S21C CHA KWO LING
- #S21S SAI WAN HO
- #S21T QUARRY BAY
- #S21V SHEUNG WAN
- #S22S KENNEDY TOWN

DESIGNATED PROJECTS (DP)

- DP1 - CENTRAL-WAN CHAI BYPASS ECWB (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 - 314/2009
DP2 IS COVERED BY EP - 376/2009
DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2005

WORKS CONTRACT	DESIGNATED PROJECT (PROJECTS)	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 2012
CEDD CONTRACT 5	DP2	2013
HyD CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyD CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2010
HyD CONTRACT NO. HY/2009/19	DP1	OCTOBER 2010
HyD CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyD CONTRACT 12	DP1, DP3	MID 2013

CEDD 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

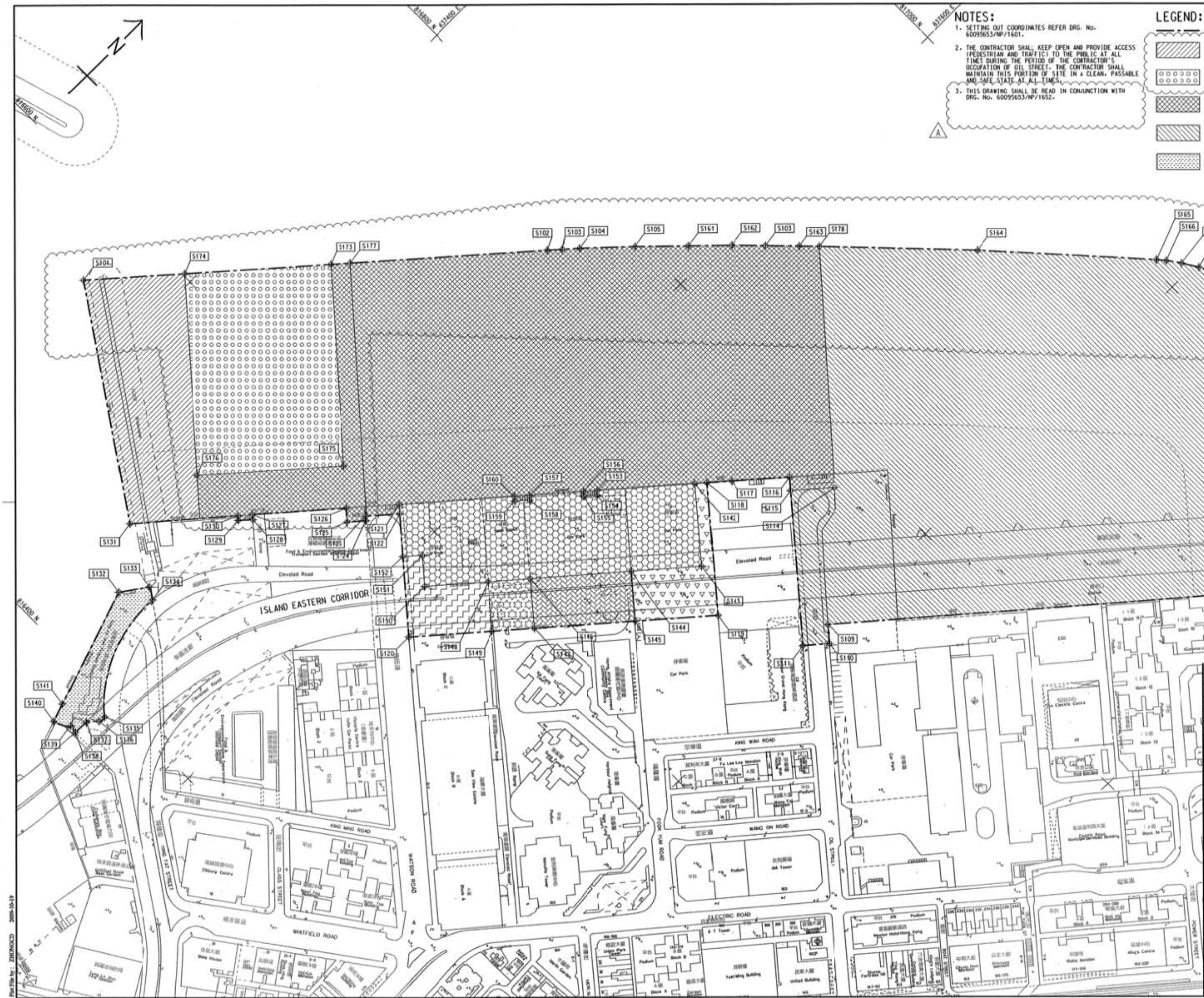
AECOM

DRG.NO. 60041297/C5/SK001

COPYRIGHT RESERVED

Plot Title by : 2009-3-17 CENAL

PATH: p:\projects\60041297\DRAWINGS\SETCH\C3\SKETCH 001.dgn



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		CHECKED	DATE
B	WORKING DRAWING	RC	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

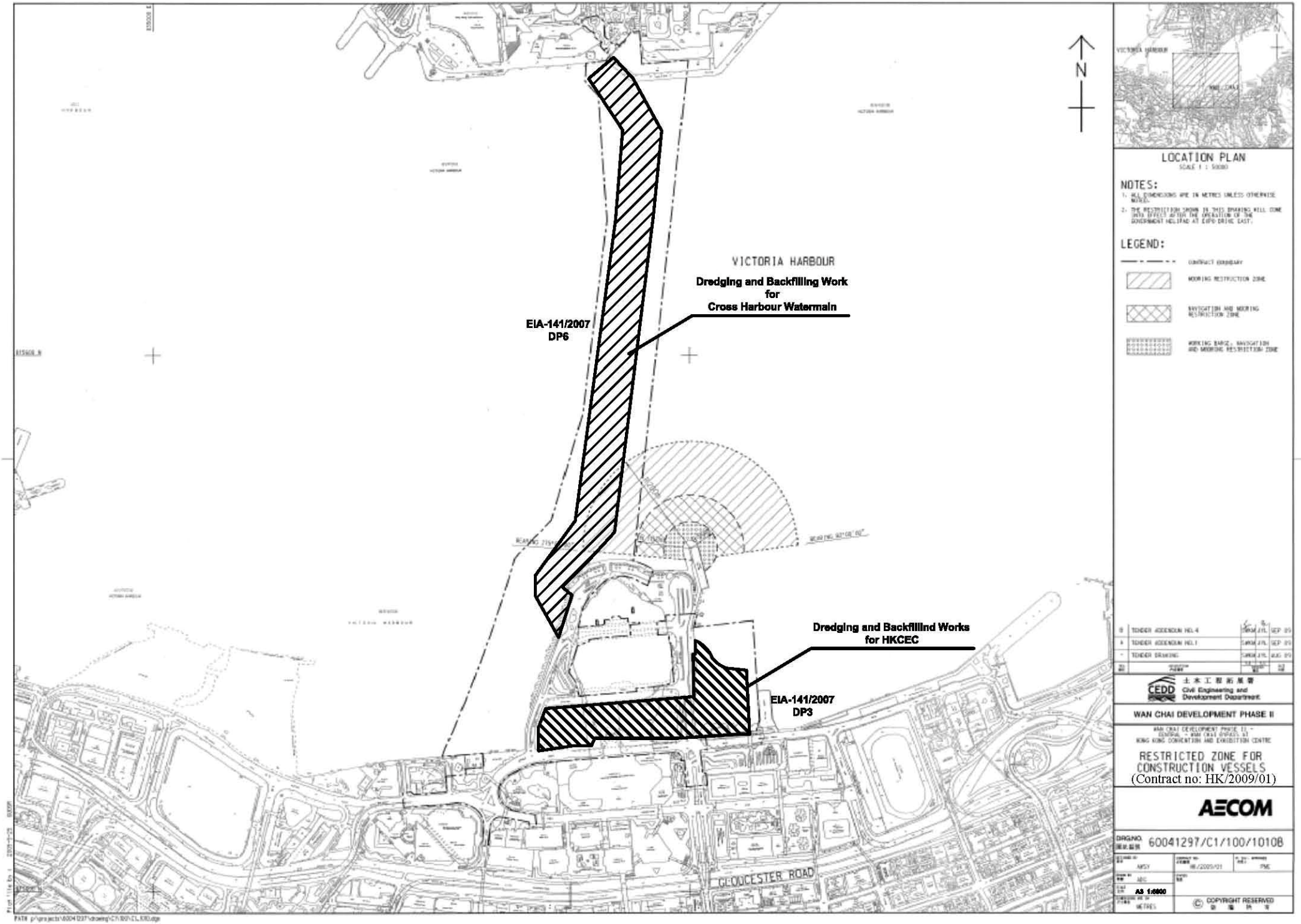
SHEET 1 OF 2

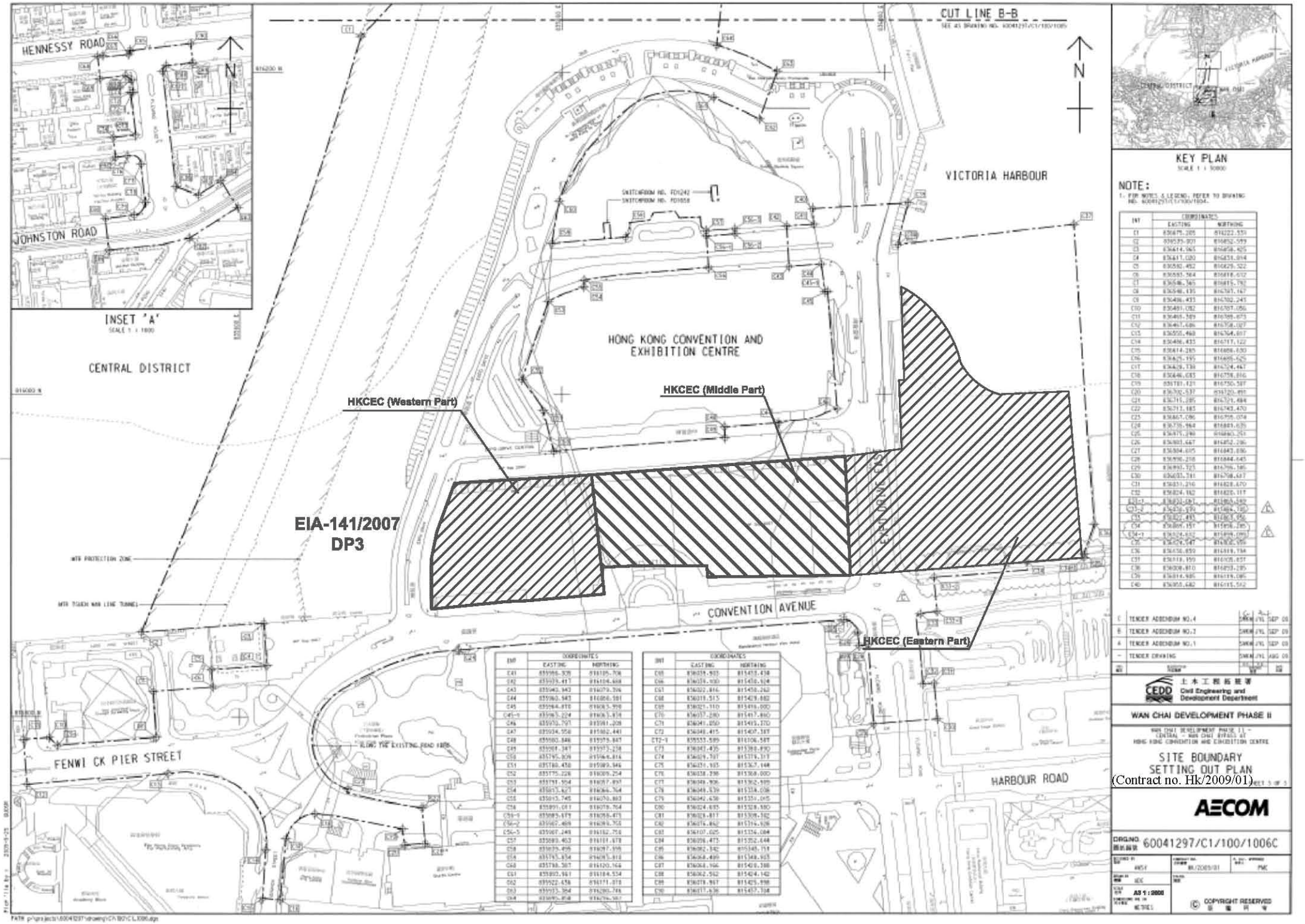
AECOM

DRG.NO. 60095653/NP/1651B

DESIGNED BY: TTF	CONTRACT NO.: HY/2009/11	P. DIV. 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 CEASE TO HAVE EFFECT AFTER THE OPERATION OF THE GOVERNMENT HELIPAD AT EASTERN DRIVE EAST.
LEGEND:
CONTRACT BOUNDARY
MOORING RESTRICTION ZONE
NAVIGATION AND MOORING RESTRICTION ZONE
WORKING BARGE, NAVIGATION AND MOORING RESTRICTION ZONE
B TENDER ADDENDUM NO.4 SEP 09
A TENDER ADDENDUM NO.1 SEP 09
- TENDER DRAWING AUG 09
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


HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
SCALE 1 : 1000
CENTRAL DISTRICT
CUT LINE B-B
SEE A3 DRAWING NO. 60041297/C1/100/1005
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
MTR PROTECTION ZONE
MTR TSUEN WAN LINE TUNNEL
CONVENTION AVENUE
FENWI CK PIER STREET
HARBOUR ROAD
KEY PLAN
SCALE 1 : 50000
NOTE:
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. 60041297/C1/100/1004.
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - CENTRAL - WAN CHAI BYPASS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
SITE BOUNDARY SETTING OUT PLAN
(Contract no. Hk/2009/01)
Civil Engineering and Development Department
AECOM
DRG.NO. 60041297/C1/100/1006C
AS 1:2000
METRES
© 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)	146 (C)	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 Sequence 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

DIRECTION OF TUNNEL WORKS

EXISTING WATER INTAKES

EXISTING SUBMARINE OUTFALL (SEWAGE)

EXISTING DISCHARGE

DRAINAGE DIVERSION OF 1800 PIPE

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

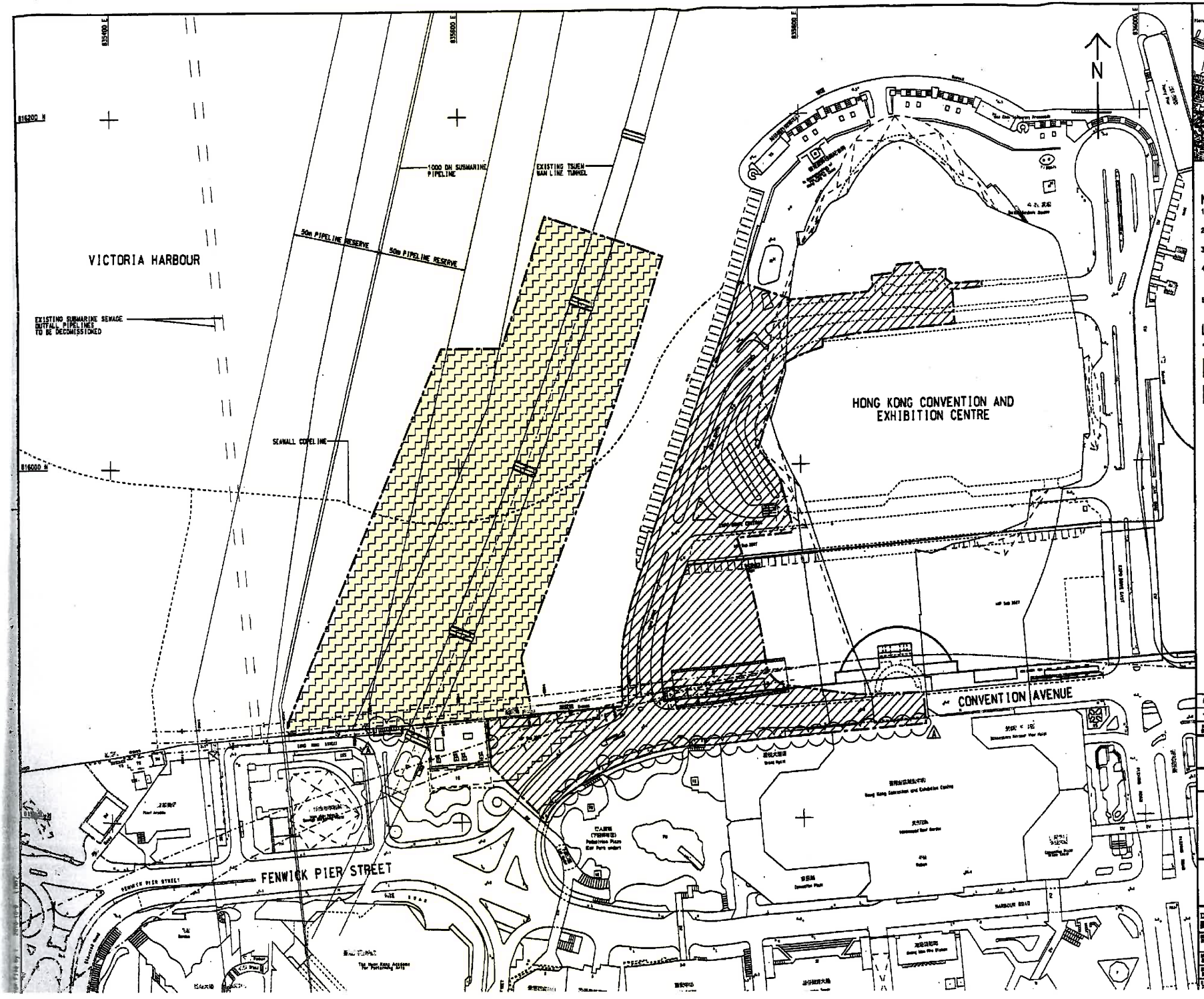
TCBR1W

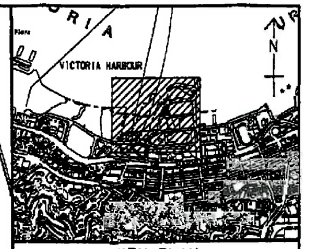
TPCWAE

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	CONTRACT NO.	HK/2010/06
CHECKED BY	ADC	SCALE	A1 1:1000
APPROVED	TKH		

Figure 2.2

Project Organization Chart

Project Organization Chart

Project Proponent

Civil Engineering & Development Department

Mr. Patrick Keung
Senior Engineer
Tel: 2231 4442
Fax: 2577 5040

Project Proponent

Highways Department

Mr. Jones Lai
Senior Engineer
Tel: 2762 4951
Fax: 2714 5289

Environmental Protection Department

Mr. Billy Ma
Environmental Protection Officer
Tel: 2835 2390
Fax: 2591 0558

Engineer's Representative for WDII

AECOM

Mr. Frankie Fan
Principal Resident Engineer
Tel: 2587 1778
Fax: 2587 1877

Engineer's Representative for CWB

AECOM

Mr. Peter Poon
Principal Resident Engineer
Tel: 3922 8332
Fax: 3529 2829

Independent Environmental Checker

ENVIRON Hong Kong Limited

Mr. David Yeung
Independent Environmental Checker
Tel: 3465 2888
Fax: 3465 2899

HK/2009/01 Contractor

Chun Wo – Leader JV

Mr. P L Yu
JV Board Representative
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HK/2009/02 Contractor

Chun Wo – CRGL JV

Mr. Chan Sing Cho
Project Manager
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HK/2010/06 Contractor

Gammon – Leader JV

Mr. Paul Lui
Project Manager
Tel: 9095 7922 Fax:2529 2880

HK/2012/08 Contractor

China State - Leader JV

Mr. Andrew Tse
Project Director
Tel: 9137 1811 Fax: 2827 9996

HY/2009/15 Contractor

China State Construction Engineering (HK) Ltd.
Mr. K C Cheung
Project Director
Tel: 2823 7813 Fax: 2865 5229

HY/2009/18 Contractor

Leighton Construction (Asia) Ltd.

Mr. Jimmy Chu
Site Agent
Tel: 2214 7700 Fax: 2140 6799

HY/2009/19Contractor

Chun Wo – CRGL JV

Mr. Rayland Lee
Project Manager
Tel: 3758 8879 Fax: 2570 8013

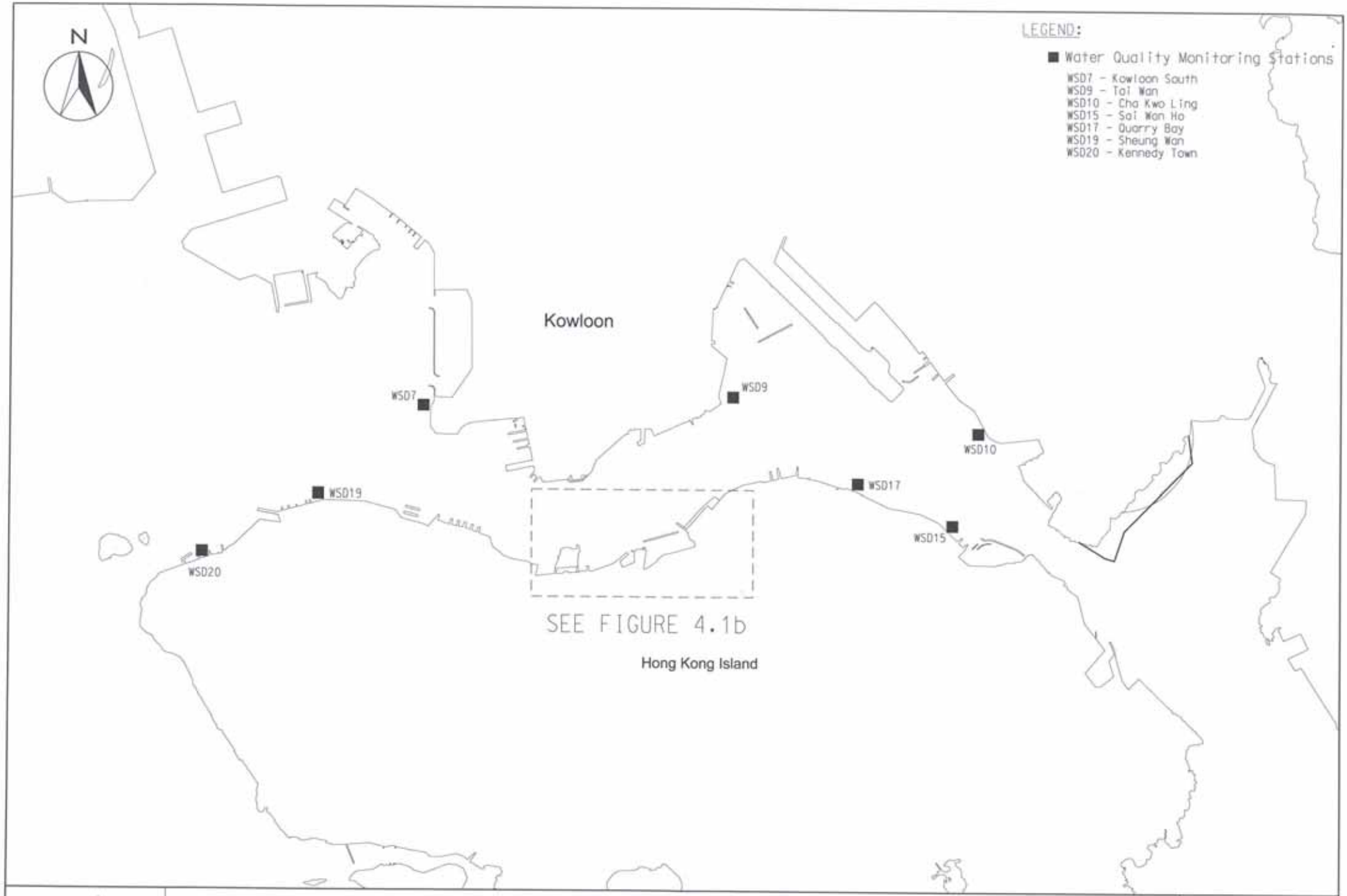
Environmental Team

Lam Geotechnics Limited

Mr. Raymond Dai
Environmental Team Leader
Tel: 2882 3939
Fax: 2882 3331

Figure 4.1

Locations of Monitoring Stations



MAUNSELL AECOM
Maunsell Consultants Asia Ltd

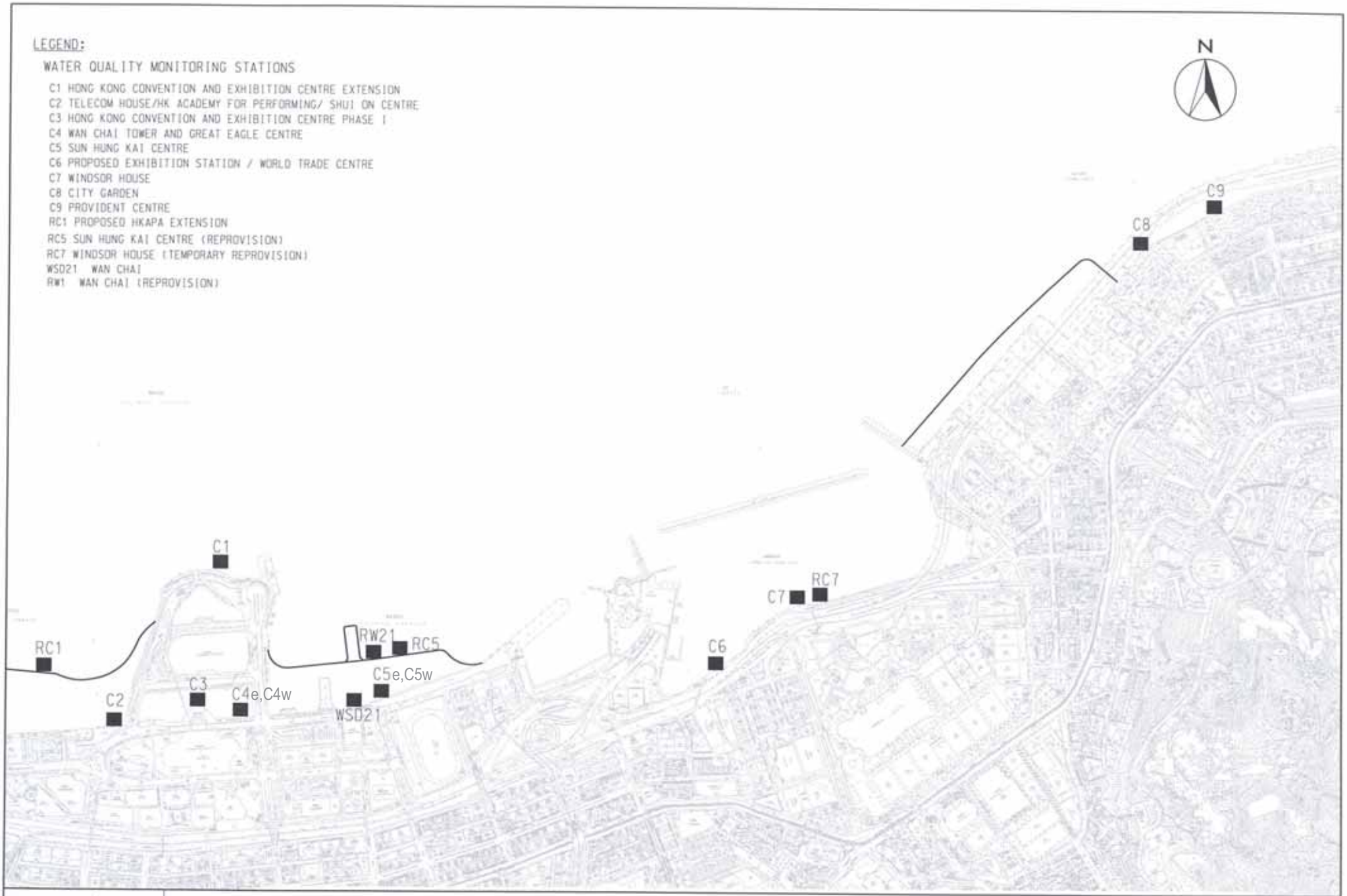
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

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

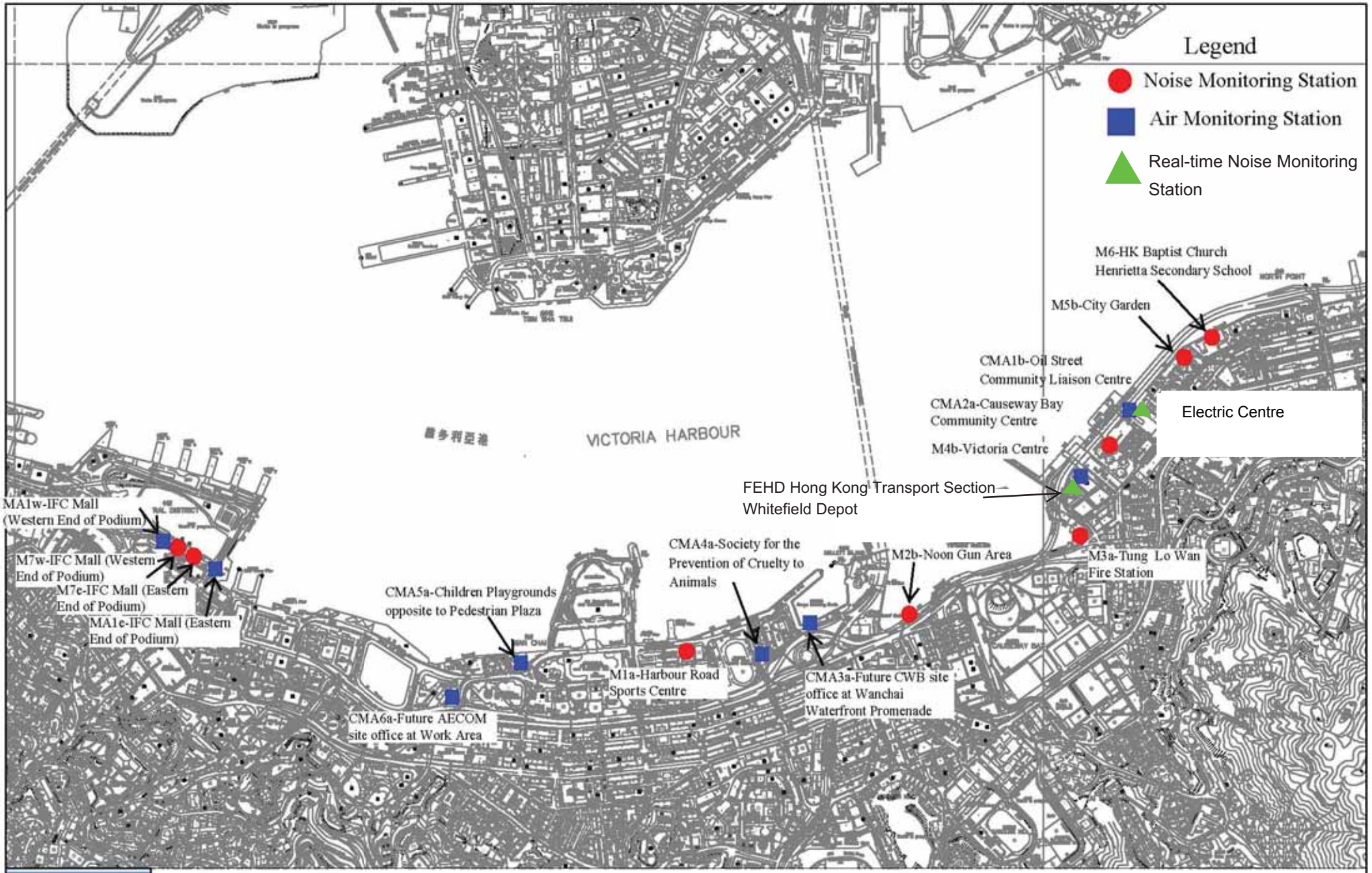
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

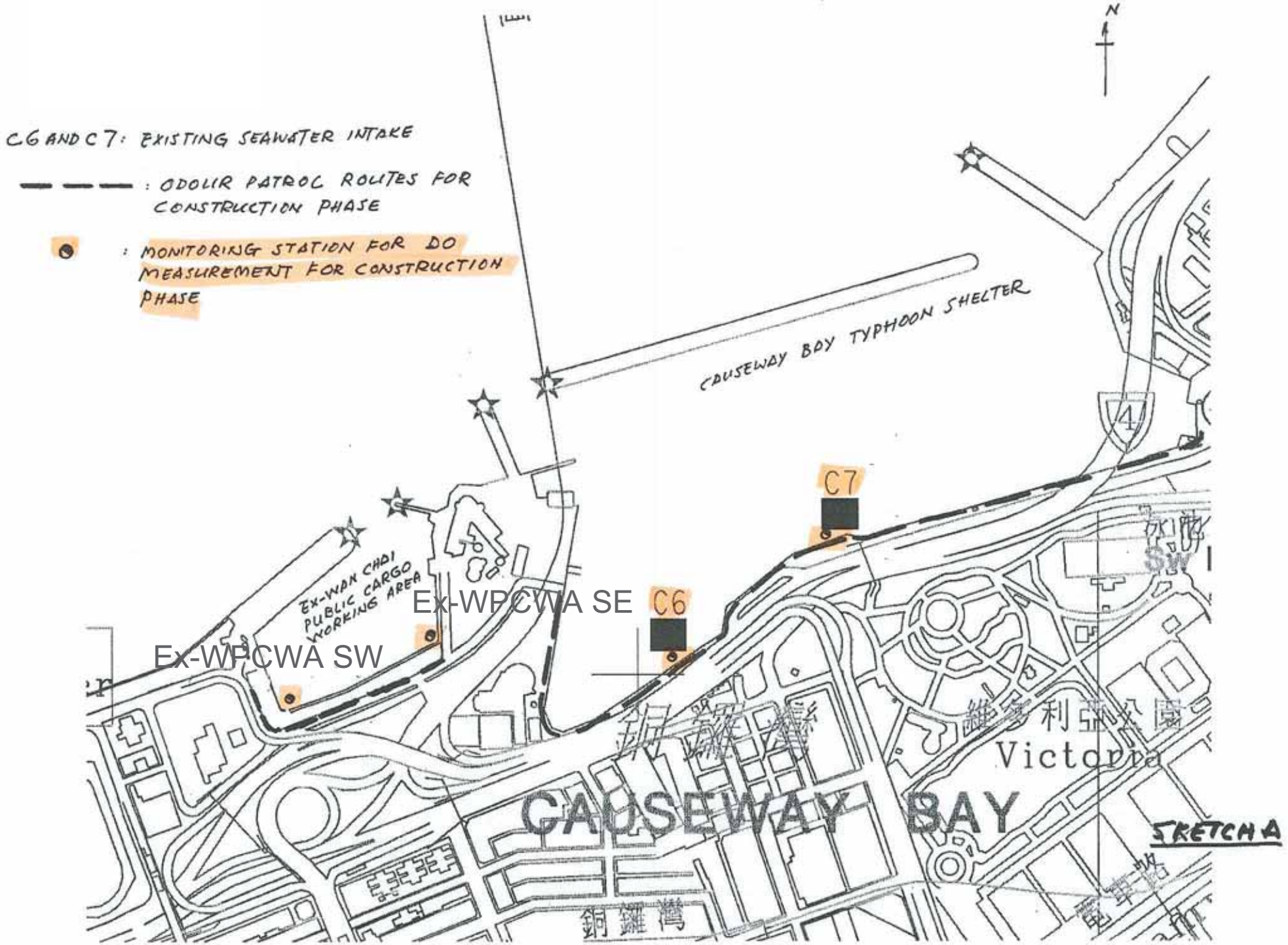
(SHEET 2 OF 2)

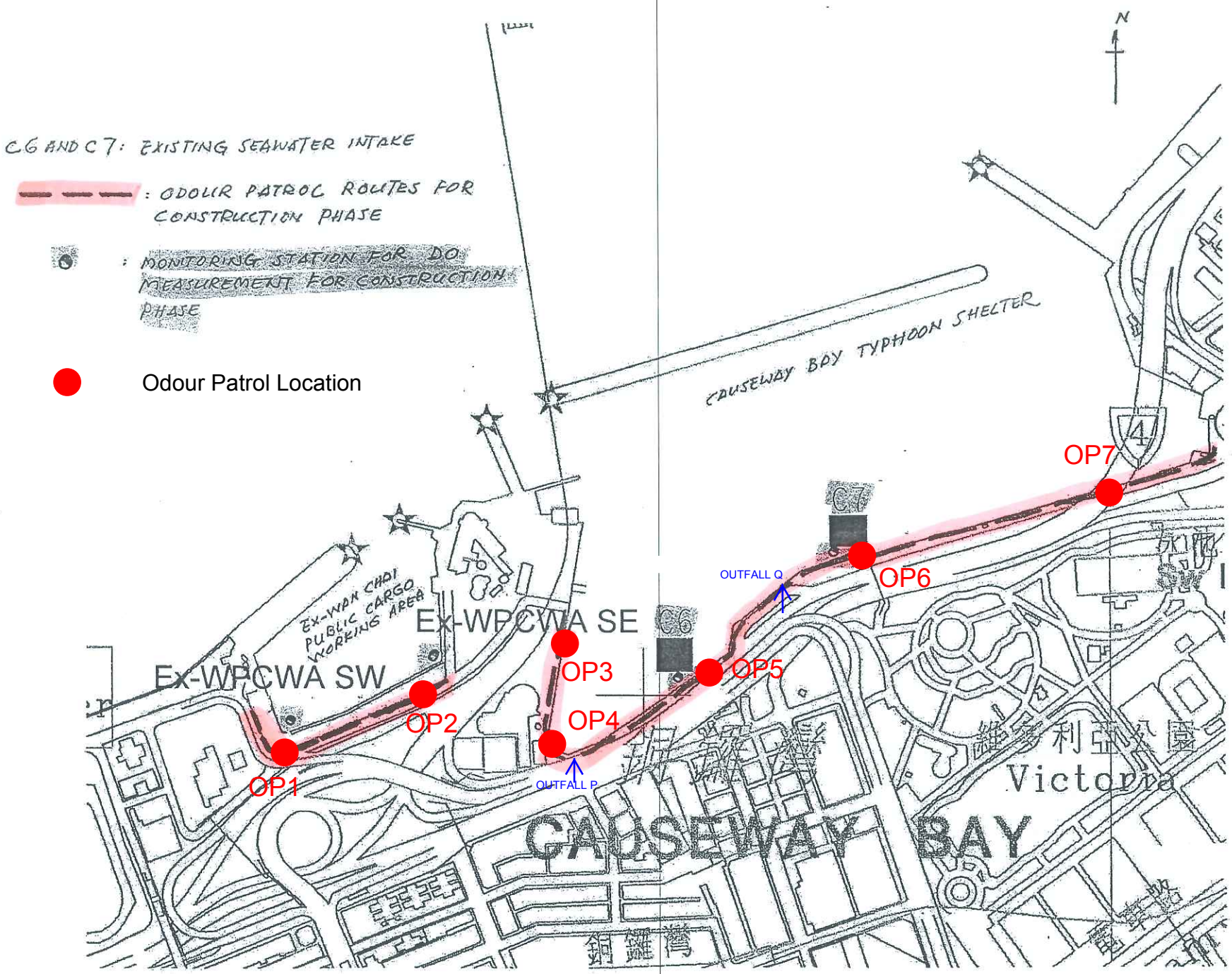
FIGURE 4.1b

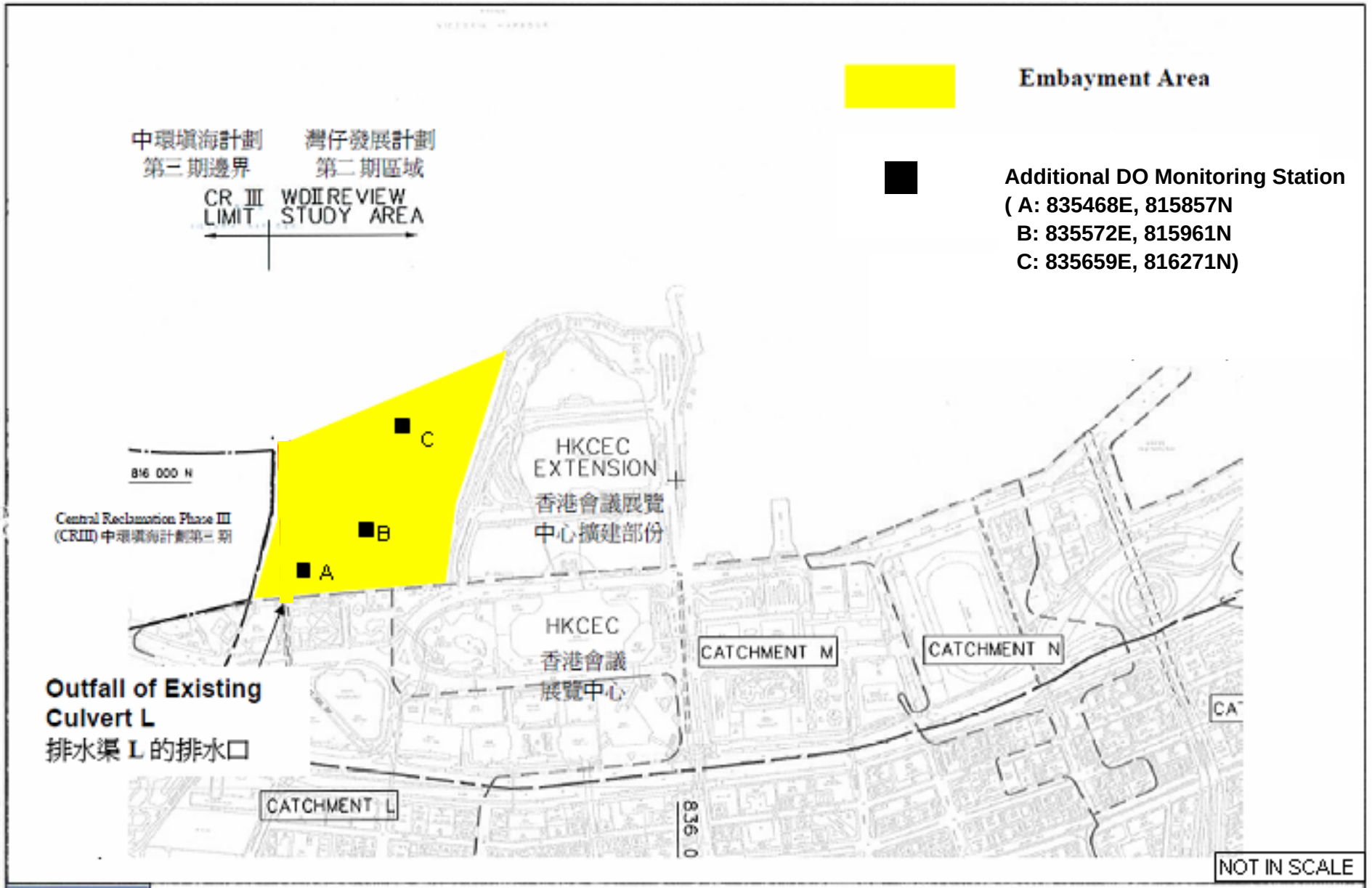
P:/60017193/REPORT/DRAWINGS/EM&A-0708/WQ/4.1B.DGN SCALE 1:8000 (A3)



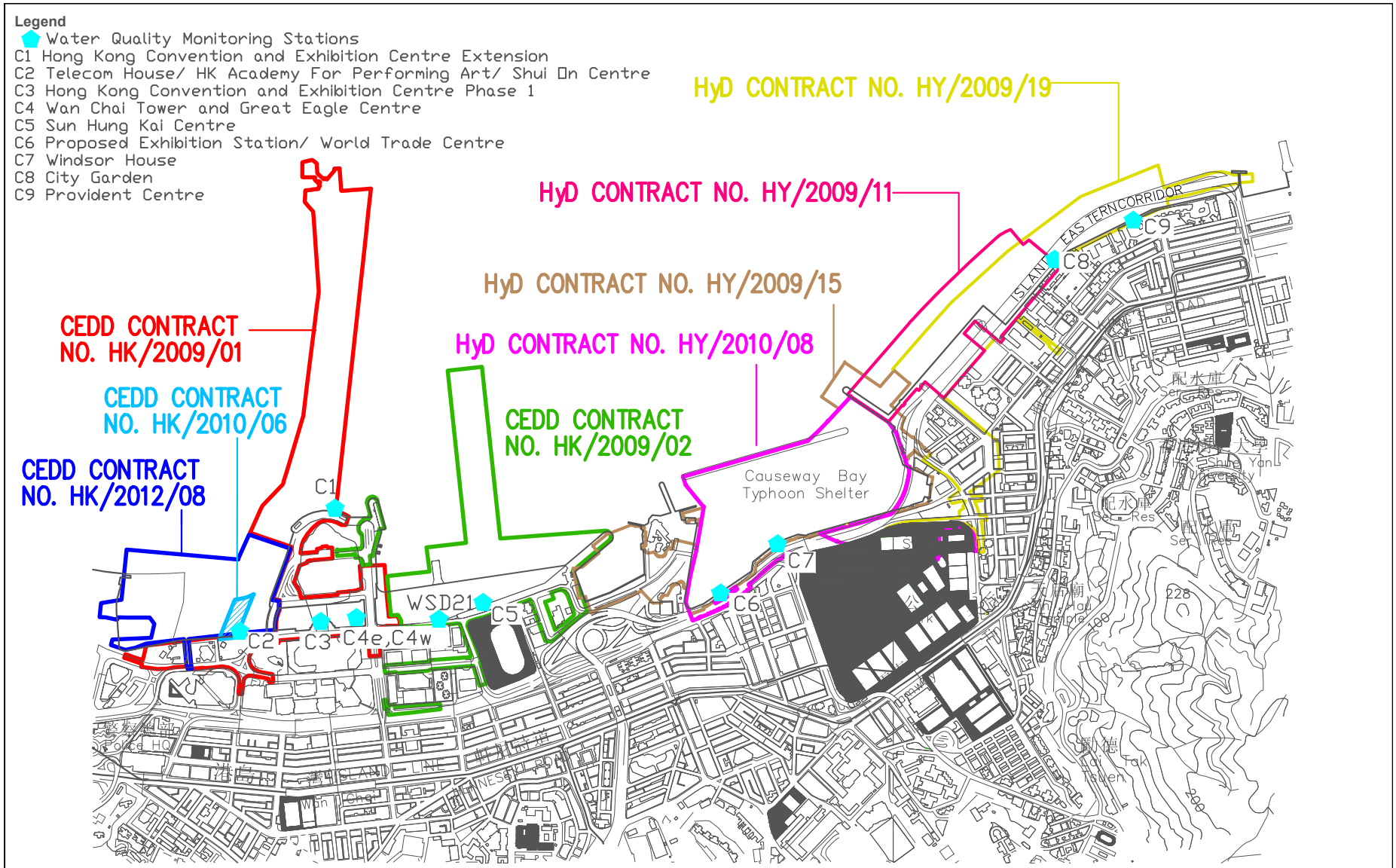
Location plan of Environmental Monitoring Stations


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
Victoria
SKETCH A

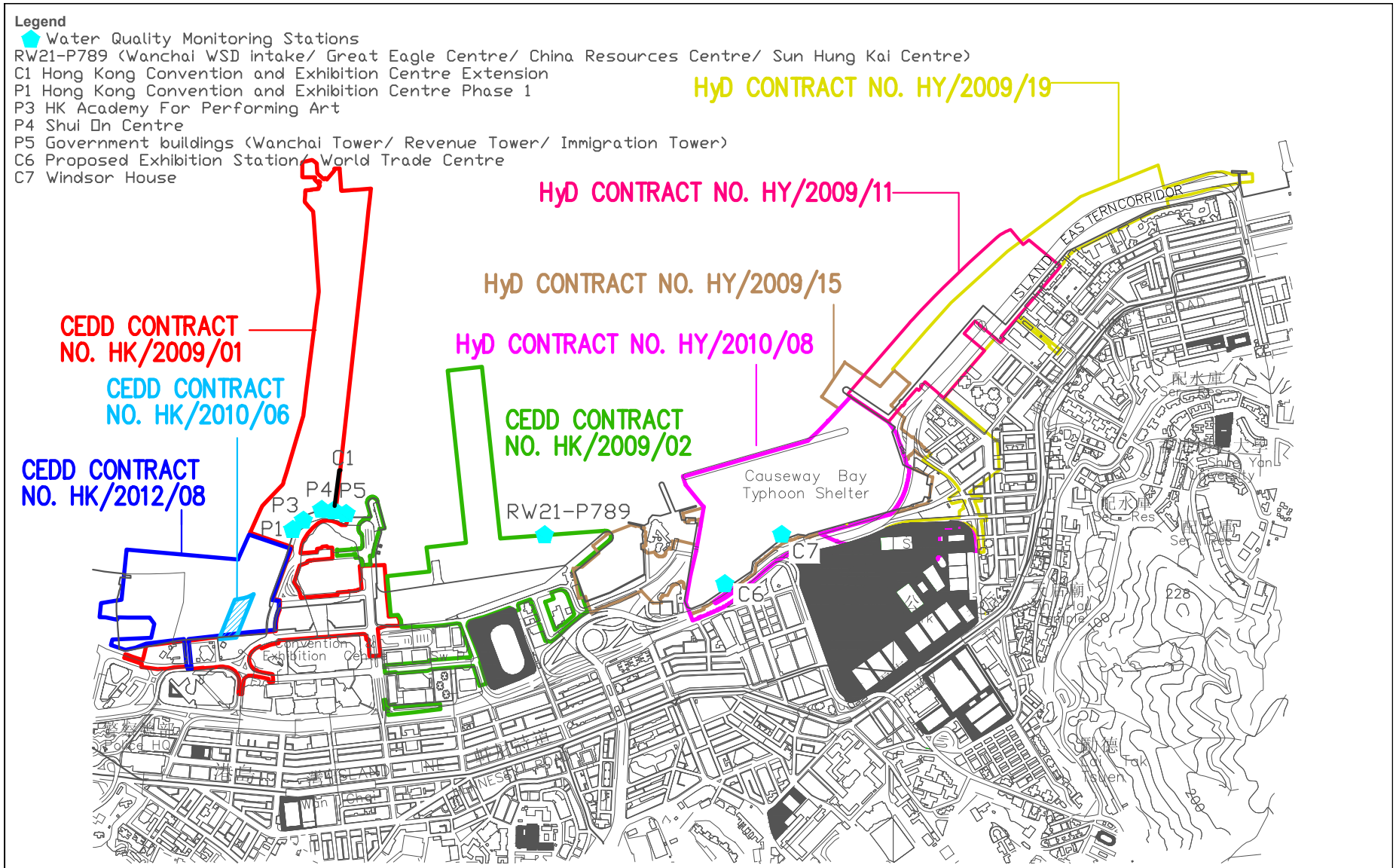

C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
Odour Patrol Location
N
CAUSEWAY BAY TYPHOON SHELTER
EX-WAN CHAI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
OP1
OP2
OP3
OP4
OP5
OP6
OP7
OUTFALL P
OUTFALL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



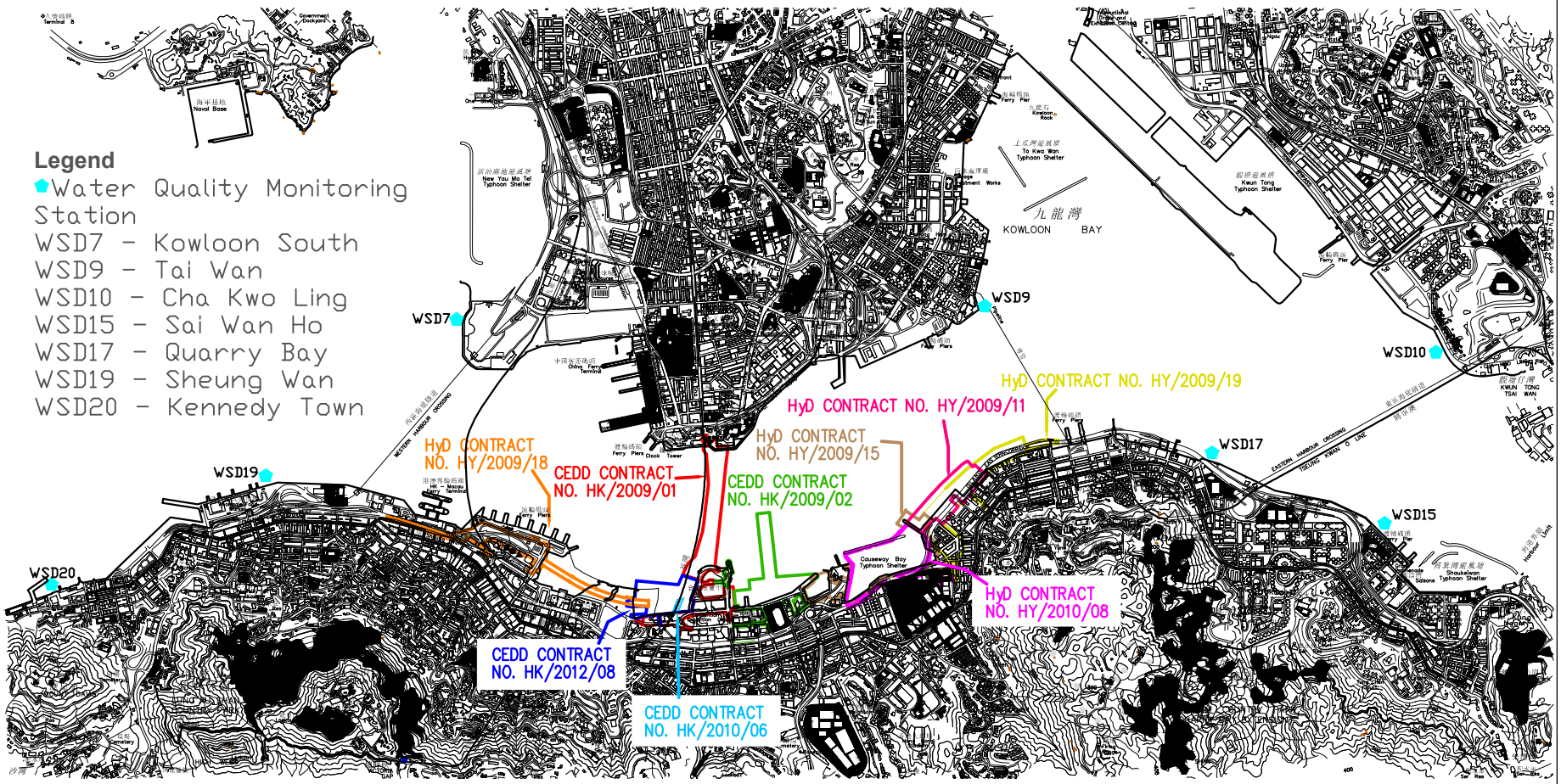
Location Plan of Additional Dissolved Oxygen Monitoring Stations for Culvert L Water Discharge Flow



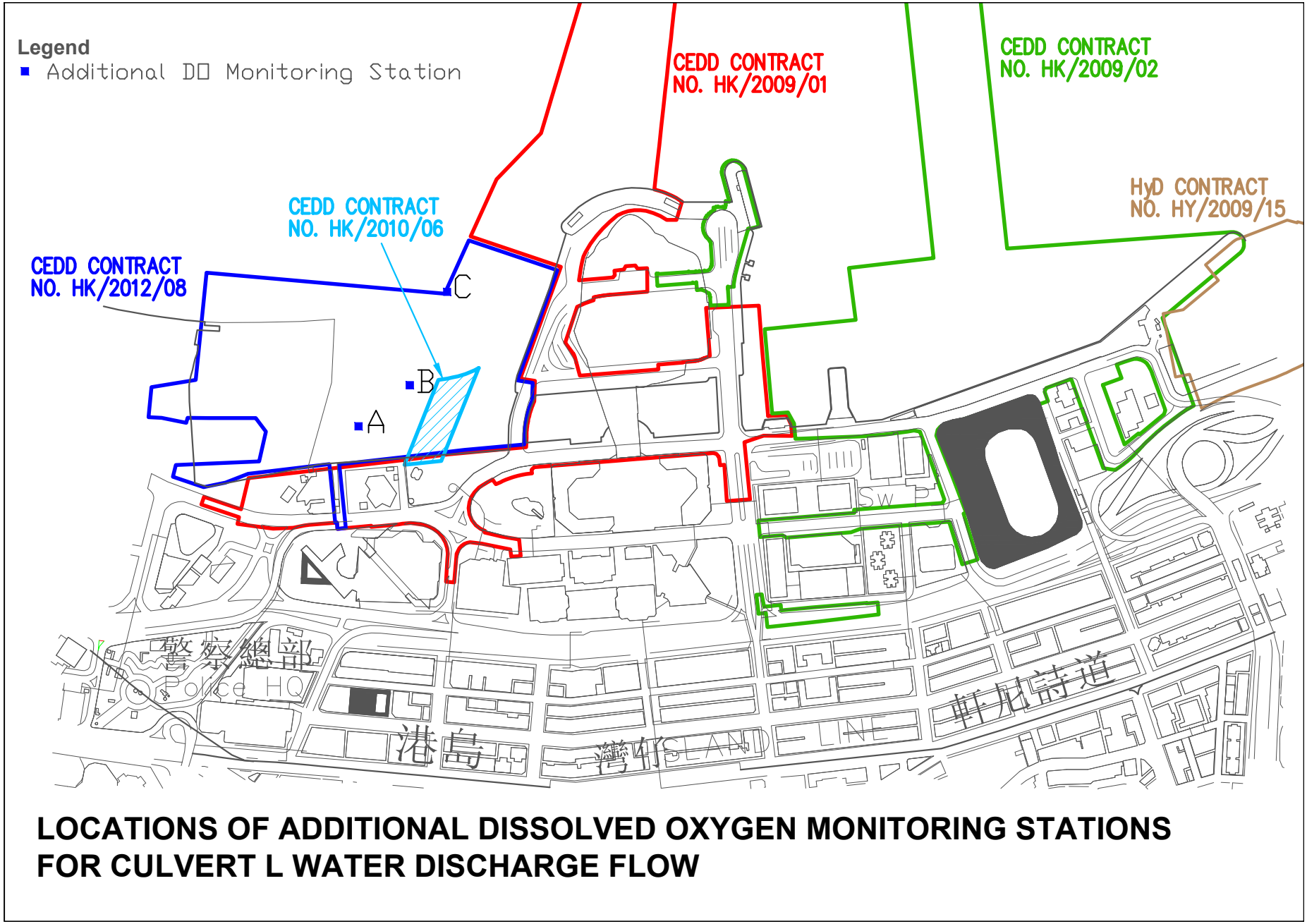
LOCATIONS OF WATER QUALITY MONITORING STATIONS



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

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.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Reclamation Area		Maximum Dredging Rate		Maximum Dredging Rate (m^3 per week)
		m^3 per day	m^3 per hour (for 16 hrs per day)	
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

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.

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				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

領導檢測有限公司

PILOT TESTING LIMTIED

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: DEREK LO **WORK ORDER:** HK1310015

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 09/09/2013

DATE OF ISSUE: 13/09/2013

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:	13 September, 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: HK1310015

DATE OF ISSUE: 13th September, 2013

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203008
Equipment No.:	--
Date of Calibration:	13 September, 2013
Date of next Calibration:	13 December, 2013

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	0
4	3.85	-3.8
10	10.2	+2.0
40	39.1	-2.2
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.

Mr. Peter Lee
Director

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.

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
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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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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

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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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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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ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR DEREK LO	**WORK ORDER:**	HK1327829
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	09/10/2013
		DATE OF ISSUE:	17/10/2013
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.:	11F100597
Equipment No.:	--
Date of Calibration:	15 October, 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.

ISSUING LABORATORY: HONG KONG

Address

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1-3 Wing Yip Street
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Phone: 852-2610 1044
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Email: hongkong@alsglobal.com

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1327829
Date of Issue: 17/10/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: Professional plus
Serial No.: 11F100597
Equipment No.: --
Date of Calibration: 15 October, 2013 Date of next Calibration: 15 January, 2014

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.85	1.89	0.04
5.22	5.37	0.15
7.95	7.96	0.01
	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	4.01	0.01
7.0	6.98	-0.02
10.0	10.02	0.02
	Tolerance Limit (±pH unit)	0.20

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.02	--
10	9.61	-3.9
20	19.65	-1.8
30	29.86	-0.5
	Tolerance Limit (± ppt)	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)
11.0	11.5	0.5
25.0	23.8	-1.2
38.0	37.1	-0.9
	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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR DEREK LO	**WORK ORDER:**	HK1326638
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	27/09/2013
		DATE OF ISSUE:	07/10/2013
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.:	11F100420
Equipment No.:	--
Date of Calibration:	07 October, 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.

ISSUING LABORATORY: HONG KONG

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1326638
Date of Issue: 07/10/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: Professional plus
Serial No.: 11F100420
Equipment No.: --
Date of Calibration: 07 October, 2013 Date of next Calibration: 07 January, 2014

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.32	2.33	0.01
4.36	4.32	-0.04
6.30	6.29	-0.01
	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	4.17	0.17
7.0	7.19	0.19
10.0	9.96	-0.04
	Tolerance Limit (±pH unit)	0.20

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.03	--
10	9.94	-0.6
20	19.49	-2.6
30	29.55	-1.5
	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	9.8	-0.2
24.0	23.1	-0.9
41.0	40.4	-0.6
	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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR DEREK LO	**WORK ORDER:**	HK1323779
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	02/09/2013
		DATE OF ISSUE:	17/09/2013
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:	07 September, 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.

ISSUING LABORATORY: HONG KONG

Address

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Email: hongkong@alsglobal.com

PP

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1323779
Date of Issue: 17/09/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: Professional plus
Serial No.: 13A100242
Equipment No.: --
Date of Calibration: 07 September, 2013 Date of next Calibration: 07 December, 2013

Parameters:

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.04	0.04
7.0	7.14	0.14
10.0	10.14	0.14
	Tolerance Limit (±pH unit)	0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.22	2.2
20	20.80	4.0
30	30.55	1.8
	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)
9.5	10.1	0.6
24.0	23.0	-1.0
38.0	37.1	-0.9
	Tolerance Limit (±°C)	2.0

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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1323779
Date of Issue: 17/09/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: Professional plus
Serial No.: 13A100242
Equipment No.: --
Date of Calibration: 07 September, 2013 Date of next Calibration: 07 December, 2013

Parameters:

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

1st time

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
5.26	4.54	-0.72
6.20	5.90	-0.30
8.28	8.01	-0.27
	Tolerance Limit (±mg/L)	0.20

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

2nd time

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.45	3.43	-1.02
6.62	6.39	-0.23
8.31	8.45	0.14
	Tolerance Limit (±mg/L)	0.20

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

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

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR DEREK LO	**WORK ORDER:**	HK1327060
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	03/10/2013
		DATE OF ISSUE:	08/10/2013
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
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	Professional plus
Serial No.:	13A100242
Equipment No.:	--
Date of Calibration:	08 October, 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.

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

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Email: hongkong@alsglobal.com

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1327060
Date of Issue: 08/10/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: Professional plus
Serial No.: 13A100242
Equipment No.: --
Date of Calibration: 08 October, 2013 Date of next Calibration: 08 January, 2014

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
7.85	7.68	-0.17
5.82	5.67	-0.15
3.24	3.18	-0.06
	Tolerance Limit (±mg/L)	0.20

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

TISCH ENVIROMENTAL, INC.
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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}

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Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	19-Nov-13
Equipment no.	:	EL452	**Calbration Due Dat**	:	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	294	Kelvin	**Pressure, P_a**	1021	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	1.7613	62	62.6571
2	5.1	5.1	10.2	1.6117	53	53.5617
3	4.0	4.0	8.0	1.4289	43	43.4557
4	2.5	2.5	5.0	1.1325	28	28.2967
5	1.4	1.4	2.8	0.8509	14	14.1484

By Linear Regression of Y on X

Slope, m	=	52.9089	Intercept, b	=	-31.3758
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	:	19-Nov-13	**Date**	:	19-Nov-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	19-Nov-13
Equipment no.	:	EL449	**Calbration Due Dat**	:	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	294	Kelvin	**Pressure, P_a**	1021	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	1.7613	60	60.6359
2	5.0	5.0	10.0	1.5959	51	51.5405
3	4.1	4.1	8.2	1.4465	43	43.4557
4	2.5	2.5	5.0	1.1325	27	27.2861
5	1.4	1.4	2.8	0.8509	14	14.1484

By Linear Regression of Y on X

Slope, m	=	51.1083	Intercept, b	=	-29.9618
Correlation Coefficient*	=	0.9995			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	19-Nov-13	**Date**	:	19-Nov-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	19-Nov-13
Equipment no.	:	EL390	**Calbration Due Dat**	:	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	294	Kelvin	**Pressure, P_a**	1021	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	1.7613	62	62.6571
2	5.1	5.1	10.2	1.6117	52	52.5511
3	4.0	4.0	8.0	1.4289	42	42.4451
4	2.5	2.5	5.0	1.1325	26	26.2755
5	1.5	1.5	3.0	0.8803	13	13.1378

By Linear Regression of Y on X

Slope, m = 55.6501 Intercept, b = -36.4335

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	:	19-Nov-13	**Date**	:	19-Nov-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	19-Nov-13
Equipment no.	:	EL380	**Calbration Due Dat**	:	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	294	Kelvin	**Pressure, P_a**	1021	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	6.2	6.2	12.4	1.7756	61	61.6465
2	5.1	5.1	10.2	1.6117	52	52.5511
3	4.1	4.1	8.2	1.4465	44	44.4663
4	2.4	2.4	4.8	1.1099	28	28.2967
5	1.5	1.5	3.0	0.8803	18	18.1908

By Linear Regression of Y on X

Slope, m = 48.3214 Intercept, b = -24.9174

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	:	19-Nov-13	**Date**	:	19-Nov-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	19-Nov-13
Equipment no.	:	EL448	**Calbration Due Dat**	:	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	294	Kelvin	**Pressure, P_a**	1021	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	1.7613	60	60.6359
2	5.0	5.0	10.0	1.5959	51	51.5405
3	4.0	4.0	8.0	1.4289	43	43.4557
4	2.4	2.4	4.8	1.1099	28	28.2967
5	1.5	1.5	3.0	0.8803	17	17.1802

By Linear Regression of Y on X

Slope, m	=	48.8703	Intercept, b	=	-26.0098
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	:	19-Nov-13	**Date**	:	19-Nov-13

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
December 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
24-Nov				28-Nov Impact WQM Mid-ebb 8:01 Mid-flood 14:38	29-Nov	30-Nov Impact WQM Mid-ebb 10:04 Mid-flood 15:50
1-Dec	2-Dec 24hr TSP Noise (Daytime) (M1a) Impact WQM Mid-flood 17:08 Mid-ebb 23:52	3-Dec 1hr TSP	4-Dec Noise (Daytime) (M2b,M3a,M4b,M5b,M Impact WQM Mid-ebb 13:17 Mid-flood 18:35	5-Dec	6-Dec	7-Dec 24hr TSP Impact WQM Mid-ebb 3:03 Mid-flood 10:17
8-Dec	9-Dec 1hr TSP Impact WQM Mid-ebb 4:48 Mid-flood 12:06	10-Dec Noise (Daytime)	11-Dec Impact WQM Mid-flood 13:54 Mid-ebb 20:34	12-Dec	13-Dec 24hr TSP Impact WQM Mid-flood 15:24 Mid-ebb 22:20	14-Dec 1hr TSP
15-Dec	16-Dec Impact WQM Mid-flood 17:09	17-Dec Noise (Daytime) (M5b) Impact WQM Mid-ebb 0:10	18-Dec Noise (Daytime) (M2b,M3a,M4b,M6) Impact WQM Mid-flood 18:08	19-Dec 24hr TSP Noise (Daytime) (M1a) Impact WQM Mid-ebb 1:14	20-Dec 1hr TSP	21-Dec Impact WQM Mid-ebb 2:04 Mid-flood 9:19
22-Dec	23-Dec 24hr TSP Noise (Daytime)	24-Dec 24hr TSP (CMA2a) 1hr TSP Impact WQM Mid-ebb 3:29 Mid-flood 11:22	25-Dec	26-Dec Impact WQM Mid-ebb 4:54 Mid-flood 12:50	27-Dec	

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

Tentative Environmental Monitoring Schedule
January 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	**28-Dec**
	24hr TSP Noise (Daytime)	1hr TSP Noise (Daytime) Impact WQM Mid-ebb 3:29 Mid-flood 11:22		Impact WQM Mid-ebb 4:54 Mid-flood 12:50		24hr TSP Impact WQM Mid-flood 14:20 Mid-ebb 21:22
29-Dec	**30-Dec**	31-Dec	1-Jan	2-Jan	3-Jan	4-Jan
	1hr TSP Noise (Daytime)	Noise (Daytime)		Impact WQM Mid-ebb 13:07 Mid-flood 18:25	24hr TSP	1hr TSP Impact WQM Mid-flood 9:05 Mid-ebb 14:44
5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan
	VC 24hr TSP Impact WQM Mid-flood 10:34 Mid-ebb 16:26	VC 1hr TSP Noise (Daytime)	Noise (Daytime) Impact WQM Mid-flood 12:07 Mid-ebb 18:41	24hr TSP	1hr TSP Impact WQM Mid-flood 13:42 Mid-ebb 21:18	
12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
	VC 24hr TSP Noise (Daytime) Impact WQM Mid-flood 16:02 Mid-ebb 23:24	VC 1hr TSP Noise (Daytime)	24hr TSP Impact WQM Mid-flood 17:20	1hr TSP Impact WQM Mid-ebb 0:28		Impact WQM Mid-ebb 1:27 Mid-flood 8:12
19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
	VC 24hr TSP 24hr TSP Noise (Daytime) Impact WQM Mid-flood 9:08 Mid-ebb 14:47	VC 1hr TSP 1hr TSP	Impact WQM Mid-flood 10:21 Mid-ebb 16:18	Noise (Daytime)	24hr TSP Impact WQM Mid-flood 11:47 Mid-ebb 18:28	1hr TSP
26-Jan	**27-Jan**					
	VC 24hr TSP Noise (Daytime) Impact WQM Mid-flood 14:28 Mid-ebb 21:51					

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)					
2/12/2013	11:30	Fine	71.6	74.5	65.0	72	72	75
10/12/2013	14:00	Fine	71.9	74.5	67.0	72	72	75
19/12/2013	10:45	Fine	72.5	75.0	67.0	72	61	75
23/12/2013	9:23	Fine	73.1	76.0	68.0	72	66	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)					
4/12/2013	9:32	Fine	70.0	72.0	67.0	68	66	75
10/12/2013	16:40	Fine	69.7	71.5	66.5	68	66	75
18/12/2013	8:40	Fine	67.9	71.3	61.4	68	56	75
23/12/2013	10:07	Fine	74.2	76.5	69.0	68	73	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)					
4/12/2013	10:16	Fine	66.4	67.5	64.0	69	66	75
10/12/2013	17:45	Fine	66.5	67.5	65.0	69	67	75
18/12/2013	9:20	Fine	68.8	70.5	66.0	69	69	75
23/12/2013	10:46	Fine	67.8	69.0	65.0	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)					
4/12/2013	11:03	Fine	71.8	73.0	69.5	67	70	75
10/12/2013	8:29	Cloudy	73.9	76.0	68.0	67	73	75
18/12/2013	10:05	Fine	72.0	73.5	68.0	67	70	75
23/12/2013	11:24	Fine	70.6	72.5	67.0	67	68	75

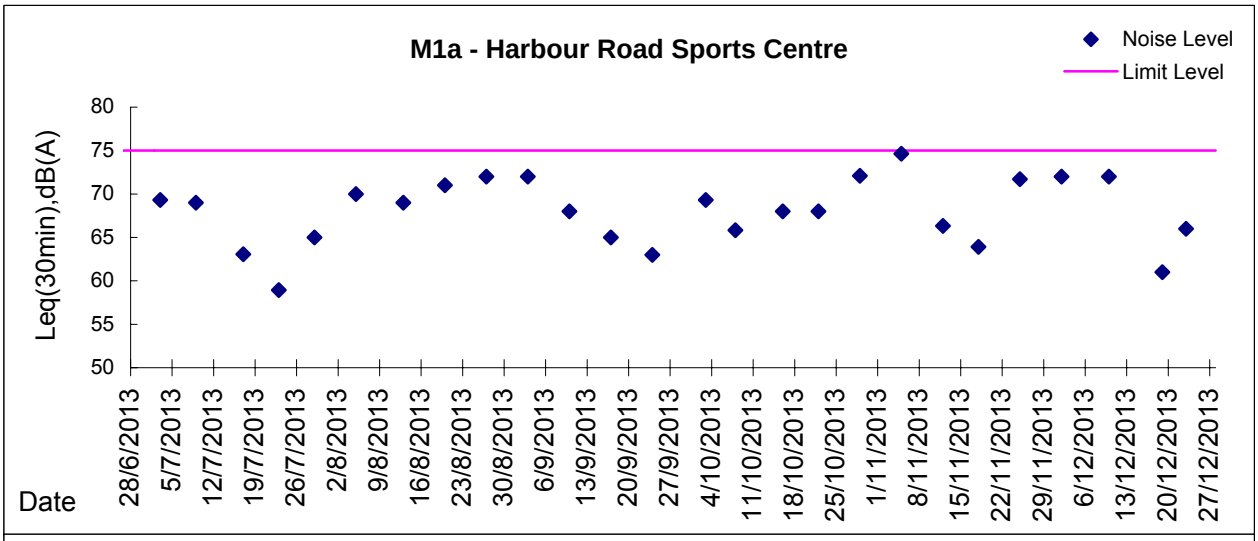
Location: M5b - City Garden

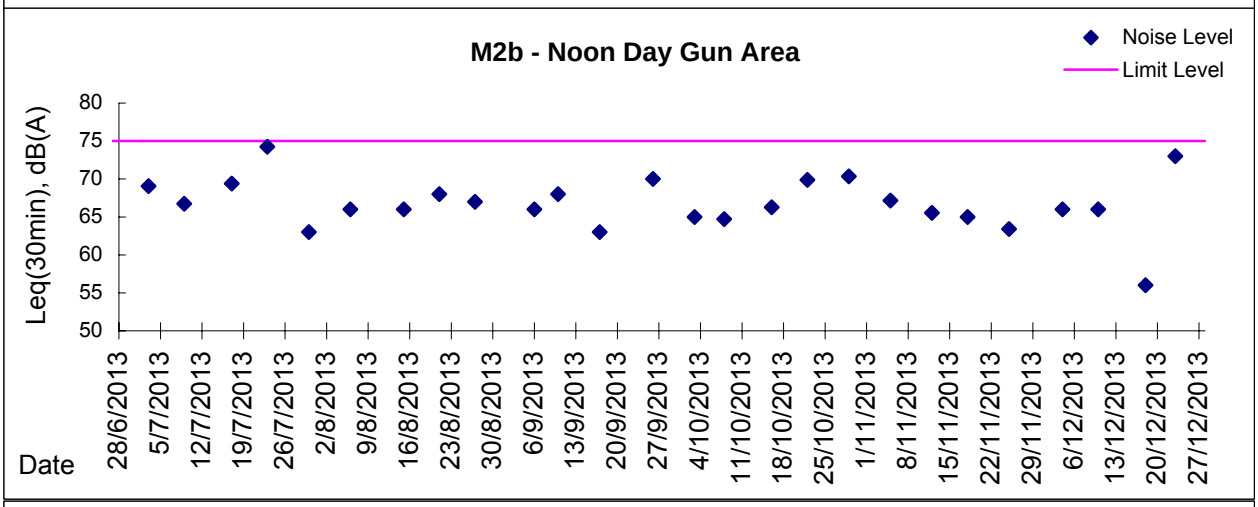
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
4/12/2013	15:37	Fine	68.1	70.0	65.5	68	52	75
10/12/2013	10:36	Cloudy	68.9	70.0	66.5	68	62	75
17/12/2013	15:05	Cloudy	67.1	68.0	64.5	68	67	75
23/12/2013	13:07	Fine	69.8	71.0	68.0	68	65	75

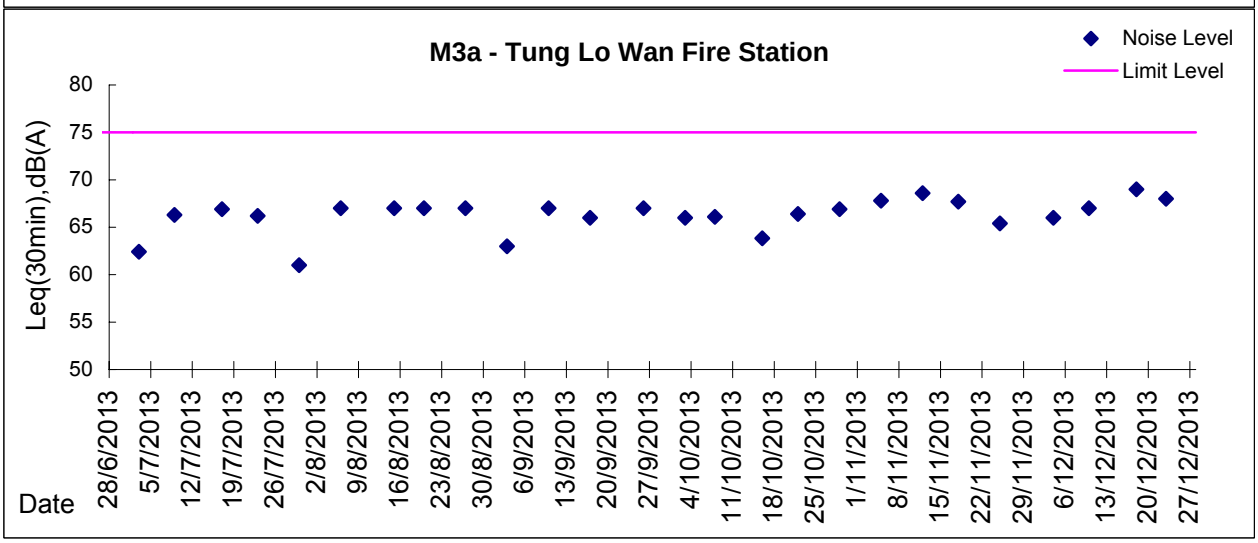
Location: M6 - HK Baptist Church Henrietta Secondary School

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
4/12/2013	16:48	Fine	73.2	74.0	71.5	71	70	70
10/12/2013	9:18	Cloudy	75.2	76.0	73.0	71	**73**	65
18/12/2013	10:40	Fine	74.6	76.6	73.2	71	**72**	65
23/12/2013	14:50	Fine	73.1	74.5	71.0	71	69	70

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

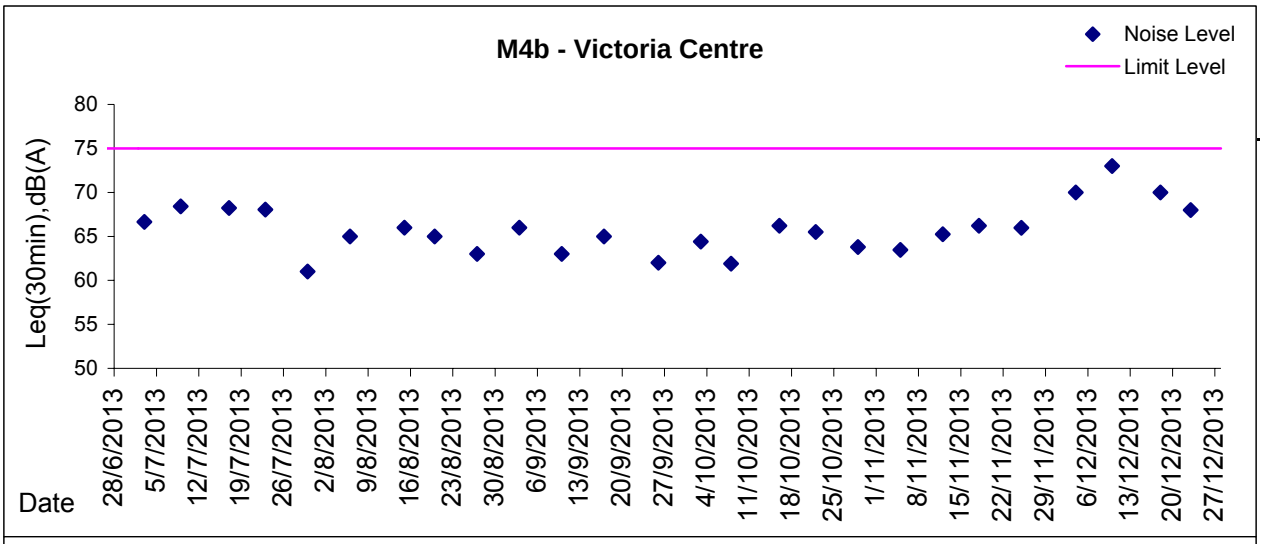


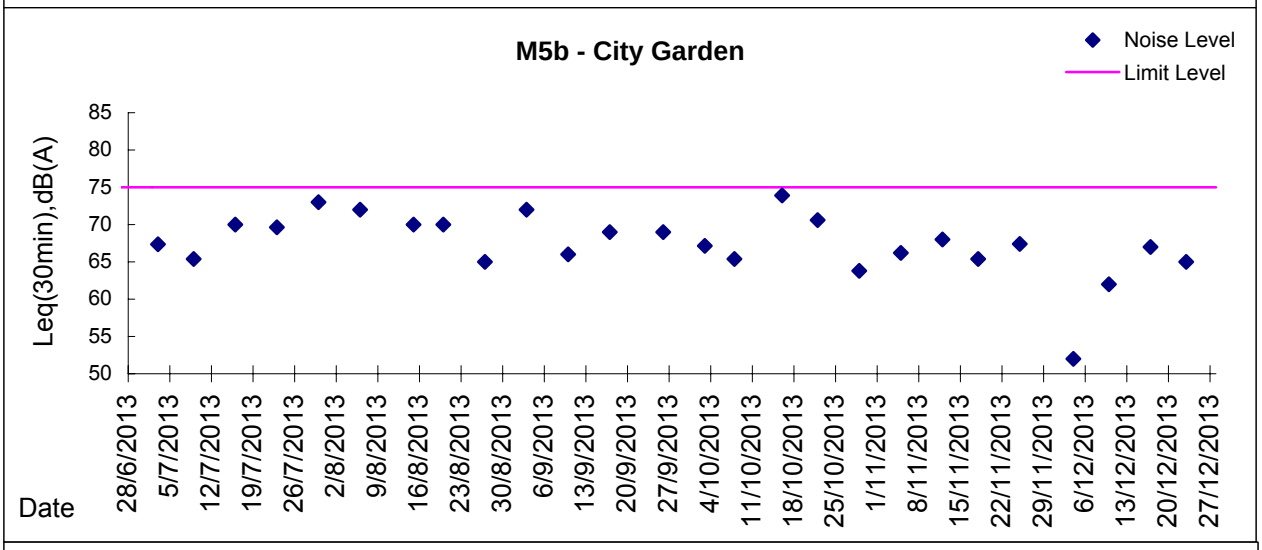


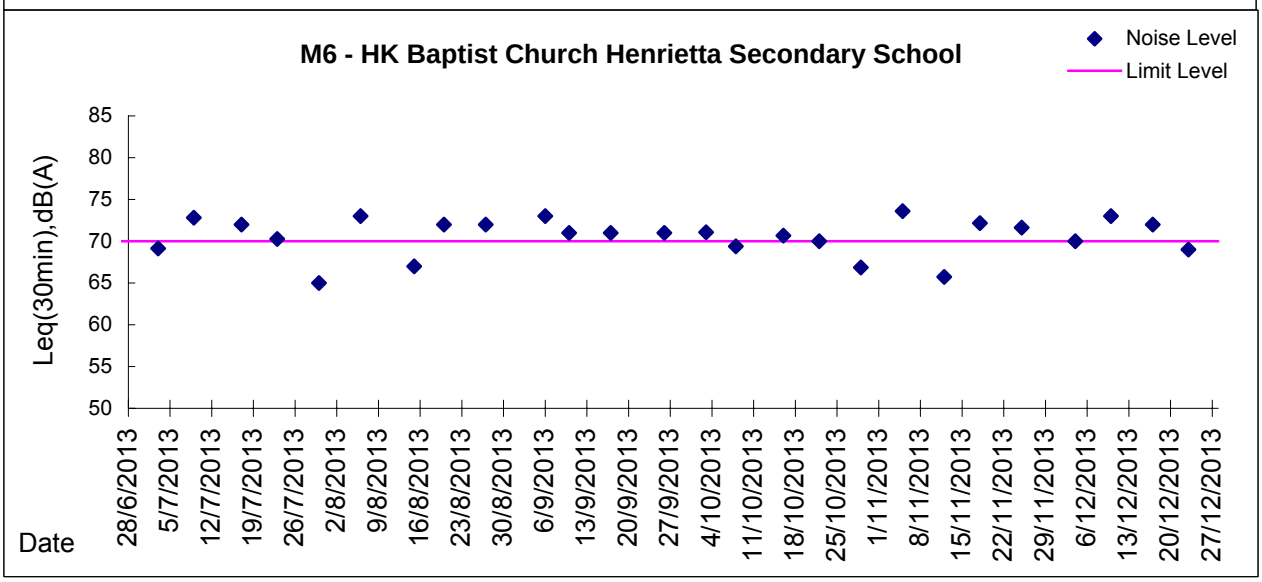


Graphic Presentation of Noise Monitoring Result

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		
2-Dec-13	8:00	Fine	005988	2.6291	2.8802	3786.05	3810.05	24.00	1.38	1.38	1.38	1993	126
7-Dec-13	8:00	Fine	005962	2.6384	2.9136	3813.05	3837.05	24.00	1.36	1.36	1.36	1963	140
13-Dec-13	8:00	Cloudy	007626	2.6175	2.8165	3840.04	3864.04	24.00	1.36	1.36	1.36	1965	101
19-Dec-13	8:00	Cloudy	005972	2.6137	2.7241	3867.04	3891.04	24.00	1.36	1.36	1.36	1964	56
23-Dec-13	8:00	Cloudy	005904	2.6484	2.8694	3894.04	3918.04	24.00	1.32	1.32	1.32	1905	116

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		
3-Dec-13	8:20	Fine	006489	2.7402	2.7569	3810.05	3811.05	1.00	1.36	1.36	1.36	82	204
3-Dec-13	9:26	Fine	006492	2.7534	2.7643	3811.05	3812.05	1.00	1.36	1.36	1.36	82	133
3-Dec-13	10:31	Fine	005959	2.6456	2.6639	3812.05	3813.05	1.00	1.36	1.36	1.36	82	223
9-Dec-13	9:56	Fine	007676	2.6222	2.6348	3837.05	3838.05	1.00	1.36	1.36	1.36	82	154
9-Dec-13	10:58	Fine	007675	2.6383	2.6479	3838.05	3839.05	1.00	1.36	1.36	1.36	82	118
9-Dec-13	13:00	Fine	005967	2.6533	2.6754	3839.05	3840.05	1.00	1.36	1.36	1.36	82	271
14-Dec-13	8:10	Rainy	005952	2.6142	2.6328	3864.04	3865.04	1.00	1.36	1.36	1.36	82	227
14-Dec-13	9:15	Rainy	005954	2.6392	2.6598	3865.04	3866.04	1.00	1.36	1.36	1.36	82	252
14-Dec-13	10:20	Rainy	005956	2.6253	2.6427	3866.04	3867.04	1.00	1.36	1.36	1.36	82	212
20-Dec-13	8:20	Cloudy	005854	2.6269	2.6385	3891.04	3892.04	1.00	1.36	1.36	1.36	82	142
20-Dec-13	9:25	Cloudy	005853	2.6303	2.6422	3892.04	3893.04	1.00	1.36	1.36	1.36	82	145
20-Dec-13	10:30	Cloudy	005860	2.6310	2.6415	3893.04	3894.04	1.00	1.36	1.36	1.36	82	128
24-Dec-13	8:20	Rainy	007546	2.6276	2.6363	3918.04	3919.04	1.00	1.32	1.32	1.32	79	110
24-Dec-13	9:25	Rainy	007549	2.6412	2.6466	3919.04	3920.04	1.00	1.32	1.32	1.32	79	68
24-Dec-13	10:30	Rainy	007534	2.6498	2.6586	3920.04	3921.04	1.00	1.32	1.32	1.32	79	111

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		
2-Dec-13	8:00	Fine	006456	2.7572	2.9622	13497.52	13521.52	24.00	1.43	1.42	1.42	2051	100
7-Dec-13	8:00	Fine	005963	2.6542	2.8035	13524.54	13548.54	24.00	1.27	1.27	1.27	1828	82
13-Dec-13	8:00	Cloudy	005968	2.6538	2.9278	13551.54	13575.54	24.00	1.27	1.27	1.27	1830	150
19-Dec-13	8:00	Cloudy	005973	2.6495	2.8074	13578.53	13602.53	24.00	1.27	1.27	1.27	1830	86
24-Dec-13	15:00	Cloudy	006474	2.7661	2.9910	13608.21	13632.21	24.00	1.34	1.34	1.34	1933	116

Due to interruption of electricity supply, the 24hr TSP monitoring was rescheduled from 23 Dec 2013 to 24 Dec 2013.

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		
3-Dec-13	8:05	Fine	006491	2.7375	2.7544	13521.52	13522.52	1.00	1.39	1.39	1.39	83	203
3-Dec-13	9:12	Fine	006288	2.5966	2.6157	13522.52	13523.52	1.00	1.39	1.39	1.39	83	230
3-Dec-13	10:17	Fine	005960	2.6495	2.6686	13523.52	13524.52	1.00	1.39	1.39	1.39	83	230
9-Dec-13	9:50	Fine	007677	2.6462	2.6598	13548.54	13549.54	1.00	1.30	1.30	1.30	78	174
9-Dec-13	10:52	Fine	004806	2.8120	2.8238	13549.54	13550.54	1.00	1.30	1.30	1.30	78	151
9-Dec-13	13:00	Fine	004807	2.8072	2.8231	13550.54	13551.54	1.00	1.30	1.30	1.30	78	203
14-Dec-13	8:00	Rainy	005953	2.6189	2.6419	13575.54	13576.54	1.00	1.31	1.31	1.31	79	293
14-Dec-13	9:05	Rainy	005955	2.6451	2.6674	13576.54	13577.54	1.00	1.31	1.31	1.31	79	284
14-Dec-13	10:10	Rainy	005971	2.6273	2.6449	13577.54	13578.54	1.00	1.31	1.31	1.31	79	224
20-Dec-13	8:10	Cloudy	005512	2.8199	2.8377	13602.53	13603.53	1.00	1.31	1.31	1.31	79	227
20-Dec-13	9:15	Cloudy	005852	2.6528	2.6591	13603.53	13604.53	1.00	1.31	1.31	1.31	79	80
20-Dec-13	10:20	Cloudy	005905	2.6264	2.6353	13604.53	13605.53	1.00	1.31	1.31	1.31	79	113
24-Dec-13	9:03	Rainy	007545	2.6219	2.6294	13605.21	13606.21	1.00	1.30	1.30	1.30	78	96
24-Dec-13	10:15	Rainy	007548	2.6478	2.6563	13606.21	13607.21	1.00	1.30	1.30	1.30	78	109
24-Dec-13	13:00	Rainy	007535	2.6481	2.6502	13607.21	13608.21	1.00	1.30	1.30	1.30	78	27

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		
2-Dec-13	8:00	Fine	005985	2.6523	2.8642	898.89	922.89	24.00	1.38	1.38	1.38	1985	107
7-Dec-13	8:00	Fine	005966	2.6469	2.9128	925.89	949.89	24.00	1.38	1.37	1.38	1981	134
13-Dec-13	8:00	Cloudy	005969	2.6538	2.9725	952.87	976.87	24.00	1.38	1.38	1.38	1983	161
19-Dec-13	8:00	Cloudy	007807	2.6310	2.7575	979.87	1003.87	24.00	1.41	1.41	1.41	2033	62
23-Dec-13	8:00	Cloudy	006679	2.6478	2.9284	1006.87	1030.87	24.00	1.41	1.41	1.41	2027	138

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		
3-Dec-13	8:45	Fine	006248	2.6073	2.6217	922.89	923.89	1.00	1.38	1.38	1.38	83	174
3-Dec-13	9:48	Fine	006250	2.6275	2.6405	923.89	924.89	1.00	1.38	1.38	1.38	83	157
3-Dec-13	10:55	Fine	006475	2.7223	2.7329	924.89	925.89	1.00	1.34	1.34	1.34	81	132
9-Dec-13	10:00	Fine	006235	2.6686	2.6846	949.89	950.89	1.00	1.37	1.37	1.37	82	194
9-Dec-13	13:00	Fine	007671	2.6512	2.6669	950.89	951.89	1.00	1.37	1.37	1.37	82	191
9-Dec-13	15:00	Fine	005806	2.7709	2.7924	951.89	952.89	1.00	1.34	1.34	1.34	80	268
14-Dec-13	8:40	Rainy	007813	2.6499	2.6648	976.87	977.87	1.00	1.38	1.38	1.38	83	180
14-Dec-13	9:45	Rainy	007811	2.6289	2.6439	977.87	978.87	1.00	1.38	1.38	1.38	83	181
14-Dec-13	10:55	Rainy	007809	2.6484	2.6632	978.87	979.87	1.00	1.34	1.34	1.34	81	184
20-Dec-13	8:40	Cloudy	007672	2.6435	2.6534	1003.87	1004.87	1.00	1.41	1.41	1.41	85	117
20-Dec-13	9:45	Cloudy	006683	2.6595	2.6700	1004.87	1005.87	1.00	1.41	1.41	1.41	85	124
20-Dec-13	10:57	Cloudy	006445	2.7282	2.7408	1005.87	1006.87	1.00	1.38	1.38	1.38	83	152
24-Dec-13	8:48	Rainy	007805	2.6333	2.6481	1030.87	1031.87	1.00	1.41	1.41	1.41	84	175
24-Dec-13	10:34	Rainy	007803	2.6550	2.6689	1031.87	1032.87	1.00	1.41	1.41	1.41	84	165
24-Dec-13	14:17	Rainy	006469	2.7456	2.7581	1032.87	1033.87	1.00	1.37	1.37	1.37	82	152

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		
2-Dec-13	8:00	Fine	005990	2.6522	2.8240	17696.25	17720.25	24.00	1.35	1.35	1.35	1950	88
7-Dec-13	8:00	Fine	006476	2.7501	2.9591	17723.25	17747.25	24.00	1.35	1.35	1.35	1947	107
13-Dec-13	8:00	Cloudy	006223	2.6432	2.9004	17750.24	17774.24	24.00	1.35	1.35	1.35	1949	132
19-Dec-13	8:00	Cloudy	007808	2.6416	2.7475	17777.24	17801.24	24.00	1.35	1.35	1.35	1948	54
23-Dec-13	8:00	Cloudy	006682	2.6486	2.9017	17805.34	17829.34	24.00	1.35	1.35	1.35	1942	130

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		
3-Dec-13	8:35	Fine	006247	2.6293	2.6404	17720.25	17721.25	1.00	1.35	1.35	1.35	81	137
3-Dec-13	9:40	Fine	006249	2.6486	2.6596	17721.25	17722.25	1.00	1.35	1.35	1.35	81	135
3-Dec-13	10:45	Fine	006243	2.6039	2.6130	17722.25	17723.25	1.00	1.32	1.32	1.32	79	115
9-Dec-13	10:26	Fine	006234	2.6429	2.6544	17747.25	17748.25	1.00	1.31	1.31	1.31	79	146
9-Dec-13	13:00	Fine	007673	2.6517	2.6653	17748.25	17749.25	1.00	1.31	1.31	1.31	79	173
9-Dec-13	14:05	Fine	005805	2.7941	2.8114	17749.25	17750.25	1.00	1.31	1.31	1.31	79	219
14-Dec-13	8:46	Rainy	007796	2.6187	2.6335	17724.24	17725.24	1.00	1.32	1.32	1.32	79	187
14-Dec-13	9:50	Rainy	007812	2.6400	2.6534	17725.24	17726.24	1.00	1.32	1.32	1.32	79	169
14-Dec-13	10:53	Rainy	007810	2.6133	2.6255	17726.24	17727.24	1.00	1.32	1.32	1.32	79	154
20-Dec-13	8:46	Cloudy	007674	2.6250	2.6291	17802.34	17803.34	1.00	1.35	1.35	1.35	81	51
20-Dec-13	9:50	Cloudy	006446	2.7624	2.7710	17803.34	17804.34	1.00	1.35	1.35	1.35	81	106
20-Dec-13	10:53	Cloudy	006681	2.6453	2.6565	17804.34	17805.34	1.00	1.35	1.35	1.35	81	138
24-Dec-13	8:40	Rainy	006399	2.6922	2.7105	17829.34	17830.34	1.00	1.35	1.35	1.35	81	226
24-Dec-13	10:18	Rainy	007804	2.6309	2.6465	17830.34	17831.34	1.00	1.35	1.35	1.35	81	193
24-Dec-13	14:08	Rainy	006470	2.7432	2.7556	17831.34	17832.34	1.00	1.35	1.35	1.35	81	153

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		
2-Dec-13	8:00	Fine	007633	2.6505	2.8230	18703.16	18727.16	24.00	1.36	1.36	1.36	1961	88
7-Dec-13	8:00	Fine	005965	2.6493	2.9351	18730.16	18754.16	24.00	1.36	1.36	1.36	1957	146
13-Dec-13	8:00	Cloudy	005802	2.7735	3.0648	18757.15	18781.15	24.00	1.32	1.32	1.32	1901	153
19-Dec-13	8:00	Cloudy	007559	2.6605	2.7752	18784.15	18808.15	24.00	1.32	1.32	1.32	1901	60
23-Dec-13	8:00	Cloudy	006418	2.7553	2.9762	18811.15	18835.15	24.00	1.32	1.31	1.31	1893	117

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		
3-Dec-13	8:38	Fine	006030	2.6259	2.6391	18727.16	18728.16	1.00	1.36	1.36	1.36	82	162
3-Dec-13	9:42	Fine	005796	2.8551	2.8717	18728.16	18729.16	1.00	1.36	1.36	1.36	82	203
3-Dec-13	10:50	Fine	005798	2.8527	2.8663	18729.16	18730.16	1.00	1.36	1.36	1.36	82	167
9-Dec-13	8:06	Fine	006468	2.7513	2.7689	18754.16	18755.16	1.00	1.35	1.35	1.35	81	217
9-Dec-13	9:29	Fine	005935	2.6337	2.6594	18755.16	18756.16	1.00	1.35	1.35	1.35	81	316
9-Dec-13	13:00	Fine	006217	2.6638	2.6765	18756.16	18757.16	1.00	1.35	1.35	1.35	81	156
14-Dec-13	8:30	Rainy	007550	2.6373	2.6483	18781.15	18782.15	1.00	1.36	1.36	1.36	82	135
14-Dec-13	9:35	Rainy	007553	2.6417	2.6511	18782.15	18783.15	1.00	1.36	1.36	1.36	82	115
14-Dec-13	10:40	Rainy	007556	2.6723	2.6827	18783.15	18784.15	1.00	1.36	1.36	1.36	82	127
20-Dec-13	8:30	Cloudy	007562	2.6597	2.6671	18808.15	18809.15	1.00	1.36	1.36	1.36	82	91
20-Dec-13	9:35	Cloudy	007565	2.6635	2.6719	18809.15	18810.15	1.00	1.36	1.36	1.36	82	103
20-Dec-13	10:40	Cloudy	006421	2.7520	2.7594	18810.15	18811.15	1.00	1.36	1.36	1.36	82	91
24-Dec-13	8:35	Rainy	007663	2.6306	2.6389	18835.15	18836.15	1.00	1.35	1.35	1.35	81	102
24-Dec-13	9:45	Rainy	007657	2.6286	2.6382	18836.15	18837.15	1.00	1.35	1.35	1.35	81	118
24-Dec-13	10:50	Rainy	007662	2.6438	2.6531	18837.15	18838.15	1.00	1.35	1.35	1.35	81	115

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		
2-Dec-13	8:00	Fine	006487	2.7641	2.9290	17006.51	17030.51	24.00	1.33	1.33	1.33	1914	86
7-Dec-13	8:00	Fine	006212	2.6698	2.9144	17033.88	17057.88	24.00	1.33	1.33	1.33	1910	128
13-Dec-13	8:00	Cloudy	005800	2.8396	3.1093	17060.87	17084.87	24.00	1.37	1.37	1.37	1969	137
19-Dec-13	8:00	Cloudy	007558	2.6693	2.7634	17087.87	17111.87	24.00	1.37	1.37	1.37	1969	48
23-Dec-13	8:00	Cloudy	006419	2.7848	3.1072	17114.87	17138.87	24.00	1.36	1.36	1.36	1961	164

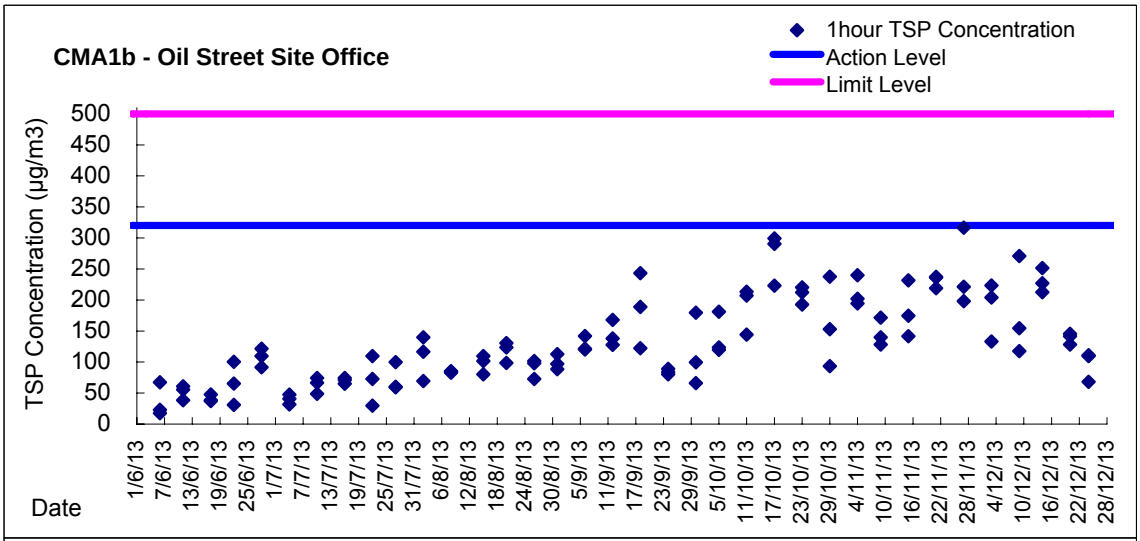
Report on 1-hour TSP monitoring

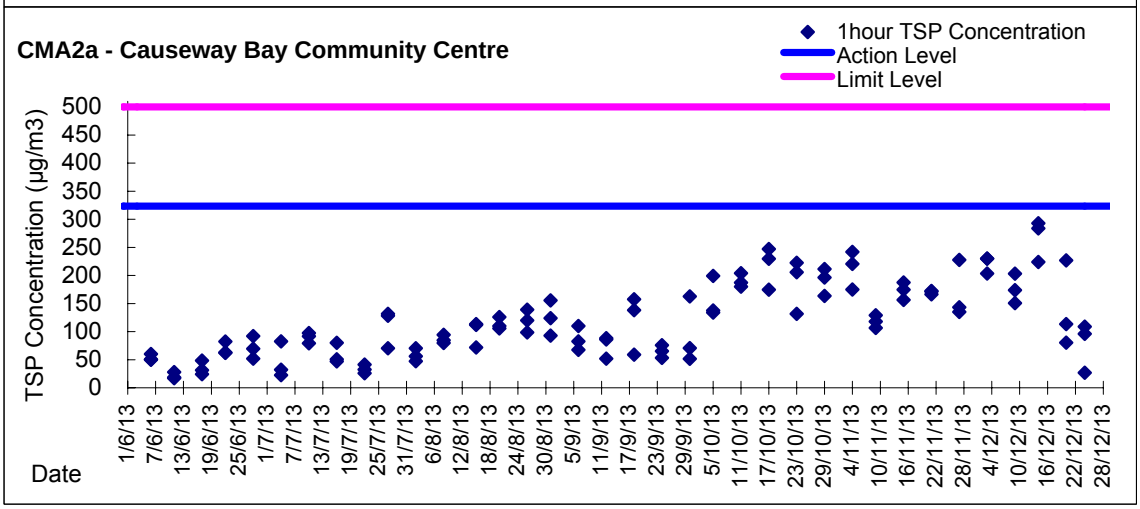
Action Level - 300.1 μ g/m^3

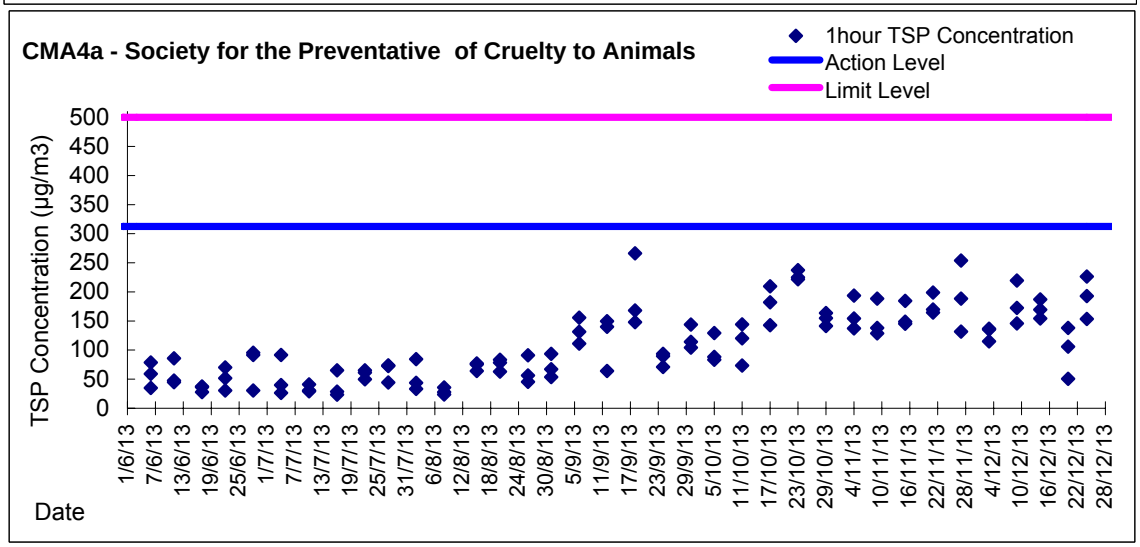
Limit Level - 500 μ g/m3

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		
3-Dec-13	8:48	Fine	006029	2.6327	2.6451	17030.51	17031.51	1.00	1.33	1.33	1.33	80	156
3-Dec-13	9:50	Fine	006031	2.6513	2.6627	17031.51	17032.51	1.00	1.33	1.33	1.33	80	143
3-Dec-13	13:00	Fine	005799	2.8548	2.8711	17032.51	17033.51	1.00	1.33	1.33	1.33	80	205
9-Dec-13	8:14	Fine	006467	2.7562	2.7733	17057.88	17058.88	1.00	1.32	1.32	1.32	79	216
9-Dec-13	9:45	Fine	006214	2.6613	2.6747	17058.88	17059.88	1.00	1.32	1.32	1.32	79	169
9-Dec-13	13:00	Fine	006215	2.6331	2.6467	17059.88	17060.88	1.00	1.32	1.32	1.32	79	171
14-Dec-13	8:20	Rainy	007568	2.6572	2.6686	17084.87	17085.87	1.00	1.33	1.33	1.33	80	143
14-Dec-13	9:25	Rainy	007552	2.6555	2.6688	17085.87	17086.87	1.00	1.33	1.33	1.33	80	167
14-Dec-13	10:30	Rainy	007555	2.6699	2.6758	17086.87	17087.87	1.00	1.33	1.33	1.33	80	74
20-Dec-13	8:25	Cloudy	007561	2.6484	2.6522	17111.87	17112.87	1.00	1.33	1.33	1.33	80	48
20-Dec-13	9:30	Cloudy	007564	2.6830	2.6936	17112.87	17113.87	1.00	1.33	1.33	1.33	80	133
20-Dec-13	10:35	Cloudy	007567	2.6696	2.6755	17113.87	17114.87	1.00	1.33	1.33	1.33	80	74
24-Dec-13	8:25	Rainy	007665	2.6666	2.6788	17138.87	17139.87	1.00	1.32	1.32	1.32	79	154
24-Dec-13	9:30	Rainy	007659	2.6367	2.6484	17139.87	17140.87	1.00	1.32	1.32	1.32	79	148
24-Dec-13	10:35	Rainy	007654	2.6442	2.6530	17140.87	17141.87	1.00	1.32	1.32	1.32	79	111

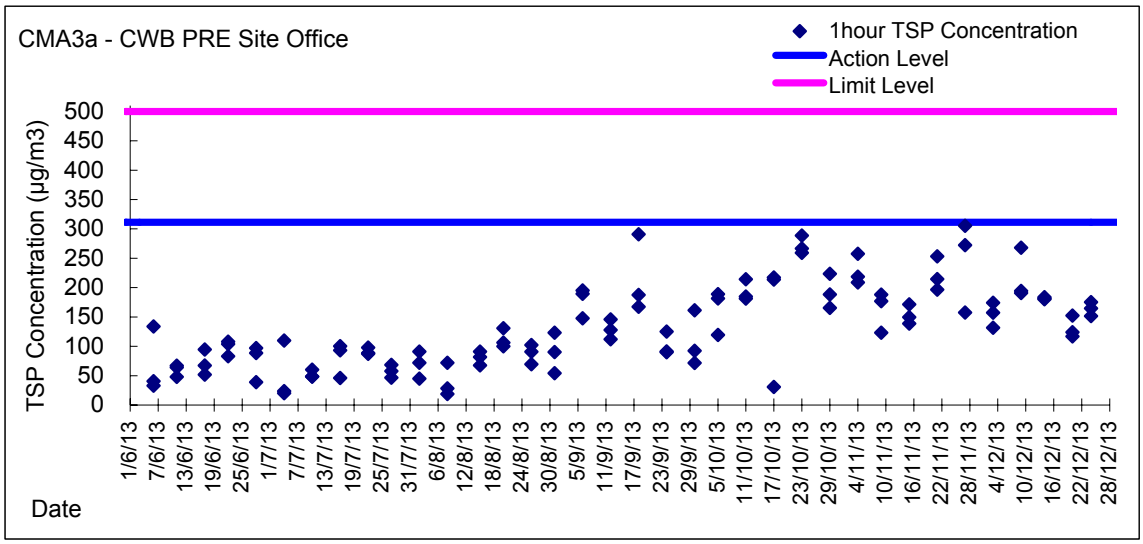
Graphic Presentation of 1 hour TSP Result

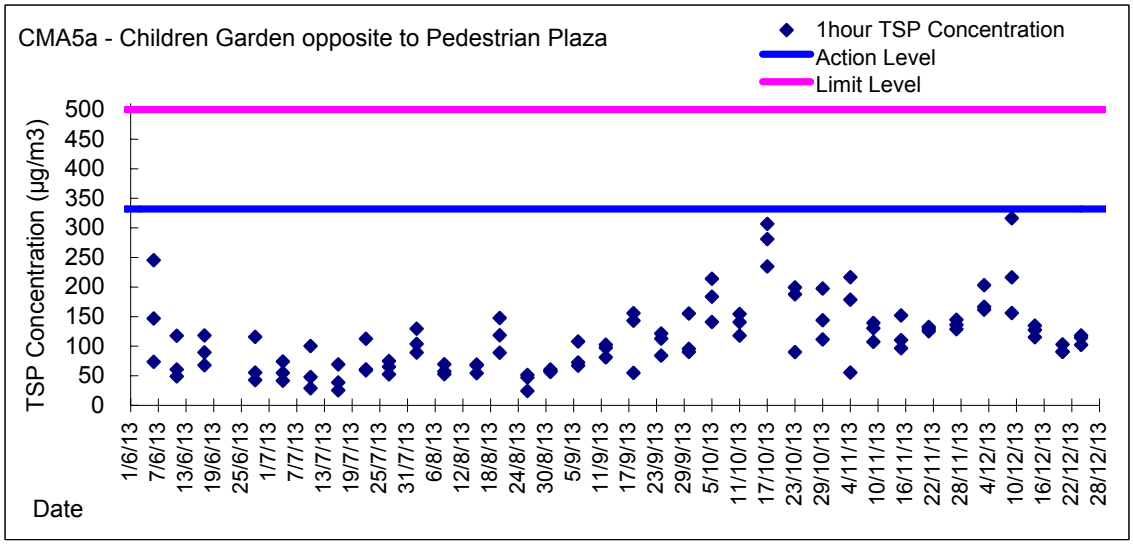


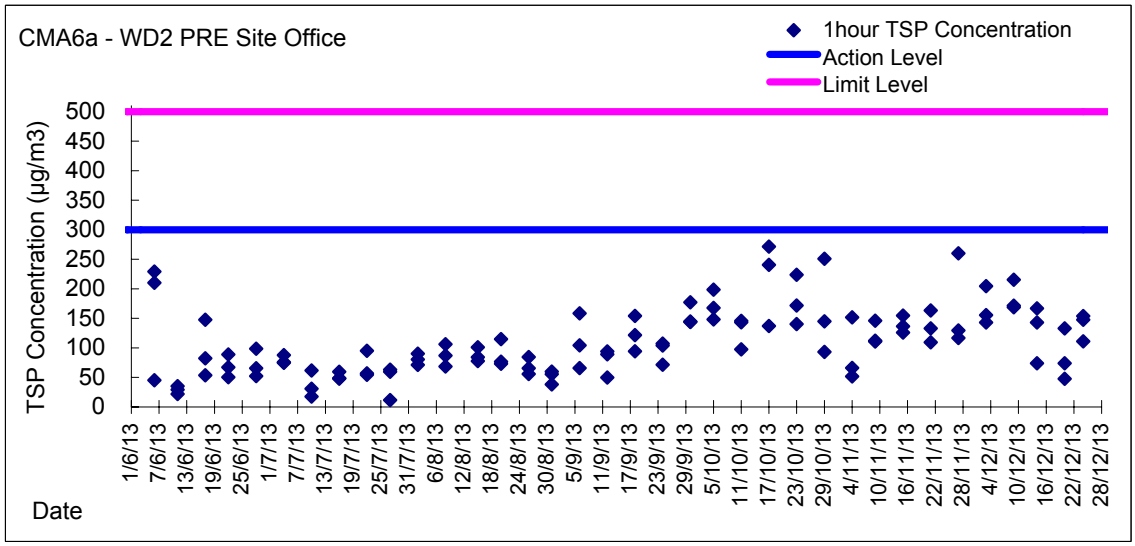




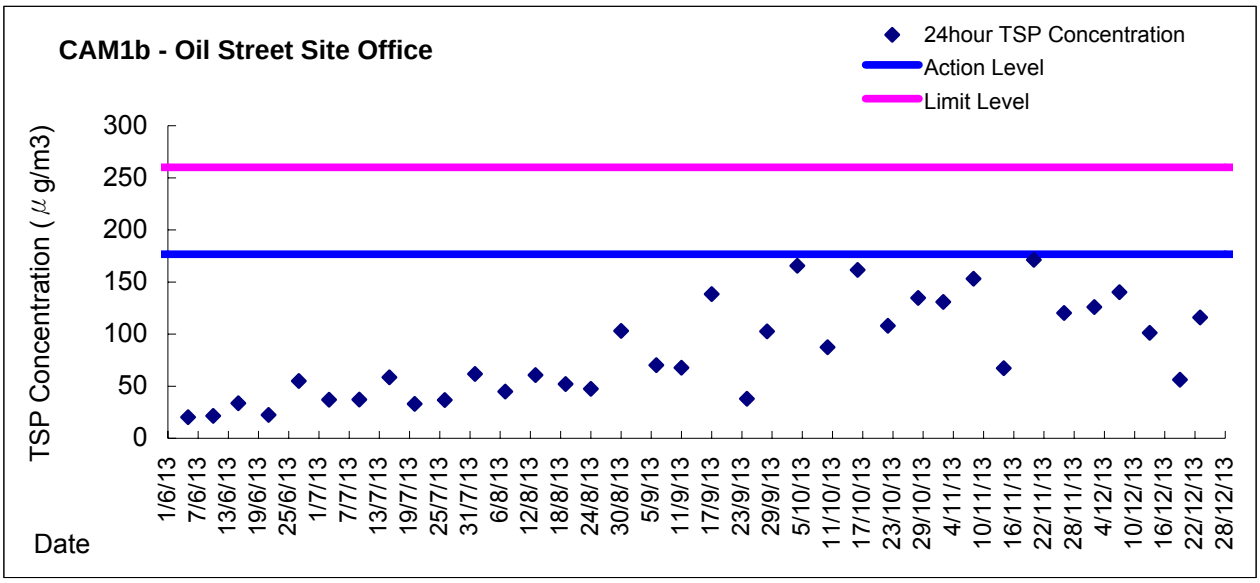
Graphic Presentation of 1 hour TSP Result

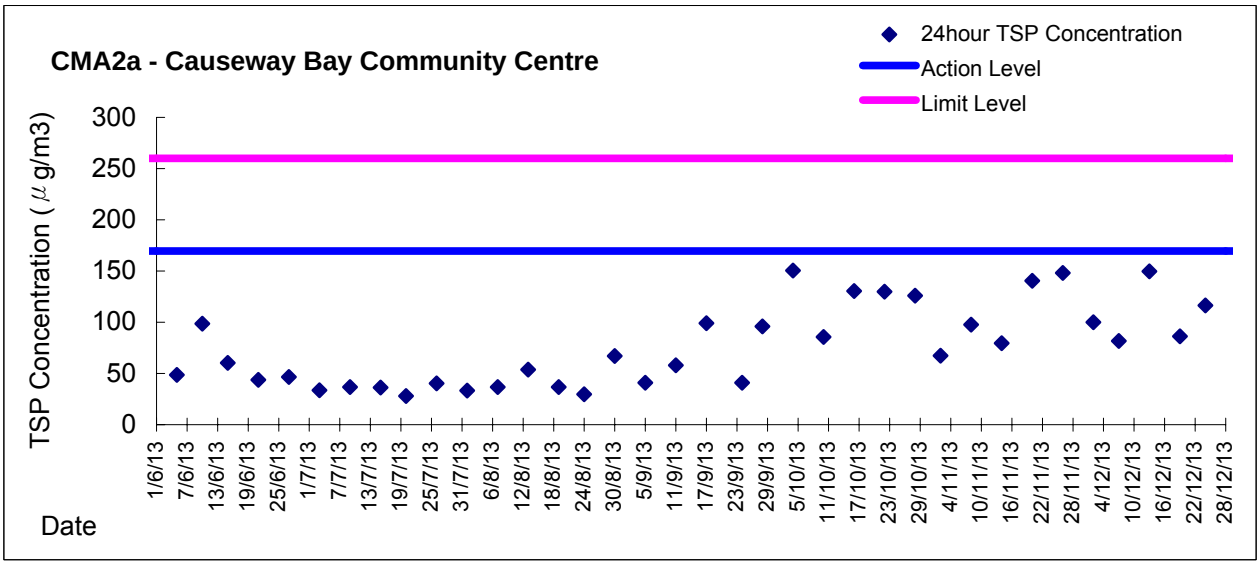


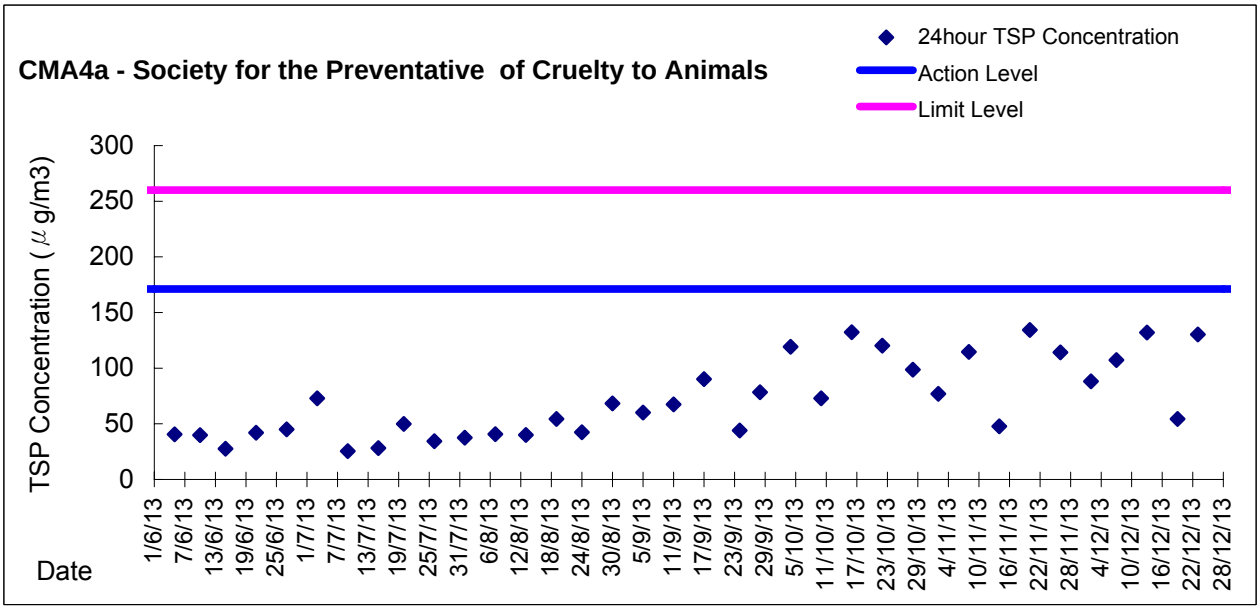




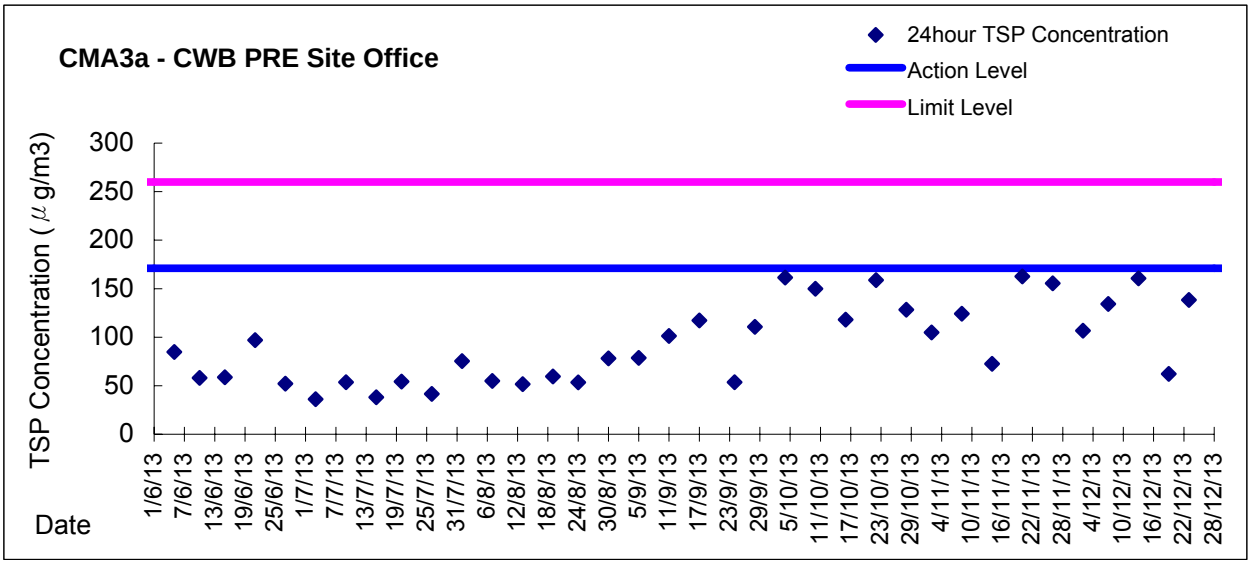
Graphic Presentation of 24 hour TSP Result

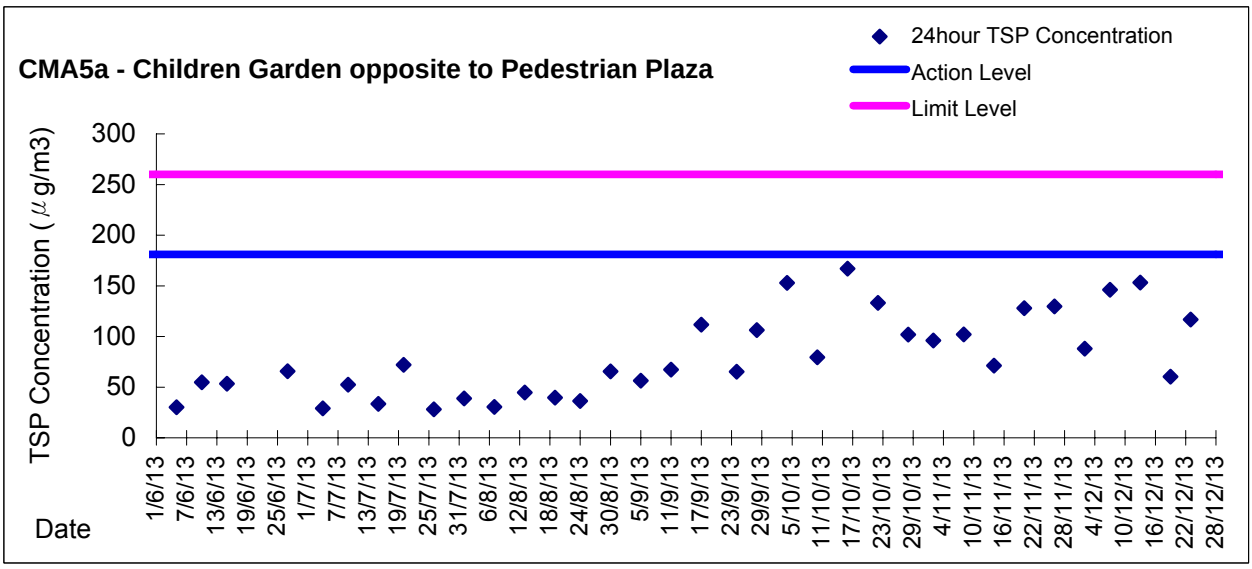


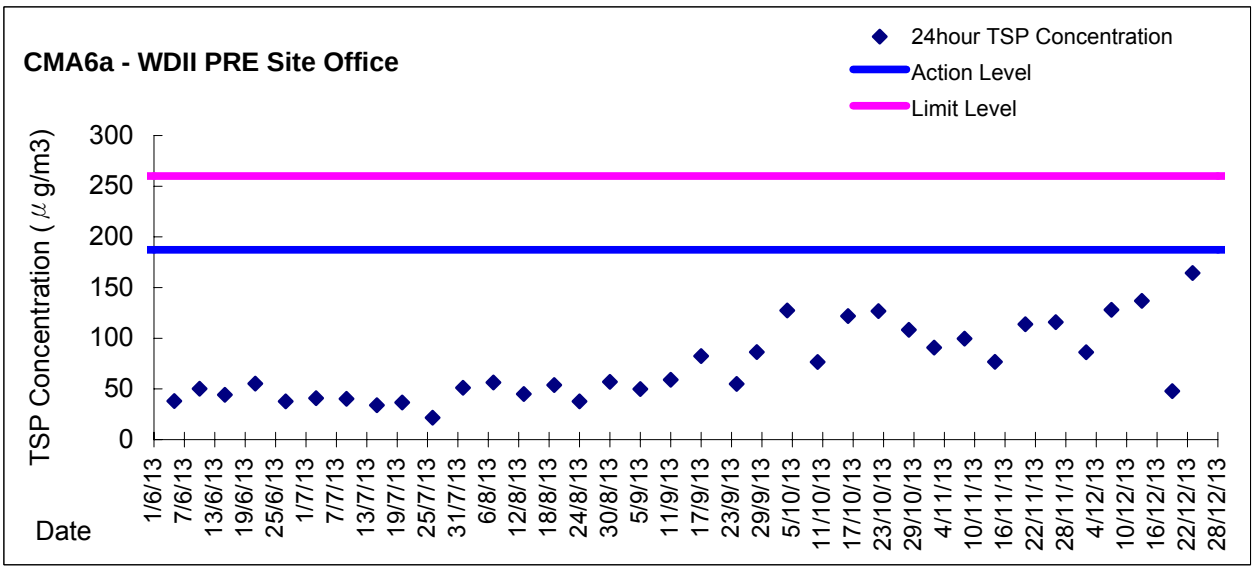




Graphic Presentation of 24 hour TSP Result







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 (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
28/11/2013	15:35	Fine	Middle	3.5	21.50	21.50	21.50	8.12	8.12	8.12	32.40	32.40	32.41	87.7	88.3	88.4	6.42	6.48	6.48	4.72	4.71	4.67	7	7.00
	15:37		Middle	3.5	21.50	21.50		8.12	8.12		32.41	32.41		88.8	88.9		6.50	6.51		4.69	4.57		7	
30/11/2013	17:20	Fine	Middle	3.5	20.90	20.90	20.80	8.19	8.19	8.19	32.35	32.35	32.36	86.4	88.1	88.0	6.40	6.52	6.52	4.73	4.71	4.72	4	4.00
	17:22		Middle	3.5	20.70	20.70		8.19	8.19		32.36	32.36		88.6	89.0		6.57	6.60		4.71	4.71		4	
2/12/2013	17:30	Fine	Middle	3.5	21.10	21.10	21.10	8.17	8.17	8.17	32.33	32.33	32.33	98.1	98.0	98.3	6.96	6.96	6.97	3.79	3.66	3.77	5	4.50
	17:32		Middle	3.5	21.10	21.10		8.17	8.17		32.33	32.33		98.4	98.6		6.98	6.99		3.81	3.82		4	
4/12/2013	18:05	Fine	Middle	2.5	20.60	20.60	20.58	8.23	8.23	8.23	33.32	33.32	33.30	85.5	85.7	85.1	6.33	6.35	6.30	4.12	4.22	4.16	4	4.00
	18:06		Middle	2.5	20.50	20.60		8.23	8.23		33.27	33.27		84.8	84.2		6.27	6.24		4.16	4.14		4	
7/12/2013	9:15	Fine	Middle	3.0	19.60	19.60	19.60	8.24	8.24	8.24	32.37	32.37	32.37	88.2	88.7	88.4	6.69	6.73	6.70	4.20	4.21	4.21	4	4.50
	9:17		Middle	3.0	19.60	19.60		8.23	8.23		32.37	32.37		88.6	88.0		6.72	6.67		4.21	4.21		5	
9/12/2013	8:45	Fine	Middle	3.0	20.90	20.90	20.90	8.50	8.50	8.50	32.86	32.86	32.86	88.8	88.3	88.3	6.54	6.51	6.51	4.97	4.98	5.04	20	**20.00**
	8:47		Middle	3.0	20.90	20.90		8.50	8.50		32.86	32.86		88.1	88.0		6.50	6.50		5.11	5.11		20	
11/12/2013	10:20	Fine	Middle	2.5	19.80	19.80	19.80	8.19	8.19	8.19	32.75	32.75	32.76	89.8	90.5	89.8	6.76	6.85	6.76	6.42	6.43	6.42	<2	<2
	10:22		Middle	2.5	19.80	19.80		8.19	8.19		32.76	32.76		89.6	89.1		6.73	6.70		6.42	6.41		<2	
13/12/2013	12:20	Cloudy	Middle	3.0	20.80	20.80	20.80	8.16	8.16	8.16	31.45	31.45	31.56	87.2	87.1	87.1	6.42	6.41	6.41	3.66	3.65	3.65	3	4.00
	12:22		Middle	3.0	20.80	20.80		8.16	8.16		31.67	31.67		87.0	87.0		6.40	6.39		3.65	3.63		5	
16/12/2013	17:39	Cloudy	Middle	3.0	18.90	18.90	18.90	8.15	8.15	8.15	33.49	33.49	33.49	84.1	84.0	84.5	6.40	6.40	6.44	6.61	6.60	6.50	4	5.00
	17:41		Middle	3.0	18.90	18.90		8.15	8.15		33.49	33.49		84.9	84.8		6.47	6.47		6.50	6.30		6	
18/12/2013	18:45	Fine	Middle	3.5	17.70	17.70	17.70	8.45	8.45	8.45	35.86	35.86	35.86	96.7	96.4	96.1	7.44	7.42	7.40	2.90	2.90	2.91	5	5.00
	18:47		Middle	3.5	17.70	17.70		8.45	8.45		35.85	35.86		95.4	95.9		7.35	7.39		2.91	2.93		5	
21/12/2013	8:15	Fine	Middle	2.5	17.70	17.70	17.70	8.28	8.28	8.28	36.06	36.06	36.06	88.3	88.2	88.0	6.80	6.79	6.78	8.39	8.42	**8.45**	7	7.00
	8:17		Middle	2.5	17.70	17.70		8.28	8.28		36.06	36.06		87.9	87.5		6.78	6.75		8.49	8.49		7	
24/12/2013	8:05	Fine	Middle	2.5	16.50	16.50	16.50	8.31	8.31	8.31	36.10	36.10	36.10	83.6	84.4	84.0	6.58	6.66	6.63	6.90	6.87	6.86	4	4.50
	8:07		Middle	2.5	16.50	16.50		8.31	8.31		36.10	36.10		83.8	84.2		6.62	6.65		6.83	6.82		5	
26/12/2013	13:25	Fine	Middle	2.5	18.00	18.00	17.98	8.25	8.25	8.25	33.76	33.76	33.77	87.9	88.2	88.0	6.82	6.86	6.83	4.32	4.02	4.05	5	5.50
	13:26		Middle	2.5	17.90	18.00		8.25	8.25		33.77	33.77		88.2	87.6		6.85	6.77		3.96	3.89		6	

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 (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
28/11/2013	11:30	Fine	Middle	3.0	20.90	20.90	20.85	8.07	8.07	8.08	31.98	31.98	31.98	83.2	83.8	83.5	6.17	6.22	6.21	3.41	3.44	3.43	6	6.50
	11:32		Middle	3.0	20.80	20.80		8.09	8.09		31.98	31.98		83.0	83.9		6.21	6.23		3.45	3.43		7	
30/11/2013	15:30	Fine	Middle	2.5	20.60	20.60	20.60	8.17	8.17	8.18	32.38	32.38	32.39	91.3	91.9	92.0	6.79	6.84	6.85	6.16	6.16	6.14	8	8.00
	15:32		Middle	2.5	20.60	20.60		8.18	8.18		32.39	32.39		92.3	92.4		6.87	6.88		6.15	6.10		8	
2/12/2013	16:00	Fine	Middle	3.5	20.40	20.40	20.40	8.16	8.16	8.16	32.42	32.42	32.42	86.2	87.3	87.0	6.42	6.51	6.48	4.15	4.12	4.09	5	4.00
	16:02		Middle	3.5	20.40	20.40		8.16	8.16		32.42	32.42		87.2	87.1		6.49	6.50		4.06	4.02		3	
4/12/2013	19:55	Fine	Middle	3.5	20.20	20.20	20.15	8.26	8.26	8.26	33.44	33.44	33.48	85.8	85.4	85.5	6.39	6.32	6.28	4.93	5.06	5.06	4	4.00
	19:56		Middle	3.5	20.10	20.10		8.26	8.26		33.52	33.52		85.9	85.0		6.10	6.31		5.15	5.10		4	
7/12/2013	10:05	Fine	Middle	3.0	20.40	20.40	20.40	8.21	8.21	8.21	32.68	32.68	32.68	91.1	90.7	91.0	6.78	6.76	6.77	8.00	7.69	7.80	14	**14.50**
	10:07		Middle	3.0	20.40	20.40		8.21	8.21		32.68	32.68		91.1	90.9		6.78	6.77		7.73	7.79		15	
9/12/2013	10:00	Fine	Middle	3.0	21.10	21.10	21.10	8.13	8.13	8.13	32.39	32.39	32.39	80.1	79.0	79.5	5.89	5.82	5.85	3.83	3.83	3.83	6	11.50
	10:02		Middle	3.0	21.10	21.10		8.13	8.13		32.39	32.39		79.0	79.7		5.81	5.87		3.84	3.80		17	
11/12/2013	11:20	Fine	Middle	3.5	20.40	20.40	20.40	8.17	8.17	8.17	32.58	32.58	32.59	87.2	86.0	86.3	5.50	5.41	5.45	3.00	2.95	2.95	4	4.00
	11:24		Middle	3.5	20.40	20.40		8.17	8.17		32.59	32.59		86.2	85.9		5.43	5.46		2.94	2.92		4	
13/12/2013	13:29	Cloudy	Middle	3.0	20.70	20.70	20.70	8.23	8.23	8.23	33.66	33.66	33.66	88.2	88.6	88.3	6.49	6.52	6.49	3.56	3.56	3.56	2	2.00
	13:32		Middle	3.0	20.70	20.70		8.23	8.23		33.66	33.66		88.4	87.8		6.50	6.46		3.57	3.56		2	
16/12/2013	16:30	Cloudy	Middle	2.5	18.90	18.90	18.80	8.30	8.30	8.31	33.32	33.32	33.47	85.1	85.6	85.2	6.50	6.53	6.50	7.01	7.01	7.02	4	4.50
	16:32		Middle	2.5	18.70	18.70		8.32	8.32		33.61	33.61		85.0	85.0		6.49	6.49		7.02	7.02		5	
18/12/2013	16:50	Fine	Middle	3.0	17.70	17.70	17.70	8.33	8.33	8.33	35.71	35.71	35.71	92.4	92.5	92.4	7.11	7.13	7.11	4.31	4.31	4.30	8	6.50
	16:52		Middle	3.0	17.70	17.70		8.33	8.33		35.71	35.71		91.9	92.8		7.08	7.11		4.30	4.27		5	
21/12/2013	9:10	Fine	Middle	3.0	17.90	17.90	17.90	8.55	8.55	8.55	36.09	36.09	36.09	89.5	90.3	89.5	6.84	6.90	6.85	7.87	7.87	7.86	11	10.00
	9:12		Middle	3.0	17.90	17.90		8.55	8.55		36.09	36.09		89.2	89.0		6.83	6.81		7.87	7.83		9	
24/12/2013	9:15	Fine	Middle	3.0	17.80	17.80	17.80	8.50	8.50	8.50	35.93	35.93	35.95	89.7	89.5	89.2	6.88	6.87	6.85	5.43	5.41	5.39	7	6.00
	9:17		Middle	3.0	17.80	17.80		8.50	8.50		35.96	35.96		89.2	88.5		6.85	6.80		5.40	5.30		5	
26/12/2013	9:30	Fine	Middle	3.0	17.60	17.60	17.55	8.26	8.26	8.26	31.33	31.33	31.33	71.4	72.1	72.4	5.66	5.71	5.73	4.07	3.89	3.84	10	10.00
	9:31		Middle	3.0	17.50	17.50		8.26	8.26		31.33	31.33		72.9	73.0		5.78	5.78		3.67	3.74		10	

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 (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
28/11/2013	14:15	Fine	Middle	1.5	21.40	21.40	21.40	7.97	7.97	7.97	31.09	31.09	31.09	57.5	58.2	58.1	4.25	4.30	4.30	1.25	1.26	1.24	6	5.50
	14:17		Middle	1.5	21.40	21.40		7.97	7.97		31.09	31.09		58.2	58.6		4.30	4.33		1.25	1.21		5	
30/11/2013	15:02	Fine	Middle	1.5	21.00	21.00	21.00	8.06	8.06	8.05	31.32	31.32	31.32	60.1	60.5	60.5	4.47	4.50	4.50	3.78	3.76	3.75	3	3.00
	15:04		Middle	1.5	21.00	21.00		8.04	8.04		31.32	31.32		60.7	60.7		4.51	4.50		3.74	3.73		3	
2/12/2013	15:30	Fine	Middle	1.5	21.60	21.60	21.60	8.06	8.06	8.06	31.74	31.74	31.74	70.1	70.4	70.5	5.16	5.17	5.17	5.53	5.45	5.46	3	4.00
	15:32		Middle	1.5	21.60	21.60		8.06	8.06		31.74	31.74		70.7	70.8		5.17	5.18		5.42	5.42		5	
4/12/2013	19:25	Fine	Middle	1.5	20.00	20.00	19.95	8.13	8.13	8.13	32.75	32.75	32.75	69.4	70.6	70.0	5.21	5.31	5.26	14.78	14.81	14.76	23	**23.00**
	19:26		Middle	1.5	19.90	19.90		8.13	8.13		32.76	32.75		69.9	70.1		5.25	5.27		14.75	14.70		23	
7/12/2013	11:32	Fine	Middle	1.5	20.90	20.90	20.90	8.05	8.05	8.05	31.68	31.68	31.68	62.5	62.6	62.4	4.64	4.64	4.63	2.85	2.81	2.81	4	4.00
	11:34		Middle	1.5	20.90	20.90		8.05	8.05		31.68	31.68		62.3	62.3		4.62	4.62		2.78	2.80		4	
9/12/2013	12:47	Fine	Middle	1.5	22.00	22.00	22.15	8.02	8.02	8.01	31.89	31.89	31.89	63.1	63.5	64.6	4.58	4.61	4.68	4.85	4.88	4.90	11	11.00
	12:49		Middle	1.5	22.30	22.30		8.00	8.00		31.89	31.89		65.0	66.7		4.70	4.83		4.91	4.95		11	
11/12/2013	16:17	Fine	Middle	1.5	21.50	21.50	21.60	8.03	8.03	8.02	31.81	31.81	31.81	61.5	62.1	61.6	4.50	4.54	4.51	3.06	3.04	3.04	4	3.50
	16:19		Middle	1.5	21.70	21.70		8.01	8.01		31.80	31.80		61.6	61.3		4.50	4.48		3.03	3.02		3	
13/12/2013	15:47	Cloudy	Middle	1.5	20.80	20.80	20.80	8.14	8.14	8.14	32.63	32.63	32.62	59.7	59.8	60.0	4.41	4.43	4.44	3.21	3.18	3.17	2	2.00
	15:49		Middle	1.5	20.80	20.80		8.14	8.14		32.60	32.60		60.3	60.1		4.46	4.45		3.14	3.13		2	
16/12/2013	15:52	Cloudy	Middle	1.5	18.10	18.10	18.10	8.23	8.23	8.23	32.05	32.05	32.05	62.1	62.6	62.8	4.85	4.89	4.91	39.13	39.13	**39.13**	66	**65.50**
	15:54		Middle	1.5	18.10	18.10		8.23	8.23		32.05	32.05		63.4	63.2		4.96	4.94		39.13	39.14		65	
18/12/2013	16:22	Fine	Middle	1.5	18.20	18.20	18.20	8.35	8.35	8.35	34.19	34.19	34.19	64.7	65.4	65.3	4.98	5.03	5.03	2.50	2.51	2.51	2	2.00
	16:24		Middle	1.5	18.20	18.20		8.35	8.35		34.19	34.19		65.4	65.6		5.04	5.05		2.50	2.52		<2	
21/12/2013	10:32	Fine	Middle	1.5	18.40	18.40	18.40	8.47	8.47	8.47	35.14	35.14	35.14	71.4	72.0	71.8	5.44	5.48	5.47	5.19	5.20	5.22	4	4.50
	10:34		Middle	1.5	18.40	18.40		8.47	8.47		35.14	35.14		72.1	71.6		5.49	5.46		5.22	5.25		5	
24/12/2013	12:02	Fine	Middle	1.5	18.50	18.50	18.50	8.42	8.42	8.42	35.26	35.26	35.27	56.1	56.8	56.7	4.29	4.31	4.31	4.08	4.09	4.08	5	4.00
	12:04		Middle	1.5	18.50	18.50		8.41	8.41		35.27	35.27		56.8	57.1		4.31	4.34		4.08	4.06		3	
26/12/2013	10:20	Fine	Middle	1.0	17.60	17.60	17.55	8.32	8.32	8.32	31.97	31.96	32.01	62.8	63.4	63.2	4.95	5.00	4.99	6.93	6.98	6.96	6	6.50
	10:21		Middle	1.0	17.50	17.50		8.31	8.31		32.05	32.05		63.6	63.0		5.02	4.98		6.97	6.95		7	

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 °C			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			Suspended Solids mg/L	
			m		Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2013	13:53	Fine	Middle	2.0	21.60	21.60	21.60	8.39	8.39	8.39	35.20	35.20	35.20	65.8	66.1	66.2	4.72	4.75	4.76	5.80	5.72	5.70	5	5.00
	13:55		Middle	2.0	21.60	21.60		8.39	8.39		35.20	35.20		66.8	66.1		4.81	4.76		5.69	5.57		5	
30/11/2013	15:48	Fine	Middle	2.0	21.00	21.00	21.00	8.42	8.42	8.42	35.12	35.12	35.21	55.0	55.0	54.8	3.99	3.99	3.97	5.70	5.70	5.72	4	4.50
	15:50		Middle	2.0	21.00	21.00		8.42	8.42		35.30	35.30		54.8	54.3		3.97	3.94		5.70	5.78		5	
2/12/2013	15:42	Fine	Middle	2.5	20.60	20.60	20.60	8.60	8.60	8.60	35.40	35.40	35.40	68.9	68.7	68.8	5.04	5.03	5.04	4.72	4.73	4.73	4	4.00
	15:44		Middle	2.5	20.60	20.60		8.60	8.60		35.40	35.40		68.3	69.2		5.01	5.07		4.72	4.73		4	
4/12/2013	18:43	Fine	Middle	3.0	20.60	20.60	20.50	8.40	8.40	8.40	35.44	35.44	35.44	68.9	68.6	68.4	5.04	5.02	5.01	4.59	4.55	4.55	5	5.00
	18:45		Middle	3.0	20.40	20.40		8.39	8.39		35.44	35.44		68.1	67.9		4.99	4.98		4.54	4.50		5	
7/12/2013	10:38	Fine	Middle	2.0	20.70	20.70	20.70	8.39	8.39	8.40	35.53	35.53	35.54	68.4	69.3	68.7	4.98	5.05	5.01	5.31	5.33	5.31	12	11.50
	10:40		Middle	2.0	20.70	20.70		8.40	8.40		35.54	35.54		68.8	68.3		5.01	4.98		5.33	5.27		11	
9/12/2013	11:15	Fine	Middle	2.5	21.00	21.00	21.00	8.39	8.39	8.39	35.43	35.43	35.43	68.7	68.8	68.9	4.98	4.98	4.99	5.34	5.32	5.30	9	9.00
	11:17		Middle	2.5	21.00	21.00		8.38	8.38		35.43	35.43		69.0	69.1		5.00	5.01		5.26	5.27		9	
11/12/2013	14:23	Fine	Middle	3.0	20.60	20.60	20.60	8.43	8.43	8.43	35.57	35.57	35.57	70.1	71.2	70.6	5.12	5.20	5.16	3.21	3.21	3.21	3	3.00
	14:25		Middle	3.0	20.60	20.60		8.43	8.43		35.57	35.57		71.0	70.0		5.18	5.13		3.21	3.21		3	
13/12/2013	15:25	Cloudy	Middle	2.5	20.80	20.80	20.80	8.19	8.19	8.18	32.60	32.60	32.60	76.0	74.1	75.0	5.62	5.48	5.55	4.07	4.10	4.11	4	3.50
	15:27		Middle	2.5	20.80	20.80		8.16	8.16		32.60	32.60		75.1	74.7		5.56	5.52		4.13	4.14		3	
16/12/2013	16:21	Cloudy	Middle	2.5	19.60	19.60	19.60	8.19	8.19	8.19	32.37	32.37	32.38	80.7	81.1	81.1	6.13	6.17	6.17	5.66	5.68	5.67	3	3.00
	16:23		Middle	2.5	19.60	19.60		8.19	8.19		32.38	32.38		81.3	81.4		6.19	6.20		5.67	5.68		3	
18/12/2013	15:50	Fine	Middle	2.0	18.80	18.80	14.10	8.24	8.24	8.24	32.56	32.56	32.56	80.6	81.8	81.7	6.20	6.30	6.29	4.61	4.63	4.61	4	4.50
	15:52		Middle	2.0	0.00	18.80		8.24	8.24		32.56	32.56		82.0	82.5		6.31	6.35		4.61	4.60		5	
21/12/2013	10:07	Fine	Middle	2.0	18.80	18.80	18.80	8.24	8.24	8.24	32.78	32.78	32.78	73.6	74.9	75.1	5.66	5.77	5.79	5.53	5.53	5.51	6	6.00
	10:09		Middle	2.0	18.80	18.80		8.24	8.24		32.78	32.78		75.7	76.3		5.83	5.88		5.50	5.49		6	
24/12/2013	11:39	Fine	Middle	2.5	18.50	18.50	18.50	8.20	8.20	8.20	32.81	32.81	32.81	74.2	74.7	74.8	5.73	5.76	5.77	5.79	5.80	5.81	5	5.00
	11:40		Middle	2.5	18.50	18.50		8.20	8.20		32.81	32.81		74.8	75.3		5.77	5.81		5.82	5.84		5	
26/12/2013	10:15	Fine	Middle	2.5	18.00	18.00	17.90	8.19	8.19	8.19	32.80	32.80	32.80	72.8	72.5	72.4	5.67	5.65	5.65	4.99	4.94	4.91	8	7.00
	10:17		Middle	2.5	17.80	17.80		8.19	8.19		32.79	32.79		72.3	72.0		5.64	5.63		4.88	4.83		6	

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
28/11/2013	14:26	Fine	Middle	3.0	21.70	21.70	21.75	8.37	8.37	8.37	35.24	35.24	35.24	63.1	63.8	63.6	4.53	4.58	4.56	4.70	4.71	4.69	5	6.00
	14:28		Middle	3.0	21.80	21.80		8.37	8.37		35.24	35.24		63.7	63.6		4.57	4.56		4.69	4.67		7	
30/11/2013	16:20	Fine	Middle	3.0	21.60	21.60	21.55	8.39	8.39	8.40	35.28	35.29	35.31	62.1	61.2	61.9	4.46	4.40	4.45	5.83	5.84	5.81	7	7.00
	16:22		Middle	3.0	21.50	21.50		8.40	8.40		35.33	35.33		61.9	62.3		4.45	4.48		5.82	5.73		7	
2/12/2013	16:16	Fine	Middle	3.0	21.10	21.10	21.10	8.45	8.45	8.45	35.47	35.47	35.47	69.4	70.0	69.8	5.02	5.07	5.05	5.21	5.22	5.23	3	3.50
	16:18		Middle	3.0	21.10	21.10		8.45	8.45		35.47	35.47		69.9	70.0		5.03	5.07		5.24	5.23		4	
4/12/2013	19:34	Fine	Middle	3.0	20.50	20.50	20.45	8.38	8.38	8.39	35.49	35.49	35.50	71.1	70.8	70.7	5.21	5.20	5.20	7.57	7.54	7.52	6	6.00
	19:36		Middle	3.0	20.40	20.40		8.39	8.39		35.50	35.50		70.7	70.3		5.20	5.17		7.52	7.44		6	
7/12/2013	11:15	Fine	Middle	2.5	20.80	20.80	20.75	8.38	8.38	8.39	35.57	35.57	35.56	68.0	67.4	67.5	4.94	4.90	4.91	4.29	4.25	4.23	9	8.00
	11:17		Middle	2.5	20.70	20.70		8.39	8.39		35.56	35.55		66.9	67.5		4.87	4.91		4.19	4.17		7	
9/12/2013	11:50	Fine	Middle	2.5	21.40	21.40	21.40	8.36	8.36	8.36	35.49	35.49	35.49	75.2	75.7	75.9	5.42	5.44	5.44	5.08	5.07	5.05	6	6.50
	11:52		Middle	2.5	21.40	21.40		8.36	8.36		35.49	35.49		76.3	76.4		5.43	5.47		5.01	5.02		7	
11/12/2013	14:58	Fine	Middle	2.5	20.70	20.70	20.70	8.37	8.37	8.38	35.58	35.57	35.58	70.5	72.6	72.1	5.14	5.30	5.26	3.63	3.63	3.63	<2	<2
	15:00		Middle	2.5	20.70	20.70		8.38	8.38		35.57	35.58		72.9	72.2		5.32	5.26		3.63	3.63		<2	
13/12/2013	16:00	Cloudy	Middle	3.0	20.90	20.90	20.90	8.15	8.15	8.14	32.51	32.51	32.55	72.8	71.5	71.8	5.37	5.27	5.30	3.43	3.40	3.37	4	4.50
	16:02		Middle	3.0	20.90	20.90		8.13	8.13		32.58	32.58		71.3	71.7		5.26	5.29		3.33	3.31		5	
16/12/2013	16:43	Cloudy	Middle	3.0	19.50	19.50	19.55	8.16	8.16	8.16	32.15	32.15	32.15	75.3	76.6	77.0	5.74	5.86	5.88	3.72	3.71	3.70	3	3.00
	16:45		Middle	3.0	19.60	19.60		8.16	8.16		32.15	32.15		78.0	78.0		5.95	5.96		3.68	3.69		3	
18/12/2013	16:22	Fine	Middle	2.5	19.00	19.00	19.00	8.20	8.20	8.20	32.56	32.56	32.56	84.6	84.0	84.9	6.50	6.45	6.54	4.13	4.66	4.30	4	4.00
	16:24		Middle	2.5	19.00	19.00		8.20	8.20		32.56	32.56		85.5	85.6		6.59	6.60		4.19	4.23		4	
21/12/2013	10:38	Fine	Middle	2.5	18.90	18.90	18.90	8.22	8.22	8.22	32.78	32.78	32.78	75.6	75.7	75.4	5.81	5.82	5.80	4.07	4.08	4.08	4	4.00
	10:40		Middle	2.5	18.90	18.90		8.22	8.22		32.78	32.78		75.4	74.9		5.79	5.79		4.06	4.09		4	
24/12/2013	11:10	Fine	Middle	2.5	18.70	18.70	18.70	8.25	8.25	8.25	32.88	32.88	32.88	84.0	83.0	83.1	6.46	6.38	6.39	5.33	5.34	5.34	5	5.00
	11:12		Middle	2.5	18.70	18.70		8.25	8.25		32.88	32.88		82.6	82.8		6.35	6.37		5.32	5.36		5	
26/12/2013	10:53	Fine	Middle	2.5	17.60	17.60	17.50	8.19	8.19	8.19	32.83	32.83	32.83	77.5	77.0	76.8	6.09	6.06	6.05	4.30	4.28	4.26	6	6.00
	10:55		Middle	2.5	17.40	17.40		8.19	8.19		32.83	32.83		76.6	76.2		6.04	6.01		4.25	4.22		6	

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
28/11/2013	14:17	Fine	Middle	2.5	21.40	21.40	21.40	8.36	8.36	8.36	35.23	35.23	35.23	65.4	65.6	65.8	4.74	4.76	4.78	3.99	4.01	4.07	6	5.50
	14:19		Middle	2.5	21.40	21.40		8.36	8.36		35.23	35.23		66.2	66.1		4.81	4.80		4.13	4.15		5	
30/11/2013	16:10	Fine	Middle	3.0	21.60	21.60	21.50	8.40	8.40	8.40	35.15	35.15	35.17	56.8	56.2	55.8	4.09	4.04	4.01	3.22	3.21	3.21	3	2.50
	16:12		Middle	3.0	21.40	21.40		8.40	8.40		35.18	35.18		55.4	54.6		3.99	3.93		3.21	3.21		2	
2/12/2013	16:07	Fine	Middle	2.5	20.80	20.80	20.80	8.47	8.47	8.47	35.45	35.45	35.45	69.6	69.5	69.7	5.06	5.05	5.07	5.11	5.10	5.09	4	4.00
	16:09		Middle	2.5	20.80	20.80		8.47	8.47		35.45	35.45		69.8	69.8		5.08	5.08		5.08	5.07		4	
4/12/2013	19:21	Fine	Middle	3.0	20.50	20.50	20.40	8.38	8.38	8.38	35.50	35.50	35.49	69.9	69.4	69.4	5.12	5.10	5.10	4.18	4.15	4.14	6	5.50
	19:23		Middle	3.0	20.30	20.30		8.37	8.37		35.48	35.48		69.2	69.1		5.09	5.09		4.11	4.12		5	
7/12/2013	11:05	Fine	Middle	2.5	20.50	20.50	20.45	8.39	8.39	8.39	35.47	35.47	35.48	64.1	64.4	64.6	4.70	4.71	4.73	4.63	4.55	4.56	8	8.00
	11:07		Middle	2.5	20.40	20.40		8.38	8.38		35.48	35.48		65.0	64.7		4.76	4.73		4.53	4.52		8	
9/12/2013	11:42	Fine	Middle	2.5	20.90	20.90	20.90	8.37	8.37	8.37	35.44	35.44	35.44	70.6	71.4	70.7	5.13	5.18	5.14	4.28	4.16	4.18	7	7.00
	11:44		Middle	2.5	20.90	20.90		8.37	8.37		35.44	35.44		70.6	70.2		5.13	5.10		4.11	4.15		7	
11/12/2013	14:50	Fine	Middle	2.5	20.70	20.70	20.65	8.39	8.39	8.39	35.56	35.55	35.56	71.3	71.1	71.3	5.24	5.20	5.22	2.66	2.65	2.64	<2	<2
	14:52		Middle	2.5	20.60	20.60		8.39	8.39		35.56	35.55		70.1	72.7		5.13	5.32		2.61	2.62		<2	
13/12/2013	15:49	Cloudy	Middle	3.0	20.70	20.70	20.65	8.14	8.14	8.14	32.60	32.60	32.62	79.1	78.2	77.7	5.86	5.79	5.76	3.27	3.23	3.23	4	4.00
	15:51		Middle	3.0	20.60	20.60		8.13	8.13		32.63	32.63		77.3	76.2		5.73	5.65		3.22	3.21		4	
16/12/2013	16:41	Cloudy	Middle	3.0	19.60	19.60	19.60	8.17	8.17	8.17	32.40	32.40	32.40	77.4	79.9	79.6	5.97	5.97	6.05	3.51	3.55	3.53	3	3.50
	16:43		Middle	3.0	19.60	19.60		8.17	8.17		32.40	32.40		80.5	80.7		6.11	6.13		3.57	3.49		4	
18/12/2013	16:15	Fine	Middle	2.5	19.10	19.10	19.10	8.21	8.21	8.21	32.56	32.56	32.56	82.2	82.6	82.4	6.30	6.35	6.33	4.88	4.87	4.84	8	6.50
	16:17		Middle	2.5	19.10	19.10		8.21	8.21		32.56	32.56		82.4	82.5		6.33	6.33		4.80	4.79		5	
21/12/2013	10:30	Fine	Middle	2.5	18.80	18.80	18.80	8.23	8.23	8.23	32.75	32.75	32.77	79.7	79.5	79.7	7.45	7.27	7.41	4.49	4.48	4.48	4	5.00
	10:33		Middle	2.5	18.80	18.80		8.23	8.23		32.79	32.79		79.8	79.6		7.47	7.45		4.47	4.46		6	
24/12/2013	11:15	Fine	Middle	2.5	18.60	18.60	18.60	8.22	8.22	8.22	32.84	32.84	32.84	79.9	80.2	80.5	6.17	6.20	6.22	5.83	5.84	5.84	5	5.50
	11:17		Middle	2.5	18.60	18.60		8.22	8.22		32.84	32.84		80.8	80.9		6.24	6.25		5.85	5.83		6	
26/12/2013	10:41	Fine	Middle	2.5	17.80	17.80	17.70	8.20	8.20	8.20	32.76	32.76	32.77	77.4	77.2	77.1	6.06	6.05	6.05	4.15	4.14	4.13	4	4.00
	10:43		Middle	2.5	17.60	17.60		8.20	8.20		32.77	32.77		77.0	76.8		6.04	6.03		4.14	4.07		4	

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
28/11/2013	14:09	Fine	Middle	2.5	21.70	21.70	21.70	8.39	8.39	8.39	35.21	35.21	35.21	62.5	63.1	63.8	4.50	4.57	4.60	6.79	6.81	6.79	7	8.00
	14:11		Middle	2.5	21.70	21.70		8.39	8.39		35.21	35.21		64.6	65.1		4.65	4.69		6.84	6.73		9	
30/11/2013	16:00	Fine	Middle	2.5	21.20	21.20	21.15	8.41	8.41	8.41	35.21	35.22	35.24	61.4	60.9	61.6	4.44	4.40	4.46	4.11	4.08	4.05	4	4.00
	16:02		Middle	2.5	21.10	21.10		8.41	8.41		35.27	35.27		62.0	62.2		4.49	4.50		4.07	3.95		4	
2/12/2013	15:57	Fine	Middle	2.5	20.60	20.60	20.55	8.49	8.49	8.49	35.37	35.37	35.37	68.1	69.0	68.7	4.99	5.06	5.05	4.40	4.41	4.41	4	3.50
	15:59		Middle	2.5	20.50	20.50		8.49	8.49		35.37	35.37		68.8	68.9		5.04	5.09		4.40	4.41		3	
4/12/2013	19:04	Fine	Middle	3.0	20.60	20.60	20.50	8.39	8.39	8.39	35.44	35.44	35.44	72.1	71.8	71.6	5.27	5.25	5.24	4.74	4.72	4.71	6	6.00
	19:06		Middle	3.0	20.40	20.40		8.39	8.39		35.44	35.44		71.3	71.1		5.23	5.22		4.72	4.67		6	
7/12/2013	10:54	Fine	Middle	2.5	20.60	20.60	20.55	8.40	8.40	8.40	35.52	35.52	35.54	68.1	68.0	67.3	4.97	4.96	4.91	4.54	4.43	4.41	5	5.50
	10:56		Middle	2.5	20.50	20.50		8.40	8.40		35.55	35.55		67.0	66.2		4.89	4.82		4.35	4.31		6	
9/12/2013	11:32	Fine	Middle	2.5	20.80	20.80	20.80	8.38	8.38	8.38	35.44	35.44	35.44	71.9	72.5	72.4	5.26	5.28	5.28	4.64	4.59	4.59	6	6.00
	11:35		Middle	2.5	20.80	20.80		8.38	8.38		35.44	35.44		72.3	72.8		5.27	5.31		4.53	4.58		6	
11/12/2013	14:42	Fine	Middle	2.5	20.40	20.40	20.40	8.41	8.41	8.41	35.58	35.58	35.59	72.2	73.3	73.1	5.27	5.36	5.34	3.50	3.49	3.47	2	2.50
	14:44		Middle	2.5	20.40	20.40		8.41	8.41		35.59	35.59		73.6	73.3		5.37	5.35		3.44	3.45		3	
13/12/2013	15:39	Cloudy	Middle	2.5	20.70	20.70	20.70	8.15	8.15	8.15	32.58	32.58	32.58	77.0	76.8	76.7	5.70	5.68	5.68	4.73	4.63	4.63	3	3.50
	15:41		Middle	2.5	20.70	20.70		8.14	8.14		32.58	32.58		76.4	76.4		5.66	5.66		4.60	4.55		4	
16/12/2013	16:34	Cloudy	Middle	3.0	19.50	19.50	19.50	8.17	8.17	8.17	32.41	32.41	32.41	80.9	80.8	80.6	6.16	6.15	6.13	4.67	4.66	4.64	4	3.50
	16:36		Middle	3.0	19.50	19.50		8.17	8.17		32.41	32.41		80.4	80.1		6.11	6.10		4.63	4.60		3	
18/12/2013	16:07	Fine	Middle	2.5	18.80	18.80	18.70	8.21	8.21	8.21	32.54	32.54	32.54	84.3	84.0	84.7	6.47	6.46	6.52	4.98	5.00	5.00	3	3.50
	16:09		Middle	2.5	18.40	18.80		8.21	8.21		32.54	32.54		85.2	85.3		6.56	6.57		4.99	5.02		4	
21/12/2013	10:21	Fine	Middle	2.5	18.70	18.70	18.70	8.23	8.23	8.23	32.77	32.77	32.77	77.1	76.9	77.0	5.93	5.10	5.72	5.39	5.40	5.41	6	5.50
	10:23		Middle	2.5	18.70	18.70		8.23	8.23		32.77	32.77		76.7	77.3		5.90	5.95		5.41	5.42		5	
24/12/2013	11:24	Fine	Middle	2.5	18.70	18.70	18.70	8.20	8.20	8.20	32.82	32.82	32.82	75.9	76.4	75.9	5.84	5.87	5.84	5.40	5.39	5.39	5	5.50
	11:26		Middle	2.5	18.70	18.70		8.20	8.20		32.82	32.82		75.5	75.6		5.83	5.81		5.37	5.41		6	
26/12/2013	10:31	Fine	Middle	2.5	17.90	17.90	17.80	8.20	8.20	8.20	32.73	32.73	32.73	80.3	80.0	79.8	6.29	6.28	6.26	3.63	3.58	3.57	4	4.00
	10:33		Middle	2.5	17.70	17.70		8.20	8.20		32.73	32.73		79.7	79.2		6.26	6.20		3.56	3.52		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-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
28/11/2013	14:01	Fine	Middle	2.5	21.60	21.60	21.60	8.37	8.37	8.37	35.17	35.17	35.17	63.8	64.4	64.6	4.60	4.64	4.66	4.85	4.86	4.88	8	8.00
	14:03		Middle	2.5	21.60	21.60		8.37	8.37		35.17	35.17		65.0	65.3		4.69	4.71		4.90	4.89		8	
30/11/2013	15:56	Fine	Middle	2.5	21.10	21.10	21.00	8.42	8.42	8.42	35.09	35.09	35.10	59.7	59.0	59.8	4.33	4.36	4.35	5.21	5.18	5.16	4	4.00
	15:58		Middle	2.5	20.90	20.90		8.42	8.42		35.10	35.10		60.1	60.2		4.35	4.37		5.15	5.10		4	
2/12/2013	15:52	Fine	Middle	2.5	20.50	20.40	20.45	8.54	8.54	8.54	35.40	35.40	35.39	68.1	69.0	68.6	5.00	5.07	5.04	5.00	5.00	5.00	4	4.50
	15:54		Middle	2.5	20.40	20.50		8.54	8.54		35.38	35.38		68.5	68.7		5.03	5.04		5.00	5.00		5	
4/12/2013	18:53	Fine	Middle	3.0	20.40	20.40	20.25	8.39	8.39	8.39	35.40	35.40	35.36	74.3	74.1	73.9	5.69	5.68	5.67	7.08	7.01	6.99	7	7.00
	18:55		Middle	3.0	20.10	20.10		8.39	8.39		35.32	35.32		73.8	73.5		5.66	5.64		6.94	6.92		7	
7/12/2013	10:50	Fine	Middle	2.5	20.60	20.60	20.50	8.40	8.40	8.40	35.52	35.52	35.53	69.5	68.9	68.6	5.08	5.03	5.01	5.19	5.05	5.07	9	8.50
	10:52		Middle	2.5	20.40	20.40		8.40	8.40		35.53	35.53		68.2	67.7		4.98	4.95		5.02	5.01		8	
9/12/2013	11:27	Fine	Middle	2.5	20.80	20.80	20.80	8.38	8.38	8.38	35.45	35.45	35.45	72.1	72.5	72.4	5.25	5.28	5.27	6.14	6.14	6.14	9	9.00
	11:29		Middle	2.5	20.80	20.80		8.38	8.38		35.45	35.45		72.6	72.4		5.29	5.27		6.14	6.15		9	
11/12/2013	14:35	Fine	Middle	2.5	20.40	20.40	20.40	8.42	8.42	8.42	35.54	35.61	35.60	78.3	78.5	78.0	5.74	5.76	5.72	4.55	4.56	4.55	3	2.50
	14:37		Middle	2.5	20.40	20.40		8.42	8.42		35.62	35.62		77.6	77.7		5.71	5.66		4.55	4.53		2	
13/12/2013	15:36	Cloudy	Middle	2.5	20.70	20.70	20.65	8.16	8.16	8.16	32.60	32.60	32.60	78.5	77.4	77.7	5.82	5.74	5.76	4.92	4.77	4.80	4	4.00
	15:38		Middle	2.5	20.60	20.60		8.15	8.15		32.60	32.60		77.3	77.5		5.73	5.75		4.75	4.74		4	
16/12/2013	16:30	Cloudy	Middle	3.0	19.60	19.60	19.60	8.18	8.18	8.18	32.94	32.44	32.57	80.8	80.9	81.2	6.13	6.14	6.17	6.48	6.47	6.46	4	4.00
	16:32		Middle	3.0	19.60	19.60		8.18	8.18		32.44	32.44		81.2	81.8		6.17	6.22		6.45	6.43		4	
18/12/2013	16:01	Fine	Middle	2.5	18.60	18.60	18.55	8.22	8.22	8.22	32.25	32.25	32.25	85.2	86.7	86.1	7.04	7.30	7.17	5.43	5.43	5.43	4	3.50
	16:03		Middle	2.5	18.50	18.50		8.22	8.22		32.25	32.25		86.4	86.2		7.18	7.16		5.41	5.43		3	
21/12/2013	10:15	Fine	Middle	2.5	18.40	18.40	18.40	8.23	8.23	8.24	32.80	32.80	32.80	80.4	79.8	80.3	6.22	6.19	6.22	5.21	5.22	5.21	5	4.50
	10:17		Middle	2.5	18.40	18.40		8.24	8.24		32.80	32.80		80.1	81.0		6.21	6.27		5.20	5.19		4	
24/12/2013	11:31	Fine	Middle	2.5	18.50	18.50	18.50	8.20	8.20	8.20	32.80	32.80	32.80	81.5	81.6	81.9	6.29	6.30	6.32	4.94	4.95	4.96	5	5.00
	11:33		Middle	2.5	18.50	18.50		8.20	8.20		32.80	32.80		82.2	82.1		6.34	6.33		4.97	4.99		5	
26/12/2013	10:24	Fine	Middle	2.5	17.90	17.90	17.75	8.20	8.20	8.20	32.79	32.79	32.80	79.5	79.3	79.1	6.22	6.21	6.20	5.66	5.61	5.60	5	4.50
	10:26		Middle	2.5	17.60	17.60		8.20	8.20		32.80	32.80		78.9	78.5		6.19	6.17		5.59	5.54		4	

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 (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
28/11/2013	13:40	Fine	Middle	3.0	21.30	21.30	21.25	8.10	8.10	8.10	31.66	31.66	31.67	77.8	78.9	78.4	5.75	5.82	5.79	2.19	2.17	2.19	4	3.50
	13:42		Middle	3.0	21.20	21.20		8.10	8.10		31.67	31.67		78.4	78.5		5.78	5.79		2.18	2.21		3	
30/11/2013	14:25	Fine	Middle	3.5	21.10	21.10	21.00	8.15	8.15	8.15	32.21	32.21	32.22	84.5	83.8	84.3	6.24	6.19	6.23	4.09	4.09	4.09	4	4.00
	14:27		Middle	3.5	20.90	20.90		8.14	8.14		32.23	32.23		84.1	84.7		6.22	6.26		4.09	4.08		4	
2/12/2013	14:50	Fine	Middle	3.5	21.40	21.40	21.35	8.12	8.12	8.12	32.30	32.30	32.31	88.4	88.4	87.9	6.49	6.49	6.45	3.30	3.20	3.25	3	3.00
	14:52		Middle	3.5	21.30	21.30		8.12	8.12		32.32	32.32		87.7	87.1		6.43	6.40		3.21	3.29		3	
4/12/2013	20:30	Fine	Middle	3.5	19.70	19.70	19.70	8.15	8.15	8.15	33.25	33.25	33.26	79.4	79.7	79.6	5.97	5.99	5.99	4.55	4.50	4.51	6	7.00
	20:31		Middle	3.5	19.70	19.70		8.16	8.15		33.27	33.27		79.6	79.8		5.98	6.00		4.59	4.40		8	
7/12/2013	11:00	Fine	Middle	3.5	20.70	20.70	20.70	8.15	8.15	8.15	32.43	32.43	32.43	81.0	81.4	81.0	5.02	5.04	5.02	4.31	4.31	4.32	7	7.00
	11:02		Middle	3.5	20.70	20.70		8.15	8.15		32.43	32.43		80.9	80.7		5.00	5.00		4.32	4.34		7	
9/12/2013	11:05	Fine	Middle	3.0	21.60	21.60	21.65	8.09	8.09	8.09	32.31	32.31	32.32	81.7	82.2	82.4	5.95	5.99	6.00	4.79	4.71	4.80	8	9.00
	11:07		Middle	3.0	21.70	21.70		8.09	8.09		32.32	32.32		83.0	82.6		6.05	6.01		4.75	4.96		10	
11/12/2013	13:45	Fine	Middle	3.5	21.40	21.40	21.40	8.14	8.14	8.14	32.48	32.48	32.48	84.4	84.8	84.5	6.16	6.18	6.16	4.19	4.19	4.20	4	4.00
	13:47		Middle	3.5	21.40	21.40		8.14	8.14		32.48	32.48		84.6	84.3		6.17	6.14		4.20	4.21		4	
13/12/2013	15:00	Cloudy	Middle	4.0	20.70	20.70	20.65	8.17	8.17	8.18	33.39	33.39	33.40	77.7	77.4	77.5	5.73	5.71	5.72	3.55	3.61	3.62	3	3.50
	15:02		Middle	4.0	20.60	20.60		8.18	8.18		33.40	33.40		77.3	77.6		5.70	5.73		3.66	3.65		4	
16/12/2013	15:00	Cloudy	Middle	3.5	18.30	18.30	18.30	8.26	8.26	8.26	33.38	33.38	33.38	77.0	76.8	76.5	5.95	5.93	5.90	6.41	6.42	6.43	4	3.50
	15:02		Middle	3.5	18.30	18.30		8.26	8.26		33.38	33.38		76.1	75.9		5.87	5.86		6.42	6.46		3	
18/12/2013	15:45	Fine	Middle	3.5	18.20	18.20	18.05	8.28	8.28	8.31	35.03	35.03	35.03	81.4	81.8	81.4	6.25	6.29	6.26	5.60	5.60	5.60	4	3.50
	15:47		Middle	3.5	17.90	17.90		8.33	8.33		35.03	35.03		81.3	81.0		6.25	6.23		5.60	5.59		3	
21/12/2013	9:55	Fine	Middle	3.5	18.40	18.40	18.40	8.51	8.51	8.51	35.84	35.84	35.84	84.7	84.6	84.5	6.44	6.43	6.43	4.70	4.72	4.74	5	5.50
	9:57		Middle	3.5	18.40	18.40		8.51	8.51		35.84	35.84		84.3	84.5		6.41	6.43		4.75	4.78		6	
24/12/2013	10:25	Fine	Middle	3.5	18.30	18.30	18.30	8.48	8.48	8.48	35.87	35.87	35.88	82.7	83.0	81.4	6.30	6.32	6.22	4.37	4.33	4.32	5	5.00
	10:27		Middle	3.5	18.30	18.30		8.48	8.48		35.89	35.89		81.0	79.0		6.17	6.10		4.29	4.29		5	
26/12/2013	9:55	Fine	Middle	3.0	18.00	18.00	17.98	8.15	8.15	8.16	33.44	33.44	33.45	73.2	73.6	74.0	5.58	5.62	5.70	4.61	4.55	4.42	5	5.00
	9:56		Middle	3.0	17.90	18.00		8.16	8.16		33.45	33.45		74.5	74.7		5.79	5.80		4.24	4.26		5	

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 (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
28/11/2013	13:36	Fine	Middle	1.0	21.50	21.50	21.55	8.39	8.39	8.39	35.07	35.07	35.07	63.0	63.1	63.4	4.54	4.55	4.57	4.22	4.20	4.19	5	5.50
	13:38		Middle	1.0	21.60	21.60		8.39	8.39		35.07	35.07		63.7	63.8		4.59	4.60		4.18	4.14		6	
30/11/2013	15:24	Fine	Middle	1.5	21.10	21.10	21.05	8.41	8.41	8.42	35.26	35.26	35.29	60.0	60.3	60.3	4.35	4.37	4.37	5.66	5.79	5.77	27	**27.50**
	15:26		Middle	1.5	21.00	21.00		8.42	8.42		35.32	35.32		60.5	60.2		4.39	4.36		5.80	5.82		28	
2/12/2013	15:16	Fine	Middle	1.5	21.20	21.20	21.20	8.94	8.93	8.93	34.44	34.44	34.44	64.7	64.5	64.0	4.71	4.69	4.66	4.15	4.17	4.17	2	2.00
	15:18		Middle	1.5	21.20	21.20		8.93	8.92		34.44	34.44		63.7	63.1		4.64	4.59		4.19	4.18		2	
4/12/2013	18:20	Fine	Middle	2.0	20.60	20.60	20.50	8.39	8.39	8.39	35.39	35.39	35.39	71.4	71.0	70.9	5.22	5.20	5.19	4.69	4.75	4.71	5	5.50
	18:22		Middle	2.0	20.40	20.40		8.39	8.39		35.39	35.39		70.7	70.4		5.18	5.16		4.78	4.63		6	
7/12/2013	10:12	Fine	Middle	1.5	20.80	20.80	20.75	8.40	8.40	8.40	35.29	35.29	35.30	69.5	68.4	68.6	5.07	4.99	5.00	4.01	4.00	3.99	8	8.50
	10:14		Middle	1.5	20.70	20.70		8.39	8.39		35.30	35.30		68.5	67.9		4.99	4.95		3.98	3.96		9	
9/12/2013	10:50	Fine	Middle	1.5	20.80	20.80	20.80	8.42	8.42	8.42	35.37	35.36	35.37	66.0	67.2	66.7	4.81	4.90	4.86	5.70	5.69	5.74	16	11.50
	10:52		Middle	1.5	20.80	20.80		8.42	8.42		35.37	35.36		66.7	66.9		4.86	4.88		5.72	5.86		7	
11/12/2013	13:52	Fine	Middle	1.5	20.70	20.70	20.70	8.56	8.56	8.56	35.51	35.51	35.51	71.2	71.3	71.0	5.20	5.20	5.17	5.24	5.26	5.24	2	2.00
	13:54		Middle	1.5	20.70	20.70		8.56	8.56		35.51	35.51		70.5	70.8		5.12	5.17		5.25	5.22		2	
13/12/2013	15:02	Cloudy	Middle	1.5	21.00	21.00	21.00	8.44	8.44	8.42	32.60	32.60	32.61	73.9	74.7	73.9	5.45	5.50	5.44	6.35	6.27	6.28	14	**13.50**
	15:04		Middle	1.5	21.00	21.00		8.40	8.40		32.61	32.61		73.8	73.1		5.43	5.38		6.32	6.18		13	
16/12/2013	15:57	Cloudy	Middle	2.0	19.50	19.50	19.50	8.19	8.19	8.19	32.32	32.32	32.32	82.1	82.8	82.7	6.24	6.30	6.31	5.46	5.48	5.46	7	6.50
	15:59		Middle	2.0	19.50	19.50		8.19	8.19		32.32	32.32		82.9	83.1		6.31	6.37		5.45	5.44		6	
18/12/2013	15:31	Fine	Middle	1.5	19.50	19.50	19.50	8.31	8.31	8.31	32.26	32.26	32.26	84.1	84.2	84.2	6.42	6.44	6.44	6.93	6.92	6.90	14	**14.00**
	15:33		Middle	1.5	19.50	19.50		8.31	8.31		32.26	32.26		84.5	84.1		6.45	6.43		6.89	6.87		14	
21/12/2013	9:44	Fine	Middle	1.0	18.80	18.80	18.80	8.29	8.29	8.29	32.66	32.66	32.66	78.5	78.7	79.2	6.03	6.05	6.09	5.45	5.44	5.45	9	9.00
	9:46		Middle	1.0	18.80	18.80		8.29	8.29		32.66	32.66		79.6	79.9		6.13	6.14		5.46	5.45		9	
24/12/2013	11:55	Fine	Middle	1.5	18.70	18.70	18.70	8.21	8.21	8.21	32.64	32.64	32.64	74.0	74.2	74.9	5.70	5.72	5.78	6.73	6.78	6.79	13	13.00
	11:57		Middle	1.5	18.70	18.70		8.21	8.21		32.64	32.64		75.6	75.9		5.83	5.85		6.81	6.83		13	
26/12/2013	9:53	Fine	Middle	2.0	17.80	17.80	17.70	8.18	8.18	8.18	32.15	32.15	32.16	75.0	74.6	74.4	5.90	5.88	5.87	3.26	3.27	3.23	5	5.50
	9:55		Middle	2.0	17.60	17.60		8.18	8.18		32.17	32.17		74.2	73.9		5.86	5.83		3.23	3.15		6	

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 (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
28/11/2013	12:45	Fine	Middle	3.0	20.90	20.90	20.90	8.12	8.12	8.12	31.92	31.92	31.92	71.4	71.5	71.8	5.29	5.29	5.32	5.40	5.56	5.58	6	6.50
	12:47		Middle	3.0	20.90	20.90		8.12	8.12		31.92	31.92		72.0	72.2		5.34	5.35		5.68	5.69		7	
30/11/2013	14:00	Fine	Middle	3.0	21.30	21.30	21.30	8.15	8.15	8.15	32.40	32.40	32.40	90.3	90.1	90.1	6.63	6.62	6.62	6.00	5.99	6.15	16	**16.50**
	14:02		Middle	3.0	21.30	21.30		8.14	8.14		32.40	32.40		90.0	89.9		6.61	6.60		6.20	6.41		17	
2/12/2013	14:30	Fine	Middle	3.0	21.10	21.10	21.10	8.12	8.12	8.11	32.40	32.40	32.41	81.6	81.6	81.9	6.00	6.00	6.01	6.70	6.71	6.71	10	9.50
	14:32		Middle	3.0	21.10	21.10		8.10	8.10		32.41	32.41		82.2	82.2		6.02	6.03		6.71	6.71		9	
4/12/2013	21:05	Fine	Middle	2.0	20.20	20.20	20.15	8.26	8.26	8.26	33.24	33.24	33.26	75.8	75.7	75.3	5.66	5.65	5.62	4.18	4.69	4.51	4	4.00
	21:06		Middle	2.0	20.10	20.10		8.25	8.25		33.27	33.27		75.1	74.6		5.60	5.56		4.65	4.51		4	
7/12/2013	10:35	Fine	Middle	3.0	20.50	20.50	20.50	8.16	8.16	8.16	32.43	32.43	32.44	84.1	84.0	84.6	6.26	6.25	6.29	20.78	20.83	**20.87**	14	**13.50**
	10:37		Middle	3.0	20.50	20.50		8.15	8.15		32.44	32.44		85.2	84.9		6.35	6.29		20.95	20.91		13	
9/12/2013	10:40	Fine	Middle	3.5	21.60	21.60	21.65	8.10	8.10	8.10	32.33	32.33	32.33	74.1	78.9	78.1	5.48	5.79	6.22	8.73	8.72	**8.73**	19	**19.50**
	10:42		Middle	3.5	21.70	21.70		8.10	8.10		32.32	32.32		79.9	79.3		5.82	7.78		8.72	8.73		20	
11/12/2013	11:50	Fine	Middle	3.0	20.60	20.60	20.60	8.10	8.10	8.10	32.45	32.45	32.45	84.9	84.9	84.2	6.30	6.30	6.25	4.37	4.23	4.23	3	3.50
	11:52		Middle	3.0	20.60	20.60		8.10	8.10		32.45	32.45		83.6	83.4		6.21	6.19		4.20	4.10		4	
13/12/2013	14:32	Cloudy	Middle	3.0	20.50	20.50	20.55	8.20	8.20	8.20	33.24	33.24	33.10	82.7	82.9	81.2	6.14	6.13	6.00	4.75	4.76	4.60	5	5.00
	14:34		Middle	3.0	20.60	20.60		8.20	8.20		33.46	32.46		80.0	79.0		5.91	5.83		4.45	4.43		5	
16/12/2013	14:30	Cloudy	Middle	3.0	17.60	17.60	17.60	8.30	8.23	8.25	32.15	32.15	32.71	77.7	77.5	77.5	6.11	6.08	6.10	11.84	11.80	**11.73**	9	8.00
	14:32		Middle	3.0	17.60	17.60		8.23	8.23		33.27	33.27		77.6	77.3		6.12	6.08		11.70	11.58		7	
18/12/2013	15:20	Fine	Middle	3.5	18.00	18.00	17.90	8.13	8.13	8.17	35.64	35.64	35.65	83.9	85.0	84.6	6.43	6.62	6.51	12.59	12.76	**12.79**	14	**23.50**
	15:22		Middle	3.5	17.80	17.80		8.20	8.20		35.66	35.66		84.9	84.7		6.51	6.49		12.88	12.92		33	
21/12/2013	9:30	Fine	Middle	3.5	18.20	18.20	18.20	8.52	8.52	8.52	35.90	35.90	35.90	86.6	85.4	85.8	6.53	6.51	6.52	4.96	4.84	4.85	6	8.50
	9:32		Middle	3.5	18.20	18.20		8.52	8.52		35.90	35.90		85.6	85.5		6.52	6.51		4.80	4.79		11	
24/12/2013	10:00	Fine	Middle	3.5	17.50	17.50	17.50	8.50	8.50	8.50	35.98	35.98	35.98	83.2	84.4	84.0	6.42	6.51	6.48	6.09	6.07	6.07	8	8.00
	10:02		Middle	3.5	17.50	17.50		8.50	8.50		35.98	35.98		84.6	83.9		6.53	6.47		6.06	6.05		8	
26/12/2013	10:53	Fine	Middle	1.5	17.90	17.90	17.85	8.21	8.21	8.21	33.69	33.69	33.69	77.7	78.2	78.1	6.03	6.08	6.07	5.96	5.77	5.61	6	7.00
	10:54		Middle	1.5	17.80	17.80		8.21	8.21		33.68	33.68		78.4	78.1		6.09	6.07		5.30	5.40		8	

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
28/11/2013	7:15	Cloudy	Middle	2.5	19.60	19.60	19.60	8.68	8.68	8.68	32.46	32.46	32.46	90.1	90.2	90.1	6.83	6.85	6.83	3.22	3.23	3.26	6	6.50
	7:17		Middle	2.5	19.60	19.60		8.68	8.68		32.46	32.46		90.1	89.9		6.83	6.80		3.29	3.29		7	
30/11/2013	8:15	Fine	Middle	3.0	17.90	17.90	17.90	8.25	8.25	8.25	32.60	32.60	32.61	91.4	92.1	92.0	7.14	7.19	7.18	4.00	4.02	4.03	4	4.00
	8:17		Middle	3.0	17.90	17.90		8.25	8.25		32.61	32.61		92.6	91.9		7.20	7.19		4.04	4.04		4	
2/12/2013	23:20	Fine	Middle	2.0	19.60	19.60	19.60	8.23	8.23	8.23	33.27	33.27	33.27	86.7	87.2	86.5	6.63	6.57	6.53	1.97	1.78	1.82	3	3.00
	23:21		Middle	2.0	19.60	19.60		8.23	8.23		33.27	33.27		86.4	85.5		6.48	6.44		1.80	1.74		3	
4/12/2013	11:35	Fine	Middle	3.0	20.50	20.50	20.50	8.20	8.20	8.20	32.54	32.54	32.54	89.5	89.9	90.9	6.67	6.70	6.78	4.27	4.29	4.29	5	4.50
	11:37		Middle	3.0	20.50	20.50		8.20	8.20		32.54	32.54		91.6	92.7		6.83	6.92		4.30	4.30		4	
7/12/2013	2:25	Fine	Middle	2.5	19.00	19.00	19.00	8.18	8.18	8.19	33.36	33.36	33.36	80.1	81.4	80.9	6.10	6.19	6.15	1.86	1.75	1.74	5	5.00
	2:26		Middle	2.5	19.00	19.00		8.20	8.20		33.36	33.36		81.1	80.8		6.17	6.15		1.68	1.65		5	
9/12/2013	3:52	Fine	Middle	2.0	21.40	21.40	21.40	8.21	8.21	8.21	33.34	33.34	33.34	84.2	84.7	84.5	6.13	6.16	6.15	1.64	1.54	1.62	16	**16.50**
	3:53		Middle	2.0	21.40	21.40		8.21	8.21		33.34	33.34		84.4	84.6		6.14	6.15		1.70	1.60		17	
11/12/2013	19:40	Cloudy	Middle	2.5	20.30	20.30	20.30	8.26	8.26	8.27	33.75	33.75	33.75	87.2	86.9	87.7	6.47	6.44	6.51	3.13	2.79	2.91	4	3.00
	19:41		Middle	2.5	20.30	20.30		8.27	8.27		33.74	33.74		88.4	88.2		6.58	6.54		2.84	2.87		2	
13/12/2013	21:50	Cloudy	Middle	2.0	20.50	20.50	20.50	8.24	8.24	8.24	33.62	33.62	33.63	79.9	80.0	81.2	5.90	5.91	6.00	2.55	2.43	2.43	3	2.50
	21:51		Middle	2.0	20.50	20.50		8.24	8.24		33.63	33.63		82.1	82.6		6.07	6.10		2.40	2.33		2	
17/12/2013	23:50	Cloudy	Middle	2.0	17.20	17.20	17.20	8.33	8.33	8.33	33.11	33.55	33.45	85.4	86.4	85.8	6.73	6.88	6.79	3.00	2.98	3.00	4	3.50
	23:51		Middle	2.0	17.20	17.20		8.33	8.33		33.56	33.59		85.6	85.8		6.77	6.76		3.02	3.01		3	
19/12/2013	0:46	Fine	Middle	2.0	14.30	14.30	14.30	8.34	8.34	8.34	33.39	33.39	33.38	85.2	86.3	86.0	7.12	7.20	7.23	2.73	2.82	2.74	4	4.00
	0:47		Middle	2.0	14.30	14.30		8.34	8.34		33.36	33.36		86.3	86.0		7.30	7.29		2.70	2.71		4	
21/12/2013	1:23	Fine	Middle	2.5	17.50	17.50	17.50	8.31	8.31	8.31	33.84	33.87	33.87	90.9	91.8	91.5	7.10	7.16	7.14	5.07	4.94	4.96	9	10.00
	1:24		Middle	2.5	17.50	17.50		8.31	8.31		33.88	33.88		91.7	91.5		7.16	7.14		4.98	4.83		11	
24/12/2013	2:18	Fine	Middle	2.0	16.40	16.40	16.40	8.29	8.29	8.29	33.81	33.81	33.79	89.1	89.7	89.9	7.11	7.17	7.18	2.40	2.50	2.43	8	7.50
	2:19		Middle	2.0	16.40	16.40		8.29	8.29		33.74	33.79		90.2	90.5		7.20	7.22		2.38	2.42		7	
26/12/2013	3:38	Fine	Middle	2.0	16.20	16.20	16.20	8.32	8.32	8.33	33.81	33.81	33.60	89.1	89.2	89.8	7.14	7.14	7.19	2.28	2.24	2.19	3	3.50
	3:39		Middle	2.0	16.20	16.20		8.33	8.33		33.64	33.13		90.2	90.6		7.22	7.25		2.22	2.00		4	

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
28/11/2013	8:40	Cloudy	Middle	3	20.20	20.20	20.15	8.17	8.17	8.17	32.08	32.08	32.09	90.8	91.2	90.7	6.82	6.85	6.82	3.13	3.13	3.14	5	5.00
	8:42		Middle	3	20.10	20.10		8.17	8.17		32.10	32.10		90.3	90.6		6.78	6.82		3.14	3.16		5	
30/11/2013	9:50	Fine	Middle	3	19.90	19.90	19.85	8.23	8.23	8.23	32.06	32.06	32.07	87.7	88.1	87.4	6.62	6.65	6.60	5.41	5.41	5.40	4	4.50
	9:52		Middle	3	19.80	19.80		8.22	8.22		32.07	32.07		86.7	86.9		6.56	6.56		5.40	5.36		5	
2/12/2013	2:30	Fine	Middle	3	19.80	19.80	19.80	8.19	8.19	8.19	33.16	33.16	33.16	75.8	75.6	75.7	5.69	5.68	5.68	3.68	3.73	3.68	4	4.00
	2:31		Middle	3	19.80	19.80		8.19	8.19		33.16	33.16		75.6	75.6		5.67	5.68		3.71	3.60		4	
4/12/2013	15:10	Fine	Middle	3	20.80	20.80	20.85	8.15	8.15	8.15	32.49	32.49	32.49	87.5	87.7	87.1	6.47	6.48	6.44	4.90	4.79	4.82	6	6.00
	15:12		Middle	3	20.90	20.90		8.15	8.15		32.49	32.49		87.2	86.1		6.44	6.35		4.79	4.79		6	
7/12/2013	4:35	Fine	Middle	3	18.90	18.90	18.90	8.25	8.25	8.25	32.91	32.91	32.91	76.4	77.6	77.8	5.84	5.93	5.95	3.49	3.58	3.55	6	6.50
	4:36		Middle	3	18.90	18.90		8.25	8.25		32.91	32.91		78.8	78.3		6.02	5.99		3.66	3.47		7	
9/12/2013	5:15	Fine	Middle	3	21.10	21.10	21.10	8.19	8.19	8.19	33.13	33.13	33.23	75.7	76.3	76.6	5.54	5.52	5.54	2.19	2.21	2.23	18	11.50
	5:16		Middle	3	21.10	21.10		8.19	8.19		33.33	33.33		77.2	77.0		5.55	5.54		2.23	2.30		5	
11/12/2013	20:32	Cloudy	Middle	3	20.20	20.20	20.20	8.28	8.28	8.28	33.48	33.49	33.49	80.4	81.0	81.0	5.98	6.02	6.02	3.83	3.75	3.75	3	3.50
	20:33		Middle	3	20.20	20.20		8.28	8.28		33.49	33.49		81.4	81.0		6.06	6.02		3.71	3.72		4	
13/12/2013	23:50	Cloudy	Middle	3	20.30	20.30	20.30	8.22	8.22	8.22	33.50	33.50	33.50	77.7	78.1	77.8	5.77	5.79	5.77	2.93	2.77	2.74	5	4.50
	23:51		Middle	3	20.30	20.30		8.22	8.22		33.50	33.50		78.0	77.5		5.79	5.73		2.61	2.66		4	
17/12/2013	2:25	Cloudy	Middle	3	17.50	17.50	17.45	8.33	8.33	8.33	33.46	33.46	33.44	82.4	82.7	82.4	6.46	6.46	6.45	3.89	3.75	3.83	4	4.00
	2:26		Middle	3	17.40	17.40		8.33	8.33		33.42	33.42		82.3	82.1		6.45	6.44		3.87	3.80		4	
19/12/2013	3:49	Fine	Middle	3	15.70	15.70	15.70	8.33	8.33	8.33	32.37	32.37	32.38	76.2	76.6	76.7	6.21	6.23	6.25	3.83	3.85	3.77	5	4.50
	3:50		Middle	3	15.70	15.70		8.33	8.33		32.38	32.38		77.2	76.8		6.29	6.28		3.69	3.72		4	
21/12/2013	3:47	Fine	Middle	3	17.50	17.50	17.50	8.18	8.18	8.19	32.53	32.36	32.51	77.0	76.7	76.7	6.06	6.03	6.03	5.75	5.51	5.48	7	6.00
	3:48		Middle	3	17.50	17.50		8.19	8.19		32.57	32.58		75.8	77.1		5.96	6.07		5.31	5.34		5	
24/12/2013	3:48	Fine	Middle	3	16.70	16.70	16.70	8.32	8.32	8.32	33.78	33.78	33.79	80.1	80.6	80.2	6.35	6.39	6.36	3.13	3.18	3.21	3	3.50
	3:49		Middle	3	16.70	16.70		8.32	8.32		33.79	33.79		80.2	80.0		6.36	6.33		3.25	3.29		4	
26/12/2013	6:35	Fine	Middle	3	16.50	16.50	16.45	8.32	8.32	8.32	33.73	33.77	33.74	81.1	81.0	81.1	6.47	6.46	6.47	2.83	2.78	2.76	6	6.00
	6:36		Middle	3	16.40	16.40		8.31	8.31		33.71	33.73		81.1	81.0		6.47	6.46		2.71	2.73		6	

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
28/11/2013	10:30	Cloudy	Middle	2	20.30	20.30	20.25	7.94	7.94	7.94	30.40	30.40	30.40	69.9	70.1	69.7	5.29	5.30	5.27	2.93	2.93	2.93	9	8.50
	10:32		Middle	2	20.20	20.20		7.93	7.93		30.40	30.40		69.3	69.3		5.24	5.24		2.93	2.94		8	
30/11/2013	11:22	Fine	Middle	2	20.80	20.80	20.75	8.06	8.06	8.05	31.68	31.68	31.68	62.3	61.1	61.6	4.64	4.59	4.61	1.61	1.57	1.57	6	6.00
	11:24		Middle	2	20.70	20.70		8.04	8.04		31.68	31.68		61.1	62.0		4.59	4.61		1.54	1.55		6	
2/12/2013	1:50	Fine	Middle	1	19.40	19.40	19.40	7.96	7.96	7.96	31.15	31.15	31.16	51.8	51.9	51.5	3.97	3.97	3.94	2.37	2.32	2.35	3	3.00
	1:51		Middle	1	19.40	19.40		7.96	7.96		31.16	31.16		50.9	51.5		3.89	3.94		2.42	2.27		3	
4/12/2013	14:52	Fine	Middle	2	21.60	21.60	21.75	8.09	8.09	8.09	31.62	31.62	31.62	71.2	71.5	71.4	5.20	5.24	5.22	5.24	5.22	5.22	7	6.00
	14:54		Middle	2	21.90	21.90		8.08	8.08		31.61	31.61		71.6	71.2		5.24	5.20		5.21	5.21		5	
7/12/2013	4:03	Fine	Middle	1	19.30	19.30	19.25	8.20	8.20	8.19	31.86	31.86	31.86	69.8	69.8	70.5	5.36	5.34	5.25	1.61	1.58	1.62	3	3.50
	4:04		Middle	1	19.20	19.20		8.18	8.18		31.86	31.86		71.1	71.2		5.14	5.15		1.64	1.65		4	
9/12/2013	4:48	Fine	Middle	1	21.00	21.00	21.00	8.17	8.17	8.17	30.58	30.58	30.58	57.4	57.3	57.4	4.27	4.31	4.29	1.56	1.41	1.37	4	4.50
	4:49		Middle	1	21.00	21.00		8.17	8.16		30.58	30.58		57.7	57.3		4.30	4.26		1.26	1.23		5	
11/12/2013	20:05	Cloudy	Middle	2	20.10	20.10	20.10	8.12	8.13	8.12	32.16	32.21	32.20	61.5	61.9	61.9	4.51	4.56	4.55	3.19	3.25	3.24	<2	<2
	20:06		Middle	2	20.10	20.10		8.12	8.12		32.21	32.21		62.0	62.0		4.56	4.56		3.22	3.28		<2	
13/12/2013	23:20	Cloudy	Middle	1	20.40	20.40	20.40	8.26	8.26	8.24	31.69	31.69	31.69	68.7	69.2	69.0	5.15	5.18	5.16	2.01	2.13	2.00	<2	<2
	23:21		Middle	1	20.40	20.40		8.22	8.22		31.69	31.69		69.3	68.6		5.19	5.13		1.91	1.94		<2	
17/12/2013	1:58	Cloudy	Middle	1	16.90	16.90	16.90	8.20	8.20	8.20	26.48	26.48	26.48	48.2	49.0	48.9	3.97	4.04	4.03	3.45	3.47	3.41	<2	<2
	1:59		Middle	1	16.90	16.90		8.19	8.20		26.48	26.48		49.1	49.1		4.05	4.05		3.40	3.31		<2	
19/12/2013	3:22	Fine	Middle	1	15.00	15.00	14.98	8.15	8.15	8.15	28.30	28.30	28.51	51.7	52.0	52.0	4.36	4.41	4.40	2.88	2.92	2.95	9	7.00
	3:23		Middle	1	14.90	15.00		8.15	8.15		28.74	28.71		52.1	52.2		4.41	4.41		3.00	2.98		5	
21/12/2013	3:11	Fine	Middle	1	16.90	16.90	16.90	8.11	8.11	8.11	29.50	29.50	29.50	50.3	50.4	50.4	4.08	4.08	4.09	2.84	2.87	2.86	3	4.00
	3:12		Middle	1	16.90	16.90		8.10	8.10		29.50	29.50		50.4	50.5		4.09	4.09		2.88	2.83		5	
24/12/2013	3:15	Fine	Middle	1	16.50	16.50	16.50	8.14	8.14	8.14	31.37	31.37	31.38	60.6	61.0	61.3	4.00	4.06	4.50	2.06	2.03	2.02	3	2.50
	3:16		Middle	1	16.50	16.50		8.14	8.14		31.39	31.39		61.9	61.7		4.99	4.96		2.00	1.98		2	
26/12/2013	5:45	Fine	Middle	1	15.90	15.90	15.90	8.13	8.13	8.13	30.92	30.92	30.92	49.0	49.3	49.2	4.02	4.04	4.04	1.41	1.45	1.47	<2	<2
	5:46		Middle	1	15.90	15.90		8.12	8.12		30.92	30.92		49.3	49.3		4.04	4.04		1.48	1.52		<2	

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 °C			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			Suspended Solids mg/L	
			m		Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2013	10:15	Cloudy	Middle	2.5	21.40	21.40	21.35	8.35	8.35	8.35	35.26	35.26	35.26	65.6	65.5	65.3	4.73	4.73	4.72	4.41	4.40	4.40	6	5.00
	10:17		Middle	2.5	21.30	21.30		8.35	8.36		35.26	35.26		65.0	65.2		4.70	4.72		4.40	4.40		4	
30/11/2013	10:46	Fine	Middle	2.5	21.10	21.10	21.00	8.43	8.43	8.44	35.23	35.23	35.23	60.7	62.1	62.2	4.39	4.46	4.49	4.98	4.99	4.99	5	5.00
	10:48		Middle	2.5	20.90	20.90		8.44	8.44		35.22	35.22		62.6	63.3		4.53	4.59		4.98	5.00		5	
2/12/2013	23:55	Fine	Middle	2.5	20.60	20.60	20.50	8.42	8.42	8.42	35.44	35.44	35.45	61.0	60.7	60.6	4.46	4.44	4.44	3.64	3.74	3.70	4	4.00
	23:57		Middle	2.5	20.40	20.40		8.41	8.41		35.45	35.45		60.5	60.1		4.43	4.41		3.75	3.65		4	
4/12/2013	14:18	Fine	Middle	2.5	20.80	20.80	20.80	8.23	8.24	8.24	35.53	35.53	35.53	74.2	75.0	74.9	5.40	5.46	5.45	4.75	4.76	4.76	5	6.00
	14:20		Middle	2.5	20.80	20.80		8.23	8.24		35.53	35.53		75.3	75.1		5.47	5.47		4.75	4.76		7	
7/12/2013	2:46	Fine	Middle	2.5	20.30	20.30	20.30	8.36	8.36	8.36	35.58	35.58	35.58	71.6	71.8	71.6	5.25	5.27	5.25	3.37	3.39	3.39	8	8.50
	2:48		Middle	2.5	20.30	20.30		8.36	8.36		35.58	35.58		71.4	71.4		5.24	5.24		3.40	3.41		9	
9/12/2013	6:52	Fine	Middle	2.5	20.70	20.70	20.70	8.35	8.35	8.35	35.48	35.48	35.48	73.8	74.0	74.0	5.37	5.39	5.39	4.87	4.87	4.87	7	8.00
	6:54		Middle	2.5	20.70	20.70		8.35	8.35		35.48	35.48		74.4	73.6		5.42	5.36		4.87	4.87		9	
11/12/2013	18:35	Cloudy	Middle	2.0	20.40	20.40	20.30	8.11	8.11	8.10	32.53	32.53	32.55	71.4	70.5	70.9	5.34	5.26	5.29	5.01	5.00	4.99	4	3.50
	18:37		Middle	2.0	20.20	20.20		8.09	8.09		32.56	32.56		70.6	70.9		5.27	5.30		4.98	4.98		3	
13/12/2013	22:17	Cloudy	Middle	2.5	20.50	20.50	20.45	8.12	8.12	8.12	32.63	32.63	32.63	74.1	75.0	74.6	5.52	5.59	5.56	3.64	3.65	3.65	4	5.00
	22:19		Middle	2.5	20.40	20.40		8.12	8.12		32.63	32.63		74.8	74.4		5.57	5.54		3.65	3.64		6	
17/12/2013	0:21	Cloudy	Middle	2.5	19.20	19.30	19.25	8.12	8.13	8.13	32.61	32.62	32.62	75.5	78.6	78.0	5.76	6.03	5.97	4.30	4.29	4.30	4	5.00
	0:23		Middle	2.5	19.30	19.20		8.13	8.12		32.61	32.62		79.9	77.8		6.11	5.98		4.30	4.29		6	
19/12/2013	1:04	Fine	Middle	3.0	17.90	17.90	17.65	8.23	8.23	8.22	32.75	32.75	32.75	70.7	70.3	70.2	5.53	5.51	5.50	3.31	3.32	3.28	9	7.50
	1:06		Middle	3.0	17.40	17.40		8.21	8.21		32.74	32.74		70.0	69.8		5.48	5.47		3.25	3.24		6	
21/12/2013	2:22	Fine	Middle	3.0	18.50	18.50	18.45	8.21	8.21	8.20	32.87	32.87	32.87	70.3	70.1	69.9	5.43	5.42	5.41	2.44	2.43	2.41	2	2.50
	2:24		Middle	3.0	18.40	18.40		8.19	8.19		32.86	32.86		69.7	69.6		5.40	5.40		2.40	2.35		3	
24/12/2013	3:58	Fine	Middle	3.0	17.60	17.60	17.55	8.16	8.16	8.15	32.89	32.89	32.89	63.0	62.7	62.7	4.95	4.93	4.93	6.14	6.11	6.08	7	7.50
	4:00		Middle	3.0	17.50	17.50		8.14	8.14		32.89	32.89		62.6	62.4		4.93	4.92		6.05	6.02		8	
26/12/2013	5:15	Fine	Middle	3.0	17.20	17.20	17.15	8.16	8.16	8.15	32.80	32.80	32.80	65.8	65.6	65.5	5.21	5.20	5.19	4.02	3.98	3.96	3	3.50
	5:17		Middle	3.0	17.10	17.10		8.14	8.14		32.79	32.79		65.3	65.1		5.18	5.17		3.94	3.89		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
28/11/2013	10:57	Cloudy	Middle	2.5	20.80	20.80	20.80	8.37	8.37	8.37	35.31	35.31	35.31	67.0	68.1	67.9	4.88	4.96	4.94	3.94	3.94	3.94	6	6.50
	10:59		Middle	2.5	20.80	20.80		8.37	8.37		35.31	35.31		68.2	68.1		4.97	4.96		3.94	3.94		7	
30/11/2013	11:25	Fine	Middle	2.5	21.10	21.10	21.00	8.42	8.42	8.43	35.13	35.13	35.22	68.4	68.3	67.9	4.96	4.95	4.93	6.01	5.93	5.94	6	5.00
	11:27		Middle	2.5	20.90	20.90		8.43	8.43		35.31	35.31		67.6	67.3		4.91	4.89		5.91	5.90		4	
2/12/2013	0:42	Fine	Middle	2.5	20.50	20.50	20.40	8.44	8.44	8.44	35.43	35.43	35.44	72.9	72.3	72.1	5.34	5.30	5.29	5.56	5.55	5.62	6	5.00
	0:44		Middle	2.5	20.30	20.30		8.44	8.44		35.44	35.44		71.8	71.5		5.27	5.25		5.69	5.66		4	
4/12/2013	14:54	Fine	Middle	2.5	21.00	21.00	21.00	8.36	8.36	8.36	35.52	35.52	35.52	80.9	81.0	80.9	5.87	5.79	5.86	5.49	5.45	5.46	4	4.00
	14:56		Middle	2.5	21.00	21.00		8.36	8.36		35.52	35.52		80.6	81.2		5.86	5.90		5.45	5.44		4	
7/12/2013	3:20	Fine	Middle	2.5	20.40	20.30	20.35	8.41	8.41	8.41	35.55	35.55	35.55	79.3	79.2	79.0	5.82	5.82	5.80	3.74	3.72	3.73	9	9.00
	3:22		Middle	2.5	20.40	20.30		8.41	8.41		35.55	35.55		78.8	78.6		5.79	5.78		3.72	3.72		9	
9/12/2013	7:27	Fine	Middle	2.5	20.60	20.60	20.60	8.36	8.36	8.37	35.23	35.24	35.24	72.2	73.0	74.8	5.28	5.41	5.55	3.73	3.72	3.72	9	9.50
	7:29		Middle	2.5	20.60	20.60		8.38	8.38		35.25	35.23		77.4	76.6		5.66	5.85		3.72	3.72		10	
11/12/2013	18:45	Cloudy	Middle	2.5	20.60	20.60	20.50	8.10	8.10	8.10	32.55	32.55	32.56	77.4	77.3	77.4	5.75	5.75	5.76	6.05	6.12	6.11	4	4.50
	18:47		Middle	2.5	20.40	20.40		8.10	8.10		32.57	32.57		77.2	77.6		5.74	5.78		6.13	6.14		5	
13/12/2013	22:55	Cloudy	Middle	2.5	20.30	20.30	20.30	8.12	8.12	8.12	32.61	32.60	32.61	84.8	84.5	84.4	6.36	6.33	6.32	6.48	6.49	6.48	6	6.50
	22:57		Middle	2.5	20.30	20.30		8.12	8.12		32.61	32.60		84.0	84.2		6.28	6.30		6.49	6.47		7	
17/12/2013	0:56	Cloudy	Middle	2.5	19.10	19.20	19.15	8.20	8.20	8.20	32.60	32.59	32.67	82.7	84.3	83.8	6.34	6.47	6.45	4.59	4.60	4.59	4	4.00
	0:58		Middle	2.5	19.20	19.10		8.20	8.20		32.89	32.60		84.7	83.5		6.50	6.48		4.60	4.58		4	
19/12/2013	0:15	Fine	Middle	3.0	18.00	18.00	17.85	8.31	8.31	8.31	32.78	32.78	32.78	86.6	86.4	86.2	6.76	6.75	6.74	6.77	6.73	6.71	7	5.50
	0:01		Middle	3.0	17.70	17.70		8.30	8.30		32.77	32.77		86.1	85.7		6.73	6.71		6.69	6.65		4	
21/12/2013	1:36	Fine	Middle	3.0	18.70	18.70	18.60	8.36	8.36	8.34	32.92	32.92	32.92	86.0	85.8	85.7	6.61	6.60	6.59	3.89	3.84	3.84	4	4.00
	1:38		Middle	3.0	18.50	18.50		8.31	8.31		32.92	32.92		85.5	85.3		6.57	6.56		3.83	3.79		4	
24/12/2013	3:01	Fine	Middle	3.0	18.30	18.30	18.25	8.37	8.37	8.34	32.92	32.92	32.92	79.9	79.7	79.6	6.18	6.17	5.41	4.87	4.83	4.83	4	3.50
	3:03		Middle	3.0	18.20	18.20		8.31	8.31		32.91	32.91		79.4	79.2		6.15	3.14		4.84	4.76		3	
26/12/2013	4:27	Fine	Middle	3.0	18.10	18.10	17.90	8.37	8.37	8.34	32.86	32.86	32.86	75.8	75.6	75.5	5.92	5.91	5.91	3.71	3.72	3.69	3	3.00
	4:29		Middle	3.0	17.70	17.70		8.30	8.30		32.85	32.85		75.3	75.2		5.90	5.89		3.68	3.63		3	

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
28/11/2013	10:43	Cloudy	Middle	2.5	21.60	21.60	21.60	8.37	8.37	8.37	35.30	35.30	35.30	64.6	65.1	64.6	4.64	4.68	4.64	5.04	5.06	5.05	7	6.50
	10:45		Middle	2.5	21.60	21.60		8.37	8.37		35.30	35.30		64.0	64.7		4.60	4.65		5.07	5.03		6	
30/11/2013	11:15	Fine	Middle	2.5	20.90	20.90	20.80	8.40	8.40	8.41	35.07	35.07	35.21	59.0	59.0	58.8	4.30	4.30	4.28	6.15	6.15	6.15	8	7.50
	11:17		Middle	2.5	20.70	20.70		8.42	8.42		35.34	35.34		58.5	58.5		4.26	4.26		6.14	6.15		7	
2/12/2013	0:26	Fine	Middle	2.5	20.80	20.80	20.60	8.44	8.44	8.44	35.43	35.43	35.44	68.4	68.2	68.0	5.00	4.99	4.98	5.76	5.98	5.88	6	5.50
	0:28		Middle	2.5	20.40	20.40		8.44	8.44		35.44	35.44		67.7	67.6		4.97	4.97		5.88	5.88		5	
4/12/2013	14:46	Fine	Middle	2.5	20.90	20.90	20.90	8.35	8.35	8.35	35.53	35.53	35.53	76.6	79.7	79.2	5.77	5.78	5.80	5.85	5.86	5.86	3	3.50
	14:48		Middle	2.5	20.90	20.90		8.35	8.35		35.53	35.53		80.0	80.4		5.81	5.85		5.87	5.86		4	
7/12/2013	3:10	Fine	Middle	2.5	20.30	20.30	20.30	8.41	8.41	8.41	35.57	35.57	35.57	77.1	77.5	76.9	5.66	5.69	5.66	3.63	3.63	3.63	6	6.50
	3:12		Middle	2.5	20.30	20.30		8.41	8.41		35.57	35.57		76.6	76.5		5.66	5.62		3.63	3.63		7	
9/12/2013	7:18	Fine	Middle	2.5	20.70	20.70	20.70	8.37	8.37	8.37	35.46	35.46	35.46	76.7	76.0	76.3	5.59	5.54	5.56	3.60	3.62	3.62	8	8.00
	7:20		Middle	2.5	20.70	20.70		8.37	8.37		35.46	35.46		76.1	76.2		5.55	5.56		3.63	3.62		8	
11/12/2013	18:50	Cloudy	Middle	2.5	20.50	20.50	20.50	8.11	8.11	8.11	32.51	32.51	32.54	76.8	78.1	77.9	5.73	5.82	5.81	5.50	5.48	5.46	4	4.00
	18:52		Middle	2.5	20.50	20.50		8.11	8.11		32.57	32.57		78.3	78.3		5.85	5.85		5.45	5.41		4	
13/12/2013	22:44	Cloudy	Middle	2.5	20.40	20.40	20.40	8.11	8.11	8.11	32.35	32.36	32.35	80.7	81.8	81.4	6.02	6.18	6.20	6.14	6.15	6.15	6	6.00
	22:46		Middle	2.5	20.40	20.40		8.11	8.11		32.34	32.35		82.4	80.8		6.19	6.39		6.14	6.16		6	
17/12/2013	0:47	Cloudy	Middle	2.5	19.50	19.50	19.45	8.17	8.16	8.17	32.62	32.61	32.62	79.6	80.2	79.7	6.02	6.19	6.06	4.34	4.32	4.33	4	4.00
	0:49		Middle	2.5	19.40	19.40		8.17	8.16		32.62	32.61		79.6	79.4		6.03	5.98		4.32	4.34		4	
19/12/2013	0:33	Fine	Middle	3.0	18.70	18.70	18.55	8.27	8.27	8.28	32.77	32.77	32.76	85.9	85.6	85.5	6.61	6.59	6.59	5.54	5.50	5.49	5	6.00
	0:35		Middle	3.0	18.40	18.40		8.28	8.28		32.74	32.74		85.4	85.2		6.58	6.57		5.47	5.46		7	
21/12/2013	1:52	Fine	Middle	3.0	18.60	18.60	18.50	8.25	8.25	8.25	32.82	32.82	32.82	85.3	85.0	85.0	6.57	6.55	6.55	3.47	3.48	3.56	4	4.00
	1:54		Middle	3.0	18.40	18.40		8.25	8.25		32.82	32.82		84.9	84.7		6.55	6.53		3.42	3.88		4	
24/12/2013	3:18	Fine	Middle	3.0	17.90	17.90	17.85	8.22	8.22	8.22	32.92	32.92	32.91	78.5	78.1	78.1	6.11	6.08	6.08	4.73	4.67	4.67	4	4.00
	3:20		Middle	3.0	17.80	17.80		8.21	8.21		32.90	32.90		78.0	77.7		6.08	6.06		4.65	4.63		4	
26/12/2013	4:43	Fine	Middle	3.0	17.60	17.60	17.55	8.19	8.19	8.19	32.84	32.84	32.83	74.6	74.2	74.1	5.85	5.82	5.82	2.57	2.55	2.53	2	2.00
	4:45		Middle	3.0	17.50	17.50		8.18	8.18		32.81	32.81		73.9	73.7		5.80	5.80		2.52	2.47		2	

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 (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
28/11/2013	10:32	Cloudy	Middle	2.5	21.70	21.70	21.70	8.36	8.36	8.36	35.28	35.28	35.29	64.0	64.1	64.5	4.59	4.60	4.63	5.13	5.12	5.12	8	7.50
	10:34		Middle	2.5	21.70	21.70		8.36	8.36		35.29	35.29		64.6	65.2		4.63	4.68		5.10	5.11		7	
30/11/2013	11:04	Fine	Middle	2.5	21.00	21.00	20.95	8.40	8.40	8.40	35.26	35.26	35.34	59.6	59.7	60.4	4.32	4.34	4.38	5.91	5.90	5.91	8	7.00
	11:06		Middle	2.5	20.90	20.90		8.40	8.40		35.41	35.41		61.1	61.1		4.43	4.44		5.90	5.92		6	
2/12/2013	0:19	Fine	Middle	2.5	20.50	20.50	20.40	8.42	8.42	8.43	35.43	35.43	35.44	69.6	69.4	69.1	5.10	5.09	5.07	4.84	4.91	4.83	4	4.00
	0:21		Middle	2.5	20.30	20.30		8.43	8.43		35.45	35.45		68.8	68.7		5.05	5.05		4.80	4.77		4	
4/12/2013	14:36	Fine	Middle	2.5	20.80	20.70	20.75	8.33	8.33	8.33	35.53	35.53	35.53	75.9	77.3	76.8	5.55	5.62	5.60	5.87	5.88	5.89	8	7.00
	14:38		Middle	2.5	20.80	20.70		8.33	8.33		35.53	35.53		76.9	77.1		5.61	5.63		5.90	5.89		6	
7/12/2013	3:00	Fine	Middle	2.5	20.40	20.40	20.40	8.39	8.39	8.39	35.58	35.58	35.58	73.6	74.4	73.8	5.40	5.47	5.42	3.63	3.63	3.63	8	8.50
	3:02		Middle	2.5	20.40	20.40		8.39	8.39		35.58	35.58		74.2	73.1		5.45	5.37		3.63	3.63		9	
9/12/2013	7:08	Fine	Middle	2.5	20.70	20.70	20.70	8.36	8.36	8.36	35.49	35.49	35.49	74.8	76.3	76.0	5.45	5.56	5.54	4.99	4.98	4.99	8	7.00
	7:10		Middle	2.5	20.70	20.70		8.36	8.36		35.49	35.49		76.0	76.9		5.54	5.61		4.99	4.98		6	
11/12/2013	18:55	Cloudy	Middle	2.5	20.60	20.60	20.60	8.11	8.11	8.11	32.54	32.54	32.54	80.5	80.2	79.5	5.99	5.99	5.93	5.22	5.22	5.22	5	4.50
	18:57		Middle	2.5	20.60	20.60		8.11	8.11		32.54	32.54		79.6	77.6		5.93	5.79		5.21	5.21		4	
13/12/2013	22:33	Cloudy	Middle	2.5	20.40	20.40	20.40	8.14	8.14	8.14	32.70	32.71	32.71	78.1	80.2	79.8	5.96	6.01	6.00	4.29	4.16	4.19	5	4.50
	22:35		Middle	2.5	20.40	20.40		8.14	8.14		32.71	32.70		80.7	80.2		6.04	5.99		4.15	4.15		4	
17/12/2013	0:37	Cloudy	Middle	2.5	19.50	19.40	19.45	8.18	8.17	8.18	32.57	32.57	32.58	83.5	83.0	83.0	6.33	6.30	6.30	4.39	4.38	4.39	4	4.50
	0:39		Middle	2.5	19.40	19.50		8.17	8.18		32.58	32.58		82.1	83.2		6.25	6.32		4.38	4.40		5	
19/12/2013	0:46	Fine	Middle	3.0	18.50	18.50	18.25	8.27	8.27	8.28	32.75	32.75	32.75	86.8	86.5	86.4	6.72	6.70	6.69	5.49	5.45	5.42	7	8.50
	0:48		Middle	3.0	18.00	18.00		8.28	8.28		32.75	32.75		86.2	85.9		6.68	6.66		5.38	5.36		10	
21/12/2013	2:06	Fine	Middle	3.0	18.70	18.70	18.65	8.27	8.27	8.27	32.83	32.83	32.83	84.1	83.8	83.7	6.46	6.44	6.44	3.62	3.59	3.57	4	3.50
	2:08		Middle	3.0	18.60	18.60		8.26	8.26		32.82	32.82		83.6	83.3		6.43	6.41		3.54	3.54		3	
24/12/2013	3:37	Fine	Middle	3.0	18.30	18.30	18.25	8.26	8.26	8.25	32.87	32.87	32.87	78.1	77.9	77.9	6.05	6.04	6.04	3.82	3.81	3.78	5	5.00
	3:39		Middle	3.0	18.20	18.20		8.24	8.24		32.86	32.86		77.8	77.6		6.04	6.02		3.76	3.72		5	
26/12/2013	4:56	Fine	Middle	3.0	17.70	17.70	17.60	8.22	8.22	8.22	32.79	32.79	32.79	75.4	75.1	75.0	5.91	5.89	5.88	2.98	2.95	2.93	3	3.00
	4:58		Middle	3.0	17.50	17.50		8.21	8.21		32.79	32.79		74.8	74.6		5.87	5.86		2.91	2.88		3	

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
28/11/2013	10:24	Cloudy	Middle	2.5	21.50	21.50	21.50	8.37	8.37	8.37	35.28	35.28	35.28	65.3	65.4	65.4	4.70	4.71	4.71	5.72	5.72	5.72	6	6.00
	10:26		Middle	2.5	21.50	21.50		8.37	8.37		35.28	35.28		65.3	65.4		4.70	4.71		5.72	5.73		6	
30/11/2013	10:57	Fine	Middle	2.5	20.90	20.90	20.80	8.42	8.42	8.42	35.40	35.40	35.42	63.3	63.6	62.5	4.60	4.64	4.55	4.62	4.60	4.60	6	5.00
	10:59		Middle	2.5	20.70	20.70		8.42	8.42		35.44	35.44		60.9	62.1		4.43	4.52		4.59	4.60		4	
2/12/2013	0:07	Fine	Middle	2.5	20.50	20.50	20.45	8.42	8.42	8.42	35.52	35.52	35.52	66.1	65.9	65.6	4.84	4.82	4.81	3.63	3.64	3.61	4	3.50
	0:09		Middle	2.5	20.40	20.40		8.42	8.42		35.51	35.51		65.4	65.1		4.80	4.78		3.59	3.56		3	
4/12/2013	14:30	Fine	Middle	2.5	20.70	20.70	20.70	8.30	8.30	8.30	35.54	35.53	35.54	78.8	79.6	79.1	5.76	5.81	5.77	5.45	5.46	5.44	6	5.50
	14:32		Middle	2.5	20.70	20.70		8.30	8.30		35.54	35.54		78.6	79.4		5.74	5.76		5.42	5.41		5	
7/12/2013	2:55	Fine	Middle	2.5	20.40	20.40	20.40	8.36	8.36	8.36	35.57	35.57	35.57	76.9	77.4	77.2	5.65	5.68	5.67	3.29	3.29	3.29	4	5.00
	2:57		Middle	2.5	20.40	20.40		8.36	8.36		35.57	35.57		77.1	77.2		5.67	5.67		3.29	3.29		6	
9/12/2013	7:01	Fine	Middle	2.5	20.70	20.70	20.70	8.35	8.35	8.35	35.50	35.50	35.50	71.9	72.8	72.3	5.24	5.31	5.27	5.02	5.02	5.02	10	11.00
	7:03		Middle	2.5	20.70	20.70		8.35	8.35		35.50	35.50		72.0	72.5		5.25	5.29		5.01	5.01		12	
11/12/2013	18:40	Cloudy	Middle	2.0	20.50	20.50	20.40	8.09	8.09	8.09	31.95	31.95	32.25	75.5	75.6	75.8	5.61	5.64	5.64	5.00	4.99	4.97	4	3.50
	18:42		Middle	2.0	20.30	20.30		8.09	8.09		32.54	32.54		76.2	75.7		5.69	5.61		4.96	4.94		3	
13/12/2013	22:27	Cloudy	Middle	2.5	20.30	20.30	20.30	8.11	8.11	8.11	32.66	32.57	32.62	79.1	79.3	79.2	5.90	5.92	5.91	4.20	4.10	4.13	5	4.50
	22:29		Middle	2.5	20.30	20.30		8.11	8.11		32.52	32.74		78.8	79.5		5.88	5.93		4.10	4.10		4	
17/12/2013	0:31	Cloudy	Middle	2.5	19.30	19.40	19.35	8.16	8.15	8.16	32.61	32.62	32.62	79.7	8.2	61.8	6.18	6.28	6.15	3.71	3.72	3.72	3	3.50
	0:33		Middle	2.5	19.40	19.30		8.15	8.16		32.62	32.61		79.4	80.0		6.04	6.09		3.72	3.71		4	
19/12/2013	0:55	Fine	Middle	3.0	18.30	18.30	18.20	8.26	8.26	8.26	32.73	32.73	32.73	83.4	83.2	83.1	6.46	6.45	6.44	5.67	5.68	5.64	6	6.00
	0:57		Middle	3.0	18.10	18.10		8.25	8.25		32.73	32.73		83.0	82.7		6.44	6.42		5.62	5.59		6	
21/12/2013	2:14	Fine	Middle	3.0	18.50	18.50	18.40	8.25	8.24	8.24	32.81	32.81	32.82	83.6	83.5	83.2	6.45	6.45	6.44	3.64	3.63	3.59	3	3.50
	2:16		Middle	3.0	18.30	18.30		8.24	8.24		32.82	32.82		83.1	82.7		6.43	6.41		3.55	3.52		4	
24/12/2013	3:46	Fine	Middle	3.0	18.30	18.30	18.30	8.20	8.20	8.20	32.88	32.88	32.87	79.1	78.6	78.5	6.14	6.11	6.10	3.75	3.71	3.70	4	4.00
	3:48		Middle	3.0	18.30	18.30		8.20	8.20		32.86	32.86		78.3	78.0		6.09	6.07		3.70	3.64		4	
26/12/2013	5:03	Fine	Middle	3.0	18.00	18.00	17.90	8.16	8.16	8.16	32.70	32.70	32.73	71.0	70.7	70.7	5.53	5.51	5.51	2.33	2.31	2.29	4	4.00
	5:05		Middle	3.0	17.80	17.80		8.16	8.16		32.76	32.76		70.6	70.4		5.51	5.49		2.25	2.25		4	

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
28/11/2013	9:50	Cloudy	Middle	3.5	20.70	20.70	20.65	8.07	8.07	8.07	31.99	31.99	31.99	80.2	80.5	79.8	5.97	5.99	5.93	4.38	4.39	4.39	6	5.50
	9:52		Middle	3.5	20.60	20.60		8.06	8.06		31.99	31.99		79.5	78.8		5.90	5.87		4.39	4.41		5	
30/11/2013	10:45	Fine	Middle	3.0	20.50	20.50	20.50	8.16	8.16	8.16	32.27	32.27	32.27	85.2	85.6	84.8	6.34	6.37	6.31	4.01	3.68	3.80	6	5.50
	10:47		Middle	3.0	20.50	20.50		8.16	8.16		32.27	32.27		85.0	83.5		6.32	6.20		3.73	3.79		5	
2/12/2013	1:05	Fine	Middle	3.0	19.70	19.60	19.63	8.21	8.21	8.21	33.23	33.23	33.23	75.8	76.0	76.2	5.71	5.72	5.74	2.60	2.67	2.66	4	3.50
	1:06		Middle	3.0	19.60	19.60		8.21	8.21		33.22	33.22		76.7	76.3		5.78	5.74		2.77	2.59		3	
4/12/2013	14:10	Fine	Middle	3.5	21.20	21.20	21.20	8.14	8.14	8.13	32.41	32.41	32.41	82.8	82.9	82.5	6.08	6.09	6.05	4.07	4.08	4.07	8	7.50
	14:12		Middle	3.5	21.20	21.20		8.12	8.12		32.41	32.41		81.9	82.2		5.98	6.03		4.06	4.07		7	
7/12/2013	3:25	Fine	Middle	3.0	19.10	19.10	19.10	8.15	8.15	8.15	33.26	33.26	33.26	74.4	75.3	74.7	5.66	5.71	5.67	1.89	1.83	1.85	5	6.00
	3:26		Middle	3.0	19.10	19.10		8.15	8.15		33.26	33.26		74.4	74.5		5.66	5.66		1.85	1.84		7	
9/12/2013	4:18	Fine	Middle	3.0	21.10	21.10	21.10	7.93	7.93	7.94	33.16	33.16	33.16	71.3	71.3	70.5	5.22	5.23	5.16	1.97	1.84	1.86	4	5.00
	4:19		Middle	3.0	21.10	21.10		7.94	7.94		33.16	33.16		70.0	69.2		5.13	5.07		1.80	1.82		6	
11/12/2013	21:05	Cloudy	Middle	3.0	20.10	20.10	20.10	8.05	8.05	8.06	33.37	33.37	33.39	76.8	78.0	77.8	5.73	5.82	5.81	2.52	2.60	2.56	5	4.50
	21:06		Middle	3.0	20.10	20.10		8.07	8.07		33.40	33.40		78.3	78.2		5.84	5.83		2.54	2.58		4	
13/12/2013	22:40	Cloudy	Middle	3.0	20.40	20.40	20.40	8.03	8.03	8.04	33.42	33.42	33.42	80.7	82.4	82.2	5.98	6.11	6.09	1.97	1.64	1.68	2	2.00
	22:41		Middle	3.0	20.40	20.40		8.05	8.05		33.42	33.42		82.3	83.4		6.10	6.18		1.57	1.52		2	
17/12/2013	1:25	Cloudy	Middle	3.0	17.10	17.10	17.10	8.08	8.08	8.09	31.93	31.94	31.94	71.9	72.6	72.3	5.76	5.79	5.76	2.21	2.02	2.03	3	3.00
	1:26		Middle	3.0	17.10	17.10		8.09	8.10		31.95	31.95		72.4	72.4		5.75	5.75		1.98	1.90		3	
19/12/2013	2:35	Fine	Middle	3.0	15.00	15.00	15.00	8.34	8.34	8.34	32.69	32.69	32.69	69.7	70.0	70.0	5.75	5.78	5.78	1.44	1.49	1.45	3	3.00
	2:36		Middle	3.0	15.00	15.00		8.34	8.34		32.69	32.69		70.2	70.2		5.80	5.80		1.47	1.41		3	
21/12/2013	2:30	Fine	Middle	3.0	17.20	17.20	17.20	8.32	8.32	8.32	33.36	33.36	33.36	77.9	76.8	77.5	6.13	6.05	6.10	1.61	1.55	1.64	9	6.00
	2:31		Middle	3.0	17.20	17.20		8.32	8.32		33.36	33.36		77.4	77.9		6.10	6.12		1.72	1.66		3	
24/12/2013	2:45	Fine	Middle	3.0	16.50	16.50	16.50	8.35	8.35	8.35	33.53	33.53	33.53	74.0	73.9	74.4	5.30	5.30	5.34	2.60	2.67	2.69	3	3.50
	2:46		Middle	3.0	16.50	16.50		8.34	8.34		33.52	33.52		75.0	74.7		5.38	5.36		2.72	2.75		4	
26/12/2013	4:45	Fine	Middle	3.0	16.10	16.10	16.10	8.08	8.08	8.09	32.94	32.94	32.94	65.3	66.5	66.4	5.27	5.37	5.36	1.37	1.35	1.39	2	2.00
	4:46		Middle	3.0	16.10	16.10		8.09	8.09		32.94	32.94		67.0	66.6		5.41	5.37		1.41	1.44		2	

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 (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
28/11/2013	9:41	Cloudy	Middle	1.5	21.70	21.70	21.70	8.41	8.41	8.41	33.61	33.62	33.62	53.7	54.0	54.0	3.90	3.92	3.92	4.48	4.50	4.50	8	7.00
	9:43		Middle	1.5	21.70	21.70		8.40	8.40		33.62	33.61		54.1	54.2		3.93	3.94		4.51	4.49		6	
30/11/2013	10:21	Fine	Middle	1.5	21.10	21.10	21.00	8.53	8.53	8.52	35.01	35.01	34.28	55.9	57.0	57.3	4.05	4.14	4.16	7.77	7.76	7.77	15	**15.50**
	10:23		Middle	1.5	20.90	20.90		8.50	8.50		35.05	32.05		58.4	58.0		4.24	4.21		7.76	7.78		16	
2/12/2013	23:10	Fine	Middle	2.5	20.70	20.70	20.65	8.53	8.53	8.50	35.02	35.02	35.02	56.2	56.0	55.8	4.11	4.10	4.08	3.24	3.21	3.22	3	3.00
	23:43		Middle	2.5	20.60	20.60		8.47	8.47		35.01	35.01		55.5	55.3		4.07	4.05		3.21	3.20		3	
4/12/2013	13:53	Fine	Middle	1.0	21.30	21.30	16.50	7.84	7.85	7.86	34.96	34.97	34.97	74.3	74.1	74.2	5.40	5.39	5.40	3.03	3.01	3.01	4	3.50
	13:55		Middle	1.0	21.20	2.20		7.87	7.86		34.96	34.97		74.4	73.8		5.41	5.38		2.98	3.00		3	
7/12/2013	2:19	Fine	Middle	2.0	20.80	20.80	20.80	8.38	8.38	8.38	34.73	34.73	34.73	62.0	62.7	62.3	4.53	4.58	4.55	4.95	4.96	4.95	16	**15.50**
	2:21		Middle	2.0	20.80	20.80		8.38	8.38		34.73	34.73		62.3	62.1		4.55	4.54		4.93	4.94		15	
9/12/2013	6:23	Fine	Middle	1.5	21.40	21.40	21.40	8.45	8.45	8.45	34.07	34.07	34.07	50.3	50.7	50.9	3.65	3.68	3.69	2.03	2.03	2.03	16	10.50
	6:25		Middle	1.5	21.40	21.40		8.45	8.45		34.07	34.07		51.1	51.3		3.71	3.73		2.03	2.03		5	
11/12/2013	18:20	Cloudy	Middle	2.0	20.80	20.80	20.70	8.12	8.12	8.12	32.51	32.51	32.51	74.4	74.8	74.6	5.51	5.55	5.53	5.24	5.40	5.42	3	3.00
	18:22		Middle	2.0	20.60	20.60		8.12	8.12		32.51	32.51		74.7	74.4		5.53	5.52		5.44	5.61		3	
13/12/2013	21:52	Cloudy	Middle	2.0	20.70	20.70	20.70	8.14	8.14	8.15	31.88	31.89	31.89	78.6	79.0	78.4	5.85	5.89	5.84	3.52	3.63	3.61	3	3.00
	21:54		Middle	2.0	20.70	20.70		8.15	8.15		31.88	31.89		78.2	77.9		5.82	5.81		3.64	3.63		3	
17/12/2013	23:45	Cloudy	Middle	2.0	19.20	19.10	19.15	8.19	8.19	8.19	31.16	31.16	31.16	63.7	66.9	64.7	4.98	5.12	4.99	7.33	7.34	7.34	10	10.00
	23:47		Middle	2.0	19.20	19.10		8.19	8.19		31.16	31.16		64.8	63.4		4.98	4.86		7.35	7.33		10	
19/12/2013	1:45	Fine	Middle	2.0	18.40	18.40	18.25	8.18	8.18	8.18	31.69	31.69	31.69	64.9	64.8	64.7	5.05	5.05	5.04	6.63	6.57	6.56	4	4.00
	1:47		Middle	2.0	18.10	18.10		8.17	8.17		31.69	31.69		64.6	64.3		5.03	5.02		6.54	6.48		4	
21/12/2013	2:54	Fine	Middle	2.0	18.80	18.80	18.70	8.17	8.17	8.17	31.74	31.74	31.77	71.4	71.2	71.1	5.51	5.50	5.50	4.98	4.94	4.91	9	8.00
	2:56		Middle	2.0	18.60	18.60		8.16	8.16		31.79	31.79		71.0	70.8		5.49	5.48		4.86	4.87		7	
24/12/2013	4:31	Fine	Middle	2.0	17.80	17.80	17.75	8.16	8.16	8.16	30.94	30.94	30.98	70.3	70.1	69.9	5.56	5.55	5.54	4.62	4.61	4.58	4	4.50
	4:33		Middle	2.0	17.70	17.70		8.15	8.15		31.01	31.01		69.8	69.2		5.53	5.50		4.56	4.53		5	
26/12/2013	5:46	Fine	Middle	2.0	17.70	17.70	17.60	8.18	8.18	8.18	32.42	32.42	32.42	78.4	78.0	77.8	6.16	6.14	6.13	3.52	3.53	3.50	3	3.00
	5:48		Middle	2.0	17.50	17.50		8.18	8.18		32.42	32.42		77.6	77.3		6.12	6.10		3.49	3.44		3	

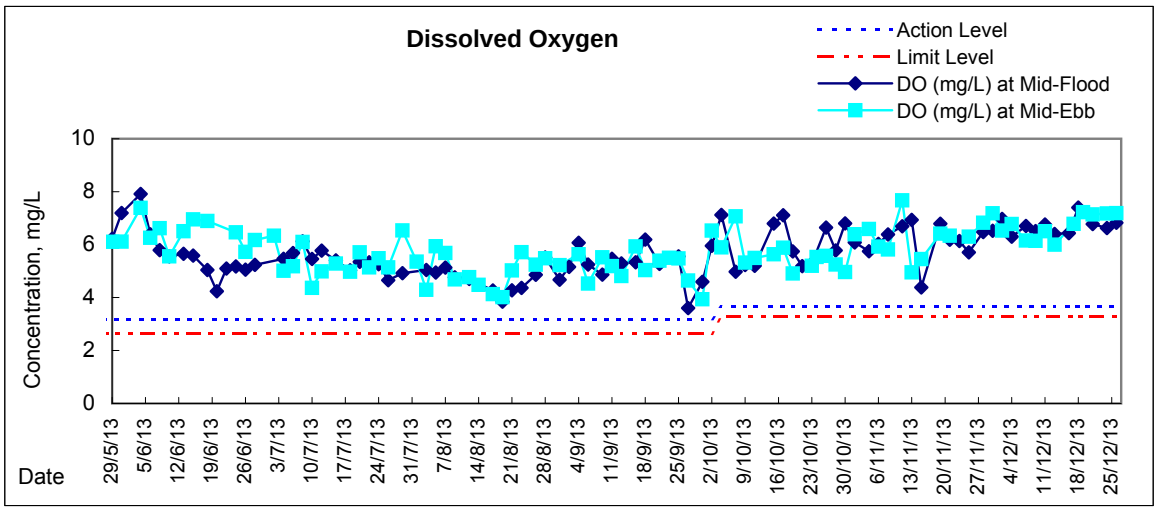
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

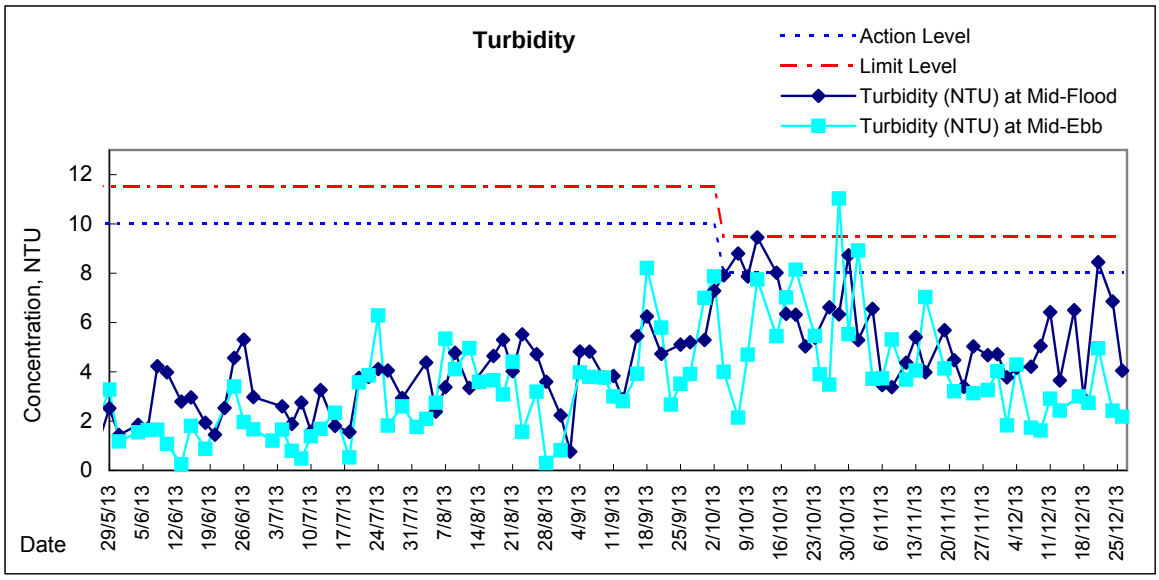
Water Monitoring Result at WSD19 - Sheung Wan
Mid-Ebb Tide

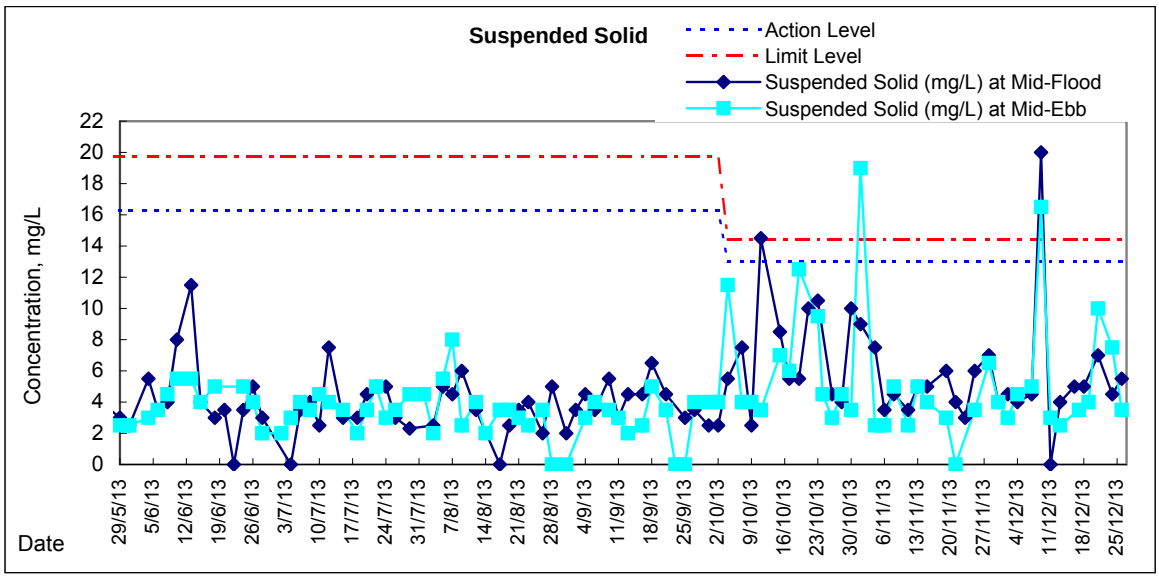
Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2013	9:18	Cloudy	Middle	3.0	20.60	20.60	20.45	8.09	8.09	8.08	32.03	32.03	32.04	85.9	84.8	84.9	6.41	6.34	6.35	6.10	6.08	6.06	8	7.50
	9:20		Middle	3.0	20.30	20.30		8.07	8.07		32.04	32.04		84.9	84.1		6.35	6.31		6.05	6.02		7	
30/11/2013	10:25	Fine	Middle	3.0	20.10	20.10	20.05	8.17	8.17	8.17	32.28	32.28	32.26	80.3	80.7	80.6	6.03	6.07	6.06	6.31	6.11	6.12	9	8.00
	10:27		Middle	3.0	20.00	20.00		8.16	8.16		32.24	32.24		80.6	80.9		6.06	6.08		6.04	6.03		7	
2/12/2013	3:05	Fine	Middle	1.5	20.00	20.00	19.98	8.26	8.26	8.26	33.16	33.25	33.21	78.4	79.5	78.8	5.89	5.95	5.91	5.07	5.16	5.06	4	4.00
	3:06		Middle	1.5	19.90	20.00		8.26	8.26		33.16	33.26		79.1	78.3		5.93	5.87		5.02	4.99		4	
4/12/2013	13:50	Fine	Middle	3.0	21.40	21.40	21.35	8.13	8.13	8.12	32.45	32.45	32.45	84.3	84.7	84.6	6.18	6.21	6.20	18.25	18.17	**18.28**	8	8.00
	13:52		Middle	3.0	21.30	21.30		8.11	8.11		32.45	32.45		84.6	84.6		6.20	6.20		18.33	18.35		8	
7/12/2013	5:17	Fine	Middle	1.5	19.60	19.60	19.55	7.99	7.99	8.00	32.86	32.86	32.92	75.6	75.9	75.0	5.71	5.74	5.67	4.09	4.11	4.15	9	8.00
	5:18		Middle	1.5	19.50	19.50		8.02	8.01		32.97	32.97		73.9	74.5		5.59	5.63		4.24	4.16		7	
9/12/2013	6:00	Fine	Middle	1.5	20.80	20.80	20.80	8.03	8.03	8.04	33.12	33.12	33.13	73.8	74.7	74.1	5.15	5.50	5.24	4.37	4.32	4.21	17	13.00
	6:01		Middle	1.5	20.80	20.80		8.04	8.04		33.13	33.13		74.1	73.7		5.16	5.13		4.04	4.10		9	
11/12/2013	21:40	Cloudy	Middle	1.5	20.20	20.20	20.20	8.29	8.29	8.29	33.45	33.49	33.36	79.1	79.6	79.5	5.39	5.94	5.80	5.33	5.40	5.34	6	6.00
	21:41		Middle	1.5	20.20	20.20		8.29	8.29		33.12	33.37		79.4	79.8		5.92	5.95		5.43	5.21		6	
13/12/2013	0:46	Cloudy	Middle	1.5	20.40	20.40	20.40	8.23	8.23	8.23	33.63	33.63	33.63	79.3	79.4	79.2	5.87	5.88	5.86	3.54	3.43	3.41	3	4.00
	0:47		Middle	1.5	20.40	20.40		8.23	8.23		33.63	33.63		79.1	78.8		5.86	5.84		3.34	3.31		5	
17/12/2013	3:10	Cloudy	Middle	1.5	17.40	17.40	17.40	8.34	8.34	8.34	33.28	33.28	33.34	73.3	74.6	74.5	5.75	5.87	5.85	5.57	5.63	5.46	6	6.50
	3:11		Middle	1.5	17.40	17.40		8.33	8.33		33.39	33.39		75.3	74.8		5.91	5.87		5.33	5.29		7	
19/12/2013	4:22	Fine	Middle	1.5	16.40	16.40	16.40	8.32	8.32	8.32	33.42	33.45	33.45	76.6	78.5	77.8	6.12	6.28	6.23	3.92	3.80	3.80	13	10.00
	4:23		Middle	1.5	16.40	16.40		8.32	8.32		33.46	33.46		77.7	78.3		6.23	6.27		3.77	3.70		7	
21/12/2013	4:46	Fine	Middle	1.5	17.40	17.40	17.40	8.34	8.34	8.34	33.56	33.54	33.55	76.9	77.0	77.2	6.02	6.03	6.04	3.67	3.42	3.51	6	6.00
	4:47		Middle	1.5	17.40	17.40		8.34	8.34		33.54	33.55		77.2	77.5		6.05	6.07		3.46	3.48		6	
24/12/2013	4:40	Fine	Middle	1.5	16.80	16.80	16.75	8.32	8.32	8.31	33.73	33.73	33.74	76.6	77.3	76.9	6.07	6.12	6.09	3.94	4.02	4.02	7	6.50
	4:41		Middle	1.5	16.70	16.70		8.30	8.30		33.74	33.74		76.9	76.8		6.09	6.09		3.99	4.11		6	
26/12/2013	4:25	Fine	Middle	1.5	16.10	16.10	16.05	8.09	8.09	8.11	33.54	33.55	33.55	76.9	77.4	77.0	6.20	6.23	6.20	2.52	2.43	2.49	4	4.00
	4:26		Middle	1.5	16.00	16.00		8.12	8.12		33.56	33.56		77.2	76.6		6.20	6.15		2.55	2.46		4	

Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

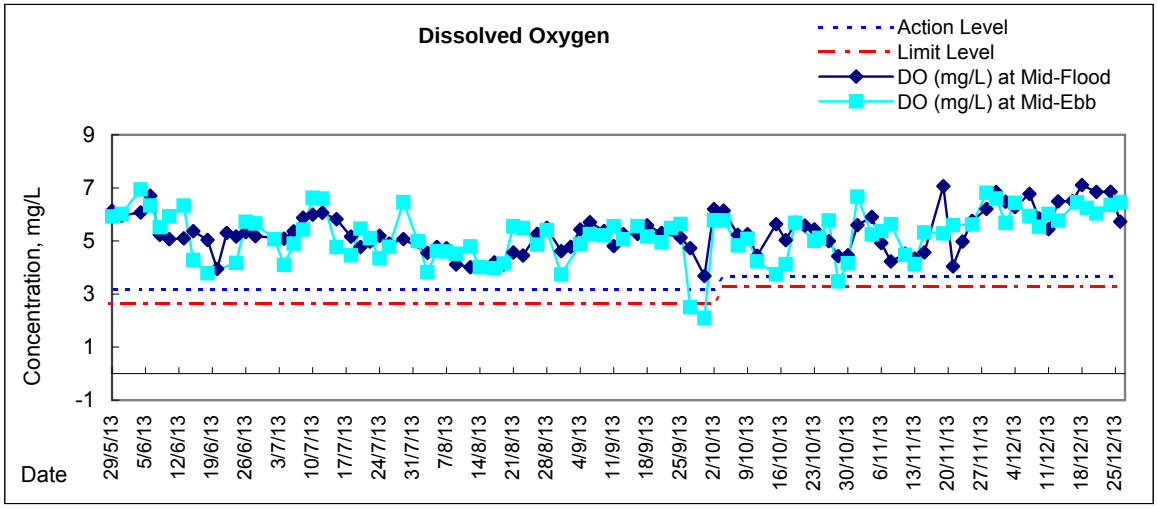
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

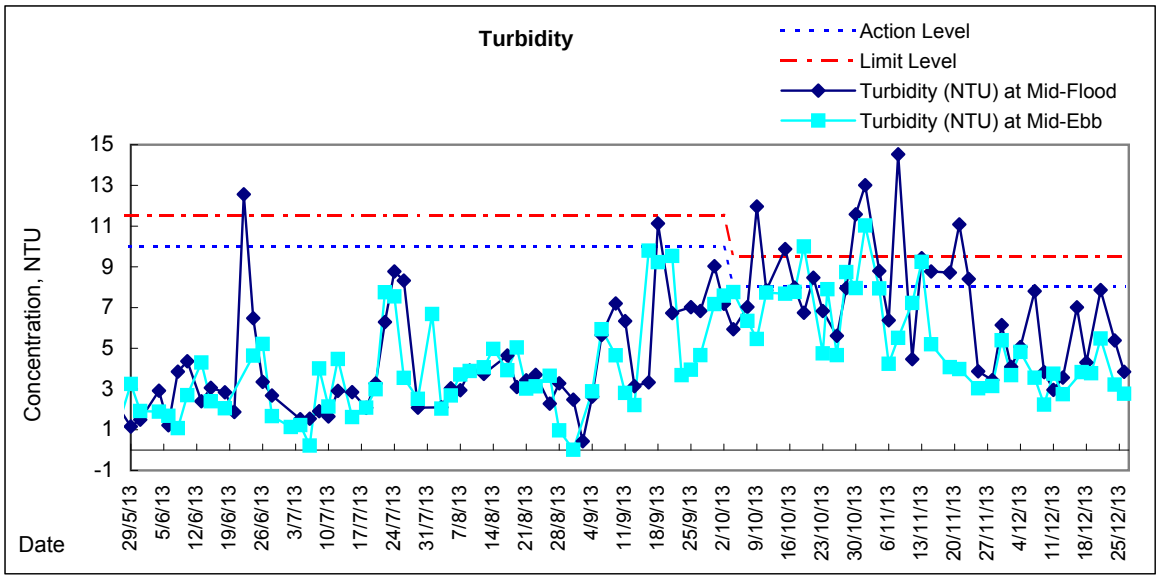


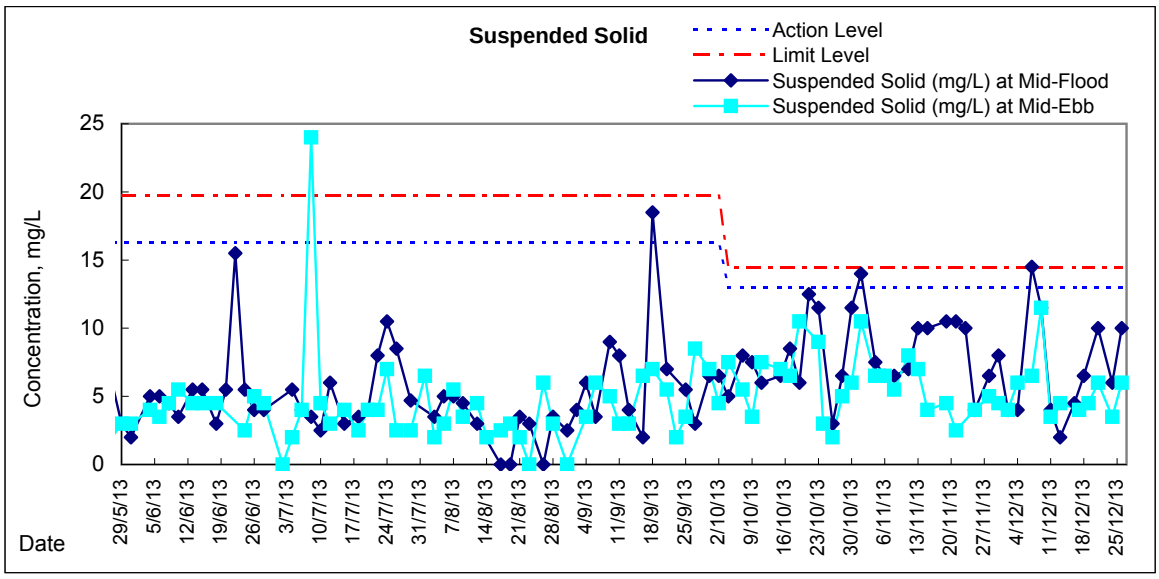




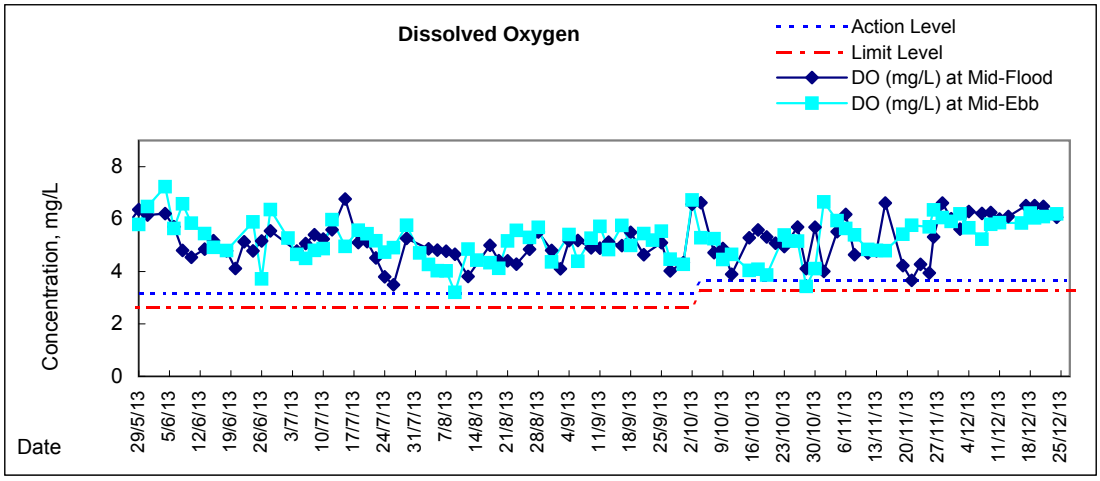
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

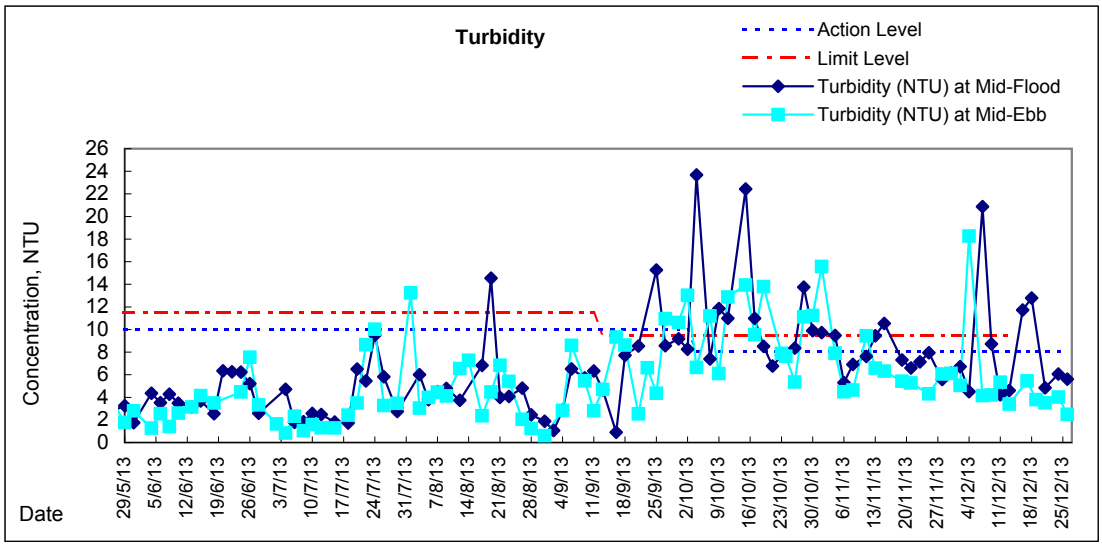


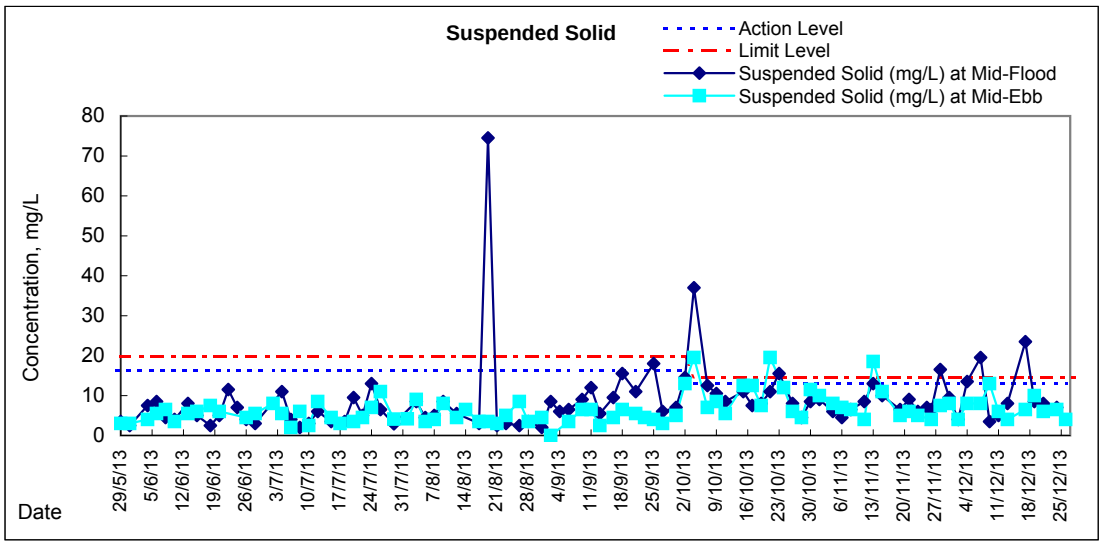




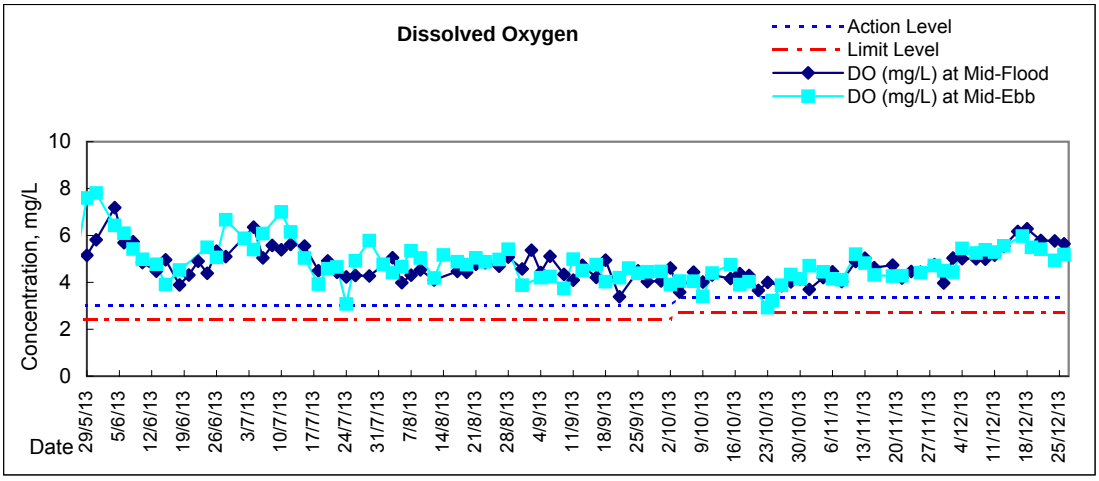
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

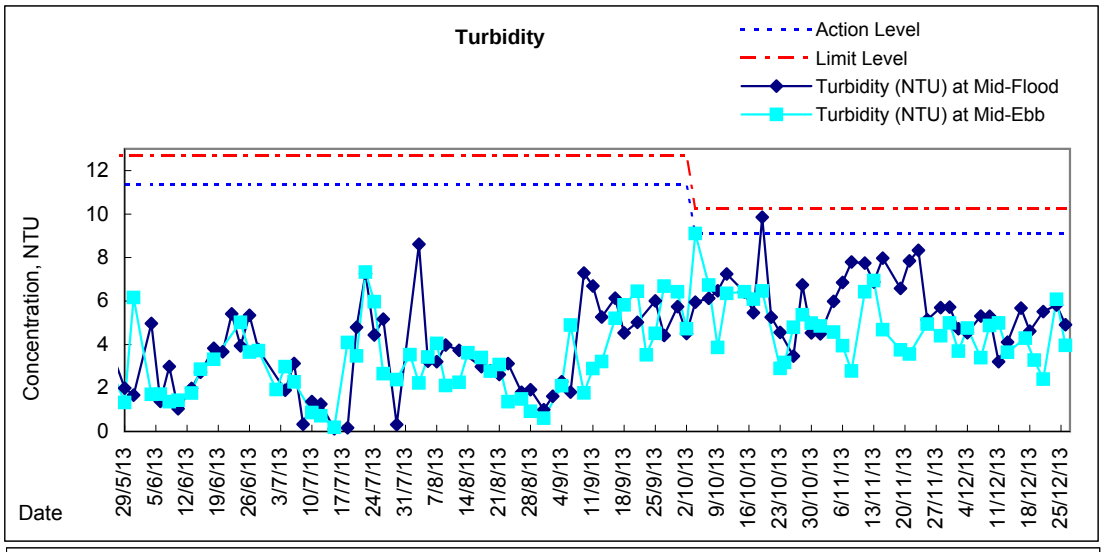


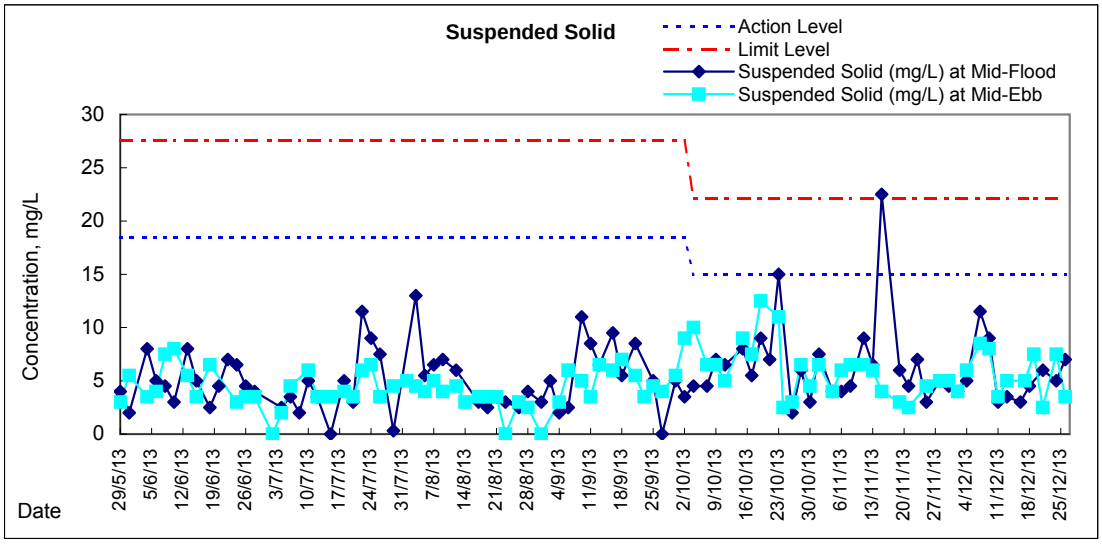




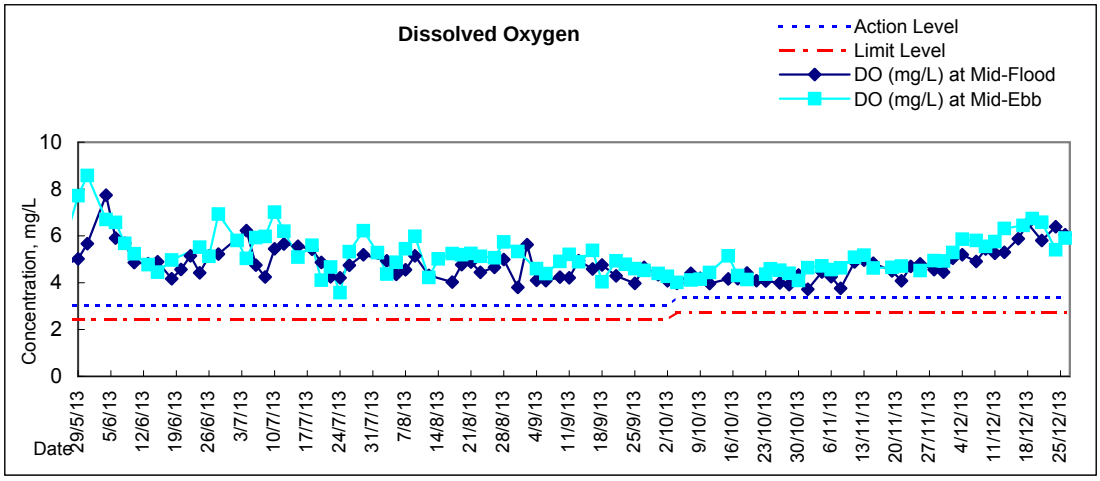
Graphic Presentation of Water Quality Result of C1 - HKCEC

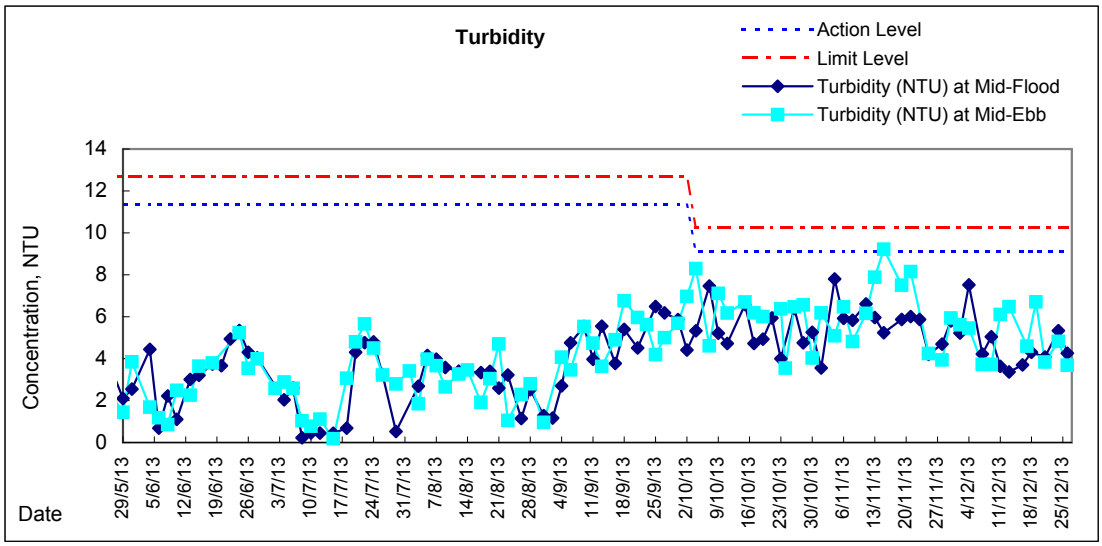


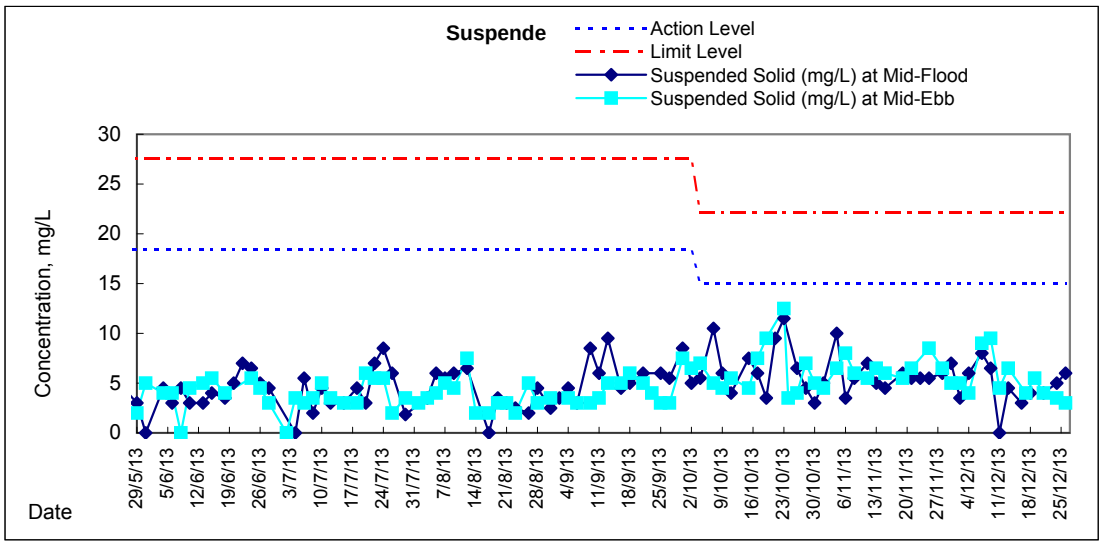




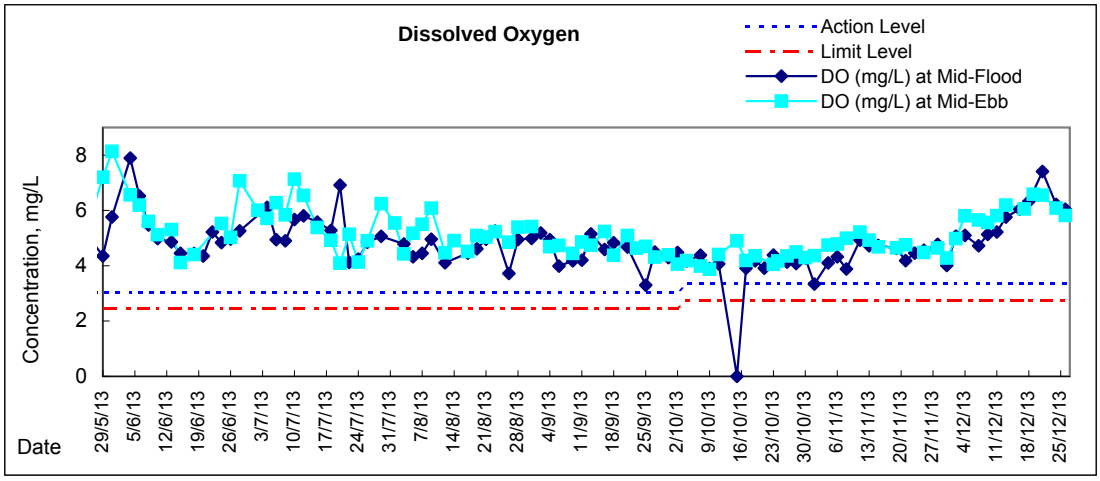
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

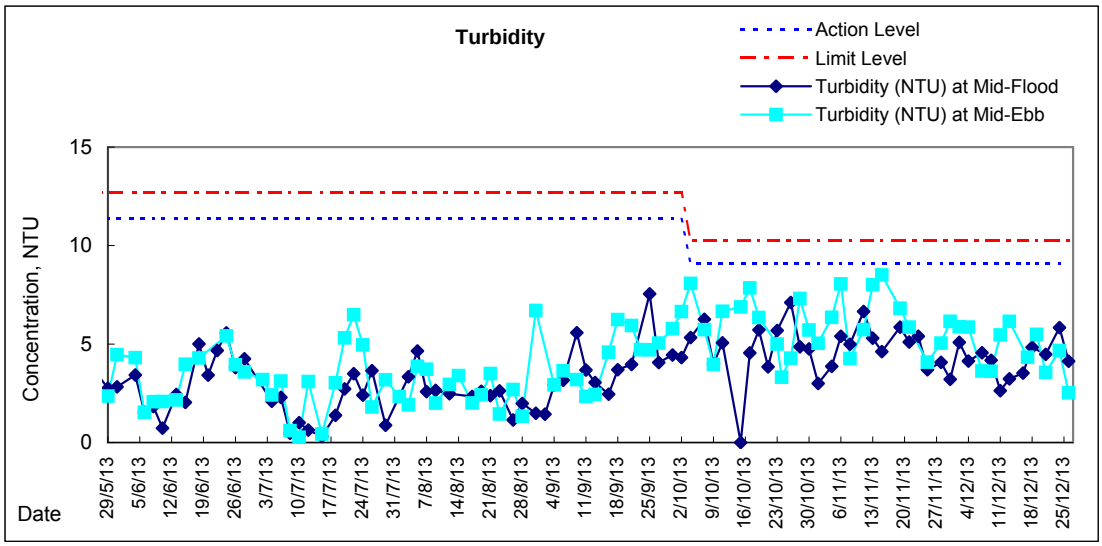


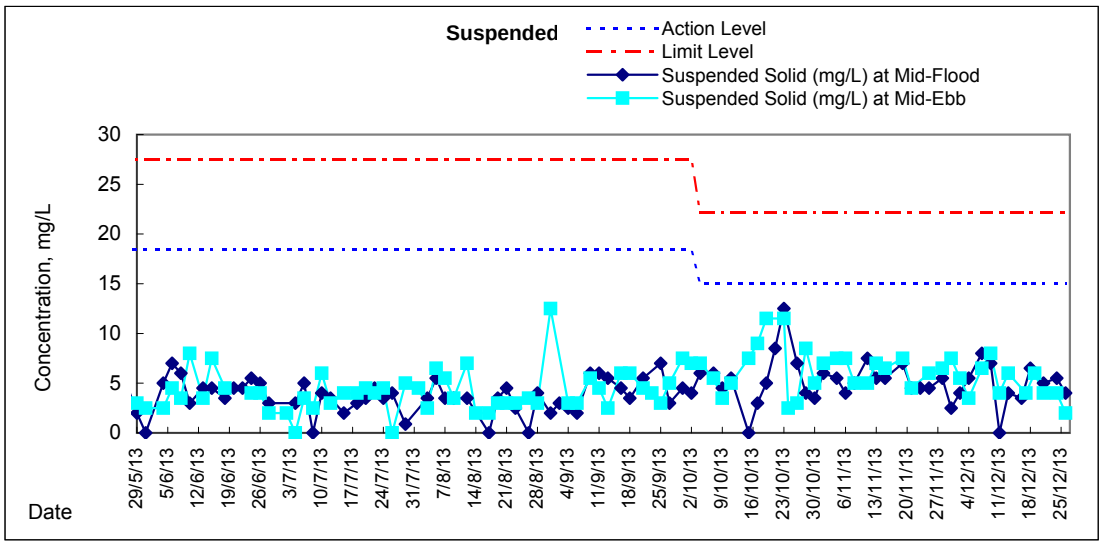




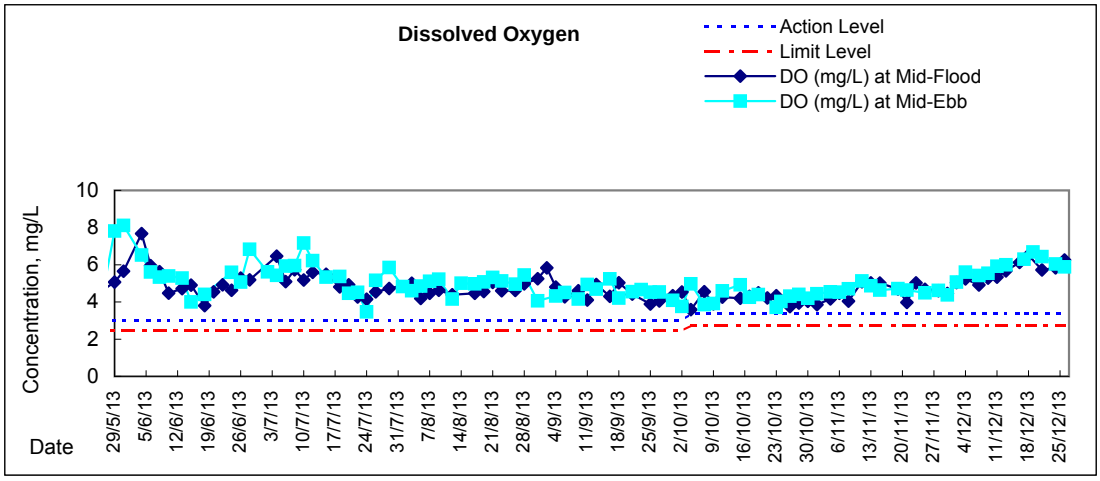
Graphic Presentation of Water Quality Result of P3 - APA

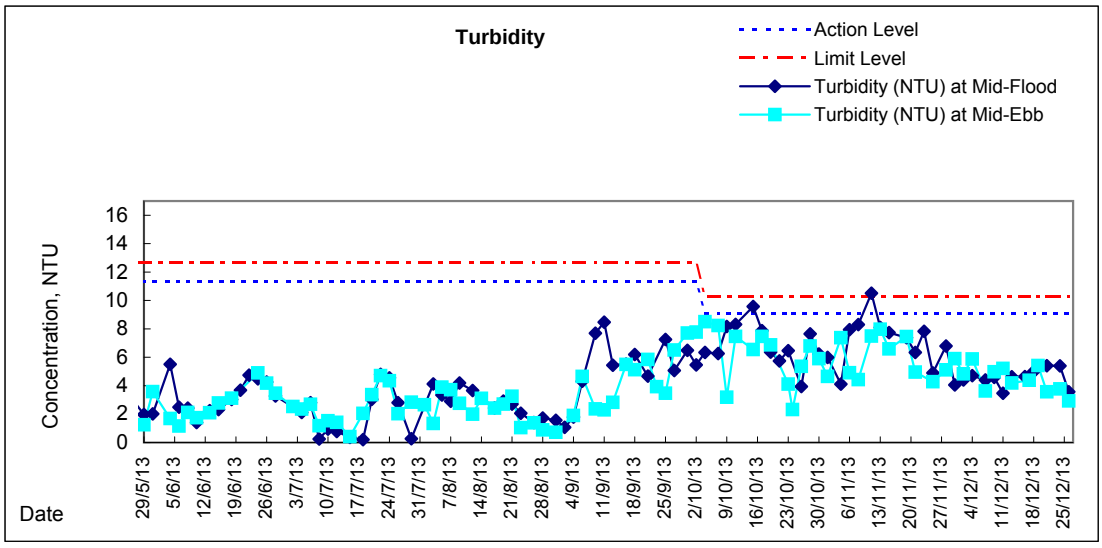


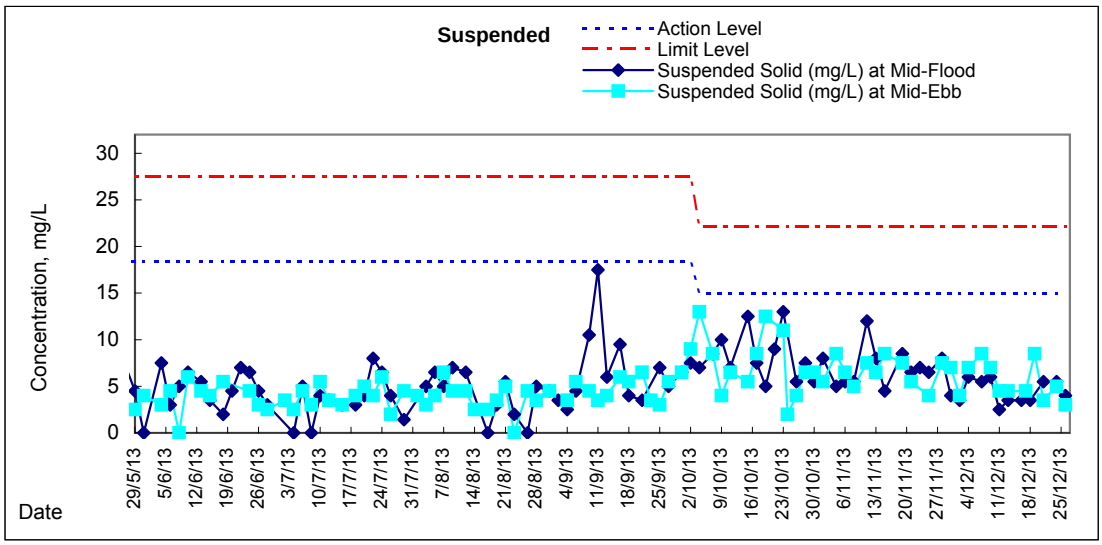




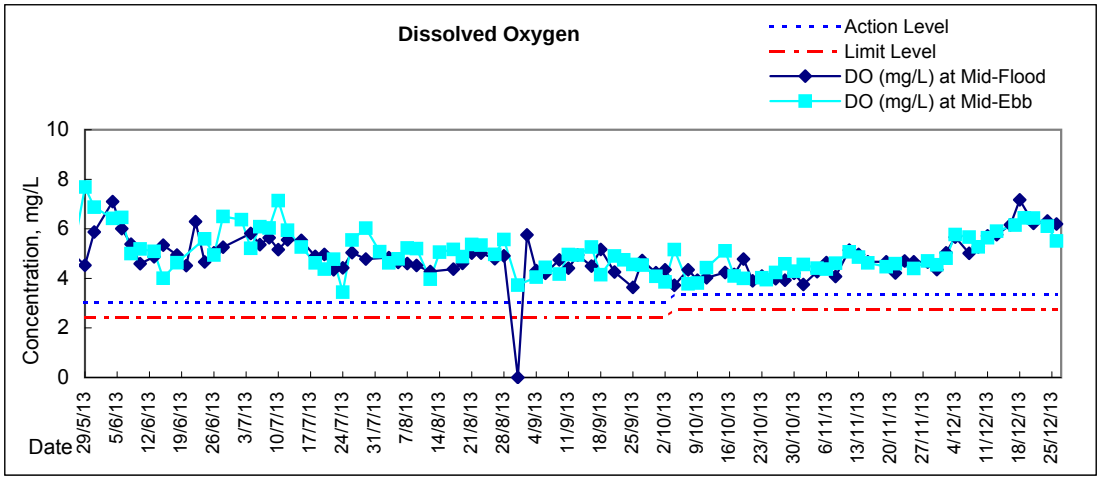
Graphic Presentation of Water Quality Result of P4 - SOC

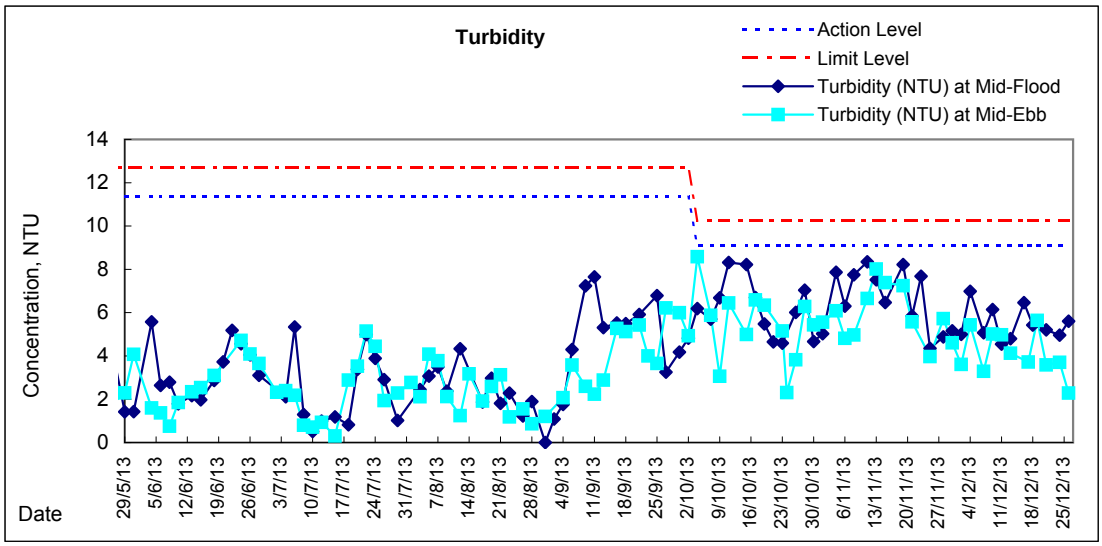


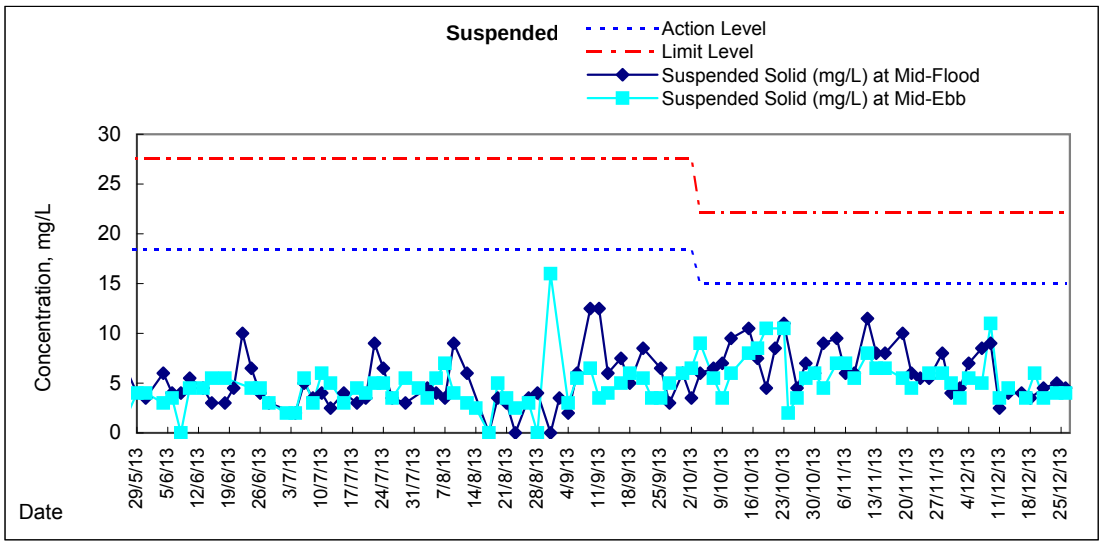




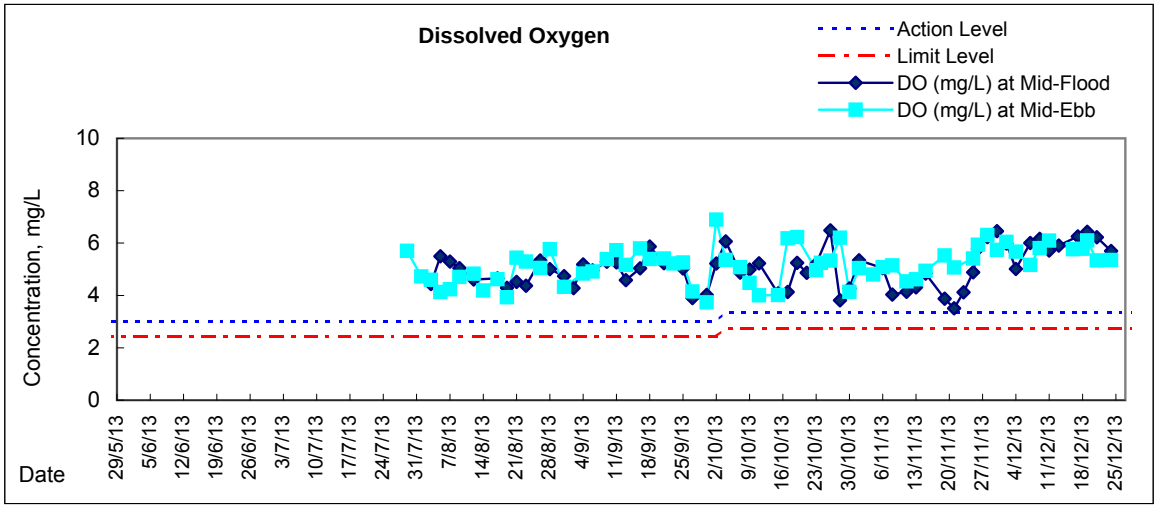
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

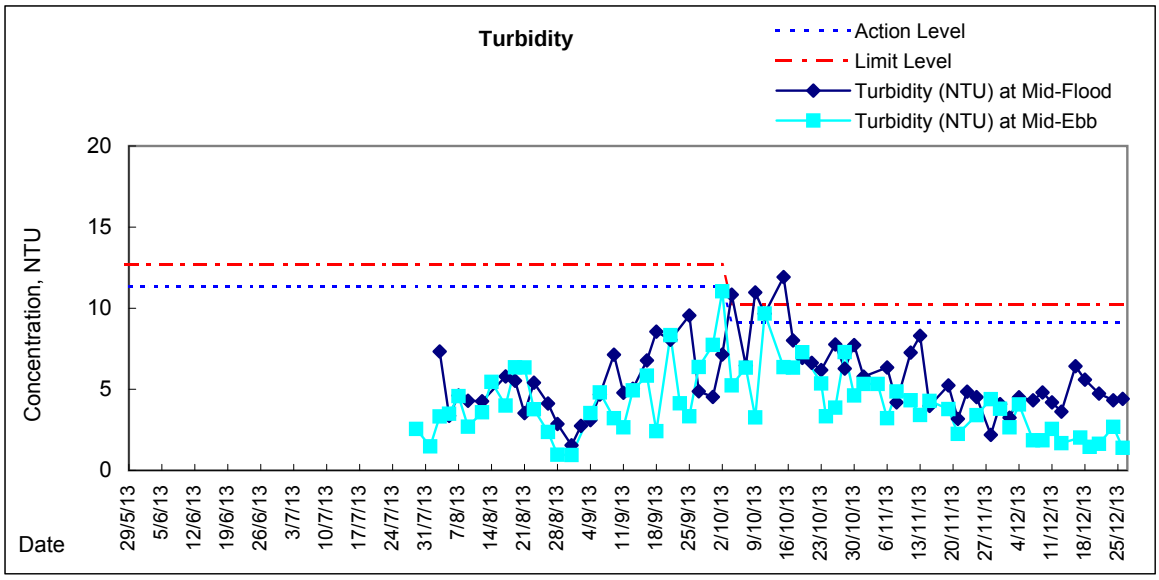


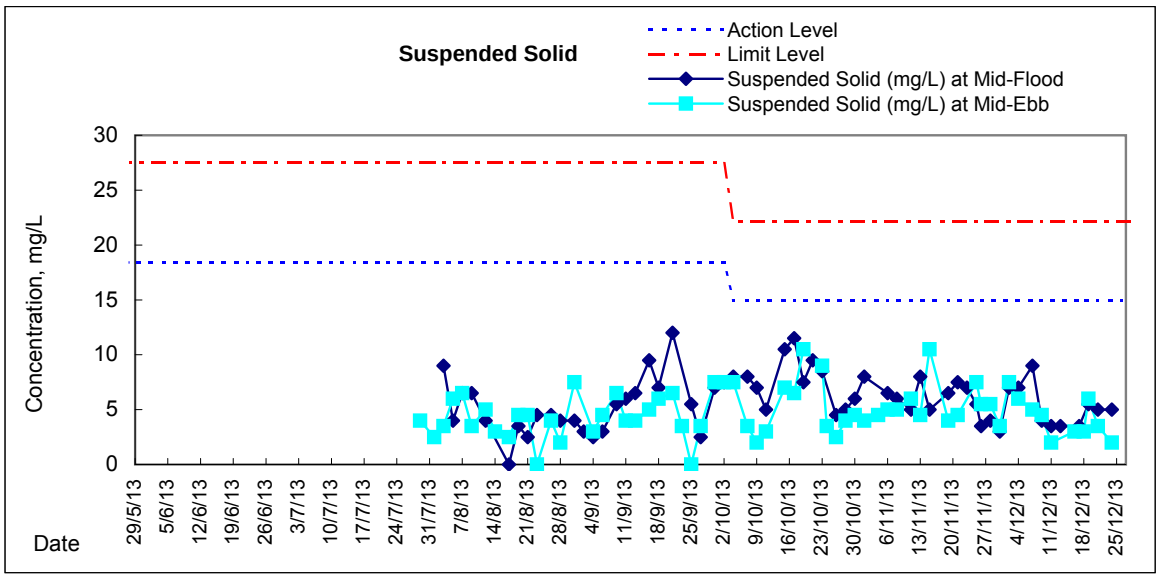




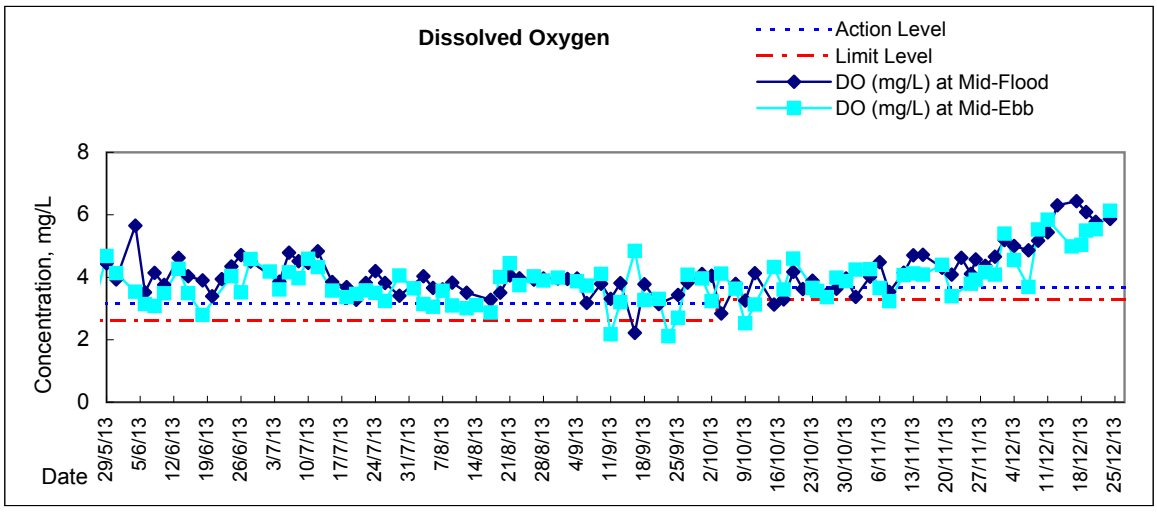
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

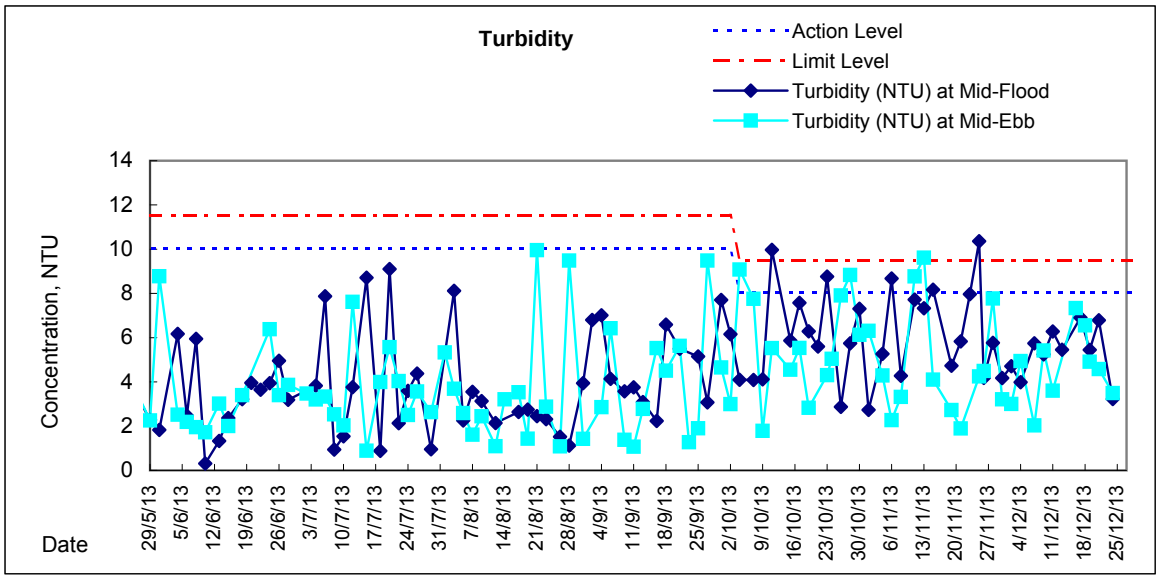


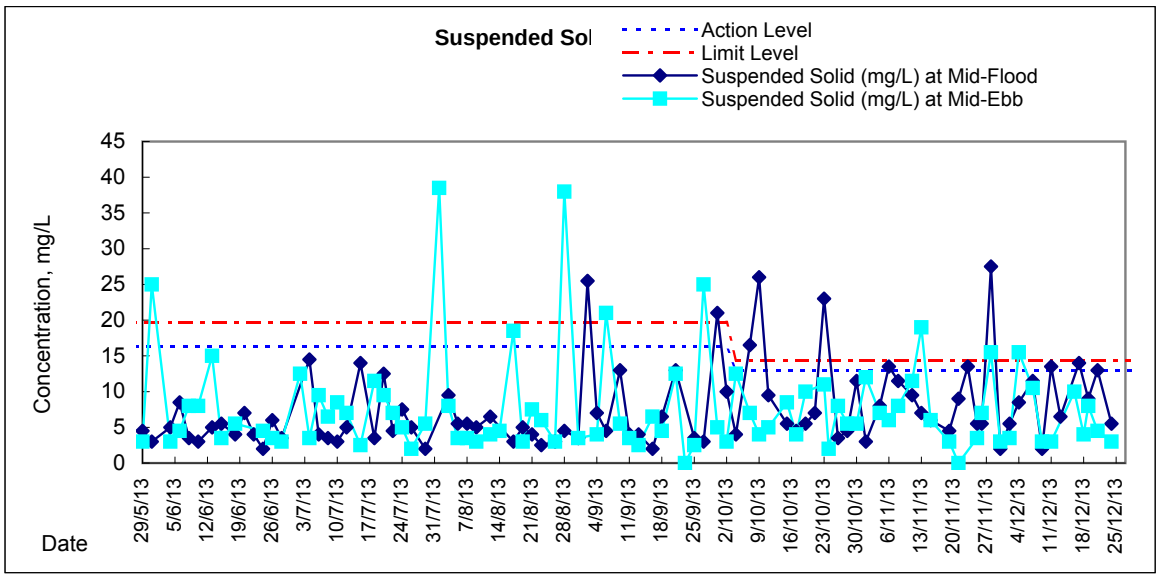




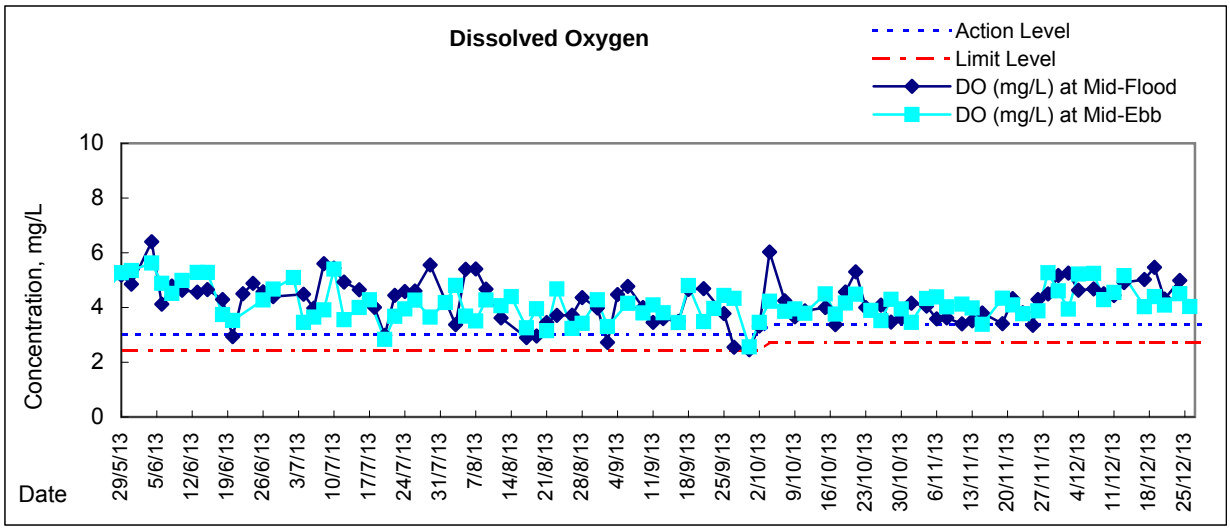
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

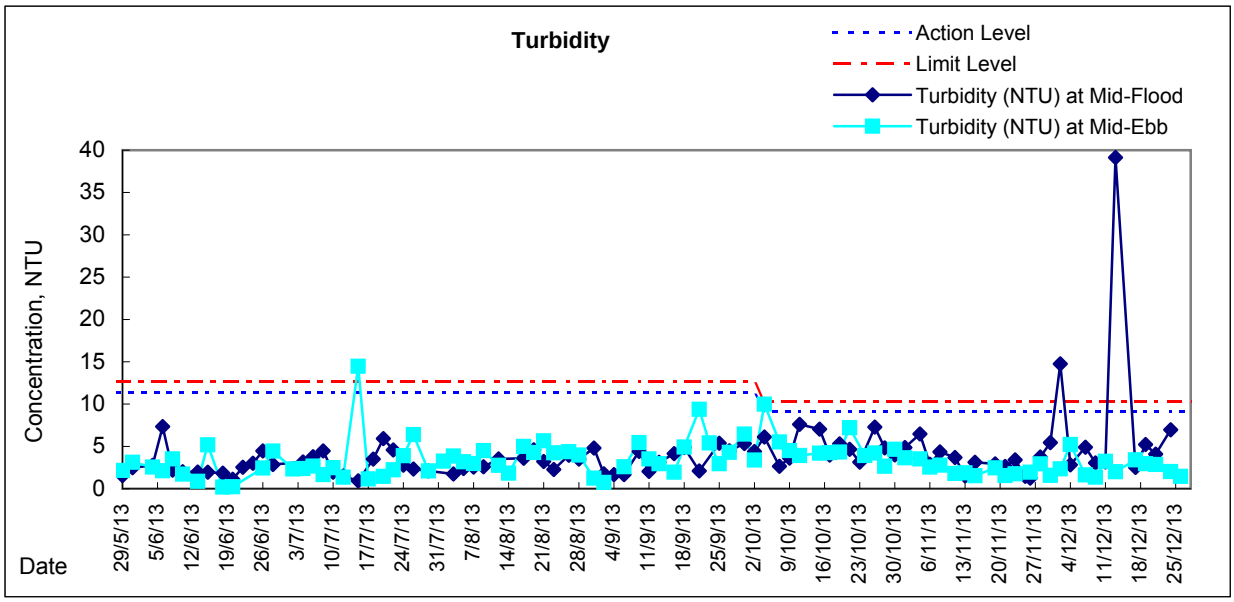


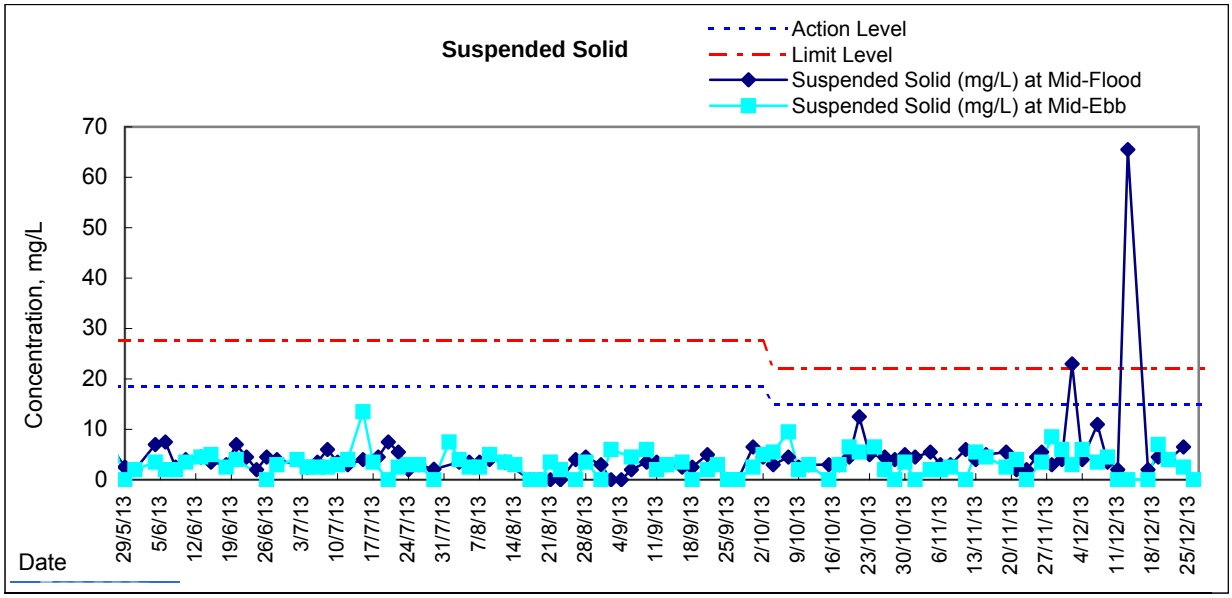




Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Date	Time	Weather 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
28/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:05		Middle	1.5	21.70	21.70	21.7	8.07	8.07	8.1	31.18	31.18	31.2	70.4	70.8	70.6	5.17	5.20	5.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:50		Middle	1.5	21.10	21.10	21.1	8.11	8.11	8.1	31.40	31.40	31.4	79.3	79.0	79.2	5.87	5.84	5.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:20		Middle	1.5	21.20	21.20	21.2	8.11	8.11	8.1	31.62	31.62	31.6	72.3	72.0	72.2	5.32	5.30	5.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:35		Middle	1.5	20.00	20.00	20.0	8.05	8.05	8.1	32.36	32.36	32.4	80.6	80.6	80.6	6.07	6.07	6.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:19		Middle	1.5	20.70	20.70	20.7	8.09	8.09	8.1	31.76	31.76	31.8	80.0	79.5	79.8	5.95	5.91	5.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:37		Middle	1.5	21.50	21.50	21.5	8.06	8.06	8.1	31.80	31.80	31.8	70.4	71.9	71.2	5.16	5.26	5.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:06		Middle	1.5	21.20	21.20	21.2	8.09	8.09	8.1	31.73	31.73	31.7	80.8	80.5	80.7	5.95	5.93	5.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:30		Middle	1.5	20.90	20.90	20.9	8.19	8.19	8.2	32.92	32.92	32.9	68.4	68.3	68.4	5.83	5.83	5.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:40		Middle	1.5	19.00	19.00	19.0	8.24	8.24	8.2	32.04	32.04	32.0	67.6	67.5	67.6	5.20	5.19	5.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:15		Middle	1.5	18.40	18.40	18.4	8.33	8.33	8.3	34.07	34.07	34.1	85.7	85.4	85.6	6.57	6.55	6.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:25		Middle	1.5	18.40	18.40	18.4	8.40	8.40	8.4	35.11	35.11	35.1	58.9	58.8	58.9	4.48	4.48	4.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:45		Middle	1.5	18.50	18.50	18.5	8.46	8.46	8.5	35.29	35.29	35.3	74.3	74.4	74.4	5.65	5.66	5.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:30		Middle	1.0	18.00	18.00	18.0	8.07	8.07	8.1	31.96	31.96	32.0	73.7	73.9	73.8	5.76	5.79	5.78
	-		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
28/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:15		Middle	1.5	21.40	21.40	21.4	8.02	8.02	8.0	31.05	31.05	31.1	56.7	57.2	57.0	4.19	4.22	4.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:00		Middle	1.5	20.90	20.90	20.9	8.09	8.09	8.1	31.30	31.30	31.3	61.3	60.9	61.1	4.55	4.52	4.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:22		Middle	1.5	21.20	21.20	21.2	8.08	8.08	8.1	31.73	31.73	31.7	68.8	68.9	68.9	5.06	5.06	5.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:25		Middle	1.5	19.80	19.80	19.8	8.13	8.13	8.1	32.75	32.75	32.8	71.4	71.7	71.6	5.37	5.40	5.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:30		Middle	1.5	20.90	20.90	20.9	8.07	8.07	8.1	31.68	31.68	31.7	60.3	60.4	60.4	4.47	4.48	4.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:45		Middle	1.5	21.60	21.60	21.6	8.05	8.05	8.1	31.91	31.91	31.9	61.1	61.8	61.5	4.45	4.50	4.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:15		Middle	1.5	21.20	21.20	21.2	8.06	8.06	8.1	31.80	31.80	31.8	58.7	60.1	59.4	4.31	4.41	4.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:45		Middle	1.5	20.70	20.70	20.7	8.16	8.16	8.2	32.60	32.60	32.6	59.9	60.8	60.4	4.43	4.50	4.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:50		Middle	1.5	18.40	18.40	18.4	8.24	8.24	8.2	32.03	32.03	32.0	59.5	60.7	60.1	4.63	4.73	4.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:20		Middle	1.5	18.30	18.30	18.3	8.35	8.35	8.4	34.16	34.16	34.2	63.5	64.4	64.0	4.95	4.99	4.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:30		Middle	1.5	18.50	18.50	18.5	8.48	8.48	8.5	35.13	35.13	35.1	69.3	69.9	69.6	5.27	5.31	5.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:00		Middle	1.5	18.60	18.60	18.6	8.44	8.44	8.4	35.26	35.26	35.3	56.0	55.8	55.9	4.25	4.24	4.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:20		Middle	1.0	17.50	17.50	17.5	8.29	8.29	8.3	32.02	32.02	32.0	62.9	63.3	63.1	4.97	5.00	4.99
	-		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	m	Water Temperature	°C		pH	-		Salinity	ppt		DO Saturation	%		DO	mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:57		Middle	1.5	21.60	21.60	21.6	8.06	8.06	8.1	31.79	31.79	31.8	82.7	83.0	82.9	6.06	6.09	6.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:47		Middle	1.5	20.60	20.60	20.6	8.13	8.13	8.1	31.65	31.65	31.7	89.8	90.0	89.9	6.69	6.70	6.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:07		Middle	1.5	20.90	20.90	20.9	8.10	8.10	8.1	31.86	31.86	31.9	86.6	86.3	86.5	6.41	6.36	6.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:41		Middle	1.5	20.10	20.10	20.1	8.17	8.17	8.2	30.52	30.52	30.5	48.6	48.9	48.8	3.70	3.71	3.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Middle	1.5	20.60	20.60	20.6	8.11	8.11	8.1	31.99	31.99	32.0	80.4	79.6	80.0	5.99	5.94	5.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:12		Middle	1.5	21.50	21.50	21.5	8.08	8.08	8.1	31.21	31.21	31.2	86.6	86.7	86.7	6.36	6.36	6.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:02		Middle	1.5	21.40	21.40	21.4	8.09	8.09	8.1	31.86	31.86	31.9	72.8	70.8	71.8	5.35	5.20	5.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:17		Middle	1.5	20.80	20.80	20.8	8.19	8.19	8.2	32.68	32.68	32.7	60.7	60.7	60.7	4.48	4.49	4.49
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:37		Middle	1.5	18.40	18.40	18.4	8.26	8.26	8.3	32.91	32.91	32.9	85.6	85.5	85.6	6.61	6.61	6.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:07		Middle	1.5	18.30	18.30	18.3	8.37	8.37	8.4	32.10	32.10	32.1	83.9	83.9	83.9	6.52	6.53	6.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:17		Middle	1.5	18.20	18.20	18.2	8.51	8.51	8.5	34.79	34.79	34.8	74.7	71.1	72.9	5.72	5.45	5.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:37		Middle	1.5	18.00	18.00	18.0	8.47	8.47	8.5	35.16	35.16	35.2	89.6	89.4	89.5	6.87	6.85	6.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:05		Middle	1.0	18.10	18.10	18.1	8.27	8.27	8.3	21.37	21.37	21.4	46.7	47.4	47.1	3.90	3.96	3.93
	-		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	m	Water Temperature	°C		pH	-		Salinity	ppt		DO Saturation	%		DO	mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:55		Middle	1.5	21.20	21.20	21.2	8.08	8.08	8.1	31.67	31.67	31.7	80.6	80.4	80.5	5.95	5.94	5.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:45		Middle	1.5	20.70	20.70	20.7	8.14	8.14	8.1	31.79	31.79	31.8	91.5	91.1	91.3	6.80	6.77	6.79
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:05		Middle	1.5	20.30	20.30	20.3	8.14	8.14	8.1	31.63	31.63	31.6	82.9	82.7	82.8	6.15	6.13	6.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:48		Middle	1.5	20.00	19.80	19.9	8.08	8.08	8.1	30.35	30.39	30.4	51.8	53.1	52.5	3.95	4.05	4.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:09		Middle	1.5	20.50	20.50	20.5	8.11	8.11	8.1	31.92	31.92	31.9	79.7	80.5	80.1	5.95	6.00	5.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:09		Middle	1.5	21.10	21.10	21.1	8.05	8.05	8.1	31.79	31.79	31.8	72.9	73.3	73.1	5.38	5.41	5.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:00		Middle	1.5	21.20	21.20	21.2	8.11	8.11	8.1	31.84	31.84	31.8	804.0	80.4	442.2	5.91	5.90	5.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:15		Middle	1.5	23.20	23.20	23.2	8.20	8.20	8.2	33.17	33.17	33.2	88.0	83.5	85.8	6.48	6.15	6.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:30		Middle	1.5	18.10	18.10	18.1	8.27	8.27	8.3	32.88	32.88	32.9	78.0	77.9	78.0	6.07	6.07	6.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:05		Middle	1.5	17.80	17.80	17.8	8.32	8.32	8.3	34.85	34.85	34.9	86.9	85.7	86.3	6.71	6.67	6.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:15		Middle	1.5	18.20	18.20	18.2	8.51	8.51	8.5	34.75	34.75	34.8	84.8	84.6	84.7	6.50	6.49	6.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:35		Middle	1.5	18.20	18.20	18.2	8.48	8.48	8.5	34.76	34.76	34.8	78.2	77.3	77.8	6.00	5.93	5.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:11		Middle	1.0	18.30	18.30	18.3	8.39	8.38	8.4	21.97	21.97	22.0	52.6	52.1	52.4	4.34	4.31	4.33
	-		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
28/11/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:15		Middle	1.5	21.00	21.00	21.0	7.99	7.99	8.0	30.55	30.55	30.6	67.7	68.6	68.2	5.06	5.13	5.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Middle	1.5	20.90	20.90	20.9	8.13	8.13	8.1	31.25	31.25	31.3	79.9	79.4	79.7	5.94	5.91	5.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:00		Middle	1.0	19.80	19.80	19.8	7.95	7.95	8.0	31.58	31.58	31.6	55.4	55.9	55.7	4.19	4.24	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:35		Middle	1.5	21.30	21.30	21.3	8.08	8.08	8.1	31.69	31.69	31.7	81.7	82.5	82.1	5.99	6.06	6.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:14		Middle	1.0	19.30	19.30	19.3	8.16	8.16	8.2	30.67	30.68	30.7	56.6	56.9	56.8	4.36	4.39	4.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:56		Middle	1.0	21.00	21.00	21.0	8.03	8.03	8.0	32.21	32.21	32.2	65.7	66.7	66.2	4.85	4.92	4.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:13		Middle	1.5	20.20	20.20	20.2	8.01	8.01	8.0	31.15	31.17	31.2	62.2	62.2	62.2	4.72	4.70	4.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:28		Middle	1.0	20.50	20.50	20.5	7.83	7.84	7.8	31.45	31.45	31.5	53.9	54.8	54.4	4.04	4.10	4.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:10		Middle	1.0	17.20	17.10	17.2	8.08	8.08	8.1	25.90	25.90	25.9	54.4	54.5	54.5	4.49	4.49	4.49
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:35		Middle	1.0	15.20	15.20	15.2	8.23	8.23	8.2	25.03	25.00	25.0	54.9	54.5	54.7	4.74	4.71	4.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:27		Middle	1.0	17.10	17.10	17.1	8.10	8.10	8.1	28.79	28.81	28.8	57.9	58.3	58.1	4.69	4.73	4.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:27		Middle	1.0	16.40	16.40	16.4	8.16	8.16	8.2	29.90	29.99	29.9	64.3	64.0	64.2	5.24	5.22	5.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:55		Middle	1.0	16.10	16.10	16.1	8.39	8.39	8.4	27.90	27.91	27.9	62.0	61.6	61.8	5.15	5.12	5.14
	-		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
28/11/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:25		Middle	1.5	20.40	20.40	20.4	7.98	7.98	8.0	30.39	30.39	30.4	66.2	66.5	66.4	5.00	5.02	5.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:20		Middle	1.5	20.80	20.80	20.8	8.09	8.09	8.1	31.68	31.68	31.7	59.9	61.0	60.5	4.47	4.54	4.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:50		Middle	1.0	19.50	19.50	19.5	7.94	7.94	7.9	31.15	31.15	31.2	51.2	51.4	51.3	3.91	3.93	3.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:50		Middle	1.5	21.30	21.30	21.3	8.11	8.11	8.1	31.63	31.63	31.6	73.5	72.6	73.1	5.38	5.34	5.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:03		Middle	1.0	19.20	19.20	19.2	8.15	8.15	8.2	31.87	31.87	31.9	69.7	70.5	70.1	5.34	5.39	5.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:48		Middle	1.0	21.10	21.10	21.1	8.08	8.08	8.1	30.59	30.59	30.6	57.3	57.0	57.2	4.26	4.24	4.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:05		Middle	1.5	20.10	20.10	20.1	8.10	8.10	8.1	32.22	32.22	32.2	61.6	61.8	61.7	4.53	4.54	4.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:20		Middle	1.0	20.40	20.40	20.4	8.16	8.15	8.2	31.69	31.69	31.7	68.8	69.7	69.3	5.15	5.22	5.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:58		Middle	1.0	16.90	16.90	16.9	8.12	8.12	8.1	26.48	26.48	26.5	49.7	50.3	50.0	4.10	4.16	4.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:22		Middle	1.0	14.90	14.90	14.9	8.13	8.13	8.1	27.64	27.64	27.6	51.4	51.7	51.6	4.39	4.38	4.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:11		Middle	1.0	16.90	16.90	16.9	8.10	8.10	8.1	29.51	29.51	29.5	57.9	54.3	56.1	4.67	4.40	4.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:15		Middle	1.0	16.40	16.40	16.4	8.14	8.14	8.1	31.32	31.32	31.3	62.0	61.9	62.0	5.00	5.00	5.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:45		Middle	1.0	15.90	15.90	15.9	8.10	8.10	8.1	30.93	30.93	30.9	49.7	50.0	49.9	4.08	4.10	4.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

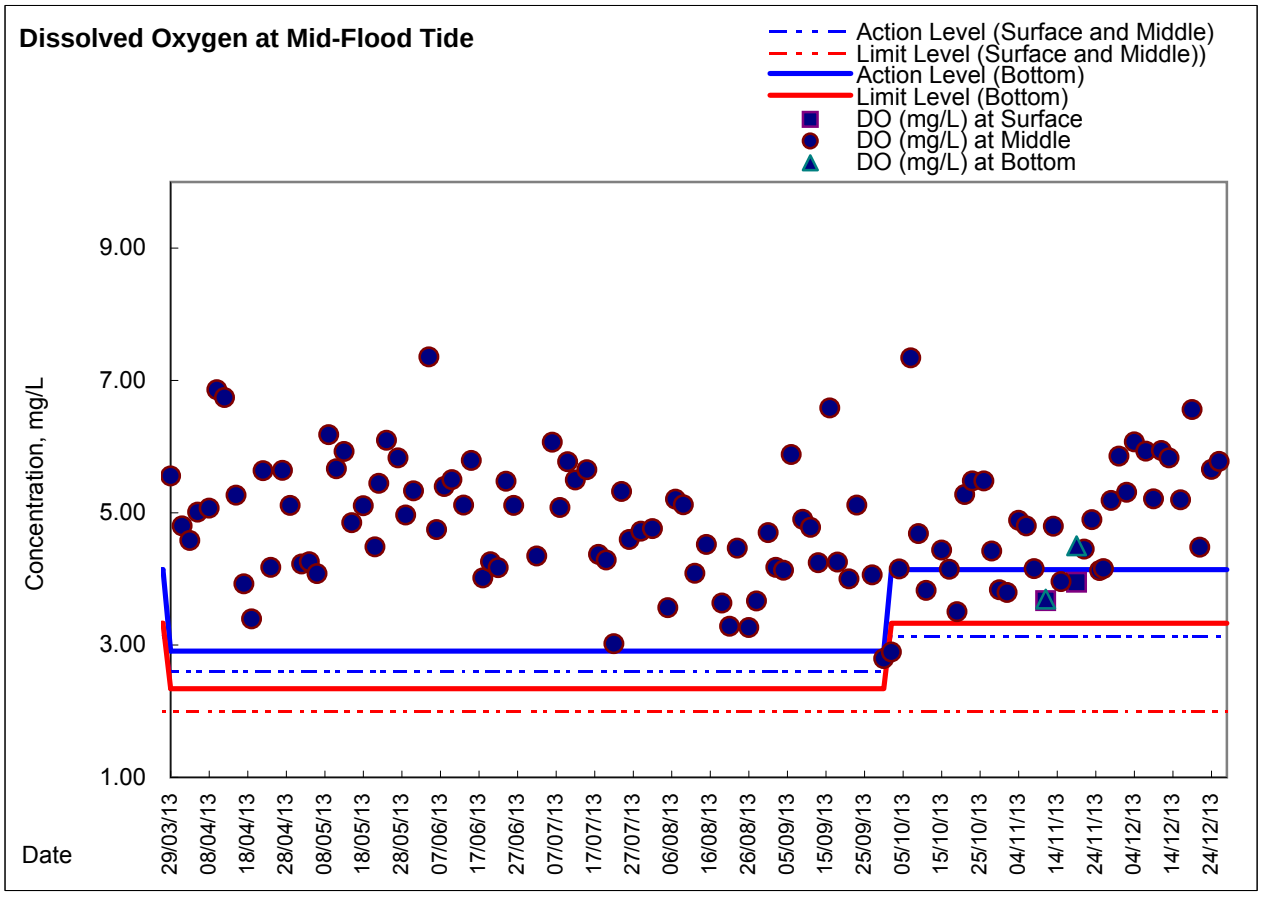
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area
Mid-Ebb Tide

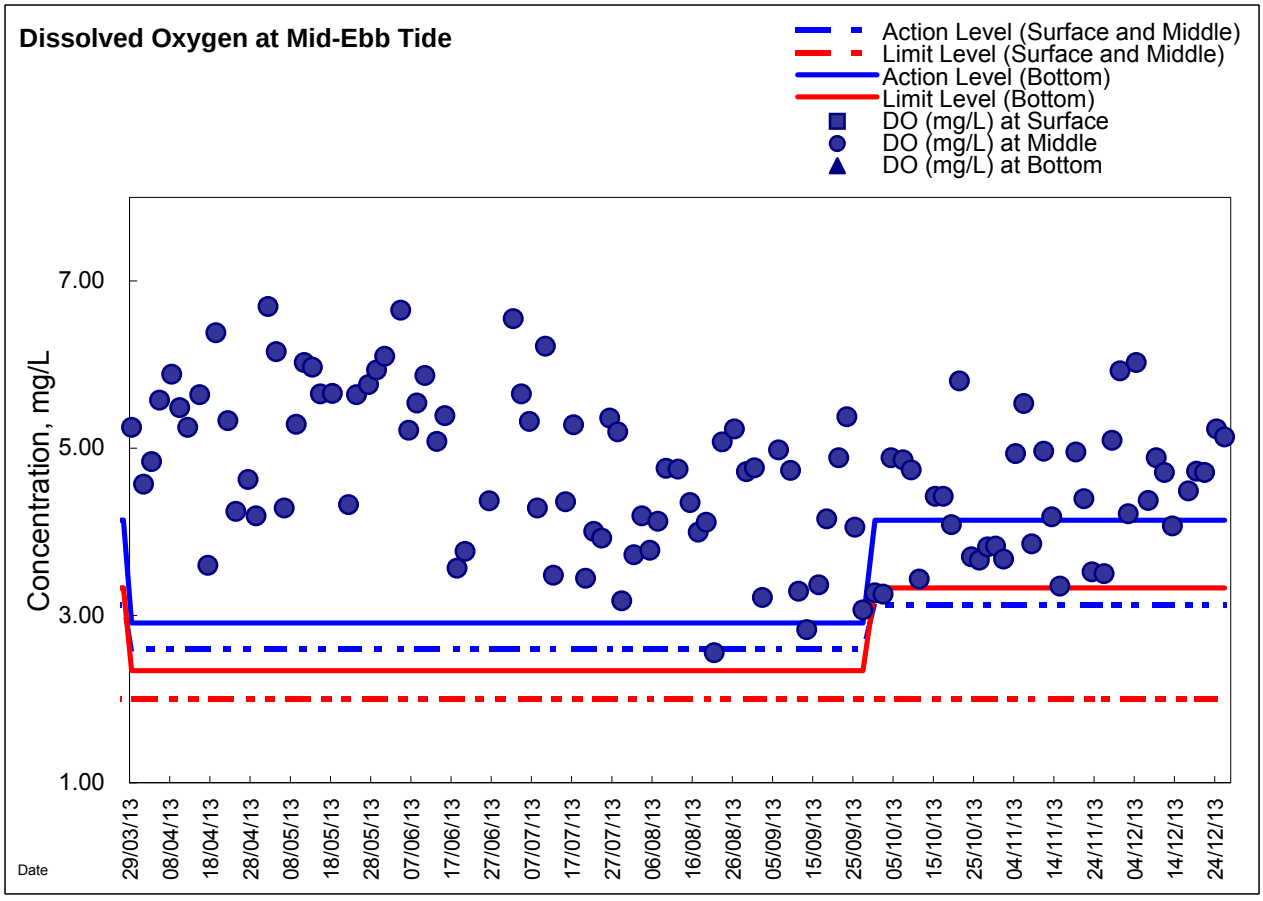
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:02		Middle	1.5	21.10	21.10	21.1	8.04	8.04	8.0	29.35	29.35	29.4	70.7	71.3	71.0	5.30	5.36	5.33
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	z	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:07		Middle	1.5	20.60	20.60	20.6	8.15	8.15	8.2	31.34	31.34	31.3	84.4	84.5	84.5	6.29	6.30	6.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:25		Middle	1.0	19.80	19.70	19.8	8.21	8.21	8.2	24.37	24.40	24.4	29.3	29.9	29.6	2.32	2.36	2.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:30		Middle	1.5	21.20	21.20	21.2	8.13	8.13	8.1	31.91	31.91	31.9	85.1	79.5	82.3	5.89	7.85	6.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:40		Middle	1.0	19.50	19.40	19.5	8.11	8.11	8.1	28.89	28.90	28.9	39.0	39.6	39.3	3.03	3.07	3.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:29		Middle	1.0	21.10	21.10	21.1	8.06	8.06	8.1	27.49	27.68	27.6	27.3	27.4	27.4	2.06	2.07	2.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:15		Middle	1.0	20.30	20.30	20.3	8.27	8.26	8.3	26.96	27.13	27.0	34.5	34.5	34.5	2.66	2.66	2.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:00		Middle	1.0	20.50	20.50	20.5	8.09	8.09	8.1	23.10	23.10	23.1	14.0	13.9	14.0	1.10	1.09	1.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:35		Middle	1.0	17.30	17.30	17.3	8.43	8.43	8.4	16.93	16.94	16.9	52.0	51.9	52.0	4.51	4.50	4.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:00		Middle	1.0	14.90	14.90	14.9	8.37	8.37	8.4	23.52	23.52	23.5	51.0	50.9	51.0	4.46	4.45	4.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:49		Middle	1.0	17.40	17.40	17.4	8.45	8.45	8.5	23.04	23.04	23.0	50.0	49.2	49.6	4.17	4.10	4.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:58		Middle	1.0	16.70	16.70	16.7	8.41	8.41	8.4	24.86	24.85	24.9	55.6	56.4	56.0	4.65	4.72	4.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:00		Middle	1.0	16.30	16.30	16.3	8.35	8.35	8.4	23.45	23.45	23.5	47.8	47.4	47.6	4.07	4.04	4.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area
Mid-Ebb Tide

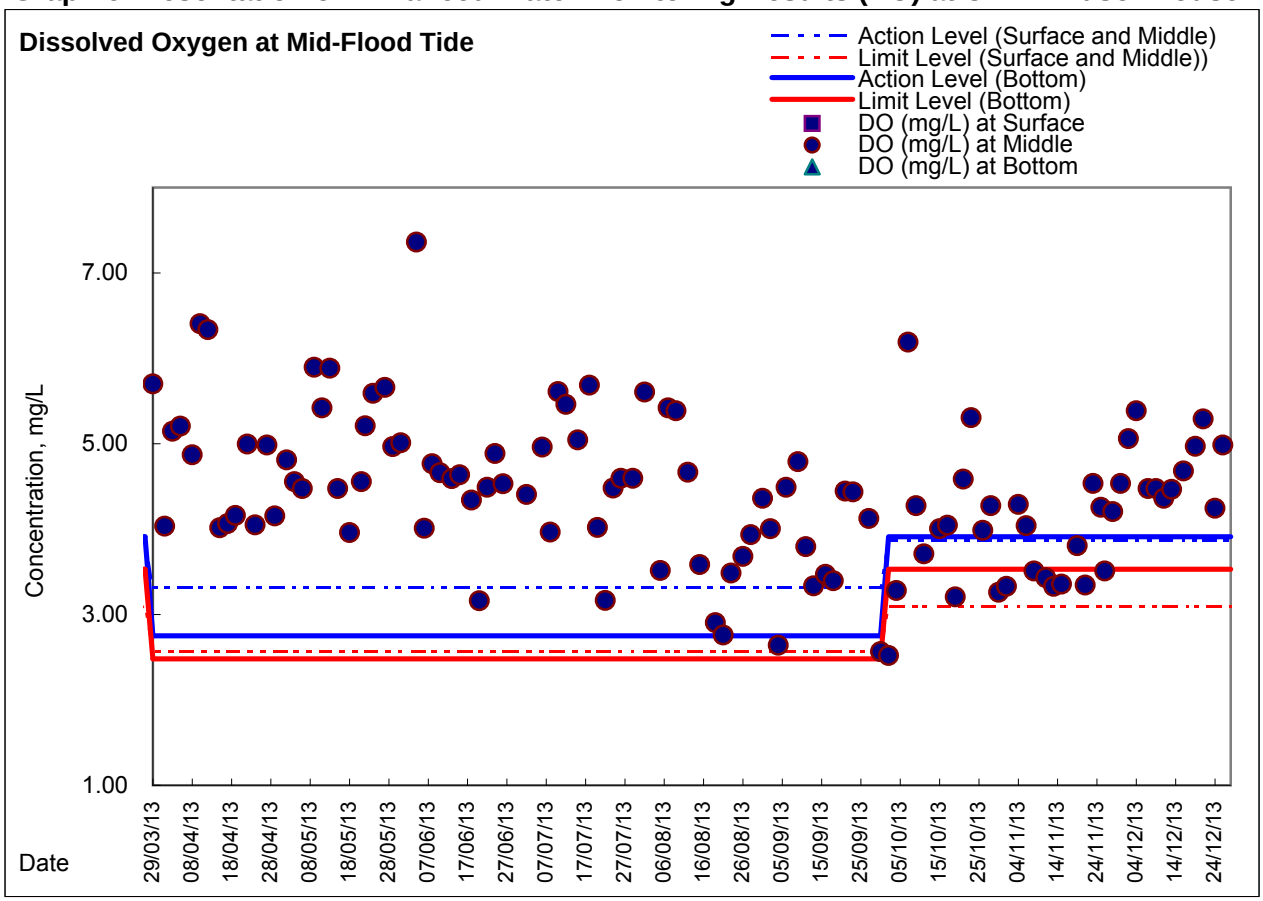
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:00		Middle	1.5	20.40	20.40	20.4	8.11	8.11	8.1	28.54	28.54	28.5	71.3	72.0	71.7	5.45	5.51	5.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:05		Middle	1.5	20.40	20.40	20.4	8.17	8.17	8.2	31.71	31.71	31.7	89.5	89.3	89.4	6.71	6.69	6.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:30		Middle	1.0	19.70	19.70	19.7	8.09	8.08	8.1	24.06	24.06	24.1	28.6	29.4	29.0	2.27	2.34	2.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:32		Middle	1.5	20.90	20.90	20.9	8.12	8.12	8.1	30.21	30.21	30.2	72.2	71.2	71.7	5.41	5.33	5.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:46		Middle	1.0	19.30	19.30	19.3	8.02	8.02	8.0	28.84	28.84	28.8	41.4	41.7	41.6	3.22	3.24	3.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:36		Middle	1.0	21.20	21.20	21.2	7.95	7.95	8.0	27.25	27.55	27.4	31.1	31.3	31.2	2.35	2.37	2.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:21		Middle	1.0	20.30	20.30	20.3	8.12	8.12	8.1	26.81	26.95	26.9	38.6	38.8	38.7	2.98	2.99	2.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:07		Middle	1.0	20.50	20.50	20.5	8.00	8.00	8.0	22.81	22.81	22.8	16.6	16.7	16.7	1.31	1.31	1.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2013	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:43		Middle	1.0	17.30	17.30	17.3	8.33	8.33	8.3	16.46	16.47	16.5	54.1	53.1	53.6	4.70	4.62	4.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:09		Middle	1.0	14.80	14.80	14.8	8.33	8.33	8.3	23.23	23.18	23.2	52.9	52.5	52.7	4.63	4.60	4.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:59		Middle	1.0	17.20	17.20	17.2	8.33	8.33	8.3	22.66	22.65	22.7	51.4	52.1	51.8	4.30	4.36	4.33
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:06		Middle	1.0	16.80	16.80	16.8	8.27	8.27	8.3	24.53	24.54	24.5	56.0	56.4	56.2	4.68	4.70	4.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2013	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:09		Middle	1.0	16.30	16.30	16.3	8.25	8.25	8.3	23.26	23.26	23.3	51.1	51.7	51.4	4.36	4.41	4.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

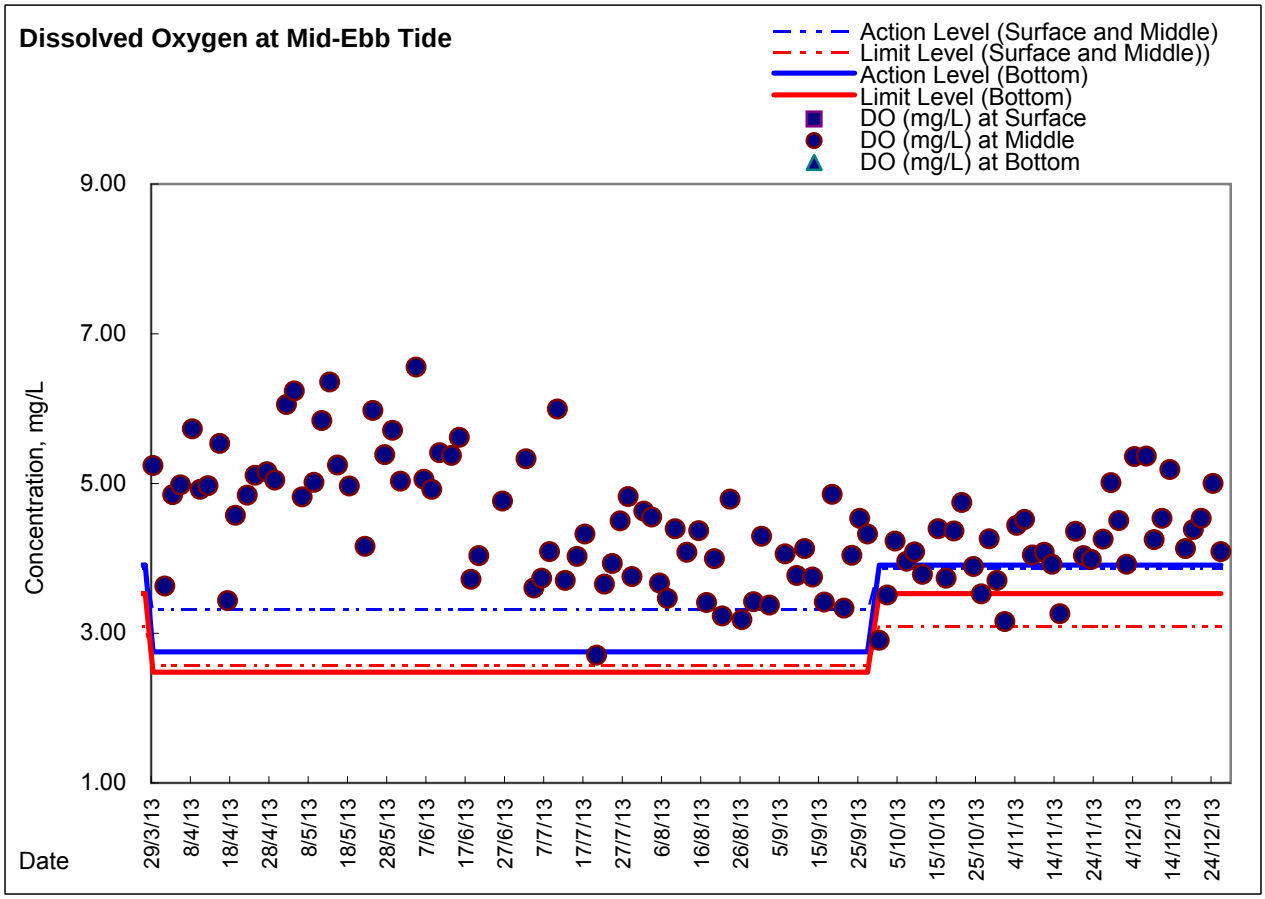
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



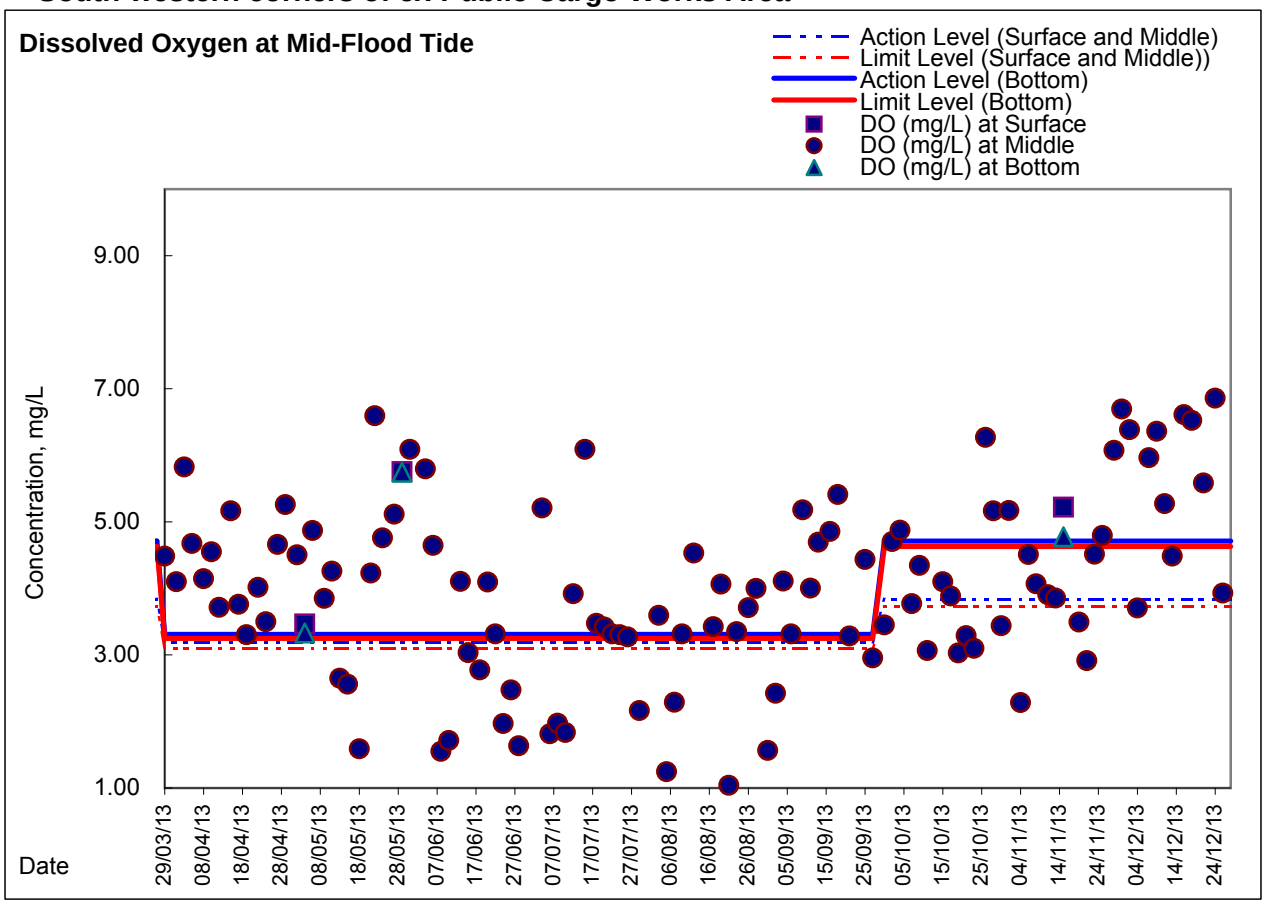


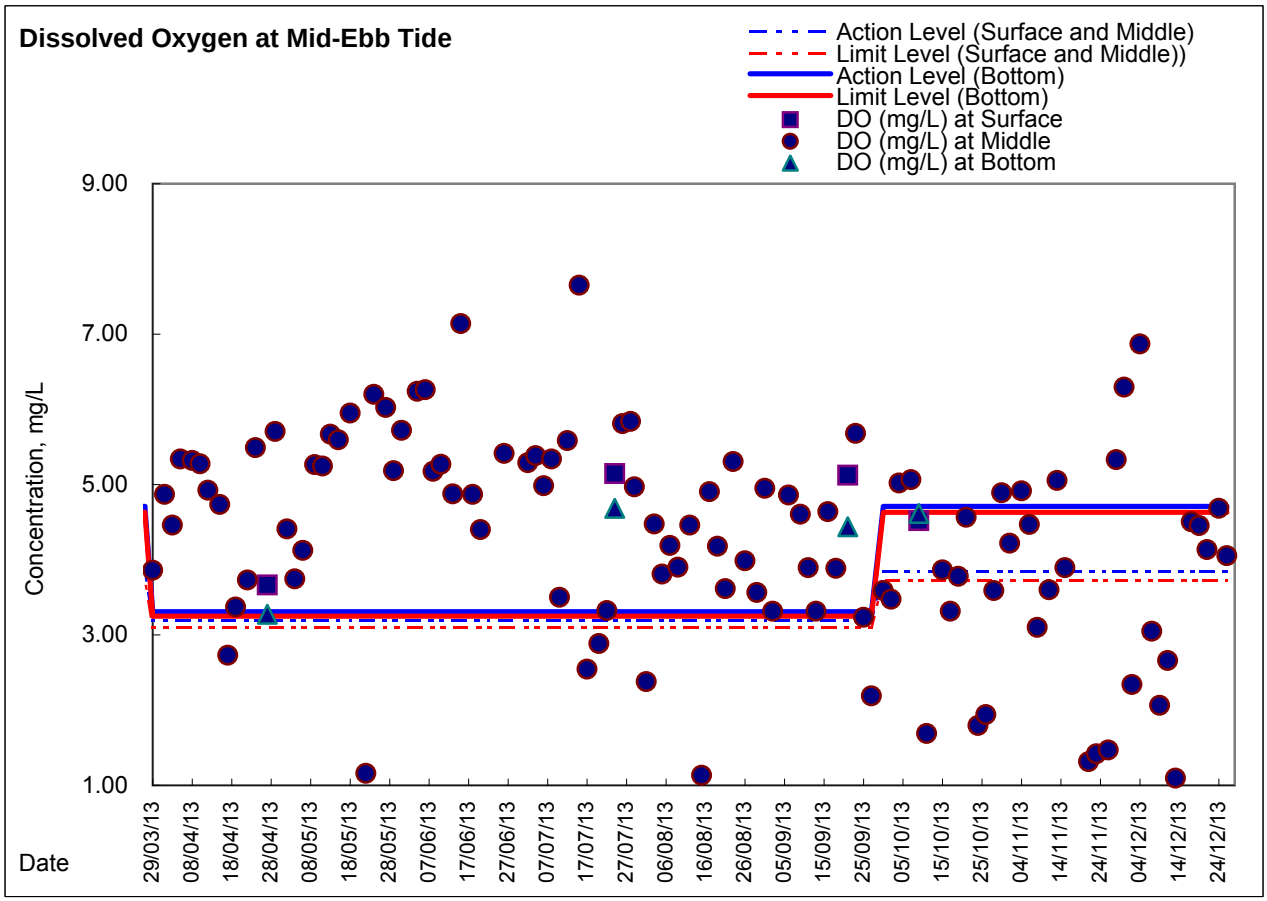
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



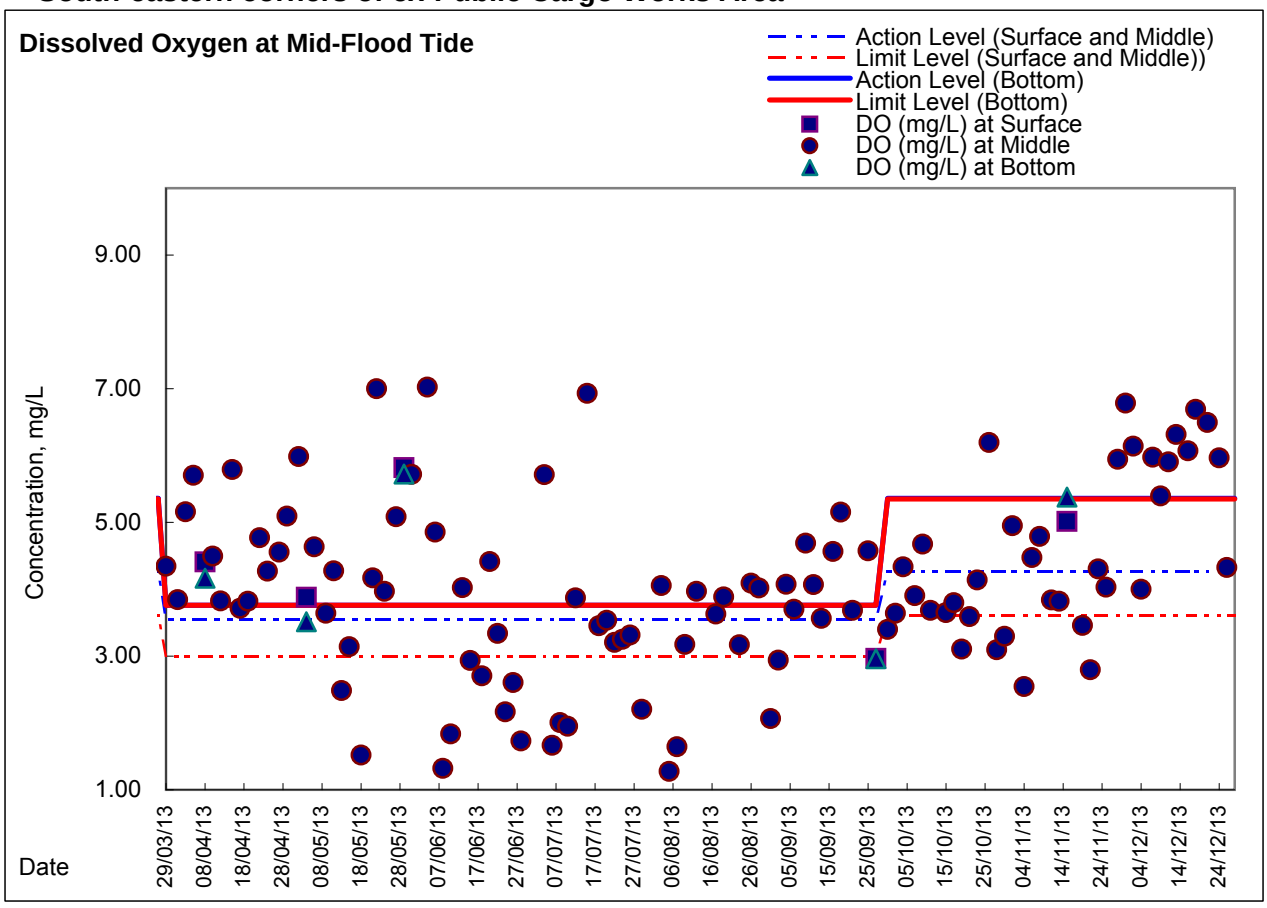


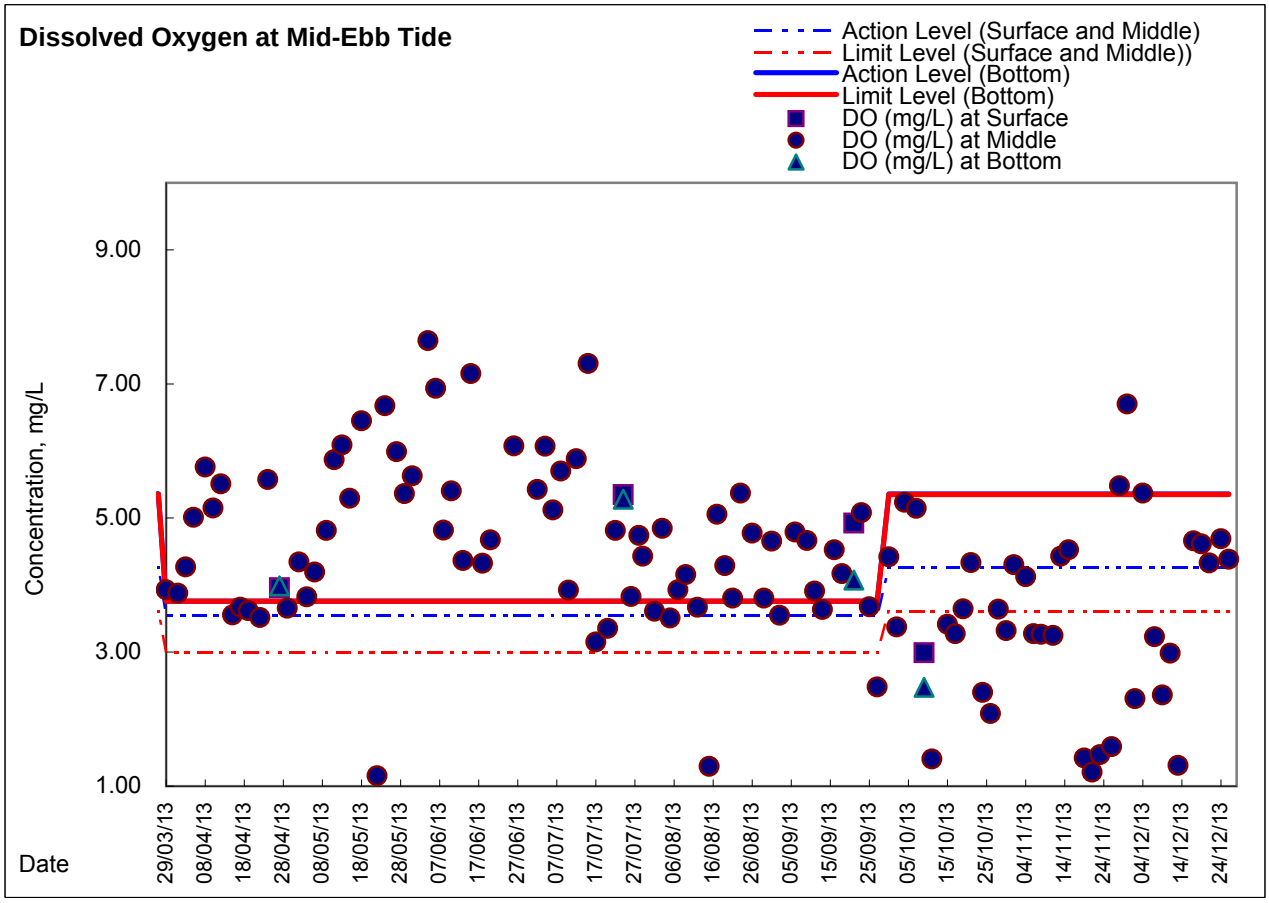
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





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

28/11/2013 7:01 67.0
28/11/2013 7:31 70.3
28/11/2013 8:01 70.4
28/11/2013 8:31 71.4
28/11/2013 9:01 70.9
28/11/2013 9:31 71.2
28/11/2013 10:01 72.2
28/11/2013 10:31 71.3
28/11/2013 11:01 71.9
28/11/2013 11:31 69.7
28/11/2013 12:01 69.6
28/11/2013 12:31 69.6
28/11/2013 13:01 71.5
28/11/2013 13:31 72.2
28/11/2013 14:01 71.4
28/11/2013 14:31 71.4
28/11/2013 15:01 71.6
28/11/2013 15:31 72.0
28/11/2013 16:01 72.1
28/11/2013 16:31 71.2
28/11/2013 17:01 71.4
28/11/2013 17:31 70.3
28/11/2013 18:01 64.4
28/11/2013 18:31 66.9
29/11/2013 7:01 65.3
29/11/2013 7:31 69.0
29/11/2013 8:01 69.3
29/11/2013 8:31 70.0
29/11/2013 9:01 69.6
29/11/2013 9:31 68.5
29/11/2013 10:01 69.1
29/11/2013 10:31 69.9
29/11/2013 11:01 69.7
29/11/2013 11:31 67.5
29/11/2013 12:01 65.8
29/11/2013 12:31 69.3
29/11/2013 13:01 70.3
29/11/2013 13:31 70.6
29/11/2013 14:01 70.8
29/11/2013 14:31 70.6
29/11/2013 15:01 71.4
29/11/2013 15:31 71.3
29/11/2013 16:01 71.2
29/11/2013 16:31 70.5
29/11/2013 17:01 71.3
29/11/2013 17:31 71.4
29/11/2013 18:01 67.1
29/11/2013 18:31 65.9
30/11/2013 7:01 65.9
30/11/2013 7:31 69.3
30/11/2013 8:01 71.0
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30/11/2013 17:31 69.6
30/11/2013 18:01 66.6
30/11/2013 18:31 66.4
2/12/2013 7:01 67.1
2/12/2013 7:31 71.4
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17/12/2013 8:01 71.6
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17/12/2013 9:31 73.1
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Normal Day 19:00-23:00, Sunday & Holiday 07:00-23:00

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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3/12/2013 0:36	62.9	4/12/2013 1:41	61.5	5/12/2013 2:46	60.1	6/12/2013 3:51	59.5	7/12/2013 4:56	59.9	8/12/2013 6:01	60.5

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

8/12/2013 6:06	61.1	9/12/2013 23:11	64.5	11/12/2013 0:16	63.5	12/12/2013 1:21	61.9	13/12/2013 2:26	60.5	14/12/2013 3:31	60.8				
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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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22/12/2013 23:56 62.0	24/12/2013 1:01 60.9	25/12/2013 2:06 61.0	26/12/2013 3:11 57.8	27/12/2013 4:16 39.7
23/12/2013 0:01 61.8	24/12/2013 1:06 60.8	25/12/2013 2:11 60.6	26/12/2013 3:16 56.7	27/12/2013 4:21 50.0
23/12/2013 0:06 61.8	24/12/2013 1:11 61.2	25/12/2013 2:16 61.3	26/12/2013 3:21 57.7	27/12/2013 4:26 51.3
23/12/2013 0:11 61.3	24/12/2013 1:16 60.6	25/12/2013 2:21 60.3	26/12/2013 3:26 57.6	27/12/2013 4:31 56.6
23/12/2013 0:16 61.0	24/12/2013 1:21 60.9	25/12/2013 2:26 60.4	26/12/2013 3:31 57.9	27/12/2013 4:36 42.4
23/12/2013 0:21 60.8	24/12/2013 1:26 59.8	25/12/2013 2:31 60.7	26/12/2013 3:36 57.5	27/12/2013 4:41 49.0
23/12/2013 0:26 61.2	24/12/2013 1:31 60.8	25/12/2013 2:36 60.8	26/12/2013 3:41 56.2	27/12/2013 4:46 47.4
23/12/2013 0:31 60.9	24/12/2013 1:36 59.8	25/12/2013 2:41 60.6	26/12/2013 3:46 56.3	27/12/2013 4:51 58.3
23/12/2013 0:36 61.4	24/12/2013 1:41 59.9	25/12/2013 2:46 59.7	26/12/2013 3:51 58.6	27/12/2013 4:56 50.7
23/12/2013 0:41 59.4	24/12/2013 1:46 58.9	25/12/2013 2:51 59.3	26/12/2013 3:56 53.9	27/12/2013 5:01 53.0
23/12/2013 0:46 60.2	24/12/2013 1:51 58.5	25/12/2013 2:56 60.5	26/12/2013 4:01 56.8	27/12/2013 5:06 54.5
23/12/2013 0:51 60.5	24/12/2013 1:56 59.0	25/12/2013 3:01 58.8	26/12/2013 4:06 56.5	27/12/2013 5:11 55.6
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23/12/2013 1:06 57.1	24/12/2013 2:11 57.2	25/12/2013 3:16 61.5	26/12/2013 4:21 56.1	27/12/2013 5:26 50.4
23/12/2013 1:11 57.1	24/12/2013 2:16 58.0	25/12/2013 3:21 59.7	26/12/2013 4:26 55.6	27/12/2013 5:31 52.8
23/12/2013 1:16 57.4	24/12/2013 2:21 58.2	25/12/2013 3:26 60.4	26/12/2013 4:31 56.1	27/12/2013 5:36 54.1
23/12/2013 1:21 56.7	24/12/2013 2:26 57.4	25/12/2013 3:31 59.2	26/12/2013 4:36 56.2	27/12/2013 5:41 57.3
23/12/2013 1:26 56.0	24/12/2013 2:31 57.6	25/12/2013 3:36 57.8	26/12/2013 4:41 55.2	27/12/2013 5:46 54.5
23/12/2013 1:31 55.9	24/12/2013 2:36 56.5	25/12/2013 3:41 57.7	26/12/2013 4:46 57.6	27/12/2013 5:51 54.3
23/12/2013 1:36 57.7	24/12/2013 2:41 57.2	25/12/2013 3:46 59.1	26/12/2013 4:51 57.9	27/12/2013 5:56 57.1
23/12/2013 1:41 57.2	24/12/2013 2:46 57.5	25/12/2013 3:51 57.9	26/12/2013 4:56 56.8	27/12/2013 6:01 58.1
23/12/2013 1:46 55.0	24/12/2013 2:51 58.6	25/12/2013 3:56 57.9	26/12/2013 5:01 53.8	27/12/2013 6:06 57.1
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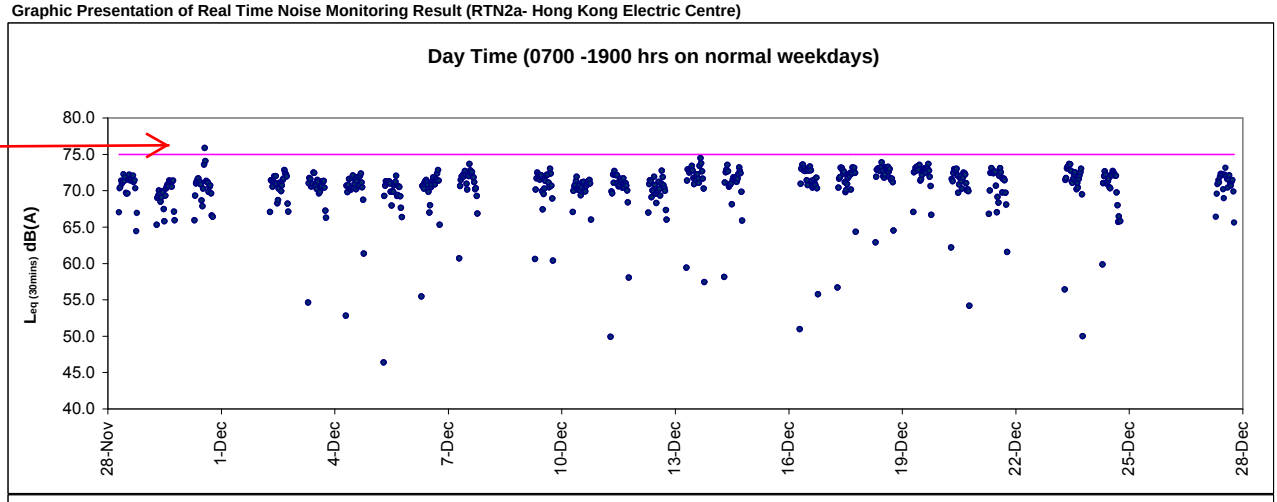
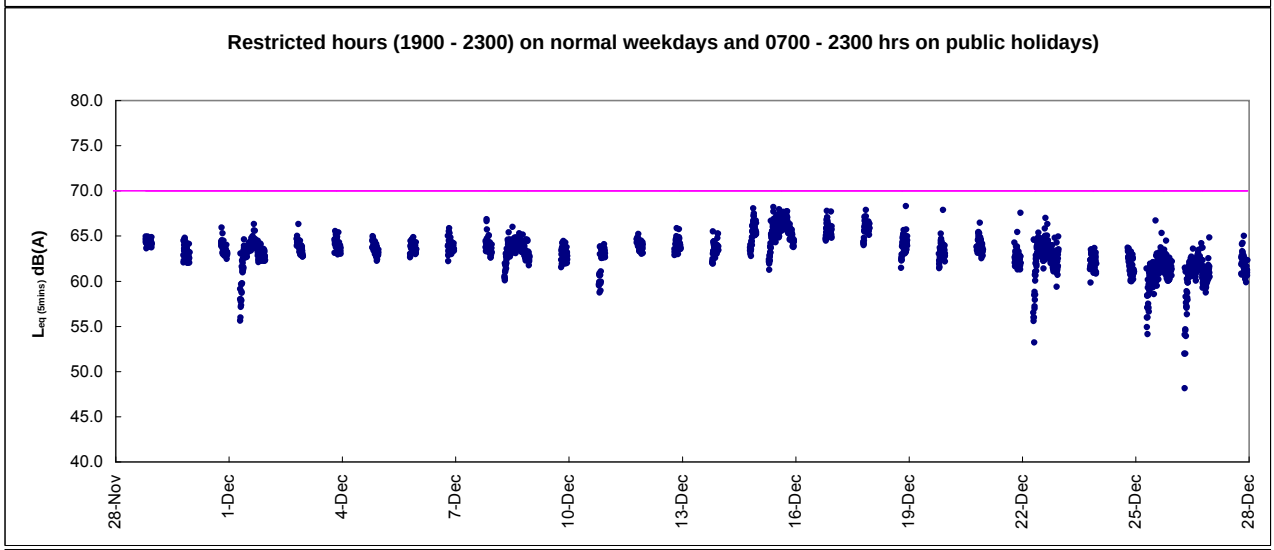
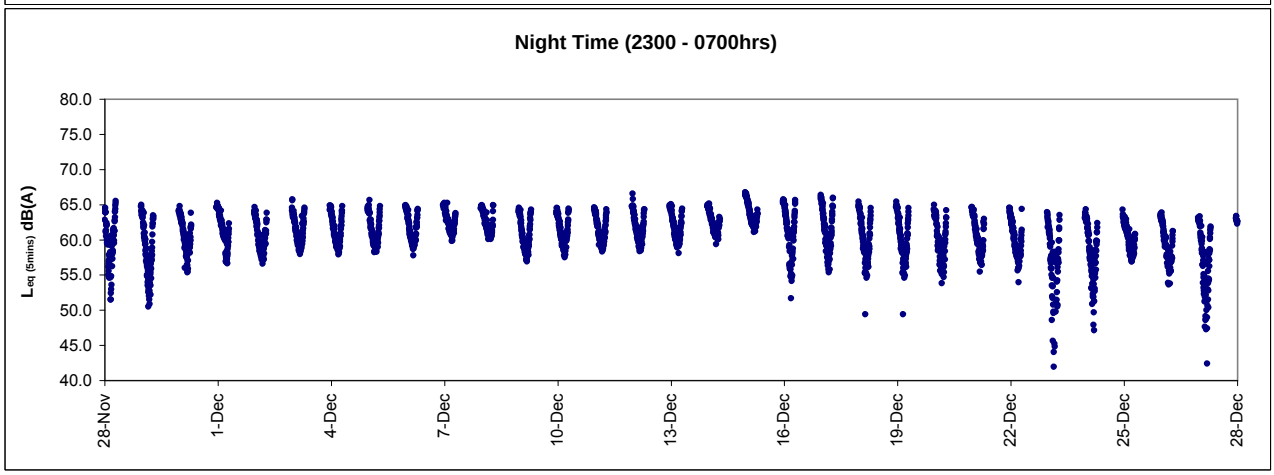
23/12/2013 1:56 48.6	24/12/2013 3:01 56.2	25/12/2013 4:06 59.6	26/12/2013 5:11 58.4	27/12/2013 6:16 58.4
23/12/2013 2:01 59.6	24/12/2013 3:06 53.2	25/12/2013 4:11 58.3	26/12/2013 5:16 56.0	27/12/2013 6:21 58.7
23/12/2013 2:06 53.5	24/12/2013 3:11 55.7	25/12/2013 4:16 58.0	26/12/2013 5:21 56.7	27/12/2013 6:26 60.1
23/12/2013 2:11 52.0	24/12/2013 3:16 55.5	25/12/2013 4:21 59.8	26/12/2013 5:26 55.6	27/12/2013 6:31 58.5
23/12/2013 2:16 54.6	24/12/2013 3:21 55.8	25/12/2013 4:26 57.2	26/12/2013 5:31 55.6	27/12/2013 6:36 60.3
23/12/2013 2:21 53.5	24/12/2013 3:26 53.1	25/12/2013 4:31 57.6	26/12/2013 5:36 55.6	27/12/2013 6:41 60.9
23/12/2013 2:26 51.8	24/12/2013 3:31 54.8	25/12/2013 4:36 57.4	26/12/2013 5:41 56.8	27/12/2013 6:46 61.4
23/12/2013 2:31 45.7	24/12/2013 3:36 53.1	25/12/2013 4:41 56.9	26/12/2013 5:46 57.4	27/12/2013 6:51 61.9
23/12/2013 2:36 53.4	24/12/2013 3:41 50.9	25/12/2013 4:46 57.2	26/12/2013 5:51 57.1	27/12/2013 6:56 61.7
23/12/2013 2:41 58.2	24/12/2013 3:46 55.2	25/12/2013 4:51 56.9	26/12/2013 5:56 57.5	27/12/2013 23:01 63.1
23/12/2013 2:46 54.6	24/12/2013 3:51 53.7	25/12/2013 4:56 57.8	26/12/2013 6:01 56.9	27/12/2013 23:06 62.9
23/12/2013 2:51 50.8	24/12/2013 3:56 53.8	25/12/2013 5:01 57.3	26/12/2013 6:06 57.7	27/12/2013 23:11 63.3
23/12/2013 2:56 49.8	24/12/2013 4:01 51.9	25/12/2013 5:06 57.6	26/12/2013 6:11 57.5	27/12/2013 23:16 63.4
23/12/2013 3:01 58.3	24/12/2013 4:06 52.3	25/12/2013 5:11 58.5	26/12/2013 6:16 57.5	27/12/2013 23:21 62.8
23/12/2013 3:06 49.6	24/12/2013 4:11 52.9	25/12/2013 5:16 59.1	26/12/2013 6:21 57.4	27/12/2013 23:26 62.9
23/12/2013 3:11 42.0	24/12/2013 4:16 58.3	25/12/2013 5:21 57.5	26/12/2013 6:26 57.4	27/12/2013 23:31 62.8
23/12/2013 3:16 44.0	24/12/2013 4:21 47.9	25/12/2013 5:26 57.6	26/12/2013 6:31 59.1	27/12/2013 23:36 62.6
23/12/2013 3:21 57.7	24/12/2013 4:26 51.9	25/12/2013 5:31 58.7	26/12/2013 6:36 59.7	27/12/2013 23:41 62.6
23/12/2013 3:26 58.2	24/12/2013 4:31 54.3	25/12/2013 5:36 59.2	26/12/2013 6:41 60.1	27/12/2013 23:46 62.6
23/12/2013 3:31 49.7	24/12/2013 4:36 53.7	25/12/2013 5:41 58.9	26/12/2013 6:46 60.7	27/12/2013 23:51 62.3
23/12/2013 3:36 58.2	24/12/2013 4:41 49.7	25/12/2013 5:46 57.8	26/12/2013 6:51 61.2	27/12/2013 23:56 62.6
23/12/2013 3:41 45.2	24/12/2013 4:46 51.3	25/12/2013 5:51 59.0	26/12/2013 6:56 61.2	
23/12/2013 3:46 44.8	24/12/2013 4:51 51.2	25/12/2013 5:56 57.7	26/12/2013 23:01 63.2	
23/12/2013 3:51 58.0	24/12/2013 4:56 47.1	25/12/2013 6:01 58.3	26/12/2013 23:06 62.9	
23/12/2013 3:56 57.5	24/12/2013 5:01 55.1	25/12/2013 6:06 60.2	26/12/2013 23:11 62.7	
23/12/2013 4:01 57.9	24/12/2013 5:06 56.8	25/12/2013 6:11 60.4	26/12/2013 23:16 62.9	
23/12/2013 4:06 34.9	24/12/2013 5:11 53.1	25/12/2013 6:16 58.0	26/12/2013 23:21 62.6	

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







After checking with contractor HY/2009/19, no major noisy construction works were conducted at the concerned location during the recorded period and contractor mitigation measures including erection of temporary noise barrier was confirmed in place. As the exceedance is non-continuous, the exceedances were considered to be contributed by nearby IEC traffic and nearby non- CWB Projects.

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_10N149	10-Dec-13	9:18	M6 - HK Baptist Church Henrietta Secondary School	73	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. **Remarks / Other Obs:** Crosshead and Rebar fixing works for Contract HY/2009/19 were conducted 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_10N150	18-Dec-13	10:40	M6 - HK Baptist Church Henrietta Secondary School	72	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. **Remarks / Other Obs:** Rebar fixing works for Contract HY/2009/19 were conducted 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_10C602	4-Dec-13	Mid-flood	C7	DO(mg/L)	5.26	3.36	2.73	**Possible reason:**	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	14.76	9.10	10.25	**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	23.00	15.00	22.13	**Remarks / Other Obs:**	Silt screen was in proper condition. Installation of rebar for EVA at Eastern Breakwater and dredging of type 2 marine sediment was conducted by contractor HY/2009/15 on that day. Mitigation measure including frame type silt curtain was confirmed in place. In view of no further exceedance was recorded in the next consecutive monitoring despite on-going marine works within same sampling date. The exceedance was considered as works-related
X_10C603	16-Dec-13	Mid-flood	C7	DO(mg/L)	4.91	3.36	2.73	**Possible reason:**	Underwater silt screen inspection leading to changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	39.13	9.10	10.25	**Action taken / to be taken:**	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	62.50	15.00	22.13	**Remarks / Other Obs:**	Underwater silt screen inspection was observed during water quality monitoring. According to on-site observation during sampling, it was considered that the dragging action of unwinding silt curtain installed around the silt screen could have impaired the water quality and lead to the abnormal turbidity and SS level. Cotractor was advised to review the underwater silt screen inspection process as a propose to reduce the impact on water quality in the vicinity of water quality monitoring station. In view of no further exceedance was recorded in the next consecutive monitoring despite on-going marine works within same sampling date. The exceedance was considered as works-related

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D385	2-Dec-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.34	3.84	3.73	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works. It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D386	2-Dec-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	2.31	4.26	3.61	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works. It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D387	4-Dec-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.71	3.84	3.73	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works. Owning to minimal flushing combined with organic dischargeduring ebb tide. DO level was observed improved during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D388	4-Dec-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	4.00	4.26	3.61	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works. Owning to minimal flushing combined with organic dischargeduring ebb tide. DO level was observed improved during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D389	7-Dec-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.05	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D390	7-Dec-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.23	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D391	9-Dec-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.07	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D392	9-Dec-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	2.36	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D393	11-Dec-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.66	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D394	11-Dec-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	2.99	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D395	13-Dec-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.10	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D396	13-Dec-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	1.31	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:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 16 December 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

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Sampling, Field Measurement and Testing Work (Stage 2)
Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W539	30-Nov-13	Mid-Flood	WSD21	DO(mg/L)	4.37	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	5.77	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	**27.50**	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day. In view of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not
X_W540	30-Nov-13	Mid-Flood	WSD19	DO(mg/L)	6.62	3.66	3.28	Possible reason:	
				Turbidity	6.15	8.04	9.49	Action taken / to be taken:	
				SS	**16.50**	13.00	14.43	Remarks / Other Obs:	
X_W541	30-Nov-13	Mid-Ebb	WSD21	DO(mg/L)	4.16	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	7.77	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	**15.50**	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_W542	4-Dec-13	Mid-Ebb	WSD19	DO(mg/L)	6.20	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	**18.28**	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. .
				SS	8.00	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. Silt screen was confirmed in order,The exceedances was considered not project related.
X_W543	7-Dec-13	Mid-Flood	WSD17	DO(mg/L)	6.77	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	7.80	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.
				SS	**14.50**	13.00	14.43	Remarks / Other Obs:	In view of no marine work was conducting during water quality monitoring, the exceedances was considered not project related.
X_W544	7-Dec-13	Mid-Flood	WSD19	DO(mg/L)	6.29	3.66	3.28	Possible reason:	
				Turbidity	**20.87**	8.04	9.49	Action taken / to be taken:	
				SS	**13.50**	13.00	14.43	Remarks / Other Obs:	
X_W545	7-Dec-13	Mid-Ebb	WSD21	DO(mg/L)	4.55	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	4.95	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	**15.50**	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day. Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not

Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_W546	9-Dec-13	Mid-Flood	WSD19	DO(mg/L)	6.22	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.73	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. .
				SS	19.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. Silt screen was confirmed in order,The exceedances was considered not project related.
X_W547	9-Dec-13	Mid-Flood	WSD9	DO (mg/L)	6.51	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	5.04	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. The tidal was moving westward.
				Suspended Solid	20.00	13.00	14.43	Remarks / Other Obs:	No marine works was conducted on that day amd no further exceedance was recorded in the next consecutive monitoring and since WSD9 was located at the upstream of the Project, in view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.
X_W548	9-Dec-13	Mid-Ebb	WSD9	DO (mg/L)	6.15	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	1.62	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. The tidal was moving westward.
				Suspended Solid	16.50	13.00	14.43	Remarks / Other Obs:	In view of no marine works was conducted on that day and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.
X_W549	13-Dec-13	Mid-Flood	WSD21	DO(mg/L)	5.44	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	6.28	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	13.50	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_W550	16-Dec-13	Mid-Flood	WSD19	DO(mg/L)	6.10	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.73	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. .
				SS	8.00	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place.The exceedances was considered not project related.
X_W551	18-Dec-13	Mid-Flood	WSD19	DO(mg/L)	6.51	3.66	3.28	Possible reason:	
				Turbidity	12.79	8.04	9.49	Action taken / to be taken:	
				SS	23.50	13.00	14.43	Remarks / Other Obs:	
X_W552	18-Dec-13	Mid-Flood	WSD21	DO(mg/L)	6.44	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	6.90	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	14.00	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day. Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not

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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W553	21-Dec-13	Mid-Flood	WSD9	DO (mg/L)	6.78	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	**8.45**	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. The tidal was moving westward.
				Suspended Solid	7.00	13.00	14.43	Remarks / Other Obs:	In view of no marine works was conducted on that day amd no further exceedance was recorded in the next consecutive monitoring and since WSD9 was located at the upstream of the Project, in view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.
X_W554	24-Dec-13	Mid-Flood	WSD21	DO(mg/L)	5.78	3.66	3.28	Possible reason:	Natural variation of changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	6.79	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	**45.00**	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen was in order on that day. In view of no marine work was conducting during water quality monitoring and no further exceedance was recorded in the next consecutive monitoring. 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

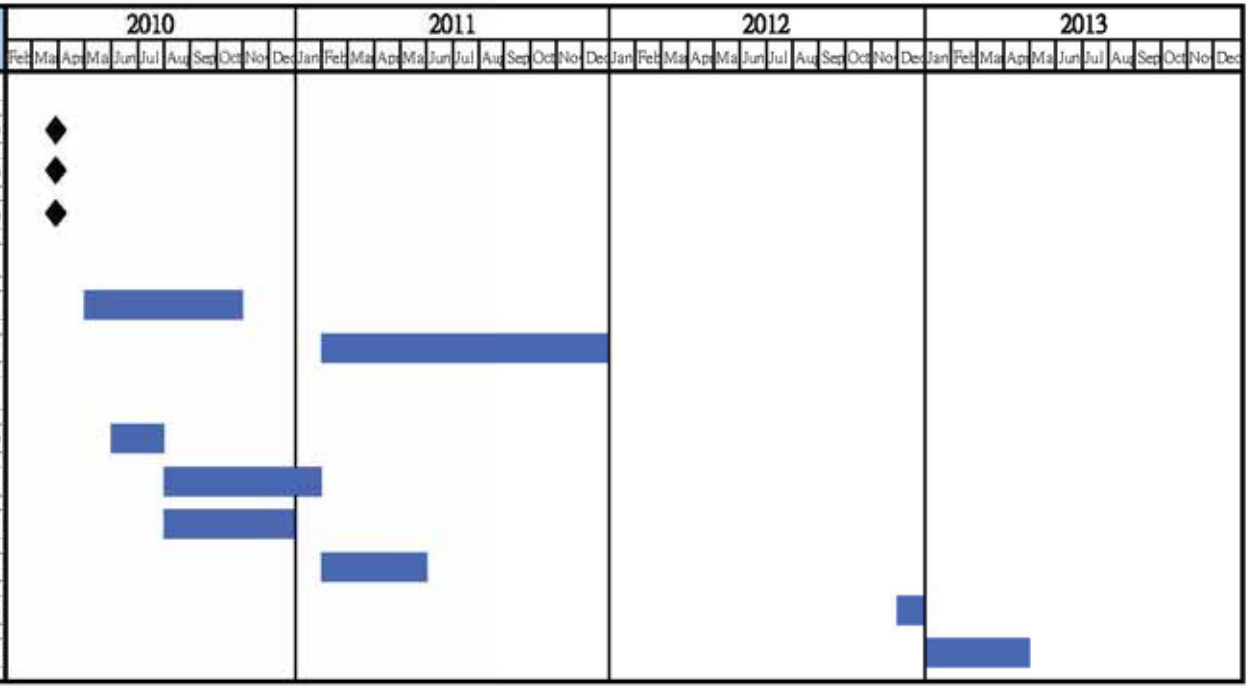
Construction Programme of Individual Contracts

Contract No. HK/2009/01

Contract Title : Wan Chai Development Phase II - Central - Wan Chai Bypass at HKCEC

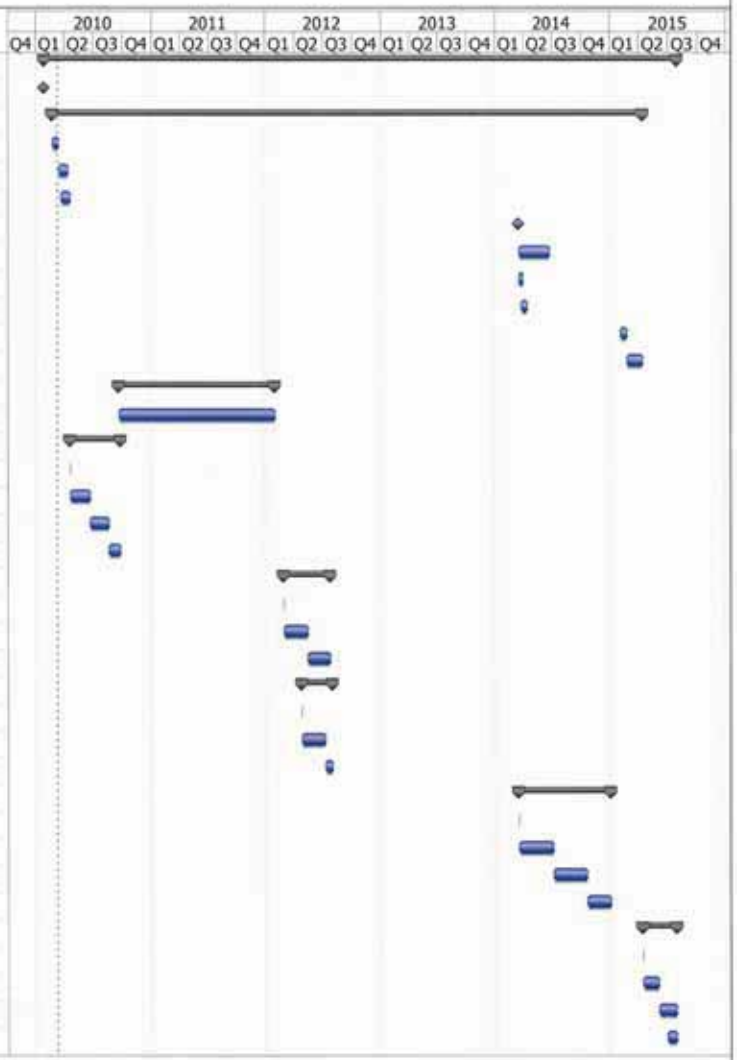
Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH
Submissions before Works Commencement		
Submit silt curtain deployment plan	31/3/10	31/3/10
Submit silt screen deployment plan	31/3/10	31/3/10
Submit measures to mitigate noise impact	31/3/10	31/3/10
Cross Harbour Watermains from WCN to TST (DP6)		
Trench dredging for marine watermains installation	29/4/10	28/10/10
Backfilling for watermain	28/1/11	14/12/11
Reclamation Works at HKCEC Water Channel (DP3)		
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13



Dredging & Reclamation Works Programme Summary
(based on Initial Works Programme Rev. 0)

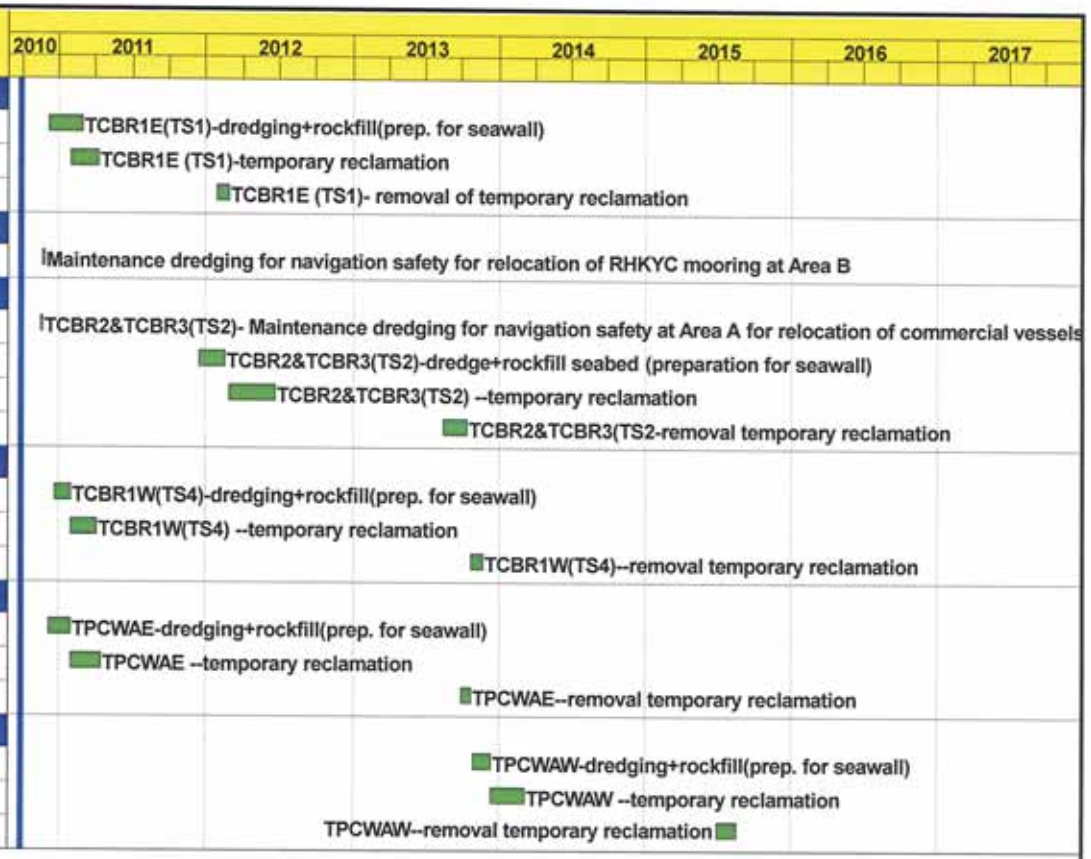
ID	Task Name	Duration	Start
1	**HK/2009/02-Marine & Reclamation Works**	**2008 d**	**Thu 28/1/10**
2	Contract Commencement	0 d	Thu 28/1/10
3	**General**	**1879 d**	**Mon 22/2/10**
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10
6	Engineer's 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 | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | Split | External Tasks | Project Summary | Group By Summary | 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

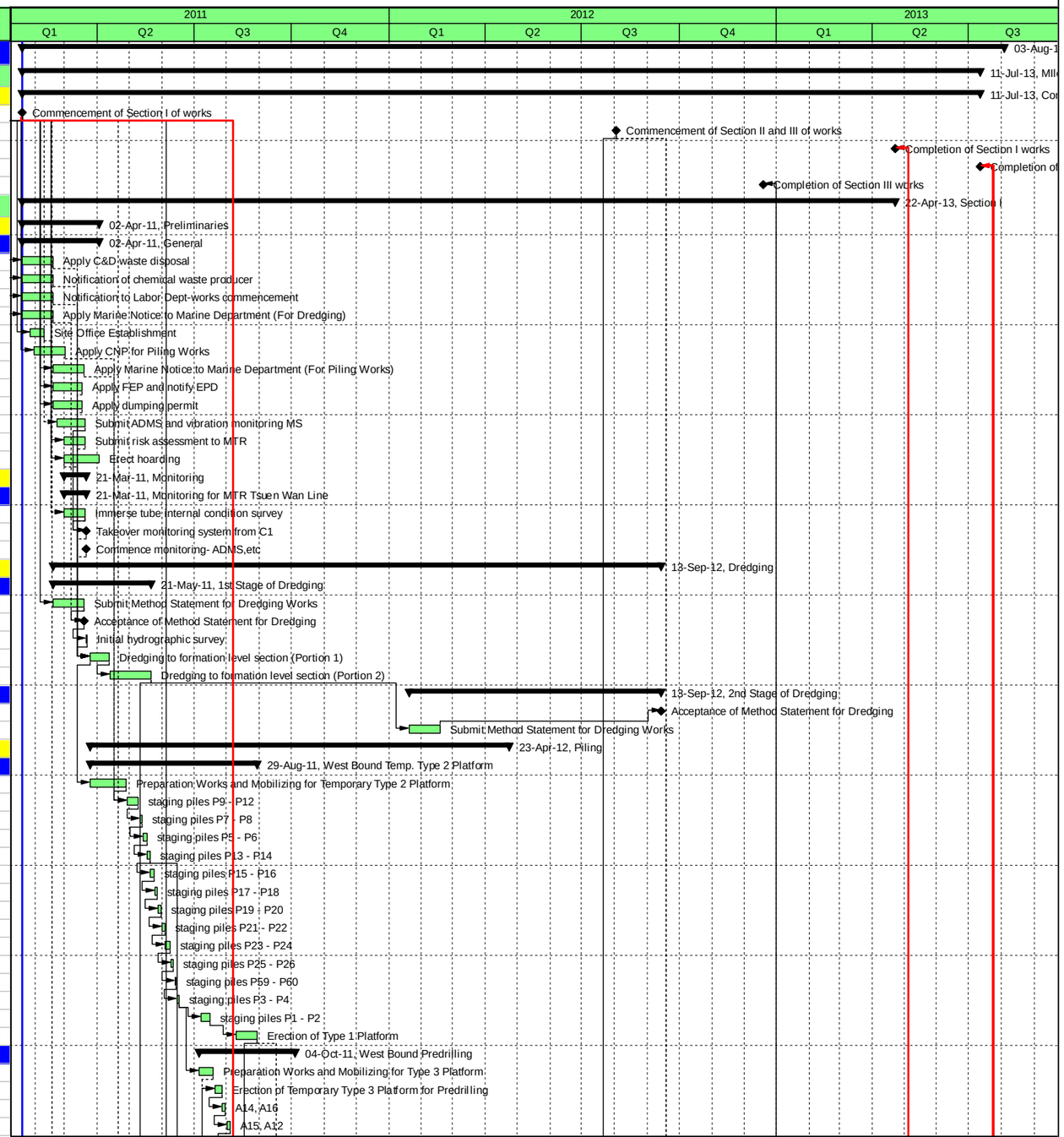
CHINA STATE CONSTRUCTION ENGG LTD

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
WDII- Central- Wan Chai Bypass Over MTR Tsuen Wan Line (R		927	20-Jan-11	03-Aug-13	0		
Mllestone		904	20-Jan-11	11-Jul-13	23		
Contract Obligation		904	20-Jan-11	11-Jul-13	23		
CNO1000	Commencement of Section I of works	0	20-Jan-11*		0		INW1220, AE
CNO1010	Commencement of Section II and III of works	0	02-Aug-12*		60		PPT9000, TA
CNO1020	Completion of Section I works	0		22-Apr-13*	0	PCY1120, ADU1	
CNO1030	Completion of Section II works	0		11-Jul-13*	0	MSW7040, PXX5	
CNO1040	Completion of Section III works	0		19-Dec-12*	227	PPT9040	
Section I		824	20-Jan-11	22-Apr-13	103		
Preliminaries		73	20-Jan-11	02-Apr-11	40		
General		73	20-Jan-11	02-Apr-11	40		
INW1110	Apply C&D waste disposal	30	20-Jan-11	18-Feb-11	70	CNO1000	DRW1330
INW1120	Notification of chemical waste producer	30	20-Jan-11	18-Feb-11	70	CNO1000	DRW1330
INW1130	Notification to Labor Dept-works commencement	30	20-Jan-11	18-Feb-11	70	CNO1000	DRW1330
INW1140	Apply Marine Notice to Marine Department (For Dredging)	30	20-Jan-11	18-Feb-11	62	CNO1000	DRW1310
INW1150	Site Office Establishment	14	27-Jan-11	09-Feb-11*	19	CNO1000	MON1200
INW1160	Apply CNP for Piling Works	30	31-Jan-11	01-Mar-11	52	CNO1000	WBS1570
INW1170	Apply Marine Notice to Marine Department (For Piling Works)	30	18-Feb-11	19-Mar-11	54	CNO1000	WBS1570
INW1180	Apply FEP and notify EPD	28	18-Feb-11	17-Mar-11	43	CNO1000	DRW1330
INW1190	Apply dumping permit	28	18-Feb-11	17-Mar-11	43	CNO1000	DRW1330
INW1200	Submit ADMS and vibration monitoring MS	27	22-Feb-11	20-Mar-11	40	CNO1000	MON1210
INW1210	Submit risk assessment to MTR	21	28-Feb-11	20-Mar-11	40	CNO1000	DRW1330
INW1220	Erect hoarding	34	28-Feb-11	02-Apr-11*	28	CNO1000	DRW1330
Monitoring		21	28-Feb-11	21-Mar-11	40		
Monitoring for MTR Tsuen Wan Line		21	28-Feb-11	21-Mar-11	40		
MON1200	Immerse tube internal condition survey	21	28-Feb-11	20-Mar-11	40	CNO1000, INW1	DRW1330, M
MON1210	Takeover monitoring system from C1	0	21-Mar-11*		40	MON1200, INW1	DRW1330
MON1220	Commence monitoring- ADMS,etc	0	21-Mar-11*		40		DRW1330
Dredging		574	18-Feb-11	13-Sep-12	324		
1st Stage of Dredging		93	18-Feb-11	21-May-11	33		
DRW1300	Submit Method Statement for Dredging Works	26	18-Feb-11	19-Mar-11	27	CNO1000	DRW1310, D
DRW1310	Acceptance of Method Statement for Dredging	0		19-Mar-11*	27	DRW1300, INW1	DRW1320
DRW1320	Initial hydrographic survey	2	21-Mar-11	22-Mar-11	27	DRW1310	DRW1330
DRW1330	Dredging to formation level section (Portion 1)	15	25-Mar-11	12-Apr-11	27	MON1200, MON	WBS1560, D
DRW1340	Dredging to formation level section (Portion 2)	29	13-Apr-11	21-May-11	27	DRW1330	DRW1510, E
2nd Stage of Dredging		238	20-Jan-12	13-Sep-12	324		
DRW1505	Acceptance of Method Statement for Dredging	0		13-Sep-12*	261	DRW1510	
DRW1510	Submit Method Statement for Dredging Works	23	20-Jan-12	18-Feb-12	261	DRW1340	DRW1505
Piling		396	25-Mar-11	23-Apr-12	58		
West Bound Temp. Type 2 Platform		158	25-Mar-11	29-Aug-11	102		
WBS1560	Preparation Works and Mobilizing for Temporary Type 2 Platform	26	25-Mar-11	28-Apr-11	39	DRW1330	WBS1570
WBS1570	staging piles P9 - P12	8	29-Apr-11	09-May-11	39	INW1170, INW11	WBS1580
WBS1580	staging piles P7 - P8	3	11-May-11	13-May-11	39	WBS1570	WBS1590
WBS1590	staging piles P5 - P6	3	14-May-11	17-May-11	39	WBS1580	WBS1600
WBS1600	staging piles P13 - P14	3	18-May-11	20-May-11	39	WBS1590	WBS1610, W
WBS1610	staging piles P15 - P16	3	21-May-11	24-May-11	40	WBS1600	WBS1620
WBS1620	staging piles P17 - P18	3	25-May-11	27-May-11	40	WBS1610	WBS1630
WBS1630	staging piles P19 - P20	3	28-May-11	31-May-11	40	WBS1620	WBS1640
WBS1640	staging piles P21 - P22	3	01-Jun-11	03-Jun-11	40	WBS1630	WBS1650
WBS1650	staging piles P23 - P24	3	04-Jun-11	08-Jun-11	40	WBS1640	WBS1660
WBS1660	staging piles P25 - P26	3	09-Jun-11	11-Jun-11	40	WBS1650	WBS1670
WBS1670	staging piles P59 - P60	2	13-Jun-11	14-Jun-11	40	WBS1660	WBS1690
WBS1690	staging piles P3 - P4	3	15-Jun-11	17-Jun-11	40	WBS1670	WBP1710, W
WBS1700	staging piles P1 - P2	8	08-Jul-11	16-Jul-11	85	WBS1690	WBS1710
WBS1710	Erection of Type 1 Platform	17	10-Aug-11	29-Aug-11	85	WBS1700	WBP1860, W
West Bound Predrilling		91	06-Jul-11	04-Oct-11	76		
WBP1710	Preparation Works and Mobilizing for Type 3 Platform	12	06-Jul-11	19-Jul-11	40	WBS1690	WBP1720
WBP1720	Erection of Temporary Type 3 Platform for Predrilling	6	21-Jul-11	27-Jul-11	39	WBD1050, WBP	WBP1730
WBP1730	A14, A16	3	28-Jul-11	30-Jul-11	39	WBP1720	WBP1740
WBP1740	A15, A12	4	01-Aug-11	04-Aug-11	39	WBP1730	WBP1750



Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

Date	Revision	Ch...	Approved
31-May-12	Rev. E	MF	KT
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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

Contract No.: HK/2010/06

Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
WBP1750	A11	2	05-Aug-11	06-Aug-11	39	WBP1740	WBP1755
WBP1755	A13	2	08-Aug-11	09-Aug-11	39	WBP1750	WBP1760
WBP1760	A10	6	10-Aug-11	16-Aug-11	39	WBP1755	WBP1765
WBP1765	A28	3	13-Aug-11	16-Aug-11	39	WBP1760	WBP1770
WBP1770	A29	4	17-Aug-11	20-Aug-11	39	WBP1765	WBP1780
WBP1780	A18, A22	4	22-Aug-11	25-Aug-11	39	WBP1770	WBP1790
WBP1790	A19, A23	4	26-Aug-11	30-Aug-11	39	WBP1780	WPP1400, W
WBP1800	A20, A24	4	31-Aug-11	03-Sep-11	64	WBP1790	WBP1810
WBP1810	A21, A25	4	05-Sep-11	08-Sep-11	64	WBP1800	WBP1820
WBP1820	A26, A27	4	09-Sep-11	14-Sep-11	64	WBP1810	WBP1830
WBP1830	A4, A6	4	15-Sep-11	19-Sep-11	64	WBP1820	WBP1840
WBP1840	A5, A8	4	20-Sep-11	23-Sep-11	64	WBP1830	WBP1850
WBP1850	A7, A9	4	24-Sep-11	28-Sep-11	64	WBP1840	WBP1860
WBP1860	A3	4	29-Sep-11	04-Oct-11	64	WBP1850, WBS	EBP2610, W
West Bound Bored Pile Construction Works		265	27-Jun-11	17-Mar-12	72		
Driving of 2650mm dia. casing		83	27-Jun-11	17-Sep-11	104		
WBD1000	A14	2	27-Jun-11	28-Jun-11	39	WBS1600	WBD1010
WBD1010	A16	2	30-Jun-11	02-Jul-11	39	WBD1000	WBD1020
WBD1020	A18	2	08-Jul-11	09-Jul-11	39	WBD1010	WBD1030
WBD1030	A12	3	11-Jul-11	13-Jul-11	39	WBD1020	WBD1040
WBD1040	A10	3	14-Jul-11	16-Jul-11	39	WBD1030	WBD1050
WBD1050	A20	3	18-Jul-11	20-Jul-11	39	WBD1040	WBP1720, W
WBD1060	A22	3	21-Jul-11	23-Jul-11	104	WBD1050	WBD1070
WBD1070	A24	3	25-Jul-11	27-Jul-11	104	WBD1060	WBD1080
WBD1080	A26	3	28-Jul-11	30-Jul-11	104	WBD1070	WBD1090
WBD1090	A28	3	01-Aug-11	03-Aug-11	104	WBD1080	WBD1100
WBD1100	T5	3	04-Aug-11	06-Aug-11	104	WBD1090	WBD1110
WBD1110	A8	3	30-Aug-11	01-Sep-11	85	WBD1100, WBS	WBD1120
WBD1120	A6	3	02-Sep-11	05-Sep-11	85	WBD1110	WBD1130, W
WBD1130	A4	10	06-Sep-11	17-Sep-11	85	WBD1120	WPP1500
Excavation to Rockhead Level		123	31-Aug-11	31-Dec-11	86		
WPP1400	A15	5	31-Aug-11	05-Sep-11	39	WBP1790	WPP1410
WPP1410	A11	3	08-Sep-11	10-Sep-11	39	WPP1400	WPP1420
WPP1420	A17	4	14-Sep-11	17-Sep-11	39	WPP1410	WPP1430
WPP1430	A13	2	19-Sep-11	20-Sep-11	39	WPP1420	WPP1440
WPP1440	A21	3	23-Sep-11	26-Sep-11	39	WPP1430	WPP1450
WPP1450	A27	5	30-Sep-11	07-Oct-11	39	WPP1440	WPP1460
WPP1460	A12	2	08-Oct-11	10-Oct-11	39	WPP1450	WBC2010, V
WPP1470	A19	4	11-Oct-11	14-Oct-11	55	WPP1460	WPP1480
WPP1480	A29	5	17-Oct-11	21-Oct-11	55	WPP1470	WPP1490
WPP1490	A16	3	22-Oct-11	25-Oct-11	55	WPP1480	WPP1500
WPP1500	A5	4	26-Oct-11	29-Oct-11	55	WPP1490, WBD	WPP1510
WPP1510	A20	5	31-Oct-11	04-Nov-11	55	WPP1500	WPP1520
WPP1520	A25	5	05-Nov-11	10-Nov-11	55	WPP1510	WPP1530
WPP1530	A9	4	11-Nov-11	15-Nov-11	55	WPP1520	WPP1540
WPP1540	A14	3	16-Nov-11	18-Nov-11	55	WPP1530	WPP1560, W
WPP1550	A10	2	23-Nov-11	24-Nov-11	55	EPP1480	WPP1570
WPP1560	A23	5	19-Nov-11	24-Nov-11	69	WPP1540	WPP1580
WPP1570	A3	6	25-Nov-11	01-Dec-11	55	WBP1860, WPP	WPP1590
WPP1580	A18	5	25-Nov-11	30-Nov-11	69	WPP1560	WPP1600
WPP1590	A7	5	02-Dec-11	07-Dec-11	55	WPP1570, WBD	WPP1610
WPP1600	A28	5	01-Dec-11	06-Dec-11	69	WPP1580	WPP1620
WPP1610	A4	5	08-Dec-11	13-Dec-11	55	WPP1590	WPP1630, W
WPP1620	A22	5	07-Dec-11	12-Dec-11	69	WPP1600	WPP1640
WPP1630	A8	5	14-Dec-11	19-Dec-11	57	WPP1610	EPP1490
WPP1640	A26	5	13-Dec-11	17-Dec-11	69	WPP1620	WPP1650
WPP1650	A6	5	19-Dec-11	23-Dec-11	69	WPP1640	WPP1660
WPP1660	A24	5	24-Dec-11	31-Dec-11	69	WPP1650	EPP1510
Rock Excavation and Concreting		145	25-Oct-11	17-Mar-12	72		
WBC2010	A12	13	25-Oct-11	08-Nov-11	39	WPP1460	WBC2040

Actual Work
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Critical Remaining ...
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31-May-12	Rev. E	MF	KT
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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

Contract No.: HK/2010/06

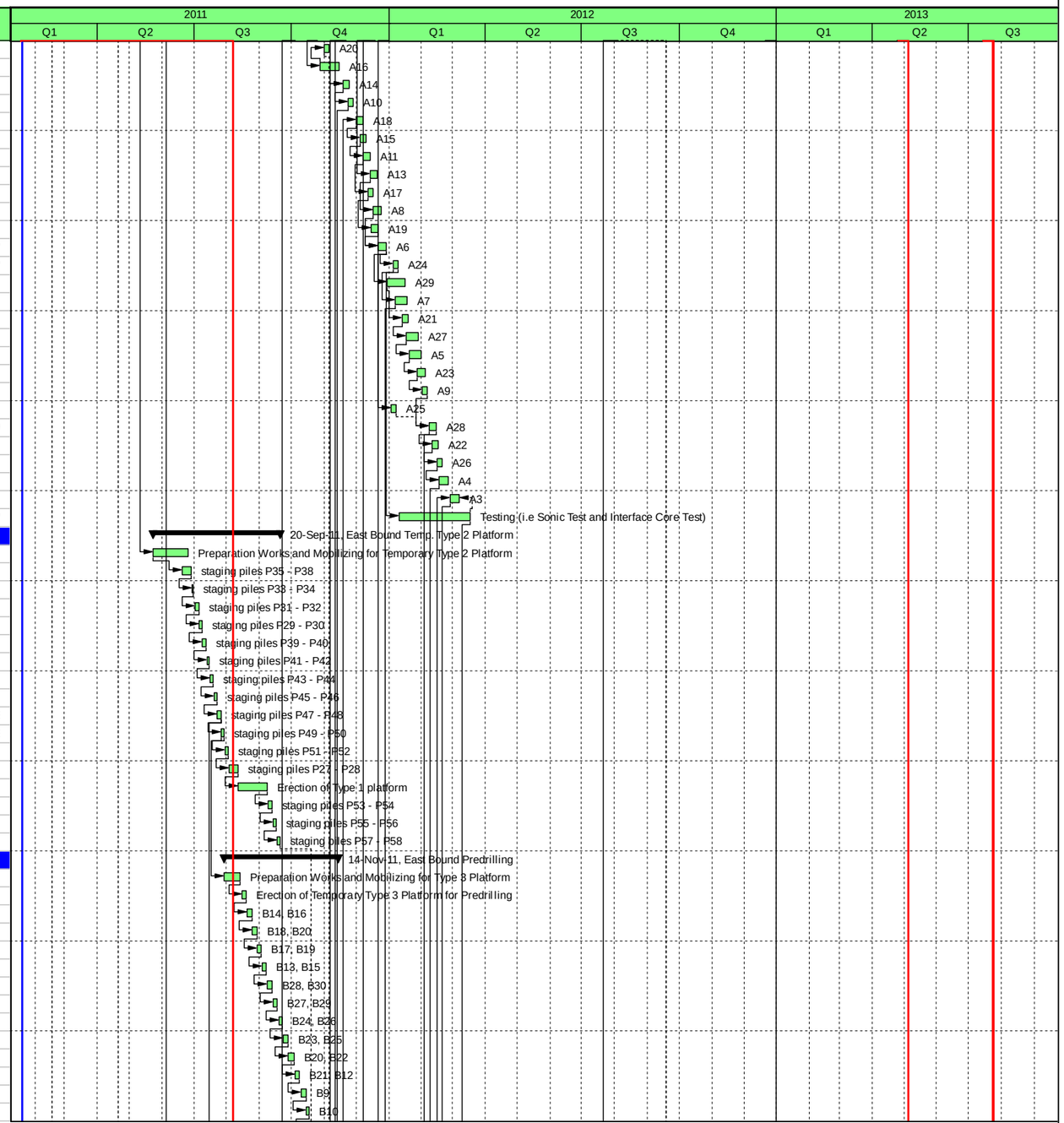
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
WBC2020	A20	5	01-Nov-11	05-Nov-11	39	WBC2040	EBC2000
WBC2040	A16	16	28-Oct-11	15-Nov-11	39	WBC2010	WBC2020
WBC2050	A14	5	19-Nov-11	24-Nov-11	55	EBC2000, WPP1	WBC2060
WBC2060	A10	5	23-Nov-11	28-Nov-11	55	WBC2050	EBC2010
WBC2070	A18	6	01-Dec-11	07-Dec-11	55	EBC2010	WBC2080
WBC2080	A15	6	05-Dec-11	10-Dec-11	55	WBC2070	WBC2090
WBC2090	A11	6	08-Dec-11	14-Dec-11	55	WBC2080	WBC2150
WBC2100	A13	6	14-Dec-11	20-Dec-11	55	WPP1610	WBC2160
WBC2150	A17	6	12-Dec-11	17-Dec-11	55	WBC2090	WBC2165
WBC2160	A8	7	17-Dec-11	24-Dec-11	55	WBC2100	WBC2170
WBC2165	A19	6	15-Dec-11	21-Dec-11	55	WBC2150	WBC2170
WBC2170	A6	5	22-Dec-11	29-Dec-11	55	WBC2165, WBC	WBC2190, V
WBC2180	A24	4	05-Jan-12	09-Jan-12	55	WBC2170	WBC2320, V
WBC2190	A29	14	30-Dec-11	16-Jan-12	55	WBC2170	WBC2210
WBC2200	A7	10	07-Jan-12	18-Jan-12	60	WBC2180	EBC2060
WBC2210	A21	6	13-Jan-12	19-Jan-12	55	WBC2190	WBC2220
WBC2220	A27	8	17-Jan-12	28-Jan-12	55	WBC2210	WBC2230
WBC2230	A5	7	20-Jan-12	31-Jan-12	55	WBC2220	WBC2240
WBC2240	A23	7	28-Jan-12	04-Feb-12	55	WBC2230	WBC2250
WBC2250	A9	5	01-Feb-12	06-Feb-12	55	WBC2240	WBC2270
WBC2260	A25	5	03-Jan-12	07-Jan-12	78	WBC2170	WBC2270
WBC2270	A28	6	08-Feb-12	14-Feb-12	55	WBC2260, WBC	EBC2015, W
WBC2280	A22	5	11-Feb-12	16-Feb-12	55	WBC2270	WBC2290
WBC2290	A26	5	15-Feb-12	20-Feb-12	55	WBC2280	WBC2300
WBC2300	A4	8	17-Feb-12	25-Feb-12	55	WBC2290	EBC2160
WBC2310	A3	8	28-Feb-12	07-Mar-12	55	WBC2320, EBC2	EBC2170
WBC2320	Testing (i.e Sonic Test and Interface Core Test)	55	11-Jan-12	17-Mar-12	55	WBC2180	PCW1800, V
East Bound Temp. Type 2 Platform		121	23-May-11	20-Sep-11	112		
EBS2210	Preparation Works and Mobilizing for Temporary Type 2 Platform	29	23-May-11	25-Jun-11	27	DRW1340	EBS2260
EBS2260	staging piles P35 - P38	8	20-Jun-11	28-Jun-11	27	EBS2210	EBS2270
EBS2270	staging piles P33 - P34	2	29-Jun-11	30-Jun-11	27	EBS2260	EBS2280
EBS2280	staging piles P31 - P32	3	02-Jul-11	05-Jul-11	27	EBS2270	EBS2290
EBS2290	staging piles P29 - P30	3	06-Jul-11	08-Jul-11	27	EBS2280	EBS2300
EBS2300	staging piles P39 - P40	3	09-Jul-11	12-Jul-11	27	EBS2290	EBS2310
EBS2310	staging piles P41 - P42	3	13-Jul-11	15-Jul-11	27	EBS2300	EBS2320
EBS2320	staging piles P43 - P44	3	16-Jul-11	19-Jul-11	27	EBS2310	EBS2330
EBS2330	staging piles P45 - P46	3	20-Jul-11	22-Jul-11	27	EBS2320	EBS2340
EBS2340	staging piles P47 - P48	3	23-Jul-11	26-Jul-11	27	EBS2330	EBS2350, EE
EBS2350	staging piles P49 - P50	3	27-Jul-11	29-Jul-11	58	EBS2340	EBP2310, EE
EBS2360	staging piles P51 - P52	3	30-Jul-11	02-Aug-11	91	EBS2350	EBS2365
EBS2365	staging piles P27 - P28	8	03-Aug-11	11-Aug-11	91	EBS2360	EBS2367
EBS2367	Erection of Type 1 platform	24	12-Aug-11	08-Sep-11	91	EBS2365	EBS2370
EBS2370	staging piles P53 - P54	3	09-Sep-11	12-Sep-11	91	EBS2367	EBS2380
EBS2380	staging piles P55 - P56	3	14-Sep-11	16-Sep-11	91	EBS2370	EBS2390
EBS2390	staging piles P57 - P58	3	17-Sep-11	20-Sep-11	91	EBS2380	EBP2580
East Bound Predrilling		109	29-Jul-11	14-Nov-11	74		
EBP2310	Preparation Works and Mobilizing for Type 3 Platform	14	29-Jul-11	13-Aug-11	58	EBS2350	EBP2330
EBP2330	Erection of Temporary Type 3 Platform for Predrilling	5	15-Aug-11	19-Aug-11	58	EBP2310	EBP2430
EBP2430	B14, B16	4	20-Aug-11	24-Aug-11	58	EBP2330	EBP2440
EBP2440	B18, B20	4	25-Aug-11	29-Aug-11	58	EBP2430	EBP2450
EBP2450	B17, B19	4	30-Aug-11	02-Sep-11	58	EBP2440	EBP2460
EBP2460	B13, B15	4	03-Sep-11	07-Sep-11	58	EBP2450	EBP2470
EBP2470	B28, B30	4	08-Sep-11	12-Sep-11	58	EBP2460	EBP2480
EBP2480	B27, B29	4	14-Sep-11	17-Sep-11	58	EBP2470	EBP2490
EBP2490	B24, B26	4	19-Sep-11	22-Sep-11	58	EBP2480	EBP2500
EBP2500	B23, B25	4	23-Sep-11	27-Sep-11	58	EBP2490	EBP2510
EBP2510	B20, B22	4	28-Sep-11	03-Oct-11	58	EBP2500	EBP2520
EBP2520	B21, B12	4	04-Oct-11	08-Oct-11	58	EBP2510	EBP2530
EBP2530	B9	5	10-Oct-11	14-Oct-11	58	EBP2520	EBP2540
EBP2540	B10	2	15-Oct-11	17-Oct-11	58	EBP2530	EBP2550



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Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
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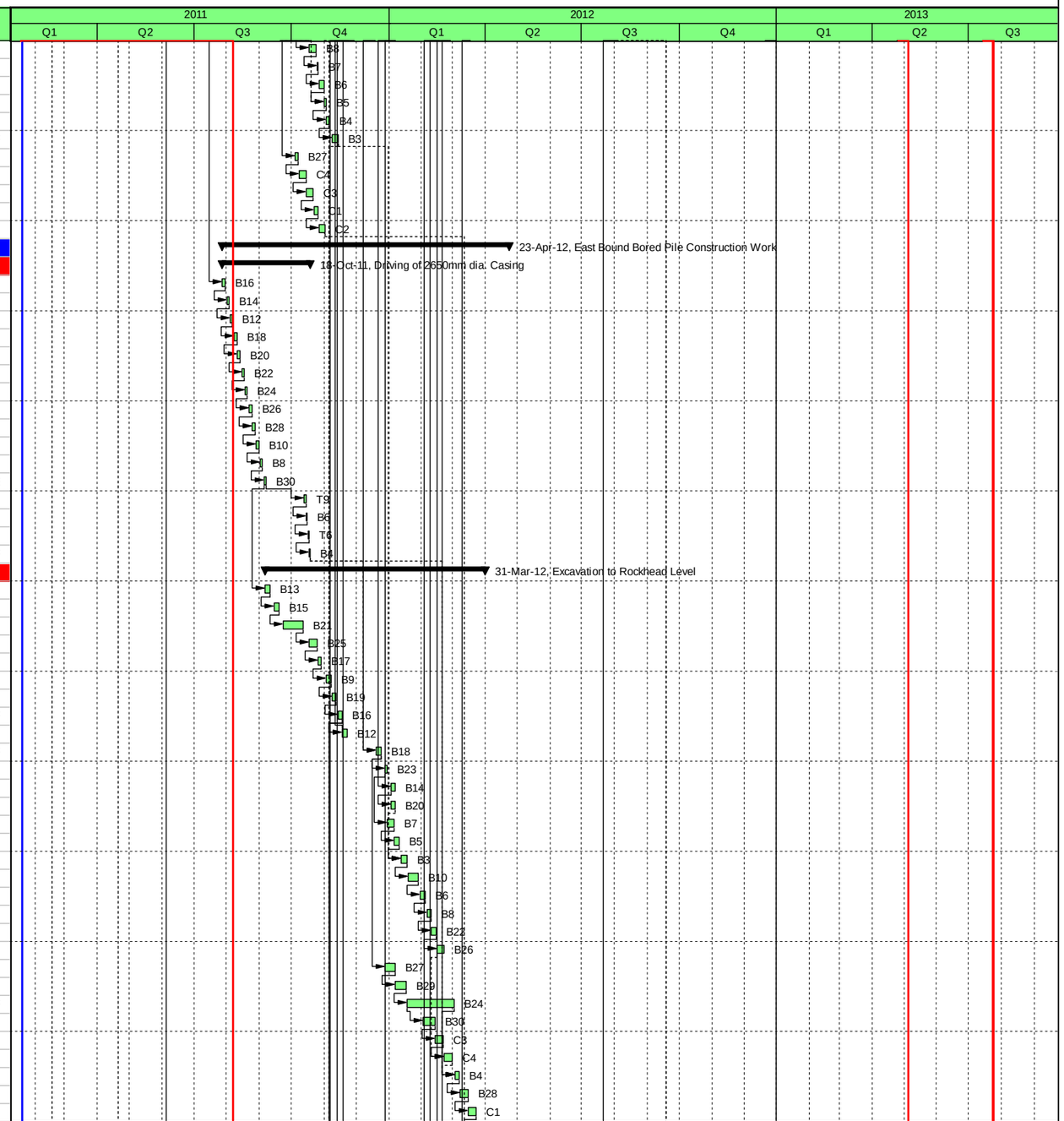
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
EBP2550	B8	6	18-Oct-11	24-Oct-11	58	EBP2540	EBP2560
EBP2560	B7	2	25-Oct-11	26-Oct-11	58	EBP2550	EBP2570
EBP2570	B6	4	27-Oct-11	31-Oct-11	58	EBP2560	EBP2580
EBP2580	B5	2	01-Nov-11	02-Nov-11	58	EBS2390, EBP2	EBP2590
EBP2590	B4	3	03-Nov-11	05-Nov-11	58	EBP2580	EBP2600
EBP2600	B3	6	08-Nov-11	14-Nov-11	58	EBP2590	EPP1550, EF
EBP2610	B27	3	04-Oct-11	07-Oct-11	64	WBP1860	EBP2620
EBP2620	C4	6	08-Oct-11	14-Oct-11	64	EBP2610	EBP2630
EBP2630	C3	6	15-Oct-11	21-Oct-11	64	EBP2620	EBP2640
EBP2640	C1	4	22-Oct-11	26-Oct-11	64	EBP2630	EBP2650
EBP2650	C2	5	27-Oct-11	01-Nov-11	64	EBP2640	EPP1700
East Bound Bored Pile Construction Work		271	28-Jul-11	23-Apr-12	58		
Driving of 2650mm dia. Casing		83	28-Jul-11	18-Oct-11	71		
EBD1010	B16	3	28-Jul-11	30-Jul-11	27	EBS2340	EBD1020
EBD1020	B14	3	01-Aug-11	03-Aug-11	27	EBD1010	EBD1030
EBD1030	B12	3	04-Aug-11	06-Aug-11	27	EBD1020	EBD1040
EBD1040	B18	3	08-Aug-11	10-Aug-11	27	EBD1030	EBD1050
EBD1050	B20	3	11-Aug-11	13-Aug-11	27	EBD1040	EBD1060
EBD1060	B22	3	15-Aug-11	17-Aug-11	27	EBD1050	EBD1070
EBD1070	B24	3	18-Aug-11	20-Aug-11	27	EBD1060	EBD1080
EBD1080	B26	3	22-Aug-11	24-Aug-11	27	EBD1070	EBD1090
EBD1090	B28	3	25-Aug-11	27-Aug-11	27	EBD1080	EBD1100
EBD1100	B10	3	29-Aug-11	31-Aug-11	27	EBD1090	EBD1110
EBD1110	B8	3	01-Sep-11	03-Sep-11	27	EBD1100	EBD1130
EBD1130	B30	3	05-Sep-11	07-Sep-11	27	EBD1110	EPP1400, EF
EBD1140	T9	2	13-Oct-11	14-Oct-11	59	EBD1130	EBD1150
EBD1150	B6	1	15-Oct-11	15-Oct-11	59	EBD1140	EBD1155
EBD1155	T6	1	17-Oct-11	17-Oct-11	59	EBD1150	EBD1160
EBD1160	B4	1	18-Oct-11	18-Oct-11	59	EBD1155	EPP1490, EF
Excavation to Rockhead Level		208	06-Sep-11	31-Mar-12	74		
EPP1400	B13	5	06-Sep-11	10-Sep-11	27	EBD1130	EPP1410
EPP1410	B15	4	15-Sep-11	19-Sep-11	27	EPP1400	EPP1420
EPP1420	B21	15	23-Sep-11	12-Oct-11	27	EPP1410	EPP1430
EPP1430	B25	7	18-Oct-11	25-Oct-11	27	EPP1420	EPP1440
EPP1440	B17	4	26-Oct-11	29-Oct-11	27	EPP1430	EPP1450
EPP1450	B9	4	03-Nov-11	07-Nov-11	27	EPP1440	EPP1460
EPP1460	B19	5	08-Nov-11	12-Nov-11	27	EPP1450	EPP1470
EPP1470	B16	4	14-Nov-11	17-Nov-11	27	EPP1460	EBC2000, EI
EPP1480	B12	4	18-Nov-11	22-Nov-11	55	EBP2600, EPP1	WPP1550
EPP1490	B18	5	20-Dec-11	24-Dec-11	57	EBD1160, WPP1	EPP1500, EF
EPP1500	B23	3	28-Dec-11	30-Dec-11	65	EPP1490	EPP1530
EPP1510	B14	4	03-Jan-12	06-Jan-12	69	WPP1660	EPP1520
EPP1520	B20	4	03-Jan-12	06-Jan-12	69	EPP1510	EPP1550
EPP1530	B7	5	30-Dec-11	05-Jan-12	65	EPP1500	EPP1540
EPP1540	B5	4	06-Jan-12	10-Jan-12	65	EPP1530	EPP1550
EPP1550	B3	6	12-Jan-12	18-Jan-12	65	EPP1540, EPP1	EPP1560
EPP1560	B10	6	19-Jan-12	28-Jan-12	65	EPP1550	EPP1570
EPP1570	B6	6	30-Jan-12	04-Feb-12	65	EPP1560	EPP1580
EPP1580	B8	4	06-Feb-12	09-Feb-12	65	EPP1570	EPP1590
EPP1590	B22	4	10-Feb-12	14-Feb-12	65	EPP1580	EPP1600
EPP1600	B26	7	15-Feb-12	22-Feb-12	65	EPP1590	EPP1662
EPP1610	B27	8	28-Dec-11	06-Jan-12	57	EPP1490	EPP1620
EPP1620	B29	9	07-Jan-12	17-Jan-12	57	EPP1610	EPP1630
EPP1630	B24	36	18-Jan-12	02-Mar-12	57	EPP1620	EPP1640, EF
EPP1640	B30	10	02-Feb-12	13-Feb-12	59	EPP1630	EPP1650
EPP1650	C3	7	14-Feb-12	21-Feb-12	59	EPP1640	EPP1662
EPP1662	C4	7	22-Feb-12	29-Feb-12	59	EPP1650, EPP1	EPP1670
EPP1670	B4	4	03-Mar-12	07-Mar-12	57	EBD1160, EPP1	EPP1680
EPP1680	B28	7	08-Mar-12	15-Mar-12	57	EPP1670	EPP1690
EPP1690	C1	7	16-Mar-12	23-Mar-12	57	EPP1680	EPP1700



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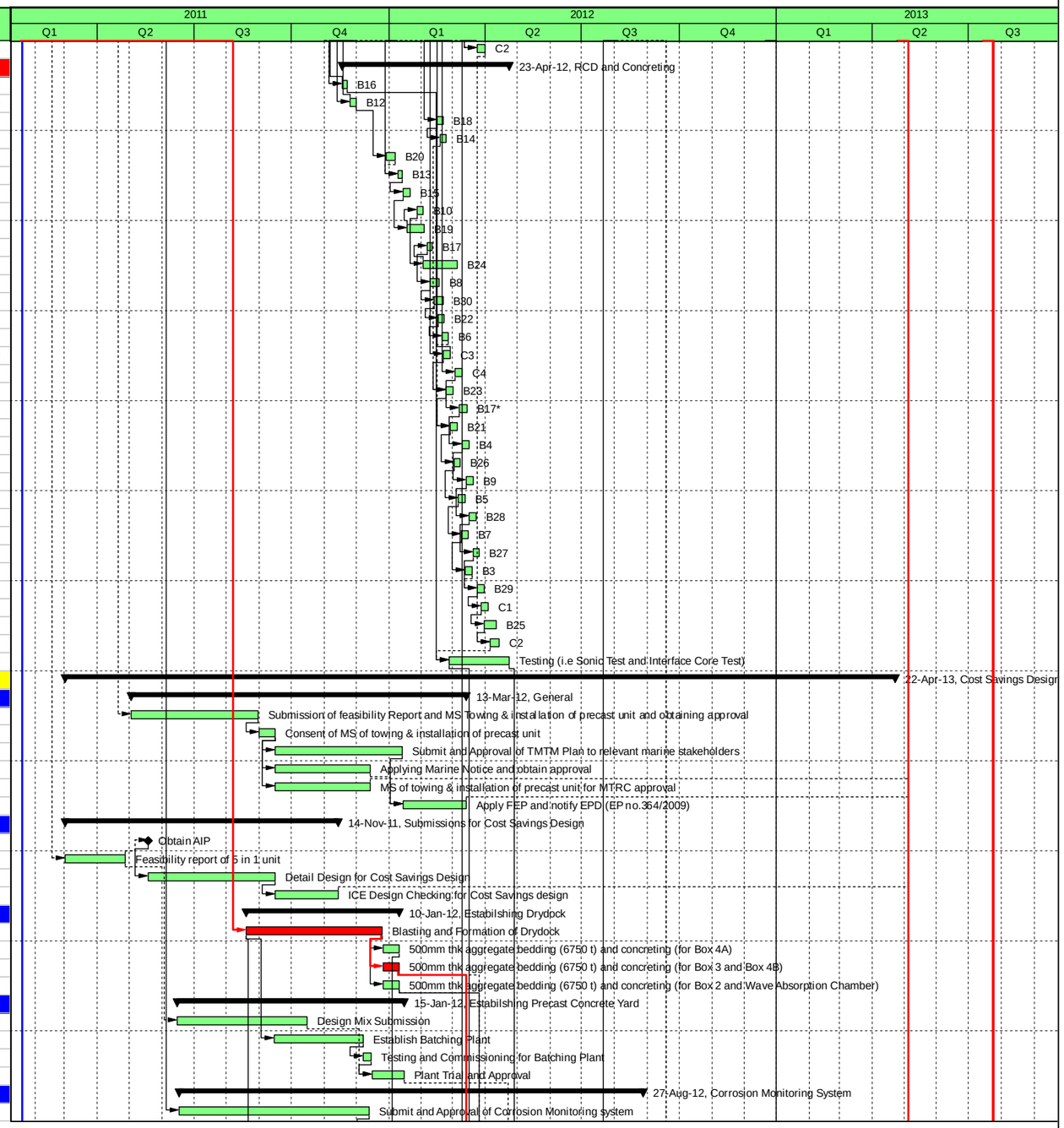
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
EPP1700	C2	7	24-Mar-12	31-Mar-12	57	EBP2650, EPP1(	EBC2320
RCD and Concreting		158	18-Nov-11	23-Apr-12	58		
EBC2000	B16	4	18-Nov-11	22-Nov-11	27	EPP1470, WBC2	WBC2050, E
EBC2010	B12	6	25-Nov-11	01-Dec-11	55	WBC2060	EBC2050, W
EBC2015	B18	6	15-Feb-12	21-Feb-12	64	WBC2270	EBC2040
EBC2040	B14	6	18-Feb-12	24-Feb-12	64	EBC2015	EBC2180
EBC2050	B20	7	29-Dec-11	06-Jan-12	62	EBC2010	EBC2060
EBC2060	B13	4	10-Jan-12	13-Jan-12	60	WBC2200, EBC2	EBC2070
EBC2070	B15	7	14-Jan-12	21-Jan-12	60	EBC2060	EBC2090
EBC2080	B10	5	28-Jan-12	02-Feb-12	60	EBC2090	EBC2110
EBC2090	B19	12	18-Jan-12	03-Feb-12	60	EBC2070	EBC2080
EBC2100	B17	5	06-Feb-12	10-Feb-12	60	EBC2110	EBC2120
EBC2110	B24	28	02-Feb-12	05-Mar-12	60	EBC2080	EBC2100
EBC2120	B8	8	09-Feb-12	17-Feb-12	60	EBC2100	EBC2130
EBC2130	B30	8	13-Feb-12	21-Feb-12	60	EBC2120	EBC2140
EBC2140	B22	6	16-Feb-12	22-Feb-12	60	EBC2130	EBC2150
EBC2150	B6	6	20-Feb-12	25-Feb-12	60	EBC2140	EBC2200
EBC2160	C3	6	21-Feb-12	27-Feb-12	55	WBC2300	EBC2180, W
EBC2170	C4	7	03-Mar-12	10-Mar-12	55	WBC2310	EBC2190
EBC2180	B23	6	24-Feb-12	01-Mar-12	59	EBC2040, EBC2	EBC2200
EBC2190	B17*	7	07-Mar-12	14-Mar-12	55	EBC2170	EBC2210
EBC2200	B21	6	28-Feb-12	05-Mar-12	59	EBC2150, EBC2	EBC2220
EBC2210	B4	6	10-Mar-12	16-Mar-12	55	EBC2190	EBC2230
EBC2220	B26	6	02-Mar-12	08-Mar-12	59	EBC2200	EBC2240
EBC2230	B9	6	14-Mar-12	20-Mar-12	55	EBC2210	EBC2250
EBC2240	B5	6	06-Mar-12	12-Mar-12	59	EBC2220	EBC2260
EBC2250	B28	6	17-Mar-12	23-Mar-12	55	EBC2230	EBC2270
EBC2260	B7	6	09-Mar-12	15-Mar-12	59	EBC2240	EBC2280
EBC2270	B27	6	20-Mar-12	26-Mar-12	55	EBC2250	EBC2290
EBC2280	B3	6	13-Mar-12	19-Mar-12	59	EBC2260	EBC2290
EBC2290	B29	6	24-Mar-12	30-Mar-12	55	EBC2270, EBC2	EBC2300
EBC2300	C1	6	28-Mar-12	03-Apr-12	55	EBC2290	EBC2310
EBC2310	B25	6	31-Mar-12	11-Apr-12	55	EBC2300	EBC2320
EBC2320	C2	6	05-Apr-12	14-Apr-12	55	EBC2310, EPP1	EBC2330
EBC2330	Testing (i.e Sonic Test and Interface Core Test)	45	27-Feb-12	23-Apr-12	27	EBC2320, EBC2	PCW1815, F
Cost Savings Design for Precast Box Unit		784	01-Mar-11	22-Apr-13	103		
General		316	03-May-11	13-Mar-12	185		
PCY1080	Submission of feasibility Report and MS Towing & installation of p	120	03-May-11*	30-Aug-11	185	CNO1000	PCY1090
PCY1090	Consent of MS of towing & installation of precast unit	16	31-Aug-11	15-Sep-11	185	PCY1080	PCY1120, PC
PCY1100	Submit and Approval of TMTM Plan to relevant marine stakehold	120	16-Sep-11*	13-Jan-12	185	PCY1090	PCY1130
PCY1110	Applying Marine Notice and obtain approval	90	16-Sep-11	14-Dec-11	215	PCY1090	PCY1130
PCY1120	MS of towing & installation of precast unit for MTRC approval	90	16-Sep-11	14-Dec-11	185	PCY1090	CNO1020
PCY1130	Apply FEP and notify EPD (EP no.364/2009)	60	14-Jan-12	13-Mar-12	185	PCY1110, PCY11	CNO1020
Submissions for Cost Savings Design		259	01-Mar-11	14-Nov-11	180		
ADU1000	Obtain AIP	0		19-May-11*	0	ADU1010	ADU1020
ADU1010	Feasibility report of 5 in 1 unit	58	01-Mar-11*	27-Apr-11	21	CNO1000	EPY4035, AE
ADU1020	Detail Design for Cost Savings Design	120	19-May-11	16-Sep-11	180	ADU1000	ADU1030
ADU1030	ICE Design Checking for Cost Savings design	60	16-Sep-11	14-Nov-11	176	ADU1020	CNO1020
Estabilshing Drydock		145	19-Aug-11	10-Jan-12	75		
EDK2020	Blasting and Formation of Drydock	129	19-Aug-11	25-Dec-11	0	CNO1000	EDK2070, EI
EDK2060	500mm thk aggregate bedding (6750 t) and concreting (for Box 4	16	26-Dec-11	10-Jan-12	62	EDK2020	STG1001
EDK2070	500mm thk aggregate bedding (6750 t) and concreting (for Box 3	16	26-Dec-11	10-Jan-12	0	EDK2020	STG2001, S
EDK2080	500mm thk aggregate bedding (6750 t) and concreting (for Box 2	16	26-Dec-11	10-Jan-12	71	EDK2020	STG2001, S
Estabilshing Precast Concrete Yard		215	15-Jun-11	15-Jan-12	210		
EPY4035	Design Mix Submission	123	15-Jun-11*	15-Oct-11	271	ADU1010	EPY4041
EPY4039	Establish Batching Plant	84	15-Sep-11	07-Dec-11	206	EDK2020	EPY4040
EPY4040	Testing and Commissioning for Batching Plant	8	08-Dec-11	15-Dec-11	206	EPY4039	EPY4041
EPY4041	Plant Trial and Approval	31	16-Dec-11	15-Jan-12	206	EPY4035, EPY4(	CMS5020
Corrosion Monitoring System		438	17-Jun-11	27-Aug-12	100		
CMS5000	Submit and Approval of Corrosion Monitoring system	180	17-Jun-11	13-Dec-11	100	CNO1000	CMS5010



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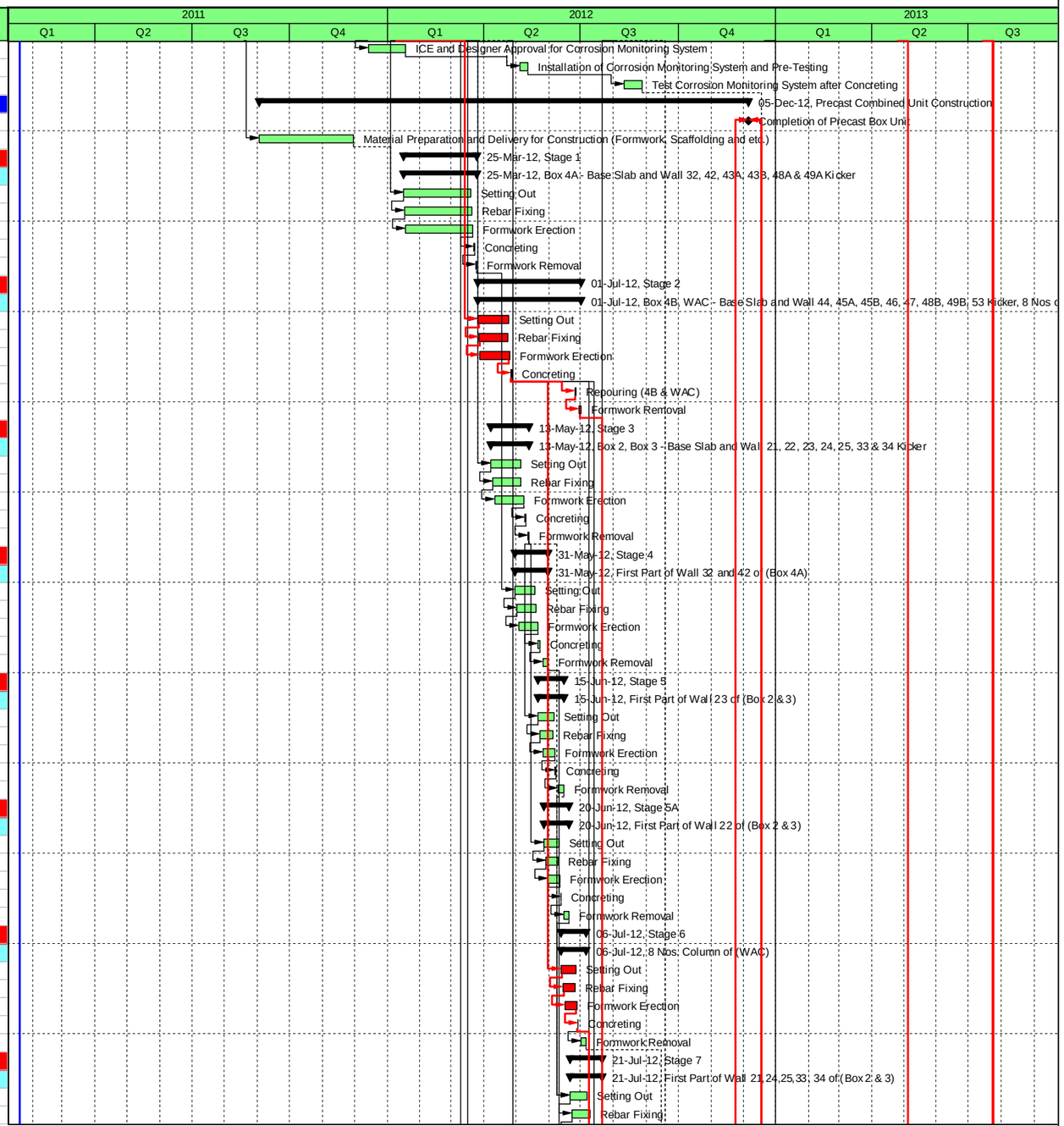
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
CMS5010	ICE and Designer Approval for Corrosion Monitoring System	36	14-Dec-11	18-Jan-12	100	CMS5000	CMS5020
CMS5020	Installation of Corrosion Monitoring System and Pre-Testing	8	05-May-12	12-May-12	100	EPY4041, CMS5	CMS5030
CMS5030	Test Corrosion Monitoring System after Concreting	17	11-Aug-12	27-Aug-12	100	CMS5020	PPC6000
Precast Combined Unit Construction		461	02-Sep-11	05-Dec-12	0		
PPC6000	Completion of Precast Box Unit	0		05-Dec-12*	0	STG9005, STG1	
PPC6010	Material Preparation and Delivery for Construction (Formwork, S	90	02-Sep-11	30-Nov-11	108	EDK2020	STG1001
Stage 1		70	16-Jan-12	25-Mar-12	62		
Box 4A - Base Slab and Wall 32, 42, 43A, 43B, 48A & 49A Kicker		70	16-Jan-12	25-Mar-12	62		
STG1001	Setting Out	60	16-Jan-12	19-Mar-12	62	EDK2060, PPC6	STG1002
STG1002	Rebar Fixing	60	17-Jan-12	20-Mar-12	62	STG1001	STG1003
STG1003	Formwork Erection	60	18-Jan-12	21-Mar-12	62	STG1002	STG1004
STG1004	Concreting	2	22-Mar-12	23-Mar-12	62	STG1003	STG1005
STG1005	Formwork Removal	2	24-Mar-12	25-Mar-12	62	STG1004	STG4001
Stage 2		98	26-Mar-12	01-Jul-12	0		
Box 4B, WAC - Base Slab and Wall 44, 45A, 45B, 46, 47, 48B, 49B, 53 Kicker, 8		98	26-Mar-12	01-Jul-12	0		
STG2001	Setting Out	30	26-Mar-12	24-Apr-12	0	EDK2070, EDK2	STG2002
STG2002	Rebar Fixing	28	27-Mar-12	23-Apr-12	0	STG2001	STG2003
STG2003	Formwork Erection	29	28-Mar-12	25-Apr-12	0	STG2002	STG2004
STG2004	Concreting	2	26-Apr-12	27-Apr-12	0	STG2003	STG6001, S
STG2005	Repouring (4B & WAC)	1	26-Jun-12	26-Jun-12	0	STG2004	STG2006
STG2006	Formwork Removal	3	29-Jun-12	01-Jul-12	0	STG2005	STG1110
Stage 3		37	07-Apr-12	13-May-12	97		
Box 2, Box 3 - Base Slab and Wall 21, 22, 23, 24, 25, 33 & 34 Kicker		37	07-Apr-12	13-May-12	97		
STG3001	Setting Out	29	07-Apr-12	05-May-12	97	EDK2070, EDK2	STG3002
STG3002	Rebar Fixing	27	09-Apr-12	05-May-12	97	STG3001	STG3003
STG3003	Formwork Erection	28	11-Apr-12	08-May-12	97	STG3002	STG3004
STG3004	Concreting	2	09-May-12	10-May-12	97	STG3003	STG3005
STG3005	Formwork Removal	2	12-May-12	13-May-12	97	STG3004	STG7001, S
Stage 4		32	30-Apr-12	31-May-12	62		
First Part of Wall 32 and 42 of (Box 4A)		32	30-Apr-12	31-May-12	62		
STG4001	Setting Out	19	30-Apr-12	18-May-12	62	STG1005	STG4002
STG4002	Rebar Fixing	18	02-May-12	19-May-12	62	STG4001	STG4003
STG4003	Formwork Erection	18	04-May-12	21-May-12	62	STG4002	STG4004
STG4004	Concreting	2	22-May-12	23-May-12	62	STG4003	STG4005
STG4005	Formwork Removal	6	26-May-12	31-May-12	62	STG4004	STG8001
Stage 5		25	22-May-12	15-Jun-12	102		
First Part of Wall 23 of (Box 2 & 3)		25	22-May-12	15-Jun-12	102		
STG5001	Setting Out	15	22-May-12	05-Jun-12	102	STG3005	STG5002
STG5002	Rebar Fixing	12	24-May-12	04-Jun-12	102	STG5001	STG5003
STG5003	Formwork Erection	12	26-May-12	06-Jun-12	102	STG5002	STG5004
STG5004	Concreting	1	07-Jun-12	07-Jun-12	102	STG5003	STG5005
STG5005	Formwork Removal	6	10-Jun-12	15-Jun-12	102	STG5004	STG7001
Stage 5A		25	27-May-12	20-Jun-12	97		
First Part of Wall 22 of (Box 2 & 3)		25	27-May-12	20-Jun-12	97		
SGA5001	Setting Out	15	27-May-12	10-Jun-12	97	STG3005	SGA5002
SGA5002	Rebar Fixing	12	29-May-12	09-Jun-12	97	SGA5001	SGA5003
SGA5003	Formwork Erection	12	31-May-12	11-Jun-12	97	SGA5002	SGA5004
SGA5004	Concreting	1	12-Jun-12	12-Jun-12	97	SGA5003	SGA5005
SGA5005	Formwork Removal	6	15-Jun-12	20-Jun-12	97	SGA5004	STG7001
Stage 6		25	12-Jun-12	06-Jul-12	82		
8 Nos. Column of (WAC)		25	12-Jun-12	06-Jul-12	82		
STG6001	Setting Out	15	12-Jun-12	26-Jun-12	0	STG2004	STG6002
STG6002	Rebar Fixing	12	14-Jun-12	25-Jun-12	0	STG6001	STG6003
STG6003	Formwork Erection	12	16-Jun-12	27-Jun-12	0	STG6002	STG6004
STG6004	Concreting	1	28-Jun-12	28-Jun-12	0	STG6003	SGA1010, S
STG6005	Formwork Removal	6	01-Jul-12	06-Jul-12	82	STG6004	STG1310
Stage 7		31	21-Jun-12	21-Jul-12	97		
First Part of Wall 21,24,25,33, 34 of (Box 2 & 3)		31	21-Jun-12	21-Jul-12	97		
STG7001	Setting Out	17	21-Jun-12	07-Jul-12	97	STG3005, STG5	STG7002
STG7002	Rebar Fixing	17	23-Jun-12	09-Jul-12	97	STG7001	STG7003



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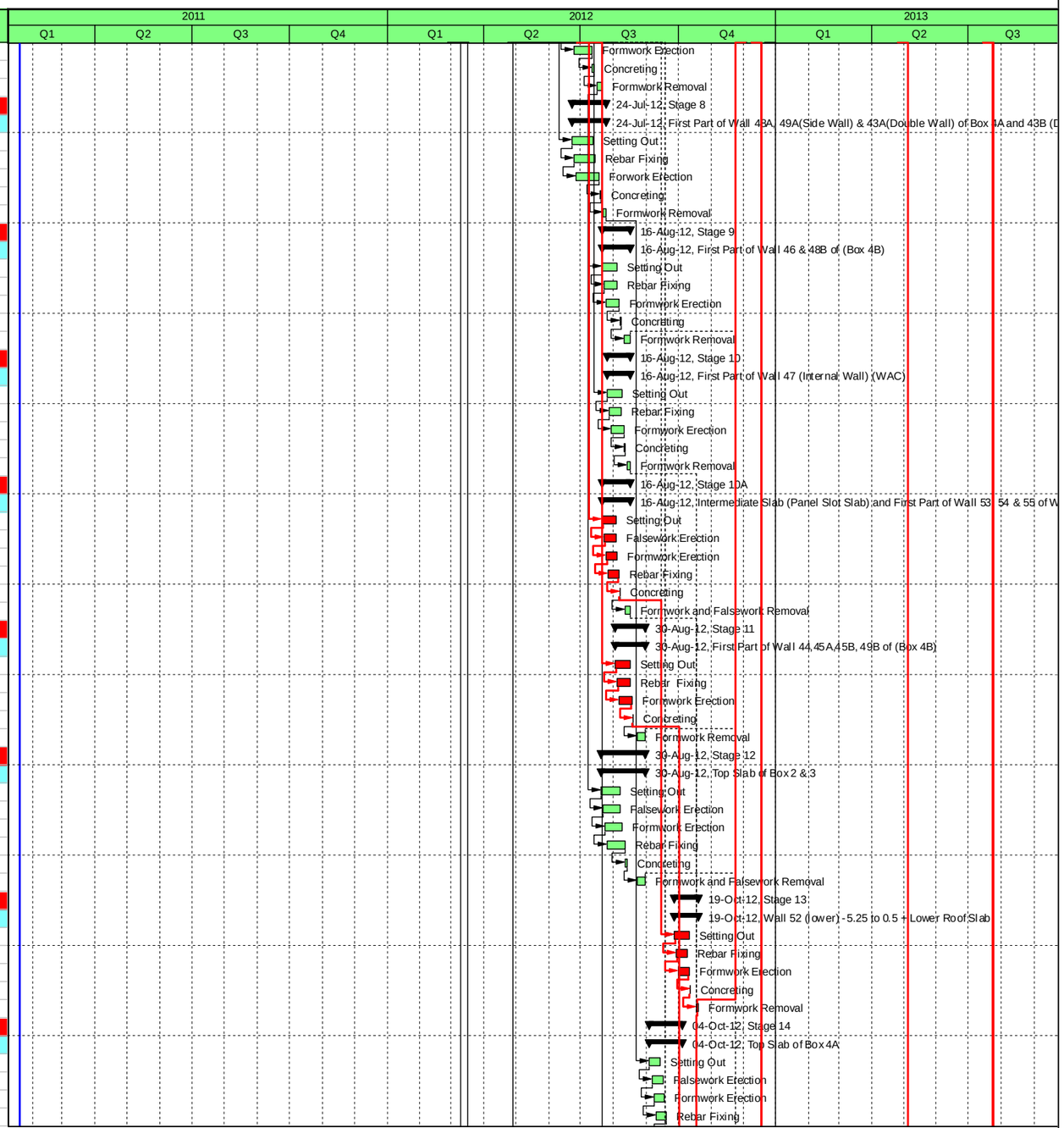
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
STG7003	Formwork Erection	17	25-Jun-12	11-Jul-12	97	STG7002	STG7004
STG7004	Concreting	2	12-Jul-12	13-Jul-12	97	STG7003	STG7005
STG7005	Formwork Removal	6	16-Jul-12	21-Jul-12	97	STG7004	STG1210
Stage 8		32	23-Jun-12	24-Jul-12	62		
First Part of Wall 48A, 49A(Side Wall) & 43A(Double Wall) of Box 4A and 43B		32	23-Jun-12	24-Jul-12	62		
STG8001	Setting Out	20	23-Jun-12	12-Jul-12	62	STG4005	STG8002
STG8002	Rebar Fixing	20	25-Jun-12	14-Jul-12	62	STG8001	STG8003
STG8003	Forwork Erection	22	27-Jun-12	18-Jul-12	62	STG8002	STG8004
STG8004	Concreting	2	19-Jul-12	20-Jul-12	62	STG8003	STG8005
STG8005	Formwork Removal	3	22-Jul-12	24-Jul-12	62	STG8004	STG1410
Stage 9		27	21-Jul-12	16-Aug-12	111		
First Part of Wall 46 & 48B of (Box 4B)		27	21-Jul-12	16-Aug-12	111		
STG9001	Setting Out	15	21-Jul-12	04-Aug-12	111	STG2004	STG9002
STG9002	Rebar Fixing	13	23-Jul-12	04-Aug-12	111	STG9001	STG9003
STG9003	Formwork Erection	13	25-Jul-12	06-Aug-12	111	STG9002	STG9004
STG9004	Concreting	2	07-Aug-12	08-Aug-12	111	STG9003	STG9005
STG9005	Formwork Removal	6	11-Aug-12	16-Aug-12	111	STG9004	PPC6000
Stage 10		22	26-Jul-12	16-Aug-12	74		
First Part of Wall 47 (Internal Wall) (WAC)		22	26-Jul-12	16-Aug-12	74		
STG1010	Setting Out	15	26-Jul-12	09-Aug-12	74	STG2004	STG1020
STG1020	Rebar Fixing	12	28-Jul-12	08-Aug-12	74	STG1010	STG1030
STG1030	Formwork Erection	12	30-Jul-12	10-Aug-12	74	STG1020	STG1040
STG1040	Concreting	1	11-Aug-12	11-Aug-12	74	STG1030	STG1050
STG1050	Formwork Removal	3	14-Aug-12	16-Aug-12	74	STG1040	STG1510
Stage 10A		27	21-Jul-12	16-Aug-12	74		
Intermediate Slab (Panel Slot Slab) and First Part of Wall 53, 54 & 55 of WAC		27	21-Jul-12	16-Aug-12	74		
SGA1010	Setting Out	14	21-Jul-12	03-Aug-12	0	STG6004	SGA1020
SGA1020	Falsework Erection	12	23-Jul-12	03-Aug-12	0	SGA1010	SGA1030
SGA1030	Formwork Erection	11	25-Jul-12	04-Aug-12	0	SGA1020	SGA1040
SGA1040	Rebar Fixing	11	27-Jul-12	06-Aug-12	0	SGA1030	SGA1050
SGA1050	Concreting	1	07-Aug-12	07-Aug-12	0	SGA1040	STG1310, S
SGA1060	Formwork and Falsework Removal	5	12-Aug-12	16-Aug-12	74	SGA1050	STG1510
Stage 11		29	02-Aug-12	30-Aug-12	97		
First Part of Wall 44,45A,45B, 49B of (Box 4B)		29	02-Aug-12	30-Aug-12	97		
STG1110	Setting Out	15	02-Aug-12	16-Aug-12	0	STG2006	STG1120
STG1120	Rebar Fixing	13	04-Aug-12	16-Aug-12	0	STG1110	STG1130
STG1130	Formwork Erection	13	06-Aug-12	18-Aug-12	0	STG1120	STG1140
STG1140	Concreting	1	19-Aug-12	19-Aug-12	0	STG1130	STG1610, S
STG1150	Formwork Removal	8	23-Aug-12	30-Aug-12	97	STG1140	PPC6000
Stage 12		42	20-Jul-12	30-Aug-12	97		
Top Slab of Box 2 & 3		42	20-Jul-12	30-Aug-12	97		
STG1210	Setting Out	19	20-Jul-12	07-Aug-12	97	STG7005	STG1220
STG1220	Falsework Erection	17	22-Jul-12	07-Aug-12	97	STG1210	STG1230
STG1230	Formwork Erection	17	24-Jul-12	09-Aug-12	97	STG1220	STG1240
STG1240	Rebar Fixing	17	26-Jul-12	11-Aug-12	97	STG1230	STG1250
STG1250	Concreting	2	12-Aug-12	13-Aug-12	97	STG1240	STG1260
STG1260	Formwork and Falsework Removal	8	23-Aug-12	30-Aug-12	97	STG1250	PPC6000
Stage 13		23	27-Sep-12	19-Oct-12	0		
Wall 52 (lower) -5.25 to 0.5 + Lower Roof Slab		23	27-Sep-12	19-Oct-12	0		
STG1310	Setting Out	15	27-Sep-12	11-Oct-12	0	STG6005, SGA1	STG1320
STG1320	Rebar Fixing	11	29-Sep-12	09-Oct-12	0	STG1310	STG1330
STG1330	Formwork Erection	11	01-Oct-12	11-Oct-12	0	STG1320	STG1340
STG1340	Concreting	1	12-Oct-12	12-Oct-12	0	STG1330	STG1350
STG1350	Formwork Removal	2	18-Oct-12	19-Oct-12	0	STG1340	PPC6000, S
Stage 14		32	03-Sep-12	04-Oct-12	62		
Top Slab of Box 4A		32	03-Sep-12	04-Oct-12	62		
STG1410	Setting Out	11	03-Sep-12	13-Sep-12	62	STG8005	STG1420
STG1420	Falsework Erection	11	06-Sep-12	16-Sep-12	62	STG1410	STG1430
STG1430	Formwork Erection	10	08-Sep-12	17-Sep-12	62	STG1420	STG1440
STG1440	Rebar Fixing	10	10-Sep-12	19-Sep-12	62	STG1430	STG1450



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Date	Revision	Ch...	Approved
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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

Contract No.: HK/2010/06

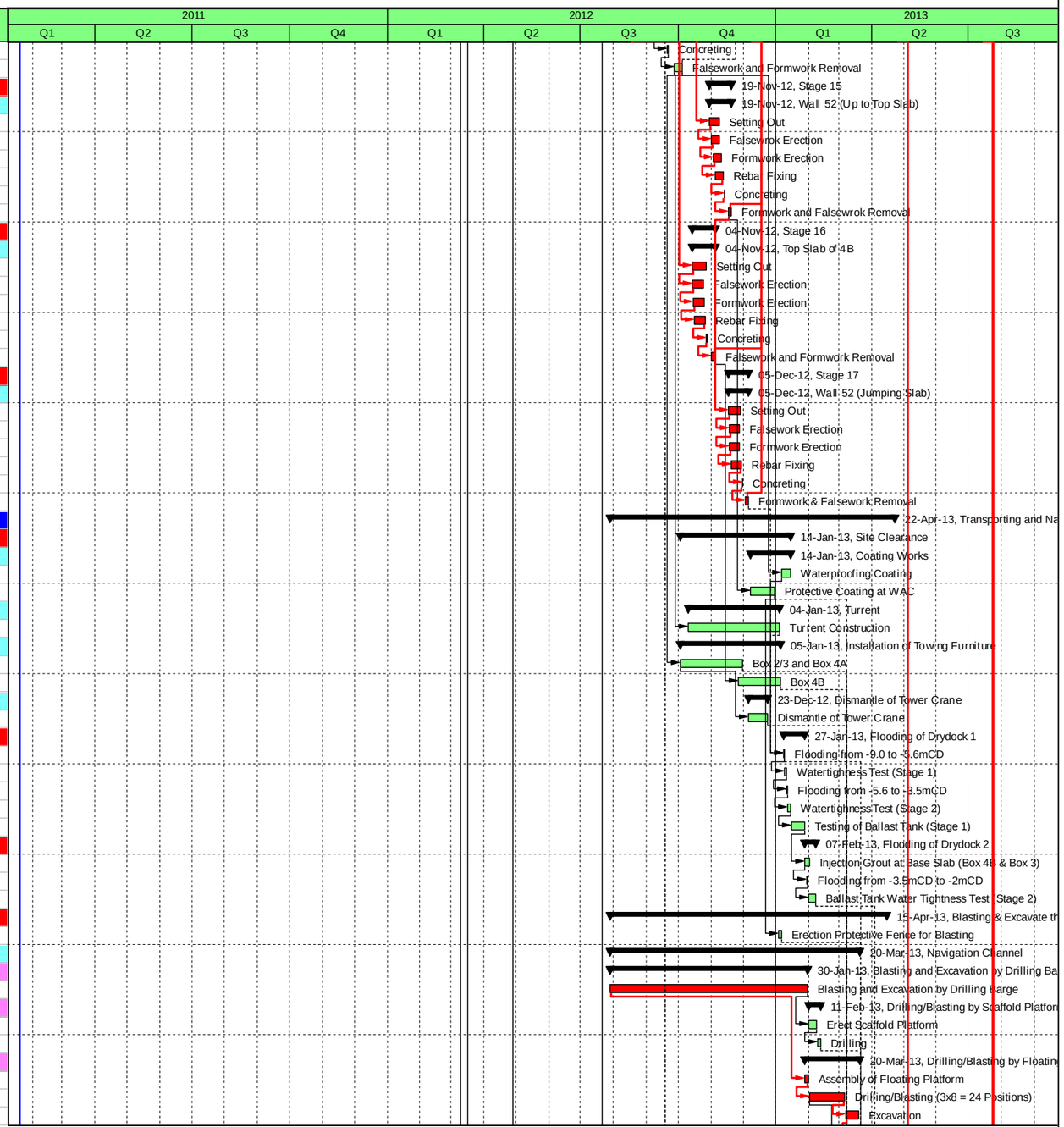
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
STG1450	Concreting	2	20-Sep-12	21-Sep-12	62	STG1440	STG1460
STG1460	Falsework and Formwork Removal	8	27-Sep-12	04-Oct-12	62	STG1450	ITF3010, PP
Stage 15		21	30-Oct-12	19-Nov-12	0		
Wall 52 (Up to Top Slab)		21	30-Oct-12	19-Nov-12	0		
STG1510	Setting Out	10	30-Oct-12	08-Nov-12	0	STG1050, STG1	STG1520
STG1520	Falsewrok Erection	8	01-Nov-12	08-Nov-12	0	STG1510	STG1530
STG1530	Formwork Erection	8	03-Nov-12	10-Nov-12	0	STG1520	STG1540
STG1540	Rebar Fixing	8	05-Nov-12	12-Nov-12	0	STG1530	STG1550
STG1550	Concreting	1	13-Nov-12	13-Nov-12	0	STG1540	STG1560
STG1560	Formwork and Falsewrok Removal	3	17-Nov-12	19-Nov-12	0	STG1550	STG1710, C
Stage 16		22	14-Oct-12	04-Nov-12	0		
Top Slab of 4B		22	14-Oct-12	04-Nov-12	0		
STG1610	Setting Out	14	14-Oct-12	27-Oct-12	0	STG1140	STG1620
STG1620	Falsework Erection	11	14-Oct-12	24-Oct-12	0	STG1610	STG1630
STG1630	Formwork Erection	11	15-Oct-12	25-Oct-12	0	STG1620	STG1640
STG1640	Rebar Fixing	11	16-Oct-12	26-Oct-12	0	STG1630	STG1650
STG1650	Concreting	2	27-Oct-12	28-Oct-12	0	STG1640	STG1660
STG1660	Falsework and Formwork Removal	4	01-Nov-12	04-Nov-12	0	STG1650	PPC6000, IT
Stage 17		19	17-Nov-12	05-Dec-12	0		
Wall 52 (Jumping Slab)		19	17-Nov-12	05-Dec-12	0		
STG1710	Setting Out	12	17-Nov-12	28-Nov-12	0	STG1560	STG1720
STG1720	Falsework Erection	10	18-Nov-12	27-Nov-12	0	STG1710	STG1730
STG1730	Formwork Erection	10	18-Nov-12	27-Nov-12	0	STG1720	STG1740
STG1740	Rebar Fixing	10	20-Nov-12	29-Nov-12	0	STG1730	STG1750
STG1750	Concreting	1	30-Nov-12	30-Nov-12	0	STG1740	STG1760
STG1760	Formwork & Falsework Removal	3	03-Dec-12	05-Dec-12	0	STG1750	FOD6010, P
Transporting and Navigating		268	29-Jul-12	22-Apr-13	0		
Site Clearance		104	03-Oct-12	14-Jan-13	67		
Coating Works		38	08-Dec-12	14-Jan-13	67		
CWW1000	Waterproofing Coating	9	06-Jan-13	14-Jan-13	62	STG1460	FOD6010
CWW1010	Protective Coating at WAC	23	08-Dec-12	30-Dec-12	75	STG1560	BED3000, BI
Turrent		87	10-Oct-12	04-Jan-13	70		
SCT2000	Turrent Construction	87	10-Oct-12	04-Jan-13	65	STG1460	FOD6010
Installation of Towing Furniture		95	03-Oct-12	05-Jan-13	68		
ITF3010	Box 2/3 and Box 4A	59	03-Oct-12	30-Nov-12	82	STG1460	DTC4010, BI
ITF3020	Box 4B	41	26-Nov-12	05-Jan-13	63	STG1660	BED3400
Dismantle of Tower Crane		18	06-Dec-12	23-Dec-12	87		
DTC4010	Dismantle of Tower Crane	18	06-Dec-12	23-Dec-12	82	ITF3010	BED3400
Flooding of Drydock 1		20	08-Jan-13	27-Jan-13	67		
FOD6010	Flooding from -9.0 to -5.6mCD	1	08-Jan-13	08-Jan-13	62	CWW1000, STG	PPU8000, FC
FOD6020	Watertighness Test (Stage 1)	2	09-Jan-13	10-Jan-13	62	FOD6010	FOD6030
FOD6030	Flooding from -5.6 to -3.5mCD	1	11-Jan-13	11-Jan-13	62	FOD6020	FOD6040
FOD6040	Watertighness Test (Stage 2)	3	12-Jan-13	14-Jan-13	62	FOD6030	FOD6050
FOD6050	Testing of Ballast Tank (Stage 1)	13	15-Jan-13	27-Jan-13	62	FOD6040	FOD7010
Flooding of Drydock 2		11	28-Jan-13	07-Feb-13	67		
FOD7010	Injection Grout at Base Slab (Box 4B & Box 3)	5	28-Jan-13	01-Feb-13	62	FOD6050	FOD7020
FOD7020	Flooding from -3.5mCD to -2mCD	1	30-Jan-13	30-Jan-13	62	FOD7010	FOD7030
FOD7030	Ballast Tank Water Tightness Test (Stage 2)	8	31-Jan-13	07-Feb-13	62	FOD7020	PPU8010
Blasting & Excavate the Navigation and Dock Gate		261	29-Jul-12	15-Apr-13	0		
BED3000	Erection Protective Fence for Blasting	4	03-Jan-13	06-Jan-13	81	CWW1010	PPU8000
Navigation Channel		235	29-Jul-12	20-Mar-13	13		
Blasting and Excavation by Drilling Barge		186	29-Jul-12	30-Jan-13	0		
BED3100	Blasting and Excavation by Drilling Barge	186	29-Jul-12*	30-Jan-13	0		BED3200, BI
Drilling/Blasting by Scaffold Platform		12	31-Jan-13	11-Feb-13	50		
BED3200	Erect Scaffold Platform	9	31-Jan-13	08-Feb-13	45	BED3100	BED3210
BED3210	Drilling	3	09-Feb-13	11-Feb-13	50	BED3200	PPU8000
Drilling/Blasting by Floating Platform		52	28-Jan-13	20-Mar-13	9		
BED3300	Assembly of Floating Platform	4	28-Jan-13	31-Jan-13	0	BED3100	BED3310
BED3310	Drilling/Blasting (3x8 = 24 Positions)	29	01-Feb-13	06-Mar-13	0	BED3300	BED3320, BI
BED3320	Excavation	13	07-Mar-13	19-Mar-13	0	BED3310	BED3330



Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

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19-Sep-12	Rev. I	MF	KT
21-Nov-12	Rev. J	MF	KT
19-Feb-13	Rev. K	MF	KT
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Contract No.: HK/2010/06

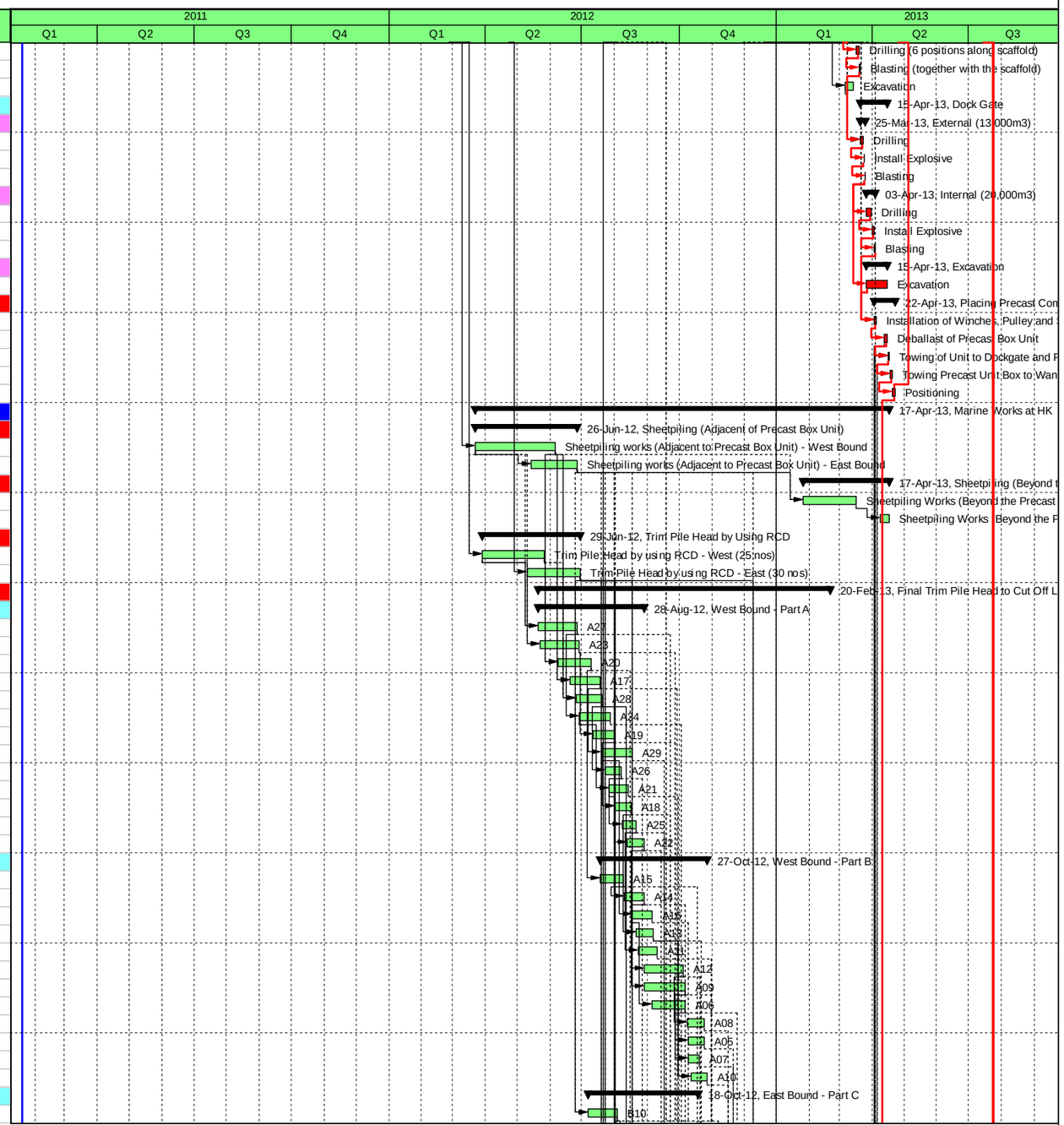
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
BED3330	Drilling (6 positions along scaffold)	3	17-Mar-13	19-Mar-13	0	BED3320	BED3340
BED3340	Blasting (together with the scaffold)	1	20-Mar-13	20-Mar-13	0	BED3330	BED3400
BED3350	Excavation	9	06-Mar-13	14-Mar-13	15	BED3310	BED3400
Dock Gate		26	21-Mar-13	15-Apr-13	0		
External (13,000m3)		5	21-Mar-13	25-Mar-13	0		
BED3400	Drilling	3	21-Mar-13	23-Mar-13	0	ITF3010, DTC40	BED3410
BED3410	Install Explosive	1	24-Mar-13	24-Mar-13	0	BED3400	BED3420
BED3420	Blasting	1	25-Mar-13	25-Mar-13	0	BED3410	BED3500, BI
Internal (20,000m3)		9	26-Mar-13	03-Apr-13	0		
BED3500	Drilling	6	26-Mar-13	31-Mar-13	0	BED3420	BED3510
BED3510	Install Explosive	2	01-Apr-13	02-Apr-13	0	BED3500	BED3520
BED3520	Blasting	1	03-Apr-13	03-Apr-13	0	BED3510	PPU8000
Excavation		21	26-Mar-13	15-Apr-13	0		
BED4000	Excavation	21	26-Mar-13	15-Apr-13	0	BED3420	PPU8000
Placing Precast Combined Unit		20	03-Apr-13	22-Apr-13	0		
PPU8000	Installation of Winches, Pulley and Survey Tower at Box 4B top sl	2	03-Apr-13	04-Apr-13	0	FOD6010, BED3	PPU8005
PPU8005	Deballast of Precast Box Unit	4	12-Apr-13	15-Apr-13	0	PPU8000	PPU8010, DI
PPU8010	Towing of Unit to Dockgate and Preparation for Towing	2	16-Apr-13	17-Apr-13	0	PPU8005, FPP15	PPU8020
PPU8020	Towing Precast Unit Box to Wan Chai	2	18-Apr-13	19-Apr-13	0	PPU8010, DRW:	PPU8030
PPU8030	Positioning	2	20-Apr-13	22-Apr-13	0	PPU8020	SSU9010, CI
Marine Works at HK		392	22-Mar-12	17-Apr-13	108		
Sheetpiling (Adjacent of Precast Box Unit)		97	22-Mar-12	26-Jun-12	65		
PCW1800	Sheetpiling works (Adjacent to Precast Box Unit) - West Bound	59	22-Mar-12	05-Jun-12	55	WBC2320	PCW1810, V
PCW1805	Sheetpiling works (Adjacent to Precast Box Unit) - East Bound	37	14-May-12	26-Jun-12	55	PCW1800	EBC3820, EI
Sheetpiling (Beyond the Precast Box Unit)		82	26-Jan-13	17-Apr-13	108		
PCW1810	Sheetpiling Works (Beyond the Precast Box Unit) - (Eastern)	40	26-Jan-13	16-Mar-13	89	PCW1800, PCW	PCW1820
PCW1820	Sheetpiling Works (Beyond the Precast Box Unit) - (Western)	9	08-Apr-13	17-Apr-13	89	PCW1810	
Trim Pile Head by Using RCD		93	29-Mar-12	29-Jun-12	80		
PCW1815	Trim Pile Head by using RCD - West (25 nos)	45	29-Mar-12	26-May-12	95	EBC2330, PCW1	WBA1820, V
PCW1825	Trim Pile Head by using RCD - East (30 nos)	43	10-May-12	29-Jun-12	27	EBC2330	EBC3830, EI
Final Trim Pile Head to Cut Off Level		276	21-May-12	20-Feb-13	50		
West Bound - Part A		100	21-May-12	28-Aug-12	118		
WBA1800	A27	31	21-May-12	26-Jun-12	95	PCW1815, PCW	WGA1860, V
WBA1810	A23	31	23-May-12	28-Jun-12	97	PCW1800, PCW	WBA1860, W
WBA1820	A20	24	09-Jun-12	09-Jul-12	94	PCW1815, PCW	WBB2810, W
WBA1830	A17	23	20-Jun-12	18-Jul-12	107	PCW1800, PCW	WGA1900, V
WBA1840	A28	21	26-Jun-12	20-Jul-12	71	PCW1815, PCW	WGA1800, V
WBA1850	A24	25	28-Jun-12	27-Jul-12	95	WBA1800	WGA1920, V
WBA1860	A19	17	12-Jul-12	31-Jul-12	97	WBA1810	WGA1880, V
WBA1870	A29	26	19-Jul-12	17-Aug-12	107	WBA1830	WBB2830, W
WBA1880	A26	14	23-Jul-12	07-Aug-12	98	WBA1840	WGA1820, V
WBA1890	A21	15	27-Jul-12	13-Aug-12	95	WBA1850	WGA1910, V
WBA1900	A18	14	01-Aug-12	16-Aug-12	97	WBA1860	WGA1870, V
WBA1910	A25	12	08-Aug-12	21-Aug-12	104	WBA1880	WBB2850, W
WBA1920	A22	14	13-Aug-12	28-Aug-12	95	WBA1890	WGA1830, V
West Bound - Part B		102	18-Jul-12	27-Oct-12	125		
WBB2810	A15	20	18-Jul-12	09-Aug-12	94	WBA1820	WBB2820, W
WBB2820	A14	16	10-Aug-12	28-Aug-12	94	WBB2810	WBB2860, W
WBB2830	A16	17	17-Aug-12	05-Sep-12	107	WBA1870	WGB2810, V
WBB2840	A13	15	21-Aug-12	06-Sep-12	97	WBA1900	WBB2920, W
WBB2850	A11	16	23-Aug-12	10-Sep-12	121	WBA1910	WGB2860
WBB2860	A12	30	29-Aug-12	04-Oct-12	94	WBB2820	WBB2890, W
WBB2870	A09	32	29-Aug-12	06-Oct-12	100	WBA1920	WBB2900, W
WBB2880	A06	26	05-Sep-12	06-Oct-12	107	WBB2830	WGB2910, V
WBB2890	A08	14	08-Oct-12	24-Oct-12	100	WBB2860	WGB2870
WBB2900	A05	13	09-Oct-12	24-Oct-12	104	WBB2870	WGB2890
WBB2910	A07	10	09-Oct-12	19-Oct-12	107	WBB2880	WGB2900
WBB2920	A10	13	12-Oct-12	27-Oct-12	97	WBB2840	WGB2880
East Bound - Part C		104	07-Jul-12	18-Oct-12	102		
EBC3800	B10	24	07-Jul-12	03-Aug-12	75	PCW1825, PCW	EGC3900, E



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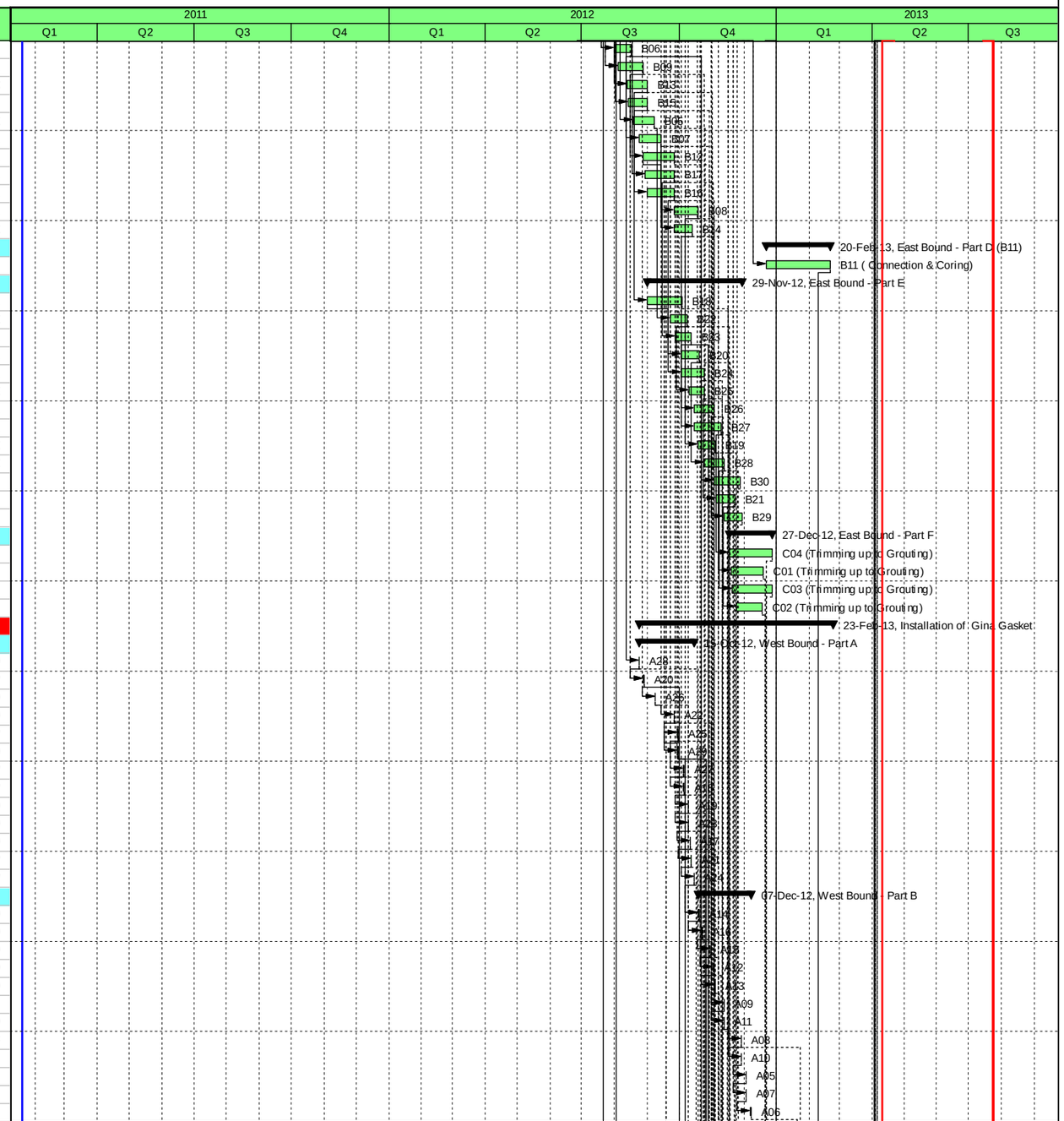
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
EBC3810	B06	15	31-Jul-12	16-Aug-12	27	PCW1825, PCW	EGC3800, E
EBC3820	B09	20	04-Aug-12	27-Aug-12	62	PCW1805, PCW	EGC3810, E
EBC3830	B13	17	13-Aug-12	31-Aug-12	66	PCW1825, PCW	EBC3890, E(
EBC3840	B15	16	14-Aug-12	31-Aug-12	84	PCW1805, PCW	EGC3840, E
EBC3850	B05	18	18-Aug-12	07-Sep-12	75	EBC3800	EBE5010, E(
EBC3860	B07	18	24-Aug-12	13-Sep-12	49	EBC3810	EGC3850, E
EBC3870	B12	26	28-Aug-12	26-Sep-12	62	EBC3820	EGC3830, E
EBC3880	B17	24	30-Aug-12	26-Sep-12	65	PCW1805, PCW	EGC3870, E
EBC3890	B16	22	01-Sep-12	26-Sep-12	66	EBC3830	EGC3890, E
EBC3900	B08	18	26-Sep-12	18-Oct-12	49	EBC3860	EGC3880, E
EBC3910	B14	14	26-Sep-12	13-Oct-12	87	EBC3870	EBE5060, E(
East Bound - Part D (B11)		61	22-Dec-12	20-Feb-13	48		
EBD4000	B11 (Connection & Coring)	46	22-Dec-12	20-Feb-13	37	PCW1825, PCW	EGC3920
East Bound - Part E		90	01-Sep-12	29-Nov-12	109		
EBE5000	B18	26	01-Sep-12	03-Oct-12	88	EBC3840	EGD4050, E
EBE5010	B22	12	22-Sep-12	08-Oct-12	86	EBC3850	EBE5050, E(
EBE5020	B23	12	27-Sep-12	12-Oct-12	82	EBC3880	EGD4000, E
EBE5030	B20	15	03-Oct-12	19-Oct-12	82	EBC3890	EGD4080, E
EBE5040	B24	18	03-Oct-12	24-Oct-12	88	EBE5000	EGD4010, E
EBE5050	B25	12	10-Oct-12	24-Oct-12	86	EBE5010	EBE5110, E(
EBE5060	B26	16	15-Oct-12	02-Nov-12	87	EBC3910	EGD4030, E
EBE5070	B27	22	15-Oct-12	09-Nov-12	82	EBE5020	EGD4070, E
EBE5080	B19	13	19-Oct-12	03-Nov-12	86	EBC3900	EBE5140, E(
EBE5090	B28	17	24-Oct-12	12-Nov-12	82	EBE5030	EBE5150, E(
EBE5100	B30	21	03-Nov-12	27-Nov-12	88	EBE5040	EGD4090
EBE5110	B21	16	05-Nov-12	22-Nov-12	86	EBE5050	EGD4040, E
EBE5120	B29	16	12-Nov-12	29-Nov-12	87	EBE5060	EGD4100
East Bound - Part F		41	17-Nov-12	27-Dec-12	105		
EBE5130	C04 (Trimming up to Grouting)	33	17-Nov-12	27-Dec-12	82	EBE5070	ECE6540
EBE5140	C01 (Trimming up to Grouting)	27	19-Nov-12	19-Dec-12	86	EBE5080	ECE6510
EBE5150	C03 (Trimming up to Grouting)	31	20-Nov-12	27-Dec-12	82	EBE5090	ECE6530
EBE5160	C02 (Trimming up to Grouting)	21	24-Nov-12	18-Dec-12	87	EBE5110	ECE6520
Installation of Gina Gasket		184	24-Aug-12	23-Feb-13	48		
West Bound - Part A		53	24-Aug-12	15-Oct-12	87		
WGA1800	A28	1	24-Aug-12	24-Aug-12	71	WBA1840	WGA1810, V
WGA1810	A20	1	28-Aug-12	28-Aug-12	71	WBA1820, WGA	WCA2000, V
WGA1820	A26	1	08-Sep-12	08-Sep-12	71	WBA1880, WGA	WGA1830, V
WGA1830	A22	1	26-Sep-12	26-Sep-12	71	WBA1920, WGA	WGA1850, V
WGA1840	A25	1	29-Sep-12	29-Sep-12	71	WGA1850, WBA	WCA2060, V
WGA1850	A29	1	29-Sep-12	29-Sep-12	71	WGA1830, WBA	WGA1840, V
WGA1860	A27	1	05-Oct-12	05-Oct-12	71	WBA1800, WGA	WCA2020, V
WGA1870	A18	1	05-Oct-12	05-Oct-12	71	WBA1900, WGA	WCA2100, V
WGA1880	A19	1	09-Oct-12	09-Oct-12	71	WBA1860, WGA	WGA1890, V
WGA1890	A23	1	09-Oct-12	09-Oct-12	71	WGA1880, WBA	WGA1900, V
WGA1900	A17	1	11-Oct-12	11-Oct-12	71	WGA1890, WBA	WGA1910, V
WGA1910	A21	1	12-Oct-12	12-Oct-12	71	WGA1900, WBA	WCA2080, V
WGA1920	A24	1	15-Oct-12	15-Oct-12	71	WBA1850, WGA	WCA2050, V
West Bound - Part B		50	19-Oct-12	07-Dec-12	90		
WGB2800	A14	1	19-Oct-12	19-Oct-12	71	WBB2820, WGA	WGB2810, V
WGB2810	A16	1	22-Oct-12	22-Oct-12	71	WBB2830, WGB	WGB2820, V
WGB2820	A15	1	30-Oct-12	30-Oct-12	71	WGB2810, WBB	WCD4020, V
WGB2830	A12	1	02-Nov-12	02-Nov-12	71	WGB2820, WBB	WCD4040, V
WGB2840	A13	1	03-Nov-12	03-Nov-12	71	WBB2840, WGB	WGB2850, V
WGB2850	A09	1	12-Nov-12	12-Nov-12	71	WGB2840, WBB	WGB2860
WGB2860	A11	1	12-Nov-12	12-Nov-12	71	WBB2850, WGB	WGB2870, V
WGB2870	A08	1	28-Nov-12	28-Nov-12	71	WGB2860, WBB	WGB2880, F
WGB2880	A10	1	28-Nov-12	28-Nov-12	71	WGB2870, WBB	WGB2890
WGB2890	A05	1	03-Dec-12	03-Dec-12	71	WBB2900, WGB	WGB2900
WGB2900	A07	1	03-Dec-12	03-Dec-12	71	WGB2890, WBB	WGB2910
WGB2910	A06	1	07-Dec-12	07-Dec-12	71	WBB2880, WGB	RBP1010



Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

Date	Revision	Ch...	Approved
31-May-12	Rev. E	MF	KT
23-Jun-12	Rev. F	MF	KT
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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

Contract No.: HK/2010/06

Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
East Bound - Part C		17	03-Nov-12	19-Nov-12	113		
EGC3800	B06	1	03-Nov-12	03-Nov-12	27	EBC3810	EGC3810
EGC3810	B09	1	06-Nov-12	06-Nov-12	27	EGC3800, EBC3	EGC3820
EGC3820	B05	1	07-Nov-12	07-Nov-12	27	EGC3810, EBC3	EGC3830
EGC3830	B12	1	10-Nov-12	10-Nov-12	27	EGC3820, EBC3	RBP2080, E(
EGC3840	B15	1	10-Nov-12	10-Nov-12	27	EBC3840, EGC3	EGC3860, E
EGC3850	B07	1	13-Nov-12	13-Nov-12	27	EGC3860, EBC3	EGC3870
EGC3860	B13	1	13-Nov-12	13-Nov-12	27	EGC3840, EBC3	EGC3850, E
EGC3870	B17	1	14-Nov-12	14-Nov-12	27	EGC3850, EBC3	ECC5030, E(
EGC3880	B08	1	15-Nov-12	15-Nov-12	27	EGC3890, EBC3	EGC3900, E
EGC3890	B16	1	15-Nov-12	15-Nov-12	27	EBC3890, EGC3	EGC3880, E
EGC3900	B10	1	19-Nov-12	19-Nov-12	91	EBC3800, EGC3	EGC3910, R
EGC3910	B14	1	19-Nov-12	19-Nov-12	91	EGC3900, EBC3	ECC5010
East Bound - Part C (B11)		3	21-Feb-13	23-Feb-13	48		
EGC3920	B11 (Installation of Gina Gasket)	3	21-Feb-13	23-Feb-13	37	EBD4000	RBP2060, RI
East Bound - Part D		30	09-Nov-12	08-Dec-12	105		
EGD4000	B23	1	09-Nov-12	09-Nov-12	83	EBE5020	EGD4010, E
EGD4010	B24	1	23-Nov-12	23-Nov-12	83	EBE5040, EGD4	EGD4020, E
EGD4020	B25	1	23-Nov-12	23-Nov-12	83	EGD4010, EBE5	EGD4030, E
EGD4030	B26	1	24-Nov-12	24-Nov-12	83	EBE5060, EGD4	ECE6000, E(
EGD4040	B21	1	27-Nov-12	27-Nov-12	83	EBE5110, EGD4	EGD4050, E
EGD4050	B18	1	28-Nov-12	28-Nov-12	83	EGD4040, EBE5	EGD4060, E
EGD4060	B22	1	29-Nov-12	29-Nov-12	83	EBE5010, EGD4	EGD4070, E
EGD4070	B27	1	29-Nov-12	29-Nov-12	83	EBE5070, EGD4	ECE6010, E(
EGD4080	B20	1	30-Nov-12	30-Nov-12	83	EBE5030, EGD4	EGD4090, E
EGD4090	B30	1	04-Dec-12	04-Dec-12	83	EBE5100, EGD4	EGD4100, E
EGD4100	B29	1	05-Dec-12	05-Dec-12	83	EGD4090, EBE5	ECE6050, E(
EGD4110	B19	1	06-Dec-12	06-Dec-12	83	EBE5080, EGD4	EGD4120, E
EGD4120	B28	1	08-Dec-12	08-Dec-12	84	EBE5090, EGD4	ECE6060
Dismantle of Staging Platform and Pile		193	15-Aug-12	23-Feb-13	76		
West Bound - Part 1		35	08-Nov-12	12-Dec-12	105		
WSPA1000	P59-P60 (Staging Platform and Pile)	6	08-Nov-12	14-Nov-12	84	WGA1850	WSPA1010
WSPA1010	P25-P26 (Staging Platform and Pile)	2	15-Nov-12	16-Nov-12	84	WSPA1000	WSPA1020
WSPA1020	P23-P24 (Staging Platform and Pile)	2	17-Nov-12	19-Nov-12	84	WSPA1010	WSPA1030
WSPA1030	P21-P22 (Staging Platform and Pile)	2	19-Nov-12	20-Nov-12	84	WSPA1020	WSPA1040
WSPA1040	P19-P20 (Staging Platform and Pile)	2	21-Nov-12	22-Nov-12	84	WSPA1030	WSPA1050
WSPA1050	P17-P18 (Staging Platform and Pile)	2	23-Nov-12	24-Nov-12	84	WSPA1040	WSPA1060
WSPA1060	P15-P16 (Staging Platform and Pile)	2	26-Nov-12	27-Nov-12	84	WSPA1050	WSPC2070
WSPC2070	P13-P14 (Staging Platform and Pile)	1	12-Dec-12	12-Dec-12	84	WSPA1060	WSPC2000
West Bound - Part 2		10	18-Dec-12	27-Dec-12	107		
WSPC2000	BP1-BP2 (Staging Platform and Pile)	2	18-Dec-12	19-Dec-12	84	WSPC2070	WSPC2010
WSPC2010	P01-P02 (Staging Platform and Pile)	1	20-Dec-12	20-Dec-12	84	WSPC2000	WSPC2020
WSPC2020	P03-P04 (Staging Platform and Pile)	1	21-Dec-12	21-Dec-12	84	WSPC2010	WSPC2030
WSPC2030	P05-P06 (Staging Platform and Pile)	1	22-Dec-12	22-Dec-12	84	WSPC2020	WSPC2040
WSPC2040	P07-P08 (Staging Platform and Pile)	1	27-Dec-12	27-Dec-12	84	WSPC2030	WSPC2050
WSPC2050	P09-P10 (Staging Platform and Pile)	1	27-Dec-12	27-Dec-12	84	WSPC2040	WSPC2060
WSPC2060	P11-P12 (Staging Platform and Pile)	1	27-Dec-12	27-Dec-12	84	WSPC2050	DRW1520
East Bound - Part 1		4	15-Aug-12	18-Aug-12	213		
ESPD3000	P57-P58 (Staging Platform and Pile)	2	15-Aug-12	16-Aug-12	173	EBC3800	ESPD3100
ESPD3100	P61-P62-P63 (Staging Platform and Pile)	2	17-Aug-12	18-Aug-12	173	ESPD3000	ESPD4000
East Bound - Part 2		12	24-Dec-12	04-Jan-13	32		
ESPB3070	PB5-PB3-PB4 (Staging Platform and Pile)	8	24-Dec-12	04-Jan-13	27	EGC3880	ESPB3080
ESPB3080	P27-P28 (Staging Platform and Pile)	1	31-Dec-12	31-Dec-12	27	ESPB3070	ESPB3090
ESPB3090	P29-P30 (Staging Platform and Pile)	2	02-Jan-13	03-Jan-13	27	ESPB3080	ESPD4000, I
East Bound - Part 3		19	05-Jan-13	23-Jan-13	78		
ESPD4000	P55-P56 (Staging Platform and Pile)	4	05-Jan-13	09-Jan-13	60	ESPD3100, EGD	ESPD4010
ESPD4010	P53-P54 (Staging Platform and Pile)	2	05-Jan-13	07-Jan-13	60	ESPD4000	ESPD4020
ESPD4020	P51-P52 (Staging Platform and Pile)	3	08-Jan-13	10-Jan-13	60	ESPD4010	ESPD4030
ESPD4030	P49-P50 (Staging Platform and Pile)	1	11-Jan-13	11-Jan-13	60	ESPD4020	ESPD4040
ESPD4040	P47-P48 (Staging Platform and Pile)	11	11-Jan-13	23-Jan-13	60	ESPD4030	ESPD4050

Actual Work
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19-Sep-12	Rev. I	MF	KT
21-Nov-12	Rev. J	MF	KT
19-Feb-13	Rev. K	MF	KT
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Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
ESPD4050	P45-P46 (Staging Platform and Pile)	1	15-Jan-13	15-Jan-13	60	ESPD4040	ESPD4060
ESPD4060	P43-P44 (Staging Platform and Pile)	2	15-Jan-13	16-Jan-13	60	ESPD4050	ESPD4070
ESPD4070	P39-P40 (Staging Platform and Pile)	4	15-Jan-13	18-Jan-13	60	ESPD4060	ESPD4080
ESPD4080	P41-P42 (Staging Platform and Pile)	2	17-Jan-13	18-Jan-13	60	ESPD4070	ESPB3000
East Bound - Part 4		36	19-Jan-13	23-Feb-13	76		
ESPB3000	P37-P38 (Staging Platform and Pile)	2	19-Jan-13	21-Jan-13	60	ESPD4080	ESPB3010
ESPB3010	P35-P36 (Staging Platform and Pile)	28	19-Jan-13	23-Feb-13	60	ESPB3000	ESPB3020
ESPB3020	P33-P34 (Staging Platform and Pile)	22	26-Jan-13	23-Feb-13	60	ESPB3010	ESPB3030
ESPB3030	P31-P32 (Staging Platform and Pile)	22	26-Jan-13	23-Feb-13	60	ESPB3020	DRW1520
Cut Steel Casing of Bored Piles		139	13-Oct-12	28-Feb-13	48		
West Bound - Part 1		36	13-Oct-12	17-Nov-12	98		
WCA2000	A20	3	13-Oct-12	16-Oct-12	78	WGA1810	WCA2010
WCA2010	A26	2	22-Oct-12	24-Oct-12	78	WGA1820, WCA	WCA2020
WCA2020	A27	2	29-Oct-12	30-Oct-12	78	WGA1860, WCA	WCA2030
WCA2030	A28	2	31-Oct-12	01-Nov-12	78	WCA2020, WGA	WCA2040
WCA2040	A29	2	02-Nov-12	03-Nov-12	78	WGA1850, WCA	WCA2050
WCA2050	A24	2	05-Nov-12	06-Nov-12	78	WGA1920, WCA	WCA2060
WCA2060	A25	2	05-Nov-12	06-Nov-12	78	WCA2050, WGA	WCA2070
WCA2070	A23	2	07-Nov-12	08-Nov-12	78	WCA2060, WGA	WCA2080
WCA2080	A21	2	12-Nov-12	13-Nov-12	78	WGA1910, WCA	WCA2090
WCA2090	A22	2	12-Nov-12	13-Nov-12	78	WGA1830, WCA	WCA2100
WCA2100	A18	2	15-Nov-12	16-Nov-12	78	WGA1870, WCA	WCA2110
WCA2110	A19	2	15-Nov-12	16-Nov-12	78	WCA2100, WGA	WCA2120
WCA2120	A17	2	16-Nov-12	17-Nov-12	78	WCA2110, WGA	WCD4000
West Bound - Part 2		8	16-Nov-12	23-Nov-12	98		
WCD4000	A16	2	16-Nov-12	17-Nov-12	78	WGB2810, WCA	WCD4010
WCD4010	A14	2	19-Nov-12	20-Nov-12	78	WCD4000, WGE	WCD4020
WCD4020	A15	2	19-Nov-12	20-Nov-12	78	WGB2820, WCD	WCD4030
WCD4030	A13	2	20-Nov-12	21-Nov-12	78	WCD4020, WGE	WCD4040
WCD4040	A12	2	22-Nov-12	23-Nov-12	78	WCD4030, WGE	WCD4050
WCD4050	A11	2	22-Nov-12	23-Nov-12	78	WCD4040, WGE	ECC5000
East Bound - Part 3		5	03-Dec-12	07-Dec-12	98		
ECC5000	B16	2	03-Dec-12	04-Dec-12	78	EGC3890, WCD	ECC5010
ECC5010	B14	2	05-Dec-12	06-Dec-12	78	ECC5000, EGC3	ECC5020
ECC5020	B15	2	05-Dec-12	06-Dec-12	78	EGC3840, ECC5	ECC5030
ECC5030	B17	2	06-Dec-12	07-Dec-12	78	ECC5020, EGC3	ECC5040
ECC5040	B13	2	06-Dec-12	07-Dec-12	78	EGC3860, ECC5	ECE6000
East Bound - Part 4		20	10-Dec-12	29-Dec-12	101		
ECE6000	B26	2	10-Dec-12	11-Dec-12	78	EGD4030, ECC5	ECE6010
ECE6010	B27	2	11-Dec-12	12-Dec-12	78	EGD4070, ECE6	ECE6020
ECE6020	B18	2	11-Dec-12	12-Dec-12	78	EGD4050, ECE6	ECE6030
ECE6030	B19	2	13-Dec-12	14-Dec-12	78	EGD4110, ECE6	ECE6040
ECE6040	B20	2	13-Dec-12	14-Dec-12	78	EGD4080, ECE6	ECE6050
ECE6050	B22	2	17-Dec-12	18-Dec-12	78	EGD4100, ECE6	ECE6060
ECE6060	B28	2	17-Dec-12	18-Dec-12	78	EGD4120, ECE6	ECE6070
ECE6070	B29	2	17-Dec-12	18-Dec-12	78	EGD4060, ECE6	ECE6080
ECE6080	B30	2	19-Dec-12	20-Dec-12	78	EGD4090, ECE6	ECE6090
ECE6090	B21	2	24-Dec-12	27-Dec-12	78	EGD4040, ECE6	ECE6100
ECE6100	B23	2	24-Dec-12	27-Dec-12	78	EGD4000, ECE6	ECE6110
ECE6110	B24	2	28-Dec-12	29-Dec-12	78	EGD4010, ECE6	ECE6120
ECE6120	B25	2	28-Dec-12	29-Dec-12	78	EGD4020, ECE6	ECE6510
East Bound - Part 5		3	02-Jan-13	04-Jan-13	99		
ECE6510	C01	2	02-Jan-13	03-Jan-13	78	EBE5140, ECE6	ECE6520
ECE6520	C02	2	02-Jan-13	03-Jan-13	78	EBE5160, ECE6	ECE6530
ECE6530	C03	2	03-Jan-13	04-Jan-13	78	EBE5150, ECE6	ECE6540
ECE6540	C04	2	03-Jan-13	04-Jan-13	78	EBE5130, ECE6	DRW1520
Remaining Pile after Dredging		28	01-Feb-13	28-Feb-13	48		
West Bound		8	01-Feb-13	08-Feb-13	35		
RBP1000	A05	2	01-Feb-13	02-Feb-13	27	DRW1515	RBP1010
RBP1010	A06	2	01-Feb-13	02-Feb-13	27	WGB2910, RBP	RBP1020

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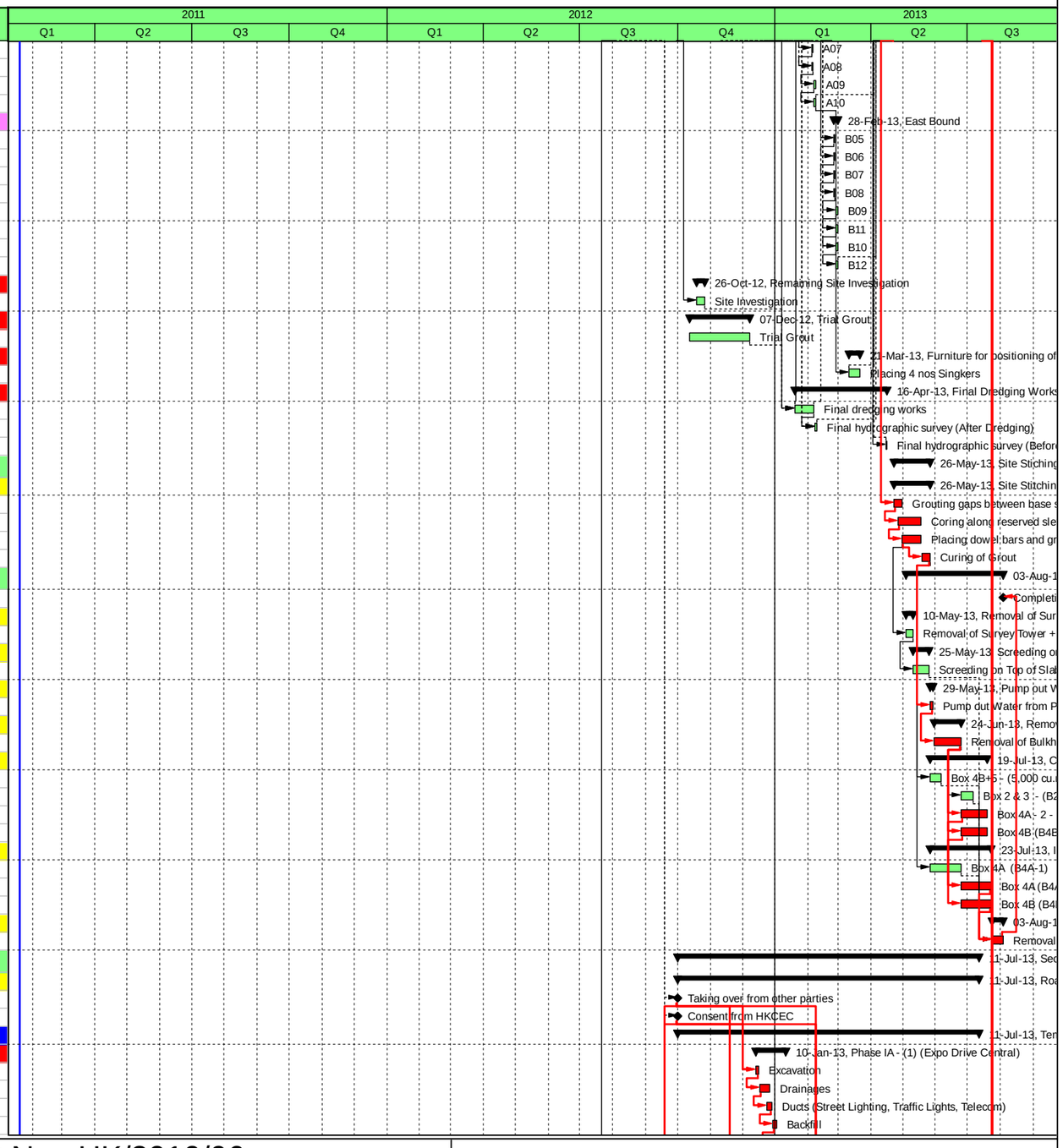
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
RBP1020	A07	2	04-Feb-13	05-Feb-13	27	RBP1010	RBP1030
RBP1030	A08	2	04-Feb-13	05-Feb-13	27	WGB2870, RBP:	RBP1040
RBP1040	A09	3	06-Feb-13	08-Feb-13	27	RBP1030	RBP1050
RBP1050	A10	3	06-Feb-13	08-Feb-13	27	RBP1040	FPP1515, PF
East Bound		4	25-Feb-13	28-Feb-13	48		
RBP2000	B05	2	25-Feb-13	26-Feb-13	37	DRW1515, EGC	RBP2010
RBP2010	B06	2	25-Feb-13	26-Feb-13	37	RBP2000	RBP2030
RBP2030	B07	2	25-Feb-13	26-Feb-13	37	RBP2010	RBP2040
RBP2040	B08	2	25-Feb-13	26-Feb-13	37	RBP2030	RBP2050
RBP2050	B09	2	27-Feb-13	28-Feb-13	37	RBP2040	RBP2060
RBP2060	B11	2	27-Feb-13	28-Feb-13	37	EGC3920, RBP2	RBP2070
RBP2070	B10	2	27-Feb-13	28-Feb-13	37	EGC3900, RBP2	RBP2080
RBP2080	B12	2	27-Feb-13	28-Feb-13	37	EGC3830, RBP2	PPU8020
Remaining Site Investigation		8	19-Oct-12	26-Oct-12	119		
RSI6000	Site Investigation	6	19-Oct-12	26-Oct-12	96	WGA1850	DRW1515
Trial Grout		57	12-Oct-12	07-Dec-12	77		
TGR6500	Trial Grout	48	12-Oct-12*	07-Dec-12	60		DRW1515
Furniture for positioning of precast unit		11	11-Mar-13	21-Mar-13	36		
FPP1515	Placing 4 nos Singkers	10	11-Mar-13	21-Mar-13	27	RBP1050	PPU8010
Final Dredging Works		88	19-Jan-13	16-Apr-13	1		
DRW1515	Final dredging works	16	19-Jan-13	06-Feb-13	27	TGR6500, RSI6(	DRW1520, F
DRW1520	Final hydrographic survey (After Dredging)	3	07-Feb-13	09-Feb-13	50	DRW1515, ESPI	PPU8020
DRW1530	Final hydrographic survey (Before Positioning of Precast Box Uni	2	15-Apr-13	16-Apr-13	1	PPU8005	PPU8010
Site Stiching of Precast Box Unit		34	23-Apr-13	26-May-13	0		
Site Stitching Precast Combined Unit		34	23-Apr-13	26-May-13	0		
SSU9010	Grouting gaps between base slab and bored piles within the gasl	7	23-Apr-13	30-Apr-13	0	PPU8030	SSU9020
SSU9020	Coring along reserved slevee pipe to bored piles (816nos.)	18	26-Apr-13	18-May-13	0	SSU9010	SSU9030
SSU9030	Placing dowel bars and grouting works (816nos.)	15	30-Apr-13	18-May-13	0	SSU9020	SSU9040, M
SSU9040	Curing of Grout	8	19-May-13	26-May-13	0	SSU9030	MPU10600, I
Minor Outstanding Works inside Precast Box Unit after Stitching		92	04-May-13	03-Aug-13	0		
MWP1100	Completion of Outstanding Works inside Precast Box Unit after S	0		03-Aug-13*	0	MPU10900	
Removal of Survey Tower + Towing Furniture		7	04-May-13	10-May-13	60		
MPU10100	Removal of Survey Tower + Towing Furniture	6	04-May-13	10-May-13	48	SSU9030	MPU10200
Screeding on Top of Slab		15	11-May-13	25-May-13	59		
MPU10200	Screeding on Top of Slab	12	11-May-13	25-May-13	48	MPU10100	MPU10900
Pump out Water from Pre-cast Box Unit		3	27-May-13	29-May-13	0		
MPU10300	Pump out Water from Pre-cast Box Unit	3	27-May-13	29-May-13	0	SSU9040	MPU10400
Removal of Bulkheads		26	30-May-13	24-Jun-13	0		
MPU10400	Removal of Bulkheads	21	30-May-13	24-Jun-13	0	MPU10300	MPU10510, I
Construction of Drain Pipes, Profile Barriers, Foam Concrete and Infill Concre		54	27-May-13	19-Jul-13	4		
MPU10500	Box 4B+5 - (5,000 cu.m) (Foam Concrete)	10	27-May-13	06-Jun-13	38	SSU9040	MPU10900
MPU10510	Box 2 & 3 - (B2-1/B2-2/B3) (5,000 cu.m) (Foam Concrete)	10	25-Jun-13	06-Jul-13	14	MPU10400	MPU10900
MPU10520	Box 4A - 2 - (4BA-2)(Concrete Infill)	21	25-Jun-13	19-Jul-13	0	MPU10400	MPU10620
MPU10530	Box 4B (B4B-1/B4B-2) (Concrete Infill)	21	25-Jun-13	19-Jul-13	0	MPU10400	MPU10630
Intermediate Slab		58	27-May-13	23-Jul-13	0		
MPU10600	Box 4A (B4A-1)	24	27-May-13	24-Jun-13	24	SSU9040	MPU10900
MPU10620	Box 4A (B4A-2)	24	25-Jun-13	23-Jul-13	0	MPU10520	MPU10900
MPU10630	Box 4B (B4B-1)	24	25-Jun-13	23-Jul-13	0	MPU10530	MPU10900
Removal of Turrents		11	24-Jul-13	03-Aug-13	0		
MPU10900	Removal of Turrets	10	24-Jul-13	03-Aug-13	0	MPU10510, MPL	MWP1100
Section II		284	01-Oct-12	11-Jul-13	0		
Road Works		284	01-Oct-12	11-Jul-13	0		
TAR8000	Taking over from other parties	0	01-Oct-12*		0	CNO1010	P1A1000, P1
TAR8010	Consent from HKCEC	0	01-Oct-12*		0	CNO1010	P1A1000, P1
Temporary Access Road at HKCEC West Bridge		284	01-Oct-12	11-Jul-13	0		
Phase IA - (1) (Expo Drive Central)		29	13-Dec-12	10-Jan-13	0		
P1A1000	Excavation	4	13-Dec-12	16-Dec-12	0	TAR8000, TAR8(	P1A1010
P1A1010	Drainages	10	17-Dec-12	26-Dec-12	0	P1A1000	P1A1020
P1A1020	Ducts (Street Lighting, Traffic Lights, Telecom)	5	24-Dec-12	28-Dec-12	0	P1A1010	P1A1030
P1A1030	Backfill	5	29-Dec-12	02-Jan-13	0	P1A1020	P1A1040



Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

Date	Revision	Ch...	Approved
31-May-12	Rev. E	MF	KT
23-Jun-12	Rev. F	MF	KT
19-Jul-12	Rev. G	MF	KT
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

Contract No.: HK/2010/06

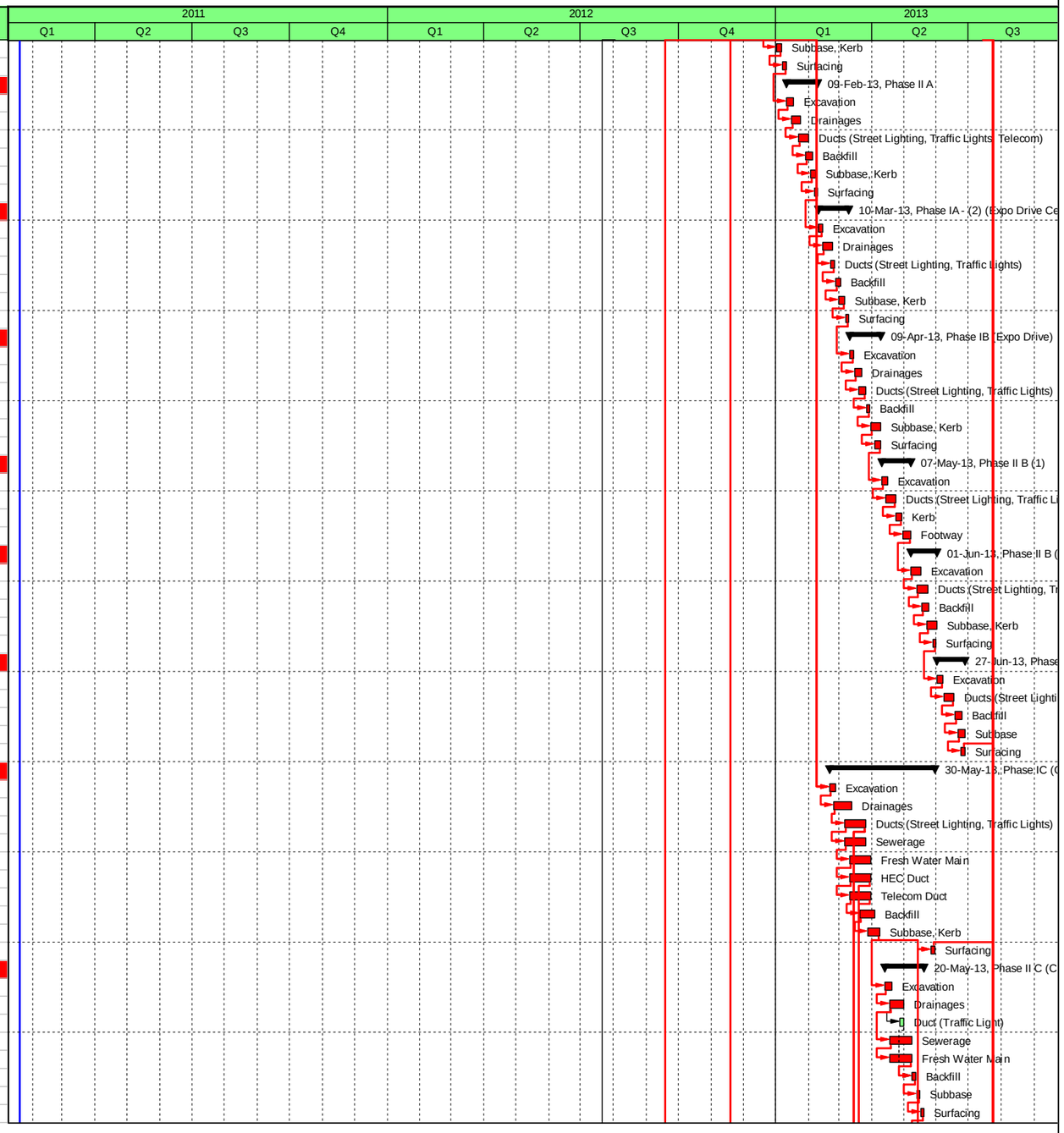
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
P1A1040	Subbase, Kerb	6	01-Jan-13	06-Jan-13	0	P1A1030	P1A1050
P1A1050	Surfacing	4	07-Jan-13	10-Jan-13	0	P1A1040	P1A1200
Phase II A		30	11-Jan-13	09-Feb-13	0		
P1A1200	Excavation	7	11-Jan-13	17-Jan-13	0	P1A1050	P1A1210
P1A1210	Drainages	10	15-Jan-13	24-Jan-13	0	P1A1200	P1A1220
P1A1220	Ducts (Street Lighting, Traffic Lights, Telecom)	10	22-Jan-13	31-Jan-13	0	P1A1210	P1A1230
P1A1230	Backfill	7	29-Jan-13	04-Feb-13	0	P1A1220	P1A1240
P1A1240	Subbase, Kerb	6	02-Feb-13	07-Feb-13	0	P1A1230	P1A1250
P1A1250	Surfacing	4	06-Feb-13	09-Feb-13	0	P1A1240	P1A2060
Phase IA - (2) (Expo Drive Central)		29	10-Feb-13	10-Mar-13	0		
P1A2060	Excavation	4	10-Feb-13	13-Feb-13	0	P1A1250	P1A2070
P1A2070	Drainages	10	14-Feb-13	23-Feb-13	0	P1A2060	P1A2080
P1A2080	Ducts (Street Lighting, Traffic Lights)	5	21-Feb-13	25-Feb-13	0	P1A2070	P1A2090
P1A2090	Backfill	5	26-Feb-13	02-Mar-13	0	P1A2080	P1A2100
P1A2100	Subbase, Kerb	6	01-Mar-13	06-Mar-13	0	P1A2090	P1A2110
P1A2110	Surfacing	4	07-Mar-13	10-Mar-13	0	P1A2100	P1B2000
Phase IB (Expo Drive)		30	11-Mar-13	09-Apr-13	0		
P1B2000	Excavation	5	11-Mar-13	15-Mar-13	0	P1A2110	P1B2010
P1B2010	Drainages	7	16-Mar-13	22-Mar-13	0	P1B2000	P1B2020
P1B2020	Ducts (Street Lighting, Traffic Lights)	7	20-Mar-13	26-Mar-13	0	P1B2010	P1B2030
P1B2030	Backfill	4	27-Mar-13	30-Mar-13	0	P1B2020	P1B2040
P1B2040	Subbase, Kerb	10	31-Mar-13	09-Apr-13	0	P1B2030	P1B2050
P1B2050	Surfacing	6	04-Apr-13	09-Apr-13	0	P1B2040	P2B2100
Phase II B (1)		28	10-Apr-13	07-May-13	0		
P2B2100	Excavation	7	10-Apr-13	16-Apr-13	0	P1B2050	P2B2110
P2B2110	Ducts (Street Lighting, Traffic Lights)	10	14-Apr-13	23-Apr-13	0	P2B2100	P2B2120
P2B2120	Kerb	6	24-Apr-13	29-Apr-13	0	P2B2110	P2B2130
P2B2130	Footway	8	30-Apr-13	07-May-13	0	P2B2120	P2B2200
Phase II B (2)		25	08-May-13	01-Jun-13	0		
P2B2200	Excavation	10	08-May-13	17-May-13	0	P2B2130	P2B2210
P2B2210	Ducts (Street Lighting, Traffic Lights)	11	13-May-13	23-May-13	0	P2B2200	P2B2220
P2B2220	Backfill	7	18-May-13	24-May-13	0	P2B2210	P2B2230
P2B2230	Subbase, Kerb	10	23-May-13	01-Jun-13	0	P2B2220	P2B2240
P2B2240	Surfacing	4	28-May-13	31-May-13	0	P2B2230	P3B3000
Phase III B		27	01-Jun-13	27-Jun-13	0		
P3B3000	Excavation	7	01-Jun-13	07-Jun-13	0	P2B2240	P3B3010
P3B3010	Ducts (Street Lighting, Traffic Lights)	10	08-Jun-13	17-Jun-13	0	P3B3000	P3B3020
P3B3020	Backfill	7	18-Jun-13	24-Jun-13	0	P3B3010	P3B3030
P3B3030	Subbase	7	21-Jun-13	27-Jun-13	0	P3B3020	P3B3040
P3B3040	Surfacing	4	24-Jun-13	27-Jun-13	0	P3B3030	CNO1030
Phase IC (Convention Avenue)		100	20-Feb-13	30-May-13	0		
P1C4000	Excavation	7	20-Feb-13	26-Feb-13	0	TAR8000, TAR8(	P1C4010
P1C4010	Drainages	18	24-Feb-13	13-Mar-13	0	P1C4000	P1C4020
P1C4020	Ducts (Street Lighting, Traffic Lights)	21	06-Mar-13	26-Mar-13	0	P1C4010	P1C4030, M:
P1C4030	Sewerage	21	06-Mar-13	26-Mar-13	0	P1C4020	P1C4040
P1C4040	Fresh Water Main	21	11-Mar-13	31-Mar-13	0	P1C4030	P1C4050
P1C4050	HEC Duct	21	11-Mar-13	31-Mar-13	0	P1C4040	P1C4060, M:
P1C4060	Telecom Duct	21	11-Mar-13	31-Mar-13	0	P1C4050	P1C4070, M:
P1C4070	Backfill	14	21-Mar-13	03-Apr-13	0	P1C4060	P1C4080
P1C4080	Subbase, Kerb	12	28-Mar-13	08-Apr-13	0	P1C4070	P1C4090, P2
P1C4090	Surfacing	4	27-May-13	30-May-13	0	P1C4080, MSW7	CNO1030
Phase II C (Convention Avenue)		38	13-Apr-13	20-May-13	0		
P2C4100	Excavation	7	13-Apr-13	19-Apr-13	0	P1C4080	P2C4110
P2C4110	Drainages	14	18-Apr-13	01-May-13	0	P2C4100	P2C4120, P2
P2C4120	Duct (Traffic Light)	5	27-Apr-13	01-May-13	7	P2C4110	P2C4150
P2C4130	Sewerage	21	18-Apr-13	08-May-13	0	P2C4110	P2C4140
P2C4140	Fresh Water Main	21	18-Apr-13	08-May-13	0	P2C4130	P2C4150
P2C4150	Backfill	4	09-May-13	12-May-13	0	P2C4140, P2C41	P2C4160
P2C4160	Subbase	4	13-May-13	16-May-13	0	P2C4150	P2C4170
P2C4170	Surfacing	4	17-May-13	20-May-13	0	P2C4160	P3C4200



Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

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21-Nov-12	Rev. J	MF	KT
19-Feb-13	Rev. K	MF	KT
05-Mar-13	Rev. L	MF	KT

Contract No.: HK/2010/06

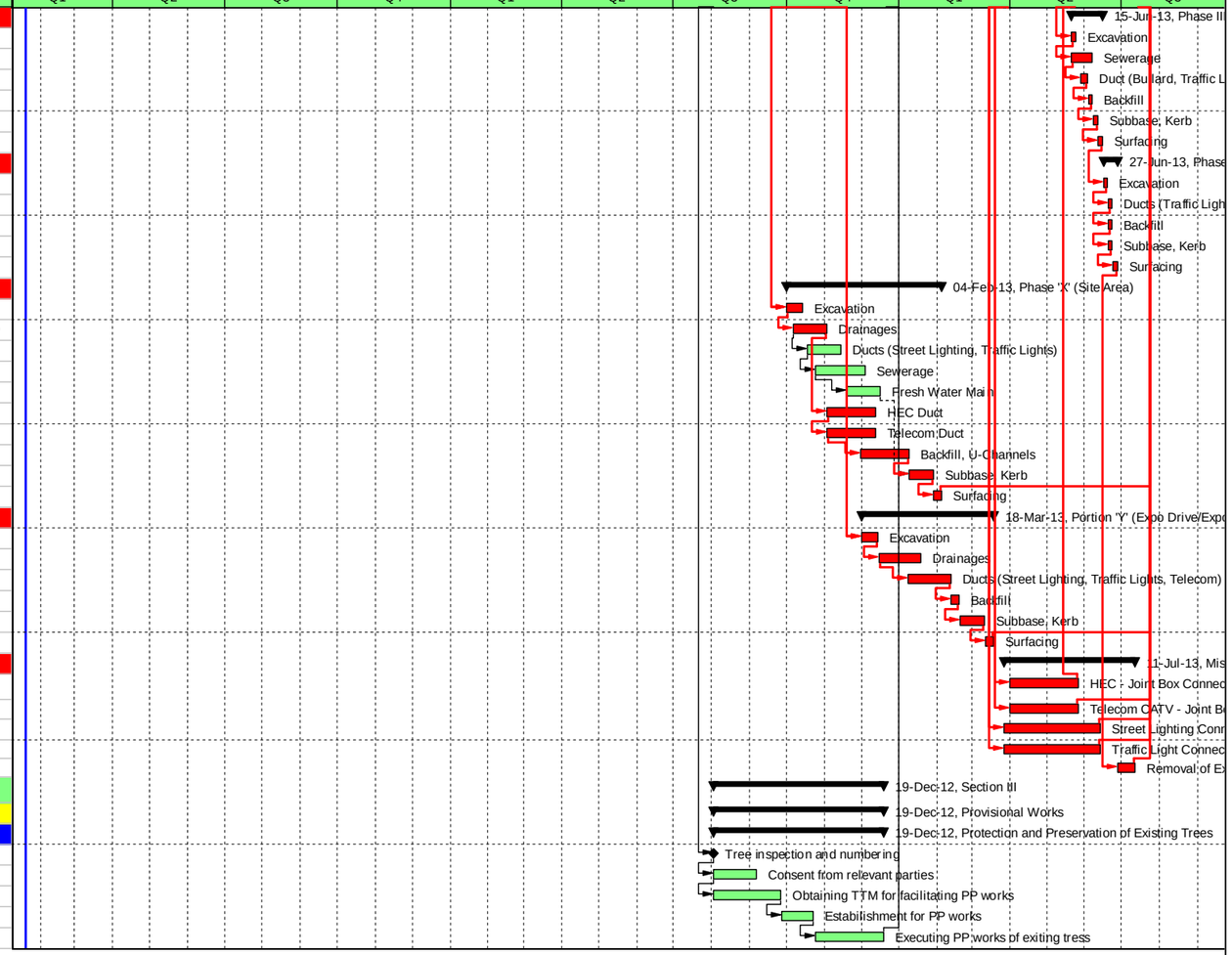
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
Phase III C (Convention Avenue)		26	21-May-13	15-Jun-13	0		
P3C4200	Excavation	4	21-May-13	24-May-13	0	P2C4170	P3C4210
P3C4210	Sewerage	18	21-May-13	07-Jun-13	0	P3C4200	P3C4220
P3C4220	Duct (Bullard, Traffic Lights)	7	28-May-13	03-Jun-13	0	P3C4210	P3C4230
P3C4230	Backfill	4	04-Jun-13	07-Jun-13	0	P3C4220	P3C4240
P3C4240	Subbase, Kerb	4	08-Jun-13	11-Jun-13	0	P3C4230	P3C4250
P3C4250	Surfacing	4	12-Jun-13	15-Jun-13	0	P3C4240	P4C4300
Phase IV C (Convention Avenue)		12	16-Jun-13	27-Jun-13	0		
P4C4300	Excavation	4	16-Jun-13	19-Jun-13	0	P3C4250	P4C4310
P4C4310	Ducts (Traffic Lights)	4	20-Jun-13	23-Jun-13	0	P4C4300	P4C4320
P4C4320	Backfill	4	20-Jun-13	23-Jun-13	0	P4C4310	P4C4330
P4C4330	Subbase, Kerb	4	20-Jun-13	23-Jun-13	0	P4C4320	P4C4340
P4C4340	Surfacing	4	24-Jun-13	27-Jun-13	0	P4C4330	MSW7040
Phase 'X' (Site Area)		127	01-Oct-12	04-Feb-13	0		
PXX5000	Excavation	14	01-Oct-12	14-Oct-12	0	TAR8000, TAR8(	PXX5010
PXX5010	Drainages	28	06-Oct-12	02-Nov-12	0	PXX5000	PXX5050, P)
PXX5020	Ducts (Street Lighting, Traffic Lights)	28	18-Oct-12	14-Nov-12	23	PXX5010	PXX5030
PXX5030	Sewerage	42	24-Oct-12	04-Dec-12	23	PXX5020	PXX5040
PXX5040	Fresh Water Main	28	19-Nov-12	16-Dec-12	23	PXX5030	PXX5080
PXX5050	HEC Duct	40	03-Nov-12	12-Dec-12	0	PXX5010	PXX5060
PXX5060	Telecom Duct	40	03-Nov-12	12-Dec-12	0	PXX5050	PXX5070
PXX5070	Backfill, U-Channels	40	30-Nov-12	08-Jan-13	0	PXX5060	PXX5080
PXX5080	Subbase, Kerb	20	09-Jan-13	28-Jan-13	0	PXX5070, PXX5(	PXX5090
PXX5090	Surfacing	7	29-Jan-13	04-Feb-13	0	PXX5080	CNO1030
Portion 'Y' (Expo Drive/Expo Drive Central)		108	01-Dec-12	18-Mar-13	0		
PYY6000	Excavation	14	01-Dec-12	14-Dec-12	0	TAR8000, TAR8(	PYY6010
PYY6010	Drainages	35	15-Dec-12	18-Jan-13	0	PYY6000	PYY6020
PYY6020	Ducts (Street Lighting, Traffic Lights, Telecom)	35	08-Jan-13	11-Feb-13	0	PYY6010	PYY6030
PYY6030	Backfill	7	12-Feb-13	18-Feb-13	0	PYY6020	PYY6040
PYY6040	Subbase, Kerb	21	19-Feb-13	11-Mar-13	0	PYY6030	PYY6050
PYY6050	Surfacing	7	12-Mar-13	18-Mar-13	0	PYY6040	CNO1030
Miscellaneous Work		107	27-Mar-13	11-Jul-13	0		
MSW7000	HEC - Joint Box Connection	56	01-Apr-13	26-May-13	0	P1C4050	P1C4090
MSW7010	Telecom CATV - Joint Box Connection	56	01-Apr-13	26-May-13	0	P1C4060	CNO1030
MSW7020	Street Lighting Connection/Installation	79	27-Mar-13	13-Jun-13	0	P1C4020	CNO1030
MSW7030	Traffic Light Connection/Installation	79	27-Mar-13	13-Jun-13	0	P1C4020	CNO1030
MSW7040	Removal of Existing Street Lighting	14	28-Jun-13	11-Jul-13	0	P4C4340	CNO1030
Section III		140	02-Aug-12	19-Dec-12	227		
Provisional Works		140	02-Aug-12	19-Dec-12	227		
Protection and Preservation of Existing Trees		140	02-Aug-12	19-Dec-12	227		
PPT9000	Tree inspection and numbering	0	02-Aug-12*		181	CNO1010	PPT9010
PPT9010	Consent from relevant parties	31	02-Aug-12	06-Sep-12	181	PPT9000	PPT9020
PPT9020	Obtaining TTM for facilitating PP works	48	02-Aug-12	26-Sep-12	181	PPT9010	PPT9030
PPT9030	Establishment for PP works	20	27-Sep-12	22-Oct-12	181	PPT9020	PPT9040
PPT9040	Executing PP works of exiting tress	49	24-Oct-12	19-Dec-12	181	PPT9030	CNO1040



Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

Date	Revision	Ch...	Approved
31-May-12	Rev. E	MF	KT
23-Jun-12	Rev. F	MF	KT
19-Jul-12	Rev. G	MF	KT
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

Contract No.: HK/2010/06

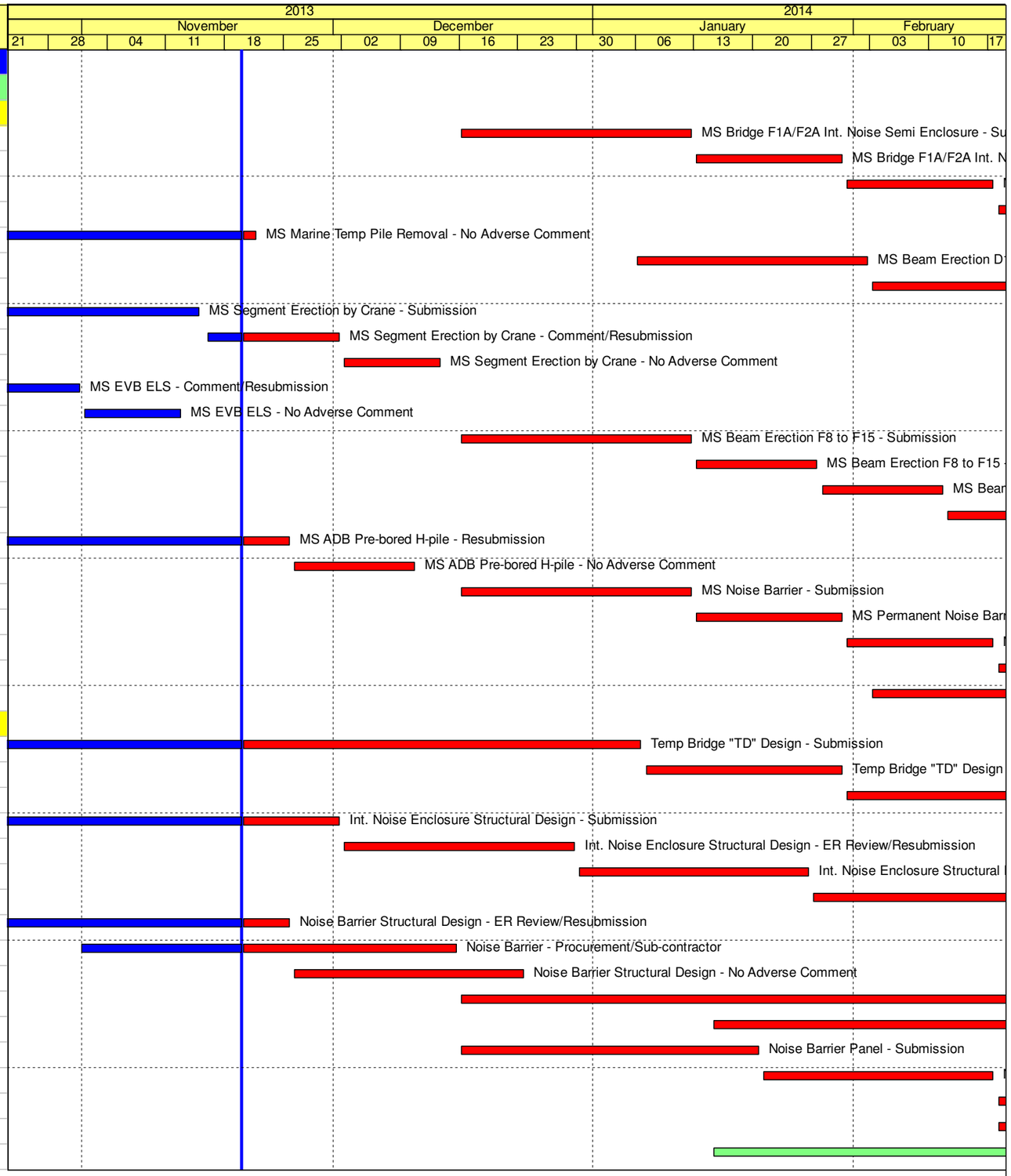
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)

金門 – 利達聯營
Gammon – Leader Joint Venture

Activity ID	Activity Name	Rem Dur	Start	Finish
3MRP - Nov 2013 to Feb 2013				
02 - PRE-CONSTRUCTION WORKS				
02.3 - Method Statement / Shop Drawings				
0230-1580	MS Bridge F1A/F2A Int. Noise Semi Enclosure - Submission	28	16-Dec-13	12-Jan-14
0230-1590	MS Bridge F1A/F2A Int. Noise Semi Enclosure - ER Review / Comment	18	13-Jan-14	30-Jan-14
0230-1600	MS Bridge F1A/F2A Int. Noise Semi Enclosure - Resubmission	18	31-Jan-14	17-Feb-14
0230-1610	MS Bridge F1A/F2A Int. Noise Semi Enclosure - No Adverse Comment	18	18-Feb-14	07-Mar-14
0230-1930	MS Marine Temp Pile Removal - No Adverse Comment	2	18-Sep-13 A	21-Nov-13
0230-1940	MS Beam Erection D1 to E2 - Submission	28	06-Jan-14*	02-Feb-14
0230-1950	MS Beam Erection D1 to E2 - Comment/Resubmission	30	03-Feb-14	04-Mar-14
0230-1372	MS Segment Erection by Crane - Submission	0	20-Sep-13 A	15-Nov-13 A
0230-1374	MS Segment Erection by Crane - Comment/Resubmission	12	16-Nov-13 A	01-Dec-13
0230-1376	MS Segment Erection by Crane - No Adverse Comment	12	02-Dec-13	13-Dec-13
0230-2010	MS EVB ELS - Comment/Resubmission	0	20-Oct-13 A	31-Oct-13 A
0230-2020	MS EVB ELS - No Adverse Comment	0	01-Nov-13 A	12-Nov-13 A
0230-2030	MS Beam Erection F8 to F15 - Submission	28	16-Dec-13*	12-Jan-14
0230-2040	MS Beam Erection F8 to F15 - Review/Comment	15	13-Jan-14	27-Jan-14
0230-2050	MS Beam Erection F8 to F15 - Resubmission	15	28-Jan-14	11-Feb-14
0230-2060	MS Beam Erection F8 to F15 - No Adverse Comment	15	12-Feb-14	26-Feb-14
0230-2070	MS ADB Pre-bored H-pile - Resubmission	6	21-Oct-13 A	25-Nov-13
0230-2080	MS ADB Pre-bored H-pile - No Adverse Comment	15	26-Nov-13	10-Dec-13
0230-1420	MS Noise Barrier - Submission	28	16-Dec-13	12-Jan-14
0230-1430	MS Permanent Noise Barrier - ER Review & Comment	18	13-Jan-14	30-Jan-14
0230-1440	MS Permanent Noise Barrier - Resubmission	18	31-Jan-14	17-Feb-14
0230-1450	MS Permanent Noise Barrier - No Adverse Comment	18	18-Feb-14	07-Mar-14
0230-1780	MS Temporary Bridge TD - Submission	28	03-Feb-14*	02-Mar-14
02.4 - Contractor's Design and Build Items				
0240-1041	Temp Bridge "TD" Design - Submission	48	01-Mar-13 A	06-Jan-14
0240-1042	Temp Bridge "TD" Design - ER review and comment	24	07-Jan-14	30-Jan-14
0240-1043	Temp Bridge "TD" Design - Resubmission	30	31-Jan-14	01-Mar-14
0240-1105	Int. Noise Enclosure Structural Design - Submission	12	20-Mar-13 A	01-Dec-13
0240-1110	Int. Noise Enclosure Structural Design - ER Review/Resubmission	28	02-Dec-13	29-Dec-13
0240-1112	Int. Noise Enclosure Structural Design - No Adverse Comment	28	30-Dec-13	26-Jan-14
0240-1113	Int. Noise Enclosure Structural - Shop Drawings Bridge F1A/F2A	60	27-Jan-14	27-Mar-14
0240-1127	Noise Barrier Structural Design - ER Review/Resubmission	6	30-May-13 A	25-Nov-13
0240-1131	Noise Barrier - Procurement/Sub-contractor	26	01-Nov-13 A	15-Dec-13
0240-1128	Noise Barrier Structural Design - No Adverse Comment	28	26-Nov-13	23-Dec-13
0240-1132	Noise Barrier Structural - Shop Drawings	90	16-Dec-13	15-Mar-14
0240-1133	Noise Barrier Structural - Fabrication/Delivery	120	15-Jan-14	14-May-14
0240-1134	Noise Barrier Panel - Submission	36	16-Dec-13	20-Jan-14
0240-1136	Noise Barrier Panel - Design ER Review/Resubmission	28	21-Jan-14	17-Feb-14
0240-1137	Noise Barrier Panel - Design No Adverse Comment	28	18-Feb-14	17-Mar-14
0240-1138	Noise Barrier Panel - Fabrication Delivery	90	18-Feb-14	18-May-14
0240-1141	Noise Barrier Green Wall - Design Submission	60	15-Jan-14	15-Mar-14

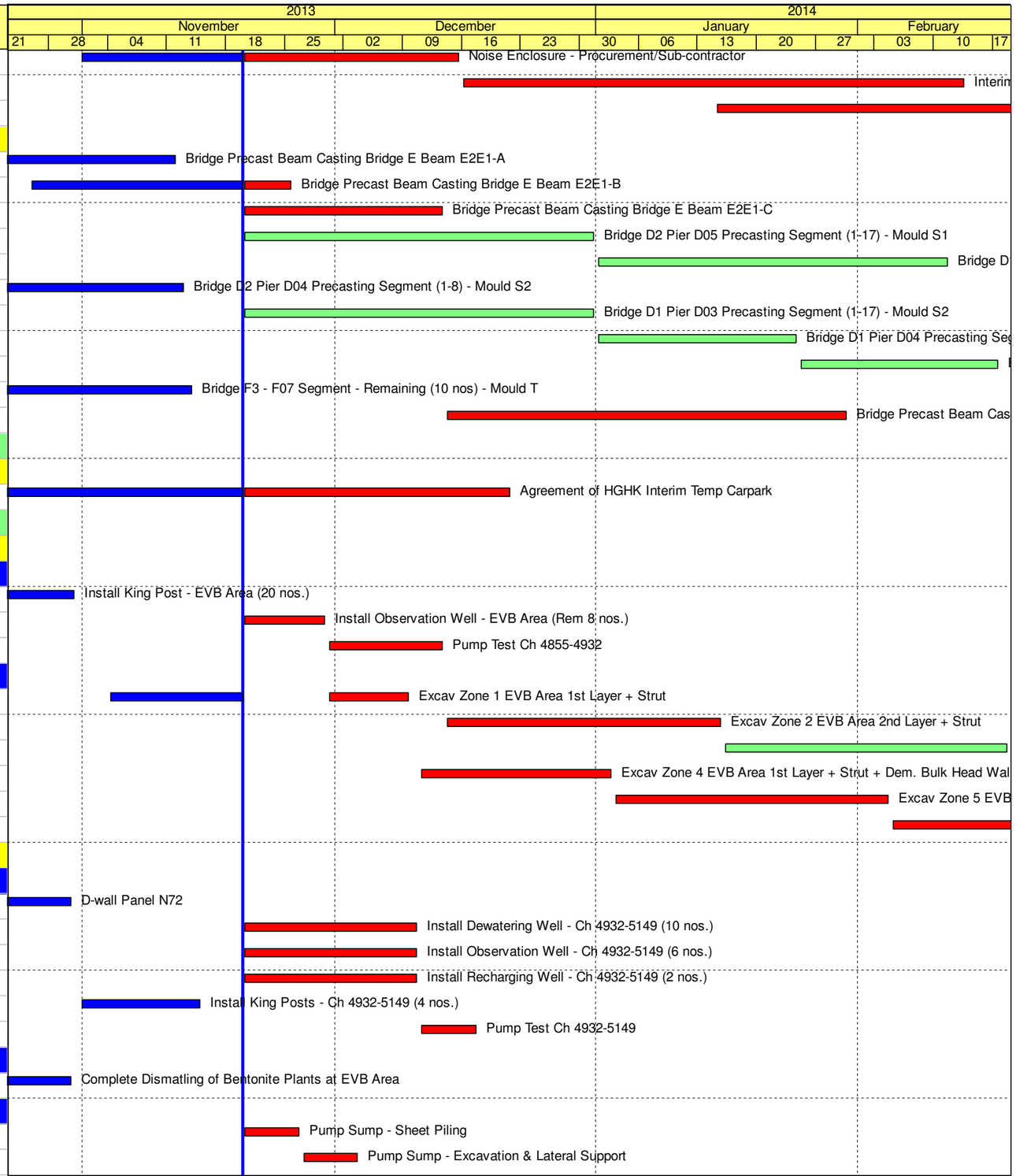


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Nov 2013 to 19 Feb 2013)

Activity ID	Activity Name	Rem Dur	Start	Finish
0240-1163	Noise Enclosure - Procurement/Sub-contractor	26	01-Nov-13 A	15-Dec-13
0240-1164	Interim Noise Enclosure Structural - Shop Drawings Bridge F1A/F2A	60	16-Dec-13	13-Feb-14
0240-1165	Interim Noise Enclosure - Fabrication/Delivery Bridge F1A/F2A	75	15-Jan-14	30-Mar-14
02.5 - Bridge Segment/Beam Off-site Precasting				
0250-1700.41	Bridge Precast Beam Casting Bridge E Beam E2E1-A	0	16-Oct-13 A	12-Nov-13 A
0250-1700.51	Bridge Precast Beam Casting Bridge E Beam E2E1-B	6	26-Oct-13 A	25-Nov-13
0250-1700.61	Bridge Precast Beam Casting Bridge E Beam E2E1-C	24	20-Nov-13	13-Dec-13
0250-1600.14	Bridge D2 Pier D05 Precasting Segment (1-17) - Mould S1	42	20-Nov-13	31-Dec-13
0250-1650.20	Bridge D1 Pier D02 Precasting Segment (1-17) - Mould S1	42	01-Jan-14	11-Feb-14
0250-1650.18	Bridge D2 Pier D04 Precasting Segment (1-8) - Mould S2	0	19-Oct-13 A	13-Nov-13 A
0250-1600.15	Bridge D1 Pier D03 Precasting Segment (1-17) - Mould S2	42	20-Nov-13	31-Dec-13
0250-1650.19	Bridge D1 Pier D04 Precasting Segment (1-8) - Mould S2	24	01-Jan-14	24-Jan-14
0250-1650.21	Bridge D1 Pier D01 Precasting Segment (1-8) - Mould S2	24	25-Jan-14	17-Feb-14
0250-1655.024	Bridge F3 - F07 Segment - Remaining (10 nos) - Mould T	0	15-Jul-13 A	14-Nov-13 A
0250-1710	Bridge Precast Beam Casting & Delivery Bridge E Pier D1 to P17 (13 nos)	48	14-Dec-13	30-Jan-14
03 - PRELIMINARY WORKS				
03.3 - Interface Works				
0330-1200	Agreement of HGHK Interim Temp Carpark	28	20-Jun-13 A	21-Dec-13
05 - SECTION 2 & 2A OF THE WORKS				
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)				
05.1.1 - D-Wall Construction				
0511-1095	Install King Post - EVB Area (20 nos.)	0	23-Aug-13 A	31-Oct-13 A
0511-1091	Install Observation Well - EVB Area (Rem 8 nos.)	9	20-Nov-13	29-Nov-13
0511-1100	Pump Test Ch 4855-4932	12	30-Nov-13	13-Dec-13
05.1.2 - ELS				
0512-1101	Excav Zone 1 EVB Area 1st Layer + Strut	8	04-Nov-13 A	09-Dec-13
0512-1102	Excav Zone 2 EVB Area 2nd Layer + Strut	26	14-Dec-13	15-Jan-14
0512-1103	Excav Zone 3 EVB Area 3rd Layer + Strut	26	16-Jan-14	18-Feb-14
0512-1120	Excav Zone 4 EVB Area 1st Layer + Strut + Dem. Bulk Head Wall	18	11-Dec-13	02-Jan-14
0512-1130	Excav Zone 5 EVB Area 1st Layer + Strut + Dem. Bulk Head Wall	25	03-Jan-14	04-Feb-14
0512-1140	Excav Zone 6 EVB Area 1st Layer + Strut + Dem. Bulk Head Wall	29	05-Feb-14	10-Mar-14
05.2 - Cut & Cover Tunnel Ch 4932-5149				
05.2.1 - D-Wall Construction				
0521-1900.30	D-wall Panel N72	0	15-Oct-13 A	30-Oct-13 A
0521-2165	Install Dewatering Well - Ch 4932-5149 (10 nos.)	18	20-Nov-13	10-Dec-13
0521-2166	Install Observation Well - Ch 4932-5149 (6 nos.)	18	20-Nov-13	10-Dec-13
0521-2167	Install Recharging Well - Ch 4932-5149 (2 nos.)	18	20-Nov-13	10-Dec-13
0521-2168	Install King Posts - Ch 4932-5149 (4 nos.)	0	01-Nov-13 A	15-Nov-13 A
0521-2170	Pump Test Ch 4932-5149	6	11-Dec-13	17-Dec-13
05.2.2 - Barrette Construction				
0522-2211	Complete Dismatling of Bentonite Plants at EVB Area	0	19-Aug-13 A	30-Oct-13 A
05.2.3 - ELS				
0524-2888	Pump Sump - Sheet Piling	6	20-Nov-13	26-Nov-13
0524-2889	Pump Sump - Excavation & Lateral Support	6	27-Nov-13	03-Dec-13



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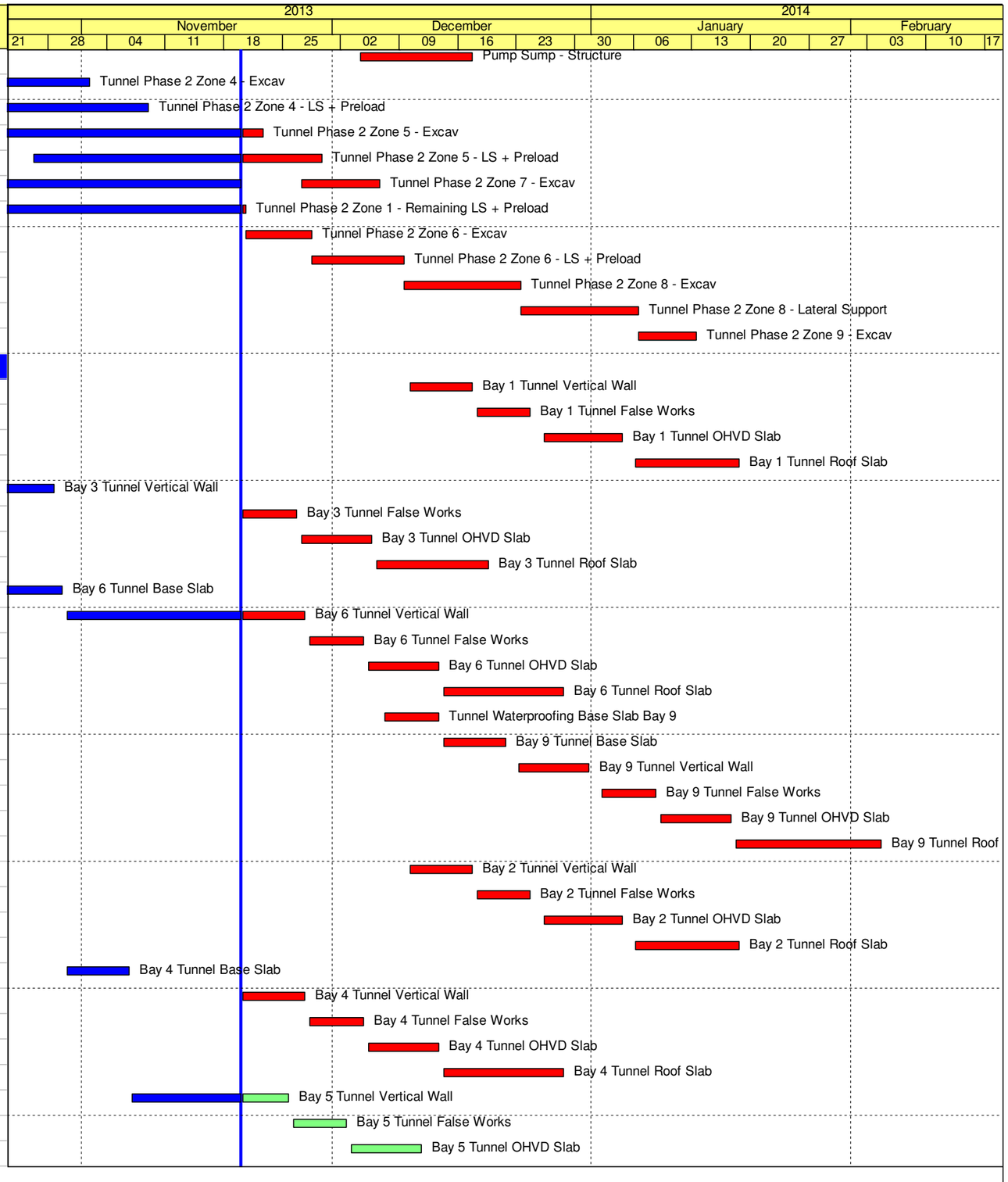
Activity ID	Activity Name	Rem Dur	Start	Finish
0524-2890	Pump Sump - Structure	12	04-Dec-13	17-Dec-13
0524-2925	Tunnel Phase 2 Zone 4 - Excav	0	07-Oct-13 A	02-Nov-13 A
0524-2935	Tunnel Phase 2 Zone 4 - LS + Preload	0	22-Oct-13 A	09-Nov-13 A
0524-2945	Tunnel Phase 2 Zone 5 - Excav	3	12-Sep-13 A	22-Nov-13
0524-2955	Tunnel Phase 2 Zone 5 - LS + Preload	9	26-Oct-13 A	29-Nov-13
0524-2980	Tunnel Phase 2 Zone 7 - Excav	9	02-Oct-13 A	06-Dec-13
0524-2963	Tunnel Phase 2 Zone 1 - Remaining LS + Preload	1	30-Sep-13 A	20-Nov-13
0524-2965	Tunnel Phase 2 Zone 6 - Excav	7	20-Nov-13	28-Nov-13
0524-2975	Tunnel Phase 2 Zone 6 - LS + Preload	9	28-Nov-13	09-Dec-13
0524-2985	Tunnel Phase 2 Zone 8 - Excav	12	09-Dec-13	23-Dec-13
0524-3000	Tunnel Phase 2 Zone 8 - Lateral Support	10	23-Dec-13	06-Jan-14
0524-3005	Tunnel Phase 2 Zone 9 - Excav	6	06-Jan-14	13-Jan-14
05.2.4 - Tunnel Structure				
0524-3015	Bay 1 Tunnel Vertical Wall	7	10-Dec-13	17-Dec-13
0524-3025	Bay 1 Tunnel False Works	6	18-Dec-13	24-Dec-13
0524-3035	Bay 1 Tunnel OHVD Slab	8	26-Dec-13	04-Jan-14
0524-3045	Bay 1 Tunnel Roof Slab	12	06-Jan-14	18-Jan-14
0524-3065	Bay 3 Tunnel Vertical Wall	0	21-Oct-13 A	28-Oct-13 A
0524-3075	Bay 3 Tunnel False Works	6	20-Nov-13	26-Nov-13
0524-3085	Bay 3 Tunnel OHVD Slab	8	27-Nov-13	05-Dec-13
0524-3095	Bay 3 Tunnel Roof Slab	12	06-Dec-13	19-Dec-13
0524-3155	Bay 6 Tunnel Base Slab	0	22-Oct-13 A	29-Oct-13 A
0524-3165	Bay 6 Tunnel Vertical Wall	7	30-Oct-13 A	27-Nov-13
0524-3175	Bay 6 Tunnel False Works	6	28-Nov-13	04-Dec-13
0524-3185	Bay 6 Tunnel OHVD Slab	8	05-Dec-13	13-Dec-13
0524-3195	Bay 6 Tunnel Roof Slab	12	14-Dec-13	28-Dec-13
0524-3305	Tunnel Waterproofing Base Slab Bay 9	6	07-Dec-13	13-Dec-13
0524-3315	Bay 9 Tunnel Base Slab	7	14-Dec-13	21-Dec-13
0524-3325	Bay 9 Tunnel Vertical Wall	7	23-Dec-13	31-Dec-13
0524-3335	Bay 9 Tunnel False Works	6	02-Jan-14	08-Jan-14
0524-3345	Bay 9 Tunnel OHVD Slab	8	09-Jan-14	17-Jan-14
0524-3355	Bay 9 Tunnel Roof Slab	12	18-Jan-14	04-Feb-14
0524-3115	Bay 2 Tunnel Vertical Wall	7	10-Dec-13	17-Dec-13
0524-3125	Bay 2 Tunnel False Works	6	18-Dec-13	24-Dec-13
0524-3135	Bay 2 Tunnel OHVD Slab	8	26-Dec-13	04-Jan-14
0524-3145	Bay 2 Tunnel Roof Slab	12	06-Jan-14	18-Jan-14
0524-3205	Bay 4 Tunnel Base Slab	0	30-Oct-13 A	06-Nov-13 A
0524-3215	Bay 4 Tunnel Vertical Wall	7	20-Nov-13	27-Nov-13
0524-3225	Bay 4 Tunnel False Works	6	28-Nov-13	04-Dec-13
0524-3235	Bay 4 Tunnel OHVD Slab	8	05-Dec-13	13-Dec-13
0524-3245	Bay 4 Tunnel Roof Slab	12	14-Dec-13	28-Dec-13
0524-3265	Bay 5 Tunnel Vertical Wall	5	07-Nov-13 A	25-Nov-13
0524-3275	Bay 5 Tunnel False Works	6	26-Nov-13	02-Dec-13
0524-3285	Bay 5 Tunnel OHVD Slab	8	03-Dec-13	11-Dec-13



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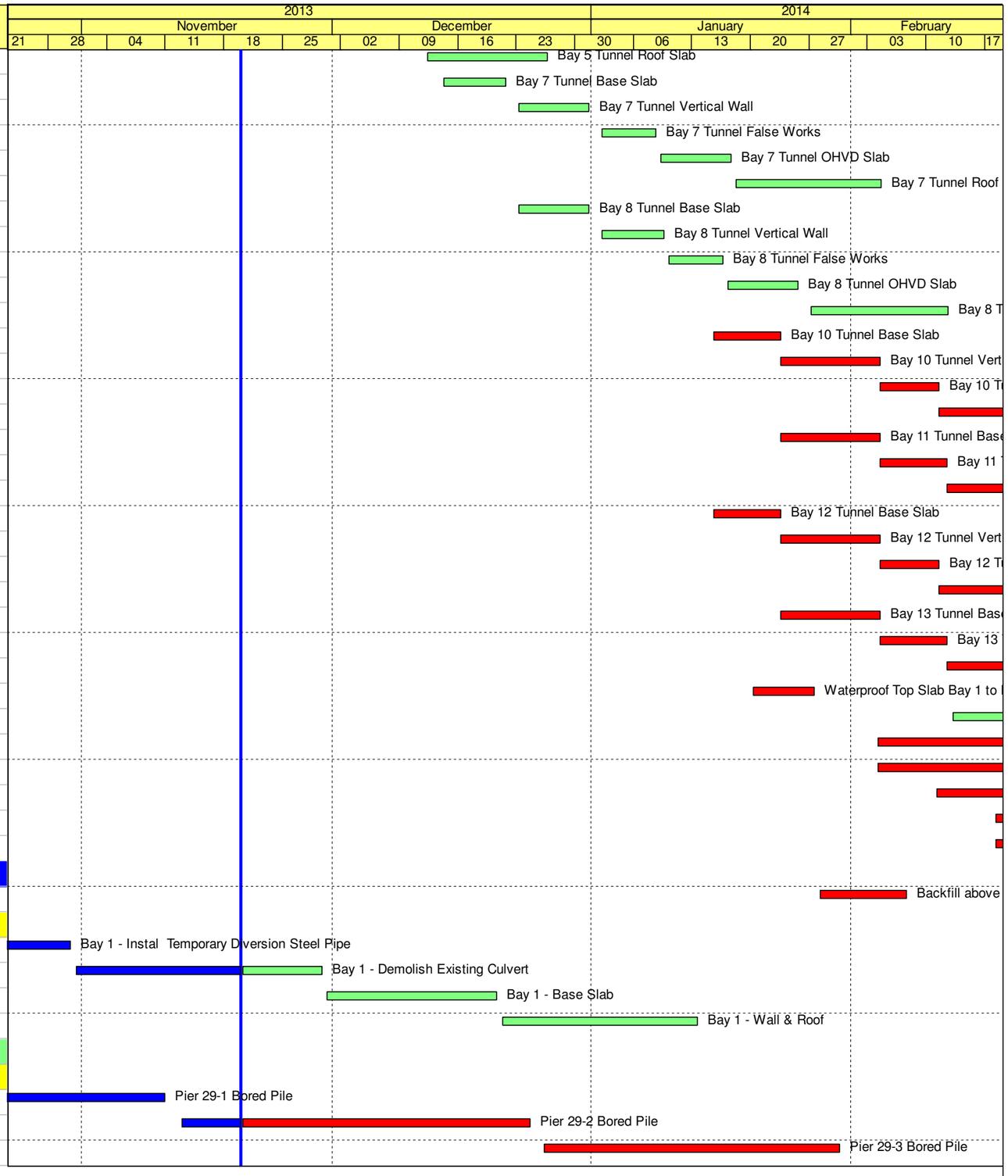
Activity ID	Activity Name	Rem Dur	Start	Finish
0524-3295	Bay 5 Tunnel Roof Slab	12	12-Dec-13	26-Dec-13
0524-3375	Bay 7 Tunnel Base Slab	7	14-Dec-13	21-Dec-13
0524-3385	Bay 7 Tunnel Vertical Wall	7	23-Dec-13	31-Dec-13
0524-3395	Bay 7 Tunnel False Works	6	02-Jan-14	08-Jan-14
0524-3405	Bay 7 Tunnel OHVD Slab	8	09-Jan-14	17-Jan-14
0524-3415	Bay 7 Tunnel Roof Slab	12	18-Jan-14	04-Feb-14
0524-3425	Bay 8 Tunnel Base Slab	7	23-Dec-13	31-Dec-13
0524-3435	Bay 8 Tunnel Vertical Wall	7	02-Jan-14	09-Jan-14
0524-3445	Bay 8 Tunnel False Works	6	10-Jan-14	16-Jan-14
0524-3455	Bay 8 Tunnel OHVD Slab	8	17-Jan-14	25-Jan-14
0524-3465	Bay 8 Tunnel Roof Slab	12	27-Jan-14	12-Feb-14
0524-3485	Bay 10 Tunnel Base Slab	7	15-Jan-14	23-Jan-14
0524-3495	Bay 10 Tunnel Vertical Wall	7	23-Jan-14	04-Feb-14
0524-3505	Bay 10 Tunnel False Works	6	04-Feb-14	11-Feb-14
0524-3515	Bay 10 Tunnel OHVD Slab	8	11-Feb-14	20-Feb-14
0524-3535	Bay 11 Tunnel Base Slab	7	23-Jan-14	04-Feb-14
0524-3545	Bay 11 Tunnel Vertical Wall	7	04-Feb-14	12-Feb-14
0524-3555	Bay 11 Tunnel False Works	6	12-Feb-14	19-Feb-14
0524-3585	Bay 12 Tunnel Base Slab	7	15-Jan-14	23-Jan-14
0524-3595	Bay 12 Tunnel Vertical Wall	7	23-Jan-14	04-Feb-14
0524-3605	Bay 12 Tunnel False Works	6	04-Feb-14	11-Feb-14
0524-3615	Bay 12 Tunnel OHVD Slab	8	11-Feb-14	20-Feb-14
0524-3635	Bay 13 Tunnel Base Slab	7	23-Jan-14	04-Feb-14
0524-3645	Bay 13 Tunnel Vertical Wall	7	04-Feb-14	12-Feb-14
0524-3655	Bay 13 Tunnel False Works	6	12-Feb-14	19-Feb-14
0524-3365	Waterproof Top Slab Bay 1 to Bay 4	7	20-Jan-14	27-Jan-14
0524-3475	Waterproof Top Slab Bay 5 to Bay 9	12	13-Feb-14	26-Feb-14
0524-2580	Tunnel Base Slab N65-N73 - Concrete	18	04-Feb-14*	24-Feb-14
0524-2660	Tunnel Base Slab N74-N87 - Prepare CJ and form keys into D-wall	18	04-Feb-14	24-Feb-14
0524-2670	Tunnel Base Slab N74-N87 - Waterproofing Membrane	18	11-Feb-14	03-Mar-14
0524-2590	Tunnel Wall N65-N73 - Rebar Fixing	18	18-Feb-14	10-Mar-14
0524-2680	Tunnel Base Slab N74-N87 - Rebar Fixing	18	18-Feb-14	10-Mar-14
05.2.5 - Road & Miscellaneous Works				
0525-2882	Backfill above Tunnel Structure Bay 1 to Bay 4	7	28-Jan-14	07-Feb-14
05.3 - Box Culvert T1				
0530-3086	Bay 1 - Instal Temporary Diversion Steel Pipe	0	07-Oct-13 A	30-Oct-13 A
0530-3408	Bay 1 - Demolish Existing Culvert	9	31-Oct-13 A	29-Nov-13
0530-3079	Bay 1 - Base Slab	18	30-Nov-13	20-Dec-13
0530-3081	Bay 1 - Wall & Roof	18	21-Dec-13	13-Jan-14
06 - SECTION 3 OF THE WORKS				
06.1 - Westbound - Pier 29-34				
0610-2120	Pier 29-1 Bored Pile	0	19-Sep-13 A	11-Nov-13 A
0610-2122	Pier 29-2 Bored Pile	30	13-Nov-13 A	24-Dec-13
0610-2124	Pier 29-3 Bored Pile	30	26-Dec-13	30-Jan-14



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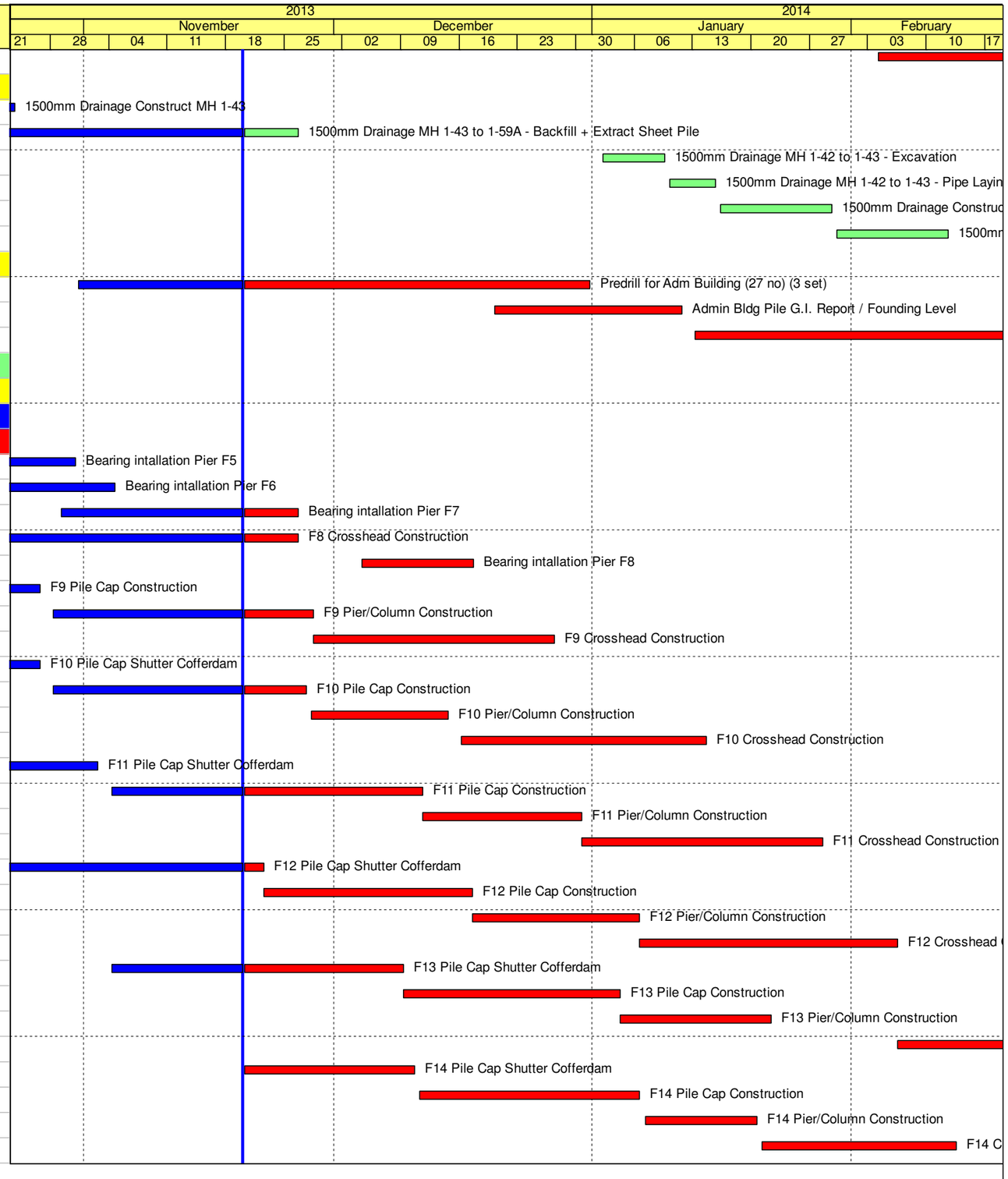
0610-2126	Pier 29-4 Bored Pile	30	04-Feb-14	10-Mar-14
06.2 - Box Culvert U1				
0620-2600	1500mm Drainage Construct MH 1-43	0	02-Oct-13 A	23-Oct-13 A
0620-2610	1500mm Drainage MH 1-43 to 1-59A - Backfill + Extract Sheet Pile	6	02-Oct-13 A	26-Nov-13
0620-2630	1500mm Drainage MH 1-42 to 1-43 - Excavation	7	02-Jan-14	09-Jan-14
0620-2640	1500mm Drainage MH 1-42 to 1-43 - Pipe Laying	5	10-Jan-14	15-Jan-14
0620-2650	1500mm Drainage Construct MH 1-42	12	16-Jan-14	29-Jan-14
0620-2660	1500mm Drainage MH 1-42 to 1-43 - Backfill + Extract Sheet Pile	9	30-Jan-14	12-Feb-14
06.3 - Admin Building				
0630-3100	Predrill for Adm Building (27 no) (3 set)	35	31-Oct-13 A	31-Dec-13
0630-3105	Admin Bldg Pile G.I. Report / Founding Level	18	20-Dec-13	11-Jan-14
0630-3110	Pre-bored H-pile for Adm bldg (55 no) (3 set)	130	13-Jan-14	21-Jun-14
10 - SECTION X OF THE WORKS				
10.1 - E/B Bridges (Bridge D, E and F)				
10.1.1 - Marine Pier Construction				
Pier F03 to F15				
1011-2235	Bearing intallation Pier F5	0	14-Oct-13 A	31-Oct-13 A
1011-2261	Bearing intallation Pier F6	0	22-Oct-13 A	04-Nov-13 A
1011-2291	Bearing intallation Pier F7	6	29-Oct-13 A	26-Nov-13
1011-2320	F8 Crosshead Construction	6	21-Oct-13 A	26-Nov-13
1011-2345	Bearing intallation Pier F8	12	04-Dec-13	17-Dec-13
1011-3115	F9 Pile Cap Construction	0	26-Sep-13 A	26-Oct-13 A
1011-2390	F9 Pier/Column Construction	8	28-Oct-13 A	28-Nov-13
1011-2400	F9 Crosshead Construction	24	28-Nov-13	27-Dec-13
1011-2410	F10 Pile Cap Shutter Cofferdam	0	16-Sep-13 A	26-Oct-13 A
1011-3125	F10 Pile Cap Construction	7	28-Oct-13 A	27-Nov-13
1011-2420	F10 Pier/Column Construction	15	28-Nov-13	14-Dec-13
1011-2430	F10 Crosshead Construction	24	16-Dec-13	14-Jan-14
1011-2350	F11 Pile Cap Shutter Cofferdam	0	30-Sep-13 A	02-Nov-13 A
1011-3135	F11 Pile Cap Construction	19	04-Nov-13 A	11-Dec-13
1011-2360	F11 Pier/Column Construction	15	11-Dec-13	30-Dec-13
1011-2370	F11 Crosshead Construction	24	30-Dec-13	28-Jan-14
1011-2440	F12 Pile Cap Shutter Cofferdam	3	21-Oct-13 A	22-Nov-13
1011-3145	F12 Pile Cap Construction	21	22-Nov-13	17-Dec-13
1011-2450	F12 Pier/Column Construction	15	17-Dec-13	06-Jan-14
1011-2460	F12 Crosshead Construction	24	06-Jan-14	06-Feb-14
1011-2470	F13 Pile Cap Shutter Cofferdam	16	04-Nov-13 A	09-Dec-13
1011-3155	F13 Pile Cap Construction	21	09-Dec-13	04-Jan-14
1011-2480	F13 Pier/Column Construction	15	04-Jan-14	22-Jan-14
1011-2490	F13 Crosshead Construction	18	06-Feb-14	27-Feb-14
1011-2500	F14 Pile Cap Shutter Cofferdam	18	20-Nov-13*	10-Dec-13
1011-3165	F14 Pile Cap Construction	21	11-Dec-13*	06-Jan-14
1011-2510	F14 Pier/Column Construction	12	07-Jan-14	20-Jan-14
1011-2520	F14 Crosshead Construction	18	21-Jan-14	13-Feb-14



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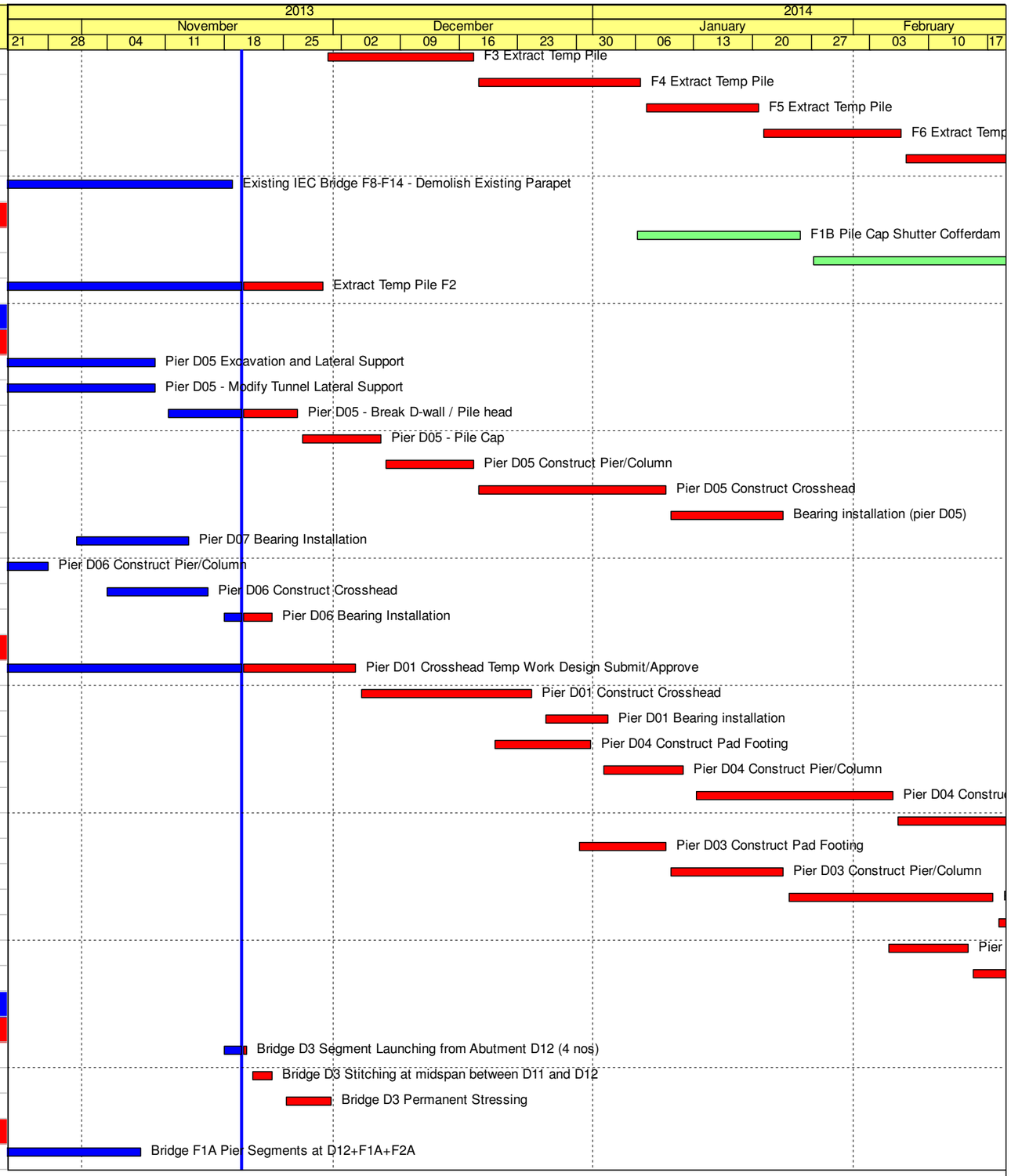
Activity ID	Activity Name	Rem Dur	Start	Finish
1011-2975	F3 Extract Temp Pile	15	30-Nov-13	17-Dec-13
1011-2985	F4 Extract Temp Pile	15	18-Dec-13	06-Jan-14
1011-3105	F5 Extract Temp Pile	12	07-Jan-14	20-Jan-14
1011-2265	F6 Extract Temp Pile	12	21-Jan-14	06-Feb-14
1011-2025	F7 Extract Temp Pile	12	07-Feb-14	20-Feb-14
1011-3095	Existing IEC Bridge F8-F14 - Demolish Existing Parapet	0	08-Oct-13 A	19-Nov-13 A
Pier F01 to F02				
1011-2890	F1B Pile Cap Shutter Cofferdam	18	06-Jan-14*	25-Jan-14
1011-2895	F1B Pile Cap Construction	18	27-Jan-14	19-Feb-14
1011-2963	Extract Temp Pile F2	9	30-Sep-13 A	29-Nov-13
10.1.2 - Land Pier Construction				
Pier D05 to D07				
1012-1500	Pier D05 Excavation and Lateral Support	0	21-Oct-13 A	09-Nov-13 A
1012-1590	Pier D05 - Modify Tunnel Lateral Support	0	21-Oct-13 A	09-Nov-13 A
1012-1600	Pier D05 - Break D-wall / Pile head	6	11-Nov-13 A	26-Nov-13
1012-1610	Pier D05 - Pile Cap	9	27-Nov-13	06-Dec-13
1012-1620	Pier D05 Construct Pier/Column	9	07-Dec-13	17-Dec-13
1012-1630	Pier D05 Construct Crosshead	18	18-Dec-13	09-Jan-14
1012-1640	Bearing installation (pier D05)	12	10-Jan-14	23-Jan-14
1012-1365	Pier D07 Bearing Installation	0	31-Oct-13 A	13-Nov-13 A
1012-1320	Pier D06 Construct Pier/Column	0	11-Oct-13 A	28-Oct-13 A
1012-1330	Pier D06 Construct Crosshead	0	04-Nov-13 A	16-Nov-13 A
1012-1370	Pier D06 Bearing Installation	4	18-Nov-13 A	23-Nov-13
Pier D01 to D04				
1012-1395	Pier D01 Crosshead Temp Work Design Submit/Approve	12	21-Oct-13 A	03-Dec-13
1012-1400	Pier D01 Construct Crosshead	18	04-Dec-13	24-Dec-13
1012-1570	Pier D01 Bearing installation	6	26-Dec-13	02-Jan-14
1012-1470	Pier D04 Construct Pad Footing	9	20-Dec-13	31-Dec-13
1012-1480	Pier D04 Construct Pier/Column	9	02-Jan-14	11-Jan-14
1012-1490	Pier D04 Construct Crosshead	18	13-Jan-14	05-Feb-14
1012-1540	Bearing installation (pier D04)	12	06-Feb-14	19-Feb-14
1012-1440	Pier D03 Construct Pad Footing	9	30-Dec-13	09-Jan-14
1012-1450	Pier D03 Construct Pier/Column	12	10-Jan-14	23-Jan-14
1012-1460	Pier D03 Construct Crosshead	18	24-Jan-14	17-Feb-14
1012-1550	Bearing installation (pier D03)	6	18-Feb-14	24-Feb-14
1012-1410	Pier D02 Construct Pad Footing	9	05-Feb-14	14-Feb-14
1012-1420	Pier D02 Construct Pier/Column	12	15-Feb-14	28-Feb-14
10.1.3 - E/B Bridge Construction				
Bridge D3				
1013-1080	Bridge D3 Segment Launching from Abutment D12 (4 nos)	1	18-Nov-13 A	20-Nov-13
1013-1120	Bridge D3 Stitching at midspan between D11 and D12	3	21-Nov-13	23-Nov-13
1013-1130	Bridge D3 Permanent Stressing	6	25-Nov-13	30-Nov-13
Bridge F1A				
1013-1155	Bridge F1A Pier Segments at D12+F1A+F2A	0	10-Oct-13 A	08-Nov-13 A



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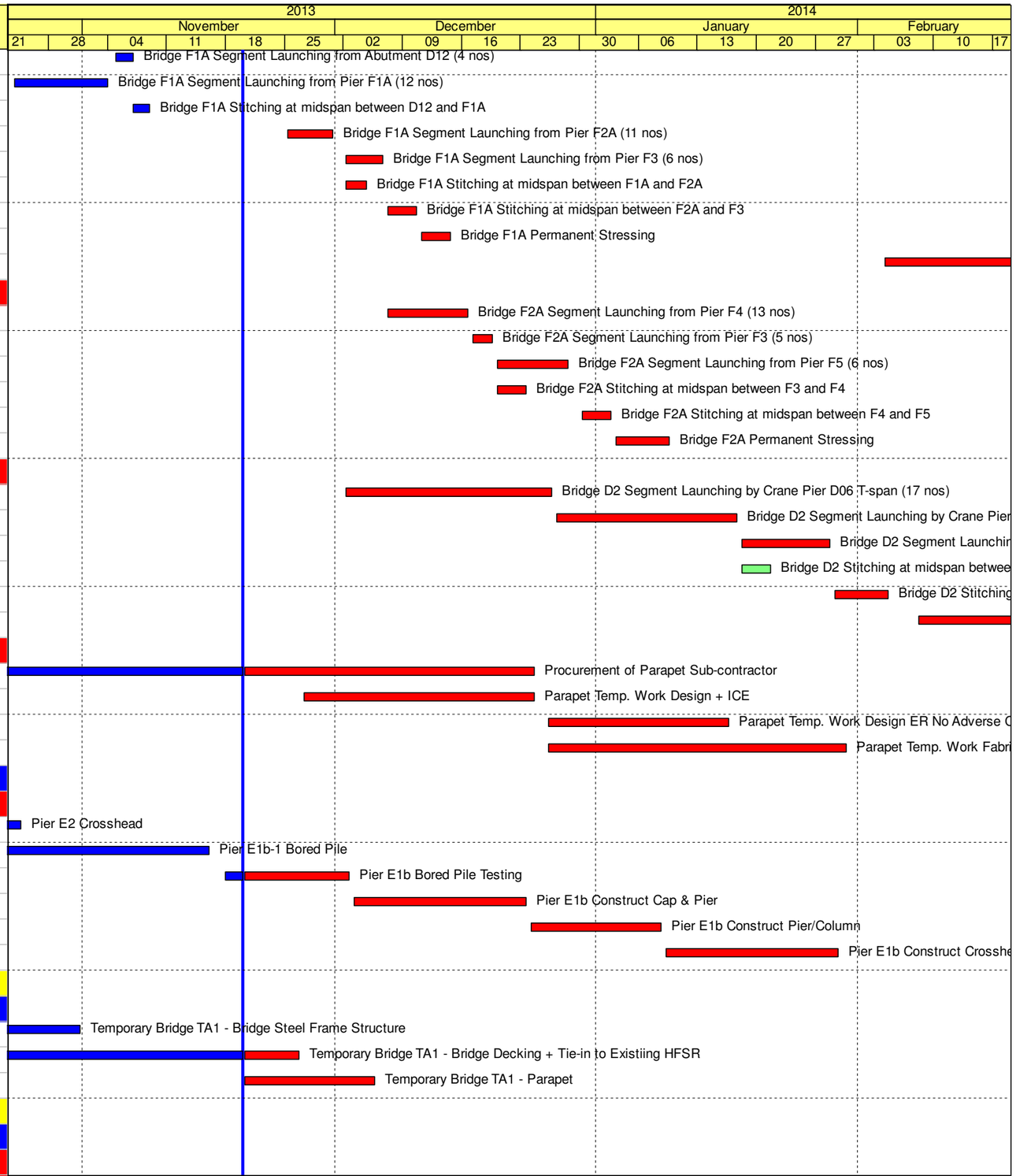
Activity ID	Activity Name	Rem Dur	Start	Finish
1013-1160	Bridge F1A Segment Launching from Abutment D12 (4 nos)	0	05-Nov-13 A	07-Nov-13 A
1013-1170	Bridge F1A Segment Launching from Pier F1A (12 nos)	0	24-Oct-13 A	04-Nov-13 A
1013-1200	Bridge F1A Stitching at midspan between D12 and F1A	0	07-Nov-13 A	09-Nov-13 A
1013-1180	Bridge F1A Segment Launching from Pier F2A (11 nos)	6	25-Nov-13	30-Nov-13
1013-1190	Bridge F1A Segment Launching from Pier F3 (6 nos)	5	02-Dec-13	06-Dec-13
1013-1210	Bridge F1A Stitching at midspan between F1A and F2A	3	02-Dec-13	04-Dec-13
1013-1220	Bridge F1A Stitching at midspan between F2A and F3	3	07-Dec-13	10-Dec-13
1013-1230	Bridge F1A Permanent Stressing	4	11-Dec-13	14-Dec-13
1013-1240	Bridge F1A Construct Parapet (111/6m - 4sets @ 2d)	28	04-Feb-14*	07-Mar-14
Bridge F2A				
1013-1270	Bridge F2A Segment Launching from Pier F4 (13 nos)	8	07-Dec-13	16-Dec-13
1013-1260	Bridge F2A Segment Launching from Pier F3 (5 nos)	3	17-Dec-13	19-Dec-13
1013-1280	Bridge F2A Segment Launching from Pier F5 (6 nos)	7	20-Dec-13	28-Dec-13
1013-1330	Bridge F2A Stitching at midspan between F3 and F4	3	20-Dec-13	23-Dec-13
1013-1340	Bridge F2A Stitching at midspan between F4 and F5	3	30-Dec-13	02-Jan-14
1013-1350	Bridge F2A Permanent Stressing	6	03-Jan-14	09-Jan-14
Bridge D2				
1013-1480	Bridge D2 Segment Launching by Crane Pier D06 T-span (17 nos)	21	02-Dec-13	26-Dec-13
1013-1490	Bridge D2 Segment Launching by Crane Pier D07 T-span (17 nos)	18	27-Dec-13	17-Jan-14
1013-1470	Bridge D2 Segment Launching by Crane Pier D08 End-span (8 nos)	9	18-Jan-14	28-Jan-14
1013-1520	Bridge D2 Stitching at midspan between D06-D07	3	18-Jan-14	21-Jan-14
1013-1530	Bridge D2 Stitching at midspan between D07-D08	3	29-Jan-14	04-Feb-14
1013-1500	Bridge D2 Segment Launching by Crane Pier D05 T-span (17 nos)	18	08-Feb-14	28-Feb-14
All E/B Bridges (Common)				
1013-1770	Procurement of Parapet Sub-contractor	30	21-Oct-13 A	24-Dec-13
1013-1780	Parapet Temp. Work Design + ICE	24	27-Nov-13	24-Dec-13
1013-1790	Parapet Temp. Work Design ER No Adverse Comment	18	26-Dec-13	16-Jan-14
1013-1800	Parapet Temp. Work Fabrication	30	26-Dec-13	30-Jan-14
10.1.4 - Bridge E / Hing Fat Slip Road				
Pier Construction				
1014-1087	Pier E2 Crosshead	0	03-Sep-13 A	24-Oct-13 A
1014-1240	Pier E1b-1 Bored Pile	0	18-Oct-13 A	16-Nov-13 A
1014-1020	Pier E1b Bored Pile Testing	11	18-Nov-13 A	02-Dec-13
1014-1030	Pier E1b Construct Cap & Pier	18	03-Dec-13	23-Dec-13
1014-1040	Pier E1b Construct Pier/Column	12	24-Dec-13	08-Jan-14
1014-1050	Pier E1b Construct Crosshead	18	09-Jan-14	29-Jan-14
10.5 - Temporary Bridge				
10.5.1 - Temporary Bridge 'TA'				
1051-1016	Temporary Bridge TA1 - Bridge Steel Frame Structure	0	02-Sep-13 A	31-Oct-13 A
1051-1017	Temporary Bridge TA1 - Bridge Decking + Tie-in to Existiing HFSR	6	23-Sep-13 A	26-Nov-13
1051-1018	Temporary Bridge TA1 - Parapet	14	20-Nov-13	05-Dec-13
10.6 - Tunnel Approach Ramp				
10.6.1 - Approach Ramp (Excluding Portion IIB)				
Bored Piles				



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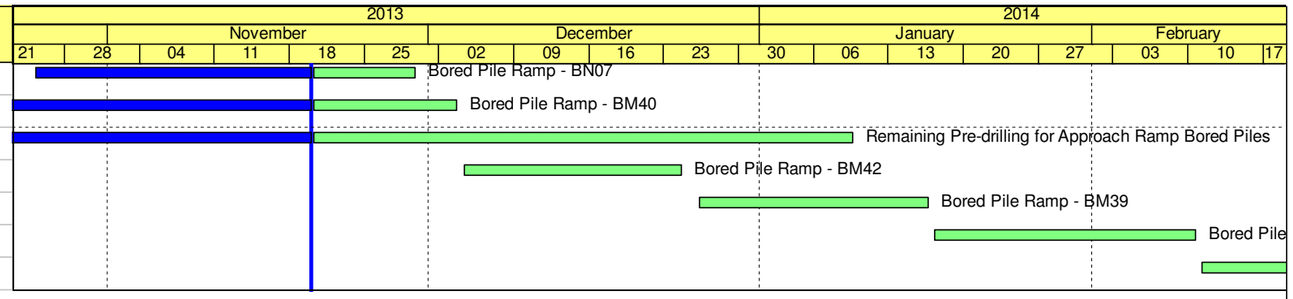
Activity ID	Activity Name	Rem Dur	Start	Finish
1061-1580	Bored Pile Ramp - BN07	9	25-Oct-13 A	29-Nov-13
1061-1661	Bored Pile Ramp - BM40	12	03-Oct-13 A	03-Dec-13
1061-1670	Remaining Pre-drilling for Approach Ramp Bored Piles	42	19-Jul-13 A	09-Jan-14
1061-1680	Bored Pile Ramp - BM42	18	04-Dec-13	24-Dec-13
1061-1690	Bored Pile Ramp - BM39	18	26-Dec-13	16-Jan-14
1061-1700	Bored Pile Ramp - BM43	18	17-Jan-14	10-Feb-14
1061-1710	Bored Pile Ramp - BM40	18	11-Feb-14	03-Mar-14



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 Reviewed Works Programme - (Conforming) - Rev.0/1 23 Aug 2013				
Dredging and Reclamation				
Marine Work Construction				
Area C - Demolish Expo Drive West Bridge				
MAR12840	Area C - Expo Drive - saw cut and remove (Bay 3)	5	11-Aug-13 A	24-Aug-13
MAR13220	Area C - Expo Drive - saw cut and remove (Bay 4)	5	13-Aug-13 A	24-Aug-13
MAR13240	Area C - Expo Drive - saw cut and remove (Bay 5)	5	26-Aug-13	30-Aug-13
MAR13260	Area C - Expo Drive - saw cut and remove (Bay 6)	5	31-Aug-13	05-Sep-13
MAR13280	Area C - Expo Drive - saw cut and remove (Bay 7)	5	06-Sep-13	11-Sep-13
MAR13440	Area C - Expo Drive - saw cut and remove (Bay 8)	5	12-Sep-13	17-Sep-13
MAR13480	Area C - Expo Drive - saw cut and remove (Bay 9)	5	18-Sep-13	24-Sep-13
MAR13500	Area C - Expo Drive - saw cut and remove (Bay 10)	5	25-Sep-13	30-Sep-13
MAR13520	Area C - Expo Drive - saw cut and remove ((Bay 11)	5	02-Oct-13	07-Oct-13
Dredging				
Dredging - Zone C				
MAR11340	Zone C - Dredging [R6, R7] (25m control zone / temp seawall)	3	30-Aug-13	02-Sep-13
MAR11350	Zone C - Dredging [R3-R5] (25m control zone)	4	03-Sep-13	06-Sep-13
MAR11360	Zone C - remove existing rock armour [S7-S8] (temp seawall)	7	07-Sep-13	14-Sep-13
MAR11380	Zone C - Final Hydrographic Survey (temp seawall)	3	16-Sep-13	18-Sep-13
MAR11410	Zone C - Dredging [S3-S6, T4-T5]	13	16-Sep-13	02-Oct-13
MAR11460	Zone C - remove exiisting rock armour [T6-T7, U6-U7] (bridge area)	7	08-Oct-13	16-Oct-13
MAR11480	Zone C - Dredging [U4-U7] (bridge area)	3	17-Oct-13	19-Oct-13
MAR11500	Zone C - Dredging [T4-T7] (bridge area)	6	21-Oct-13	26-Oct-13
MAR11580	Zone C - Final Hydrographic Sruvey (bridge area)	4	28-Oct-13	31-Oct-13
Dredging - Zone B				
MAR10900	Zone B - dredging [Q6-Q8] (25m control zone / seawall)	4	30-Aug-13	03-Sep-13
MAR10910	Zone B - dredging [Q2-Q5] (25m control zone)	4	04-Sep-13	07-Sep-13
MAR10920	Zone B - dredging [P6-P8] (seawall)	6	09-Sep-13	14-Sep-13
MAR12100	Zone B - dredging [P2-P5]	6	28-Oct-13	02-Nov-13
MAR12140	Zone B - Final Hydrographic Sruvey	7	04-Nov-13	11-Nov-13
Dredging - Zone A2				
MAR10120	Zone A2 - Complete discommissioning of Submarine Sewage Outfall (conforming by others)	0		20-Aug-13
MAR10140	Zone A2 - Complete discommissioning of Cross Harbour Watermains (conforming by others)	0		20-Aug-13
MAR10160	Zone A2 - dredging [L6-L8, M6-M8] (seawall)	11	16-Sep-13	28-Sep-13
MAR10200	Zone A2 - dredging [M1-M5]	11	04-Nov-13	15-Nov-13
MAR12440	Zone A2 - dredging [L0-L5]	5	16-Nov-13	21-Nov-13
MAR12460	Zone A2 - abandon / remove existing submarine sewage outfall [L2-L5]	52	30-Sep-13	30-Nov-13

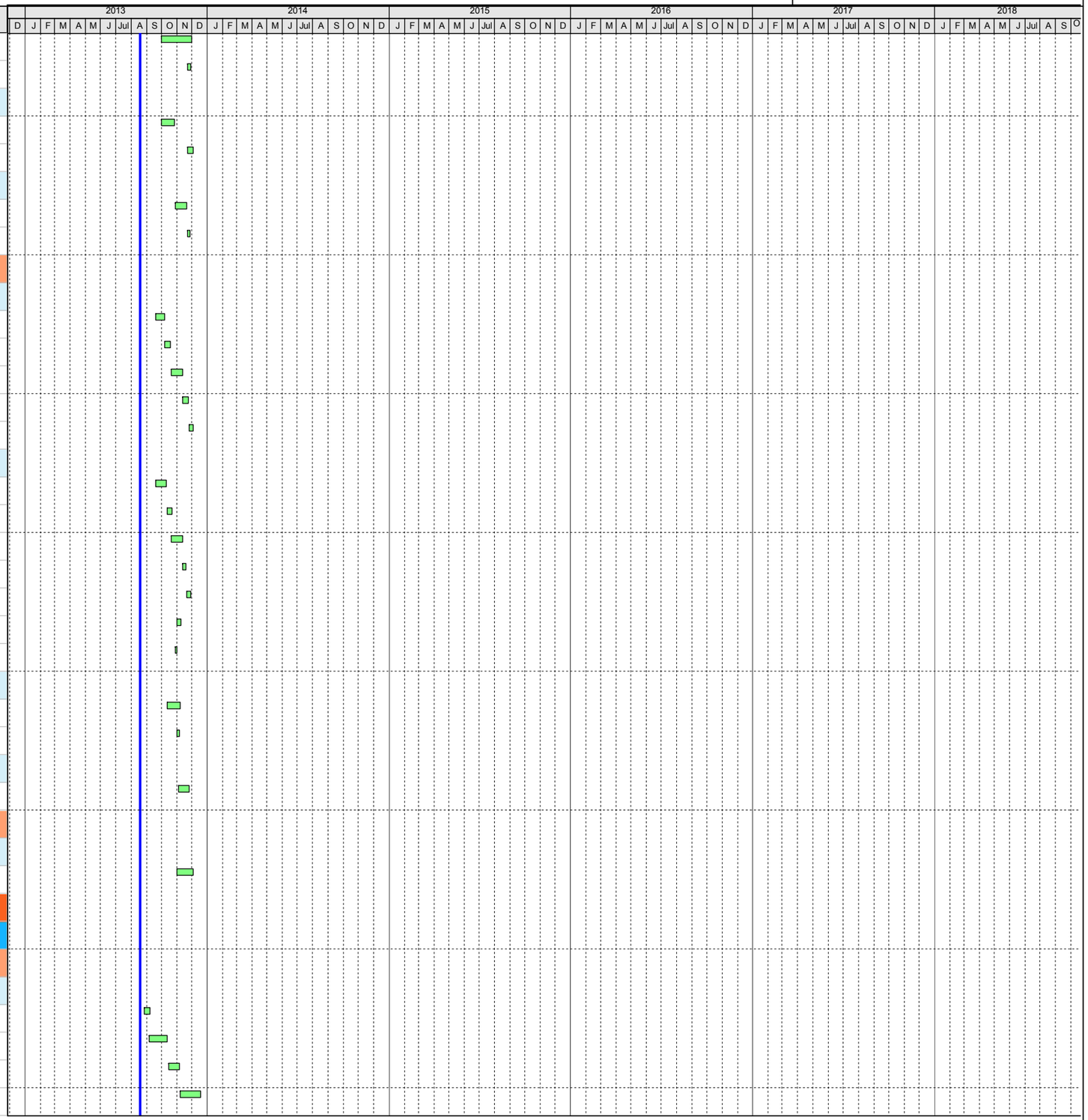
Data Date:
20-Aug-13

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

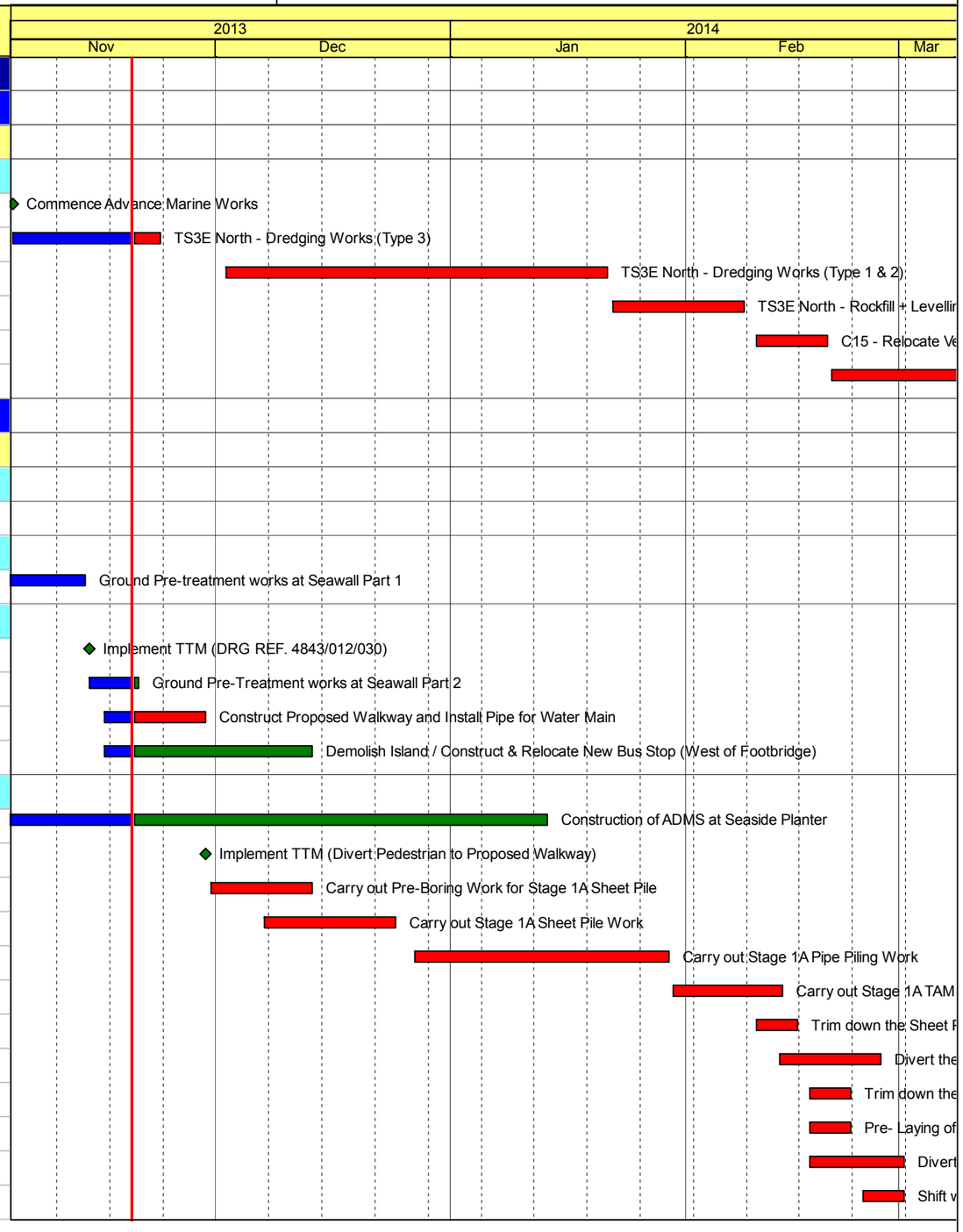
3 Months Rolling Programme for Area Outside Zone CRIII

Date	Revision	Checked	Approved
29-Aug-13	Rev. 0/1		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish
MAR12480	Zone A2 - abandon / remove cross harbour watermains [M2-M8]	52	30-Sep-13	30-Nov-13
MAR12500	Zone A2 - Final Hydrographic Sruvey	7	22-Nov-13	29-Nov-13
Dredging - Zone A1				
MAR10240	Zone A1 - dredging [J4-J7, K5-K7] (seawall)	22	30-Sep-13	26-Oct-13
MAR12520	Zone A1 - dredging [J1-J3, K0-K4]	11	22-Nov-13	04-Dec-13
Dredging - Zone D				
MAR11880	Zone D - Remove existing rock armour [S8-S10]	22	28-Oct-13	21-Nov-13
MAR11900	Zone D - dredging [R8-R10]	5	22-Nov-13	27-Nov-13
Seawall Construction				
Seawall Construction - Zone C				
MAR11560	Zone C - temp. seawall - fill rubble mound to -4.0mPD	14	19-Sep-13	07-Oct-13
MAR11570	Zone C - temp. seawall - place temp concrete block to +4.0mPD	10	08-Oct-13	19-Oct-13
MAR11600	Zone C - C4 unit - Grade 75 rockfill along C4 unit	20	21-Oct-13	12-Nov-13
MAR11620	Zone C - WDII Box 1 temp SW - place rock mound	10	13-Nov-13	23-Nov-13
MAR11660	Zone C - WDII Box 1 temp SW - place concrete block	8	25-Nov-13	03-Dec-13
Seawall Construction - Zone B				
MAR10980	Zone B - seawall - fill rubble mound for seawall	18	19-Sep-13	11-Oct-13
MAR10990	Zone B - seawall - install block seawall type 7	7	12-Oct-13	21-Oct-13
MAR11040	Zone B - C4 unit - Grade 75 rockfill along C4 unit	20	21-Oct-13	12-Nov-13
MAR11060	Zone B - WDII Box 1 temp SW - place rock mound	6	13-Nov-13	19-Nov-13
MAR11080	Zone B - WDII Box 1 temp SW - place concrete block	8	20-Nov-13	28-Nov-13
MAR11200	Zone B - seawall - install block seawall type 5	7	01-Nov-13	08-Nov-13
MAR11210	Zone B - seawall - install caisson seawall no. 2N	3	29-Oct-13	31-Oct-13
Seawall Construction - Zone A2				
MAR10720	Zone A2 - seawall - fill rubble mound for seawall	22	12-Oct-13	07-Nov-13
MAR10740	Zone A2 - seawall - install Caisson Seawall no. 2L	4	01-Nov-13	05-Nov-13
Seawall Construction - Zone A1				
MAR10290	Zone A1 - seawall - fill rubble mound for seawall	18	05-Nov-13	25-Nov-13
Filling				
Filling - Zone C				
MAR11700	Zone C - public fill [T4-T7, U4-U7] - (bridge area)	28	01-Nov-13	03-Dec-13
Works for Section Completion				
Construction				
Box Culvert La, L1 & FRP-L Construction				
Sec VI A - Box Culvert La bay 1-3 and Roadwork				
CUL10140	Sec VI A - Area 1 - relocation of kiosks	10	28-Aug-13	07-Sep-13
CUL10160	Sec VI A - Area 1 - Culvert L bay 1-3 - road offset and TTA	30	06-Sep-13	12-Oct-13
CUL10440	Sec VI A - Area 1 - Culvert L bay 1-3 - Sheet pile installation	20	15-Oct-13	06-Nov-13
CUL10480	Sec VI A - Area 1 - Culvert L bay 1-3 - excavation and ELS installation	36	07-Nov-13	18-Dec-13



Activity ID	Activity Name	Original Duration	Start	Finish
HY/2010/08: CWB-SR8 Three Months Rolling Programme_updated up to 20131120				
Works in TS3				
TS3 East & West Reclamation Works				
TS3E - Reclamation (Advance Works)				
TS3E.MW.1010	Commence Advance Marine Works	0	04-Nov-13 A	
TS3E.MW.1020	TS3E North - Dredging Works (Type 3)	18	04-Nov-13 A	23-Nov-13
TS3E.MW.1025	TS3E North - Dredging Works (Type 1 & 2)	41	02-Dec-13	21-Jan-14
TS3E.MW.1030	TS3E North - Rockfill + Levelling Works	13	22-Jan-14	08-Feb-14
TS3E.MW.1050	C15 - Relocate Vessels	9	10-Feb-14	19-Feb-14
TS3E.MW.1060	C15 - Dredging at Temporary Mooring Area	18	20-Feb-14	12-Mar-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 0A - East Bound (Seaside) (Ref. DRG. No.CDD/SR8/081)				
SR8.EB.0150	Ground Pre-treatment works at Seawall Part 1	12	31-Oct-13 A	13-Nov-13 A
Stage 0B - East Bound (Seaside) (Ref. DRG. No. CDD/SR8/081)				
SR8.EB.0210	Implement TTM (DRG REF. 4843/012/030)	0	14-Nov-13 A	
SR8.EB.0220	Ground Pre-Treatment works at Seawall Part 2	6	14-Nov-13 A	20-Nov-13
SR8.EB.0230	Construct Proposed Walkway and Install Pipe for Water Main	12	16-Nov-13 A	29-Nov-13
SR8.EB.0240	Demolish Island / Construct & Relocate New Bus Stop (West of Footbridge)	24	16-Nov-13 A	13-Dec-13
Stage 1A - East Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)				
SR8.EB.1140	Construction of ADMS at Seaside Planter	44	24-Oct-13 A	13-Jan-14
SR8.EB.1010	Implement TTM (Divert Pedestrian to Proposed Walkway)	0		29-Nov-13
SR8.EB.1020	Carry out Pre-Boring Work for Stage 1A Sheet Pile	12	30-Nov-13	13-Dec-13
SR8.EB.1030	Carry out Stage 1A Sheet Pile Work	15	07-Dec-13	24-Dec-13
SR8.EB.1040	Carry out Stage 1A Pipe Piling Work	28	27-Dec-13	29-Jan-14
SR8.EB.1050	Carry out Stage 1A TAM Grout	10	30-Jan-14	13-Feb-14
SR8.EB.1060	Trim down the Sheet Pile and Pipe Pile and construct the Gas Main Trough	6	10-Feb-14	15-Feb-14
SR8.EB.1070	Divert the Water Main to Seaside	12	13-Feb-14	26-Feb-14
SR8.EB.1090	Trim down the Sheet Pile/Pipe Pile and Divert HEC Cable (11kv) to completed Pipe pile	6	17-Feb-14	22-Feb-14
SR8.EB.1100	Pre- Laying of One Gas Main Pipe to Gas Trough for diversion at Stage 2	6	17-Feb-14	22-Feb-14
SR8.EB.1080	Divert Gas Main from Foot Path to Gas Main Trough	12	17-Feb-14	01-Mar-14
SR8.EB.1110	Shift wiring tand Relocation of Lamp Post	6	24-Feb-14	01-Mar-14

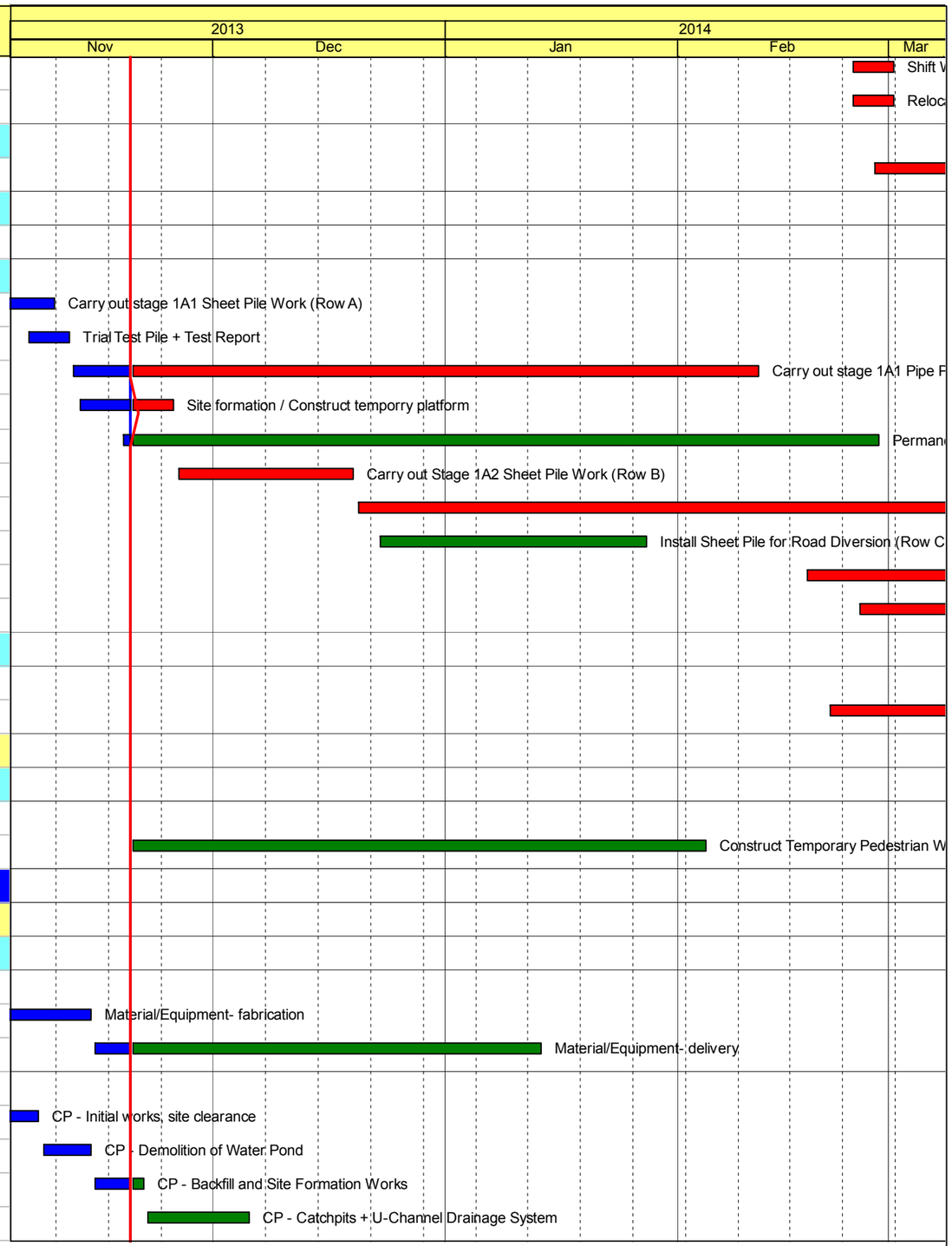


Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
27-Nov-13	Updated to 20th Nov 2013	DML/WC	

Activity ID	Activity Name	Original Duration	Start	Finish
SR8.EB.1120	Shift Wiring and Relocation of Traffic Control Box	6	24-Feb-14	01-Mar-14
SR8.EB.1130	Relocation of Hydrant	6	24-Feb-14	01-Mar-14
Stage 1B - East Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)				
SR8.EB.1210	Carry-out preboring for Stage 1B Sheet Pile	11	27-Feb-14	11-Mar-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.1030	Carry out stage 1A1 Sheet Pile Work (Row A)	22	16-Oct-13 A	09-Nov-13 A
SR8.WB.1040	Trial Test Pile + Test Report	5	06-Nov-13 A	11-Nov-13 A
SR8.WB.1050	Carry out stage 1A1 Pipe Piling Work (Row A)	73	12-Nov-13 A	11-Feb-14
SR8.WB.1060	Site formation / Construct temporry platform	12	13-Nov-13 A	25-Nov-13
SR8.WB.1090	Permanent Diversion of 11kV cable	80	19-Nov-13 A	27-Feb-14
SR8.WB.1070	Carry out Stage 1A2 Sheet Pile Work (Row B)	21	26-Nov-13	19-Dec-13
SR8.WB.1080	Carry out Stage 1A2 Pipe Piling Work (Row B)	63	20-Dec-13	10-Mar-14
SR8.WB.1035	Install Sheet Pile for Road Diversion (Row C)	28	23-Dec-13	27-Jan-14
SR8.WB.1100	Install King Post for Traffic Deck	18	18-Feb-14	10-Mar-14
SR8.WB.1110	Relocate Fire Hyrdant and divert the water main	12	25-Feb-14	10-Mar-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	21-Feb-14	13-Jun-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-Nov-13	04-Feb-14
Works in Victoria Park				
Re-Provisioning Works				
Children's Playground				
Procurement				
VP_0120	Material/Equipment- fabrication	90	30-Jul-13 A	14-Nov-13 A
VP_0125	Material/Equipment- delivery	48	15-Nov-13 A	13-Jan-14
Construction Works				
VP_1060.02	CP - Initial works, site clearance	6	01-Nov-13 A	07-Nov-13 A
VP_1080.01	CP - Demolition of Water Pond	6	08-Nov-13 A	14-Nov-13 A
VP_1080.02	CP - Backfill and Site Formation Works	6	15-Nov-13 A	21-Nov-13
VP_1080.03	CP - Catchpits + U-Channel Drainage System	12	22-Nov-13	05-Dec-13



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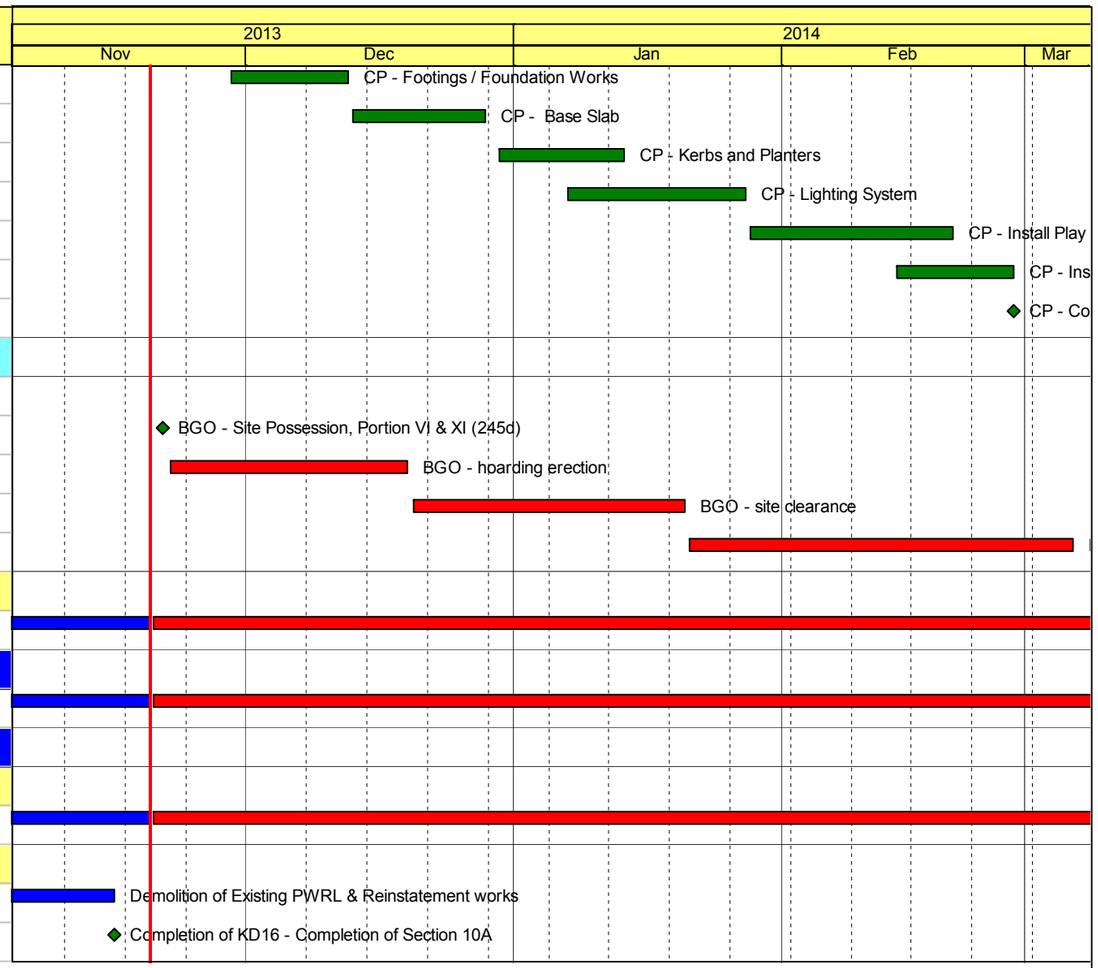
Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
27-Nov-13	Updated to 20th Nov 2013	DML/WC	

Activity ID	Activity Name	Original Duration	Start	Finish
VP_1090	CP - Footings / Foundation Works	12	29-Nov-13	12-Dec-13
VP_1100	CP - Base Slab	12	13-Dec-13	28-Dec-13
VP_1690	CP - Kerbs and Planters	12	30-Dec-13	13-Jan-14
VP_1140	CP - Lighting System	18	07-Jan-14	27-Jan-14
VP_1200	CP - Install Play Equipment	18	28-Jan-14	20-Feb-14
VP_1230	CP - Install Safety Matting	12	14-Feb-14	27-Feb-14
VP_1160	CP - Completion of KD4 - Works in Section1B	0		27-Feb-14
Bowling Green Office				
BGO - Construction Works				
VP_1110	BGO - Site Possession, Portion VI & XI (245d)	0	21-Nov-13	
VP_1100.01	BGO - hoarding erection	24	22-Nov-13	19-Dec-13
VP_1100.02	BGO - site clearance	24	20-Dec-13	20-Jan-14
VP_1150	BGO - Underground utilities & foundation works	36	21-Jan-14	06-Mar-14
Tree Transplanting at Portion XIV (Victoria Park Open Space)				
VP_1040	Tree Transplanting & Upkeep at Portion XIV	347	16-Oct-13 A	13-Dec-14
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-Jan-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	20-Nov-17
Demolition of Existing PWRL (Portion XVIII)				
PWRL_1060	Demolition of Existing PWRL & Reinstatement works	49	17-Sep-13 A	15-Nov-13 A
PWRL_1070	Completion of KD16 - Completion of Section 10A	0		15-Nov-13 A



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