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

- OCTOBER 2013 -

CLIENTS:

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and

Highways Department

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Environmental Team Leader

DATE:

November 2013



Ref.: AACWBIECEM00_0_4576L.13

14 November 2013

By Post and Fax (2691 2649)

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

Attention: Mr. Conrad Ng

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (October 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 October 2013 received by email on 13 November 2013.

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.

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by fax: 2714 5289

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Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

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EXECUTIVE SUMMARY

This is the Environmental Monitoring and Audit (EM&A) Monthly Report -October 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-04/356/2009, FEP-05/356/2009, FEP-03/356/2009, FEP-06/356/2009 FEP-07/356/2009. This report presents the environmental monitoring findings and information recorded during the period September 2013 to October 2013. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

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- ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included: Marine Works (at Wan Chai)
 - Rock filling up to +4.2 mPD for D-wall construction.
 - Bottom slab of Bay 8. Preparation work for blinding layer at Bay 9. Water leakage was found and re-grouting.
 - Fabrication work for steel bridge on the top of temporary open channel along Convention Avenue.
 - Pre-drilling for D-walls at Area 8 (interface wall, bulkhead).
 - Ground treatment work and guide wall construction.

XHWM, Cooling Watermains, Salt Watermains and Sewer (On Land)

- Design of the additional anode between the new pipe and existing pipeline.
- Reinstatement works at HKCEC north & northwest. Reinstatement works at West Foyer of HKCEC. Planter reinstatement, kerbworks, hard paving and all other minor reinstatement works.
- Cooling main works in Zone C1-2. Cooling main works along Expo Drive East and Fleming Road.
- Salt watermain laying works along west of Convention Avenue, J/O Convention Avenue & Fenwick Per Street, Harbour Road in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 and A5-2. Salt watermain laying works along west of Convention Avenue near Grand Hyatt Hotel in Zone A1-5C, A1-5A3.
- Relocation works of fire hydrant in Zone X2-1.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link (from CH120 to CH220).
- Construction of the Common D-wall.
- Filling of the existing open water channel from CH100 to CH206.
- Demolition of the Promenade Deck. Installation of sheet pile for demolition of P5 Pump house.
- ELS work at bottom-up area. Fabrication of steel strutting members. Installation of



ELS.

- 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.
 - 60-Day Trial Operation for P7 Cooling Water Pumping Station.
 - Fire Certificate for all P7, P8 and P9 Cooling Water Pumping Stations.
 - Leakage rectification works for P8 discharge mains near Gate No.1.
 - The DN150 washout pipe testing under VO No.114 located at CHS8A230m. All necessary fittings and ready for gate valve installation by WSD.
 - Pressure test to Y-Section for connection with the existing DN600 pipe at Hung Hing Road had been completed.
 - The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
 - Bulkhead Removal at Bay 5 and Bay 6.
 - The guiderail installation at stoplog chambers at Bay 6.
 - The remedial works at Bay 3 and Bay 6.
 - Revised certified ELS design for modifying the existing ELS for the construction of Manhole No. FRP-N-MH2.
 - The 6nos. Temporary Covered Walkway in the vicinity of Ferry Pier .
 - Installation of base plates for seatings at Observation Deck Level of Ferry Pier.
 - Remedial works for the Eastern Bulkhead Wall.

Hung Hing Road Flyover Diversion (Stage 1):

- The road modification works along Wan Shing Street for HHR Flyover Diversion (Stage 1).
- Pavement works at Wan Shing Street next to SPCA's Main Vehicular Access.
- Backfilling works at Wan Shing Street next to HEC station entrance. Pavement works.
- Sorted public fill at WCR4/TWCR4.
- Seawall blocks installation at WCR4/TWCR4.
- Geotextile at WCR4/TWCR4 area.
- 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:
 - D-wall and Barrette Construction
 - Removal of strut at ELS

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- ELS and Cut & Cover Tunnel
- · Installation of dewatering well
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1
- Demolition of parapet at IEC link
- Construction of King Post at ELS
- vii. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
 - Site preparation works
 - Site survey
 - ELS for box culvert La at Lung King Street
 - Dredging
 - Preparation works for abandoning watermains at Lung King Street
- viii. During this reporting period, the no major work activities for Contract no. HY/2010/08 was conducted

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 3 and 16 October 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.
- 5.2.1. 24-hour real time noise monitoring was conducted at RTN2a - Hong Kong Electric Centre. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 30 Sep, 2, 4, 5, 7, 8, 9, 21 and 23 Oct 2013. After checking with contractor, no major noisy construction activity was conducted at the concerned location by the Contractor during the recorded period and on-going breaking works and piling works at adjacent non-CWB Project were observed undertaken in the reporting month. As such, the exceedances were considered as non-project related.

Air Quality Monitoring

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- Due to electricity interruption, the 24hr TSP monitoring at CMA3a was rescheduled from16 xiv. October 2013 to 17 October 2013.
- XV. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b - Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- xvi. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xvii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b - Oil Street Site Office; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5a – Children Garden opposite to Pedestrian Plaza; MA1e and MA1w - International Finance Centre eastern and western wing on every six days basis.

Water Quality Monitoring

- xviii. Due to damaged geotextile enclosing the silt screen on 15 October 2013, water quality monitoring at P3 during flood tide was cancelled.
- xix. Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2013.
- Since marine dredging works was commenced under contract HK/2012/08. The respective XX. water quality monitoring station WSD19, P1, P3, P4, and P5 have been started under contract HK/2012/08 September.
- Water quality monitoring station RW21-P789 has been implemented with respect to xxi. HK/2009/02 started on 29 July 2013.
- As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was xxii. 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

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

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 14 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	Summar	y of Water	' Quality	y Monitoring	Exceedances	in Re	porting	Month
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	Water	Mid-flood				Mid-ebb							
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	4	5	0	3	0	0	0	8	0	2
	C1	0	0	1	0	0	0	2	0	1	0	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	1	0	0	0	0	0	0	0	0	0
HK/2009/02	WSD21	3	3	1	1	0	4	4	3	2	0	0	1
Monitoring started on 8 Feb 2012	WSD9	0	0	2	0	0	1	0	0	1	0	0	0
	WSD17	0	0	2	2	0	0	0	2	1	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	1	3	0	0	0	0	1	1	0	0
HY/2009/15	C7	1	1	0	0	0	0	0	1	1	0	0	0
Total		4	4	12	11	0	8	6	6	7	9	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.
- 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

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
110.	Cidiion	AL	LL	AL	LL	
	C6	0	0	0	0	
HY/2009/15	C7	2	1	5	0	
111/2009/13	Ex-WPCWA SW	1	3	1	5	
	Ex-WPCWA SE	7	2	1	6	

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

		Mid-1	lood	Mid-ebb		
Contract no.	Water Monitoring Station	DO		DO		
		AL	LL	AL	LL	
	10	6	7	11		

- xxxv. There were 17 action level exceedances and 17 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:

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

Marine Works

- Filling works up to +4.0mPD between CH360 to CH370.
- Construction of RC structure proposed box culvert Bay 8 Wall and Bay 9 Base slab.
- D-wall construction at Stage 3.
- Outfall construction for discharge pipes at Expo Drive East.

Cooling Watermains, Salt Watermains and Sewer (On Land)

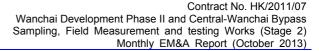
- Salt watermain laying works would be continued along west of Convention Avenue to Fenwick Pier Street in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 & A5-2 and at Convention Avenue near Grand Hyatt hotel in Zone A1-5C, A1-5B & A1-5A3.
- Road advance works at the junction between Expo Drive East & Expo Drive Central
 and nearby area.
- Cooling main laying works along Expo Drive East to Fleming Road for BF, BI & BG discharge system.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link.
- · Construction of the south Common D-wall.
- Advance works for demolition of the HKCEC Pump home.
- ELS for Stage 1 CWB.

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

- 60-day trial operation of P7 cooling water system.
- Leakage rectification works for P8 discharge mains at Ex-Pet Garden.
- Flexible joint rectification works for P8 discharge mains at CHBH152m.
- · Hatch box replacement for P7 intake mains.
- Butterfly valve dismantling works for P7, P8 and P9 system.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.
- Connection with the existing DN600 salt watermains at Hung Hing Road.
- Water tightness test for Salt Water Intake Culvert.
- Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Outstanding works at WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and handed over to DSD
- Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1.
- ABWF works in Ferry Pier.
- Rectifying defects in movable ramp.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Installation works for FRP Enclosure at 1/F public area, 2/F and staircase in Ferry Pier.
- Utility works and commence EVA construction extending from P7 Cooling Water



Pumping Station to the Ferry Pier.

- All outstanding interface coring for Eastern Bulkhead for substantial completion of Section IXA of the Works.
- Filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4.
- Backfilling and roadworks at Hung Hing Road & Wan Shing Street for successful implementation of HHR Flyover Diversion (Stage 1) on 2 Nov 2013

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

Construction of EVA

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass</u> 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

- D-wall and Barrette Construction
- · Removal of strut at ELS
- Construction works for Box Culvert T1
- · Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- ELS and Cut & Cover Tunnel
- · Installation of dewatering well
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1
- Demolition of parapet at IEC link
- Construction of King Post at ELS

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

- Site survey
- Dredging
- ELS for box culvert L at Lung King Street
- Works for abandoning watermains at Lung King Street

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

Caisson seawall units installation and marine filling

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

• Nil



1 Introduction

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "Environmental Monitoring and Audit Requirements" under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period of September 2013 to October 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.

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

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	DP3, DP6	23 July 2010
	Kong Convention and Exhibition Centre	DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai	DP3, DP5	5 July 2010
	East	DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010
	(Causeway Bay Typhoon Shelter Section)	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
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
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
				NO.	Ιαλ



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	Contractor under Contract no. HK/2009/01	Joint Venture Board Representative	Mr. PL Yue	2162 9909	2587 1878
Venture		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. Andy Mak	9103 2370	
		Environmental Supervisor	Fan Chun Wai	6487 4488	
Chun Wo –	Contractor under	Project Manager	Mr. David Lau	3658-3022	2827 9996
CRGL Joint Venture	Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China	Contractor under	Project Director	K C Cheung	3557 6399	2566 2192
State Constructi on Engineerin g (HK) Ltd.	Contract no. HY/2009/15	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	Mr. Daniel Sin	3557 6347	
Gammon	Contractor under Contract no.	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
-Leader JV	HK/2010/06	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 –	Contractor under Contract no.	Project Manager	Mr. Rayland Lee	3758 8879	
MBEC_ Joint	HY/2009/19	Site Agent	Paul Yu	9456 9819	
Venture		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	Contractor	Project Director	Andrew Tse	9137 1811	2877 1522
State- Leader JV	under Contract no. HK/2012/08	Project Manager	Victor Wu	9193 8871	
	110. HK/2012/06	Deputy Project Manager	George Cheung	9268 1918	
		Site Agent	Paul Lui	9095 7922	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Ching Man, Chan	6050 4919	
China State	Contractor under Contract no. HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	C.M. Wong	3557 6464	
		Environmental Supervisor	Louis Lam Tsz Kwan	3557 6470	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechni cs 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)
 - Rock filling up to +4.2 mPD for D-wall construction.
 - Bottom slab of Bay 8. Preparation work for blinding layer at Bay 9. Water leakage was found and re-grouting.
 - Fabrication work for steel bridge on the top of temporary open channel along Convention Avenue.
 - Pre-drilling for D-walls at Area 8 (interface wall, bulkhead).
 - Ground treatment work and guide wall construction.

XHWM, Cooling Watermains, Salt Watermains and Sewer (On Land)

- Design of the additional anode between the new pipe and existing pipeline.
- Reinstatement works at HKCEC north & northwest. Reinstatement works at West Foyer of HKCEC. Planter reinstatement, kerbworks, hard paving and all other minor reinstatement works.
- Cooling main works in Zone C1-2. Cooling main works along Expo Drive East and Fleming Road.
- Salt watermain laying works along west of Convention Avenue, J/O Convention
 Avenue & Fenwick Per Street, Harbour Road in Zone A3-5C, A3-1, A3-5B, A2-4A,
 A5-5 and A5-2. Salt watermain laying works along west of Convention Avenue near
 Grand Hyatt Hotel in Zone A1-5C, A1-5A3.
- Relocation works of fire hydrant in Zone X2-1.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link (from CH120 to CH220).
- Construction of the Common D-wall.
- Filling of the existing open water channel from CH100 to CH206.
- Demolition of the Promenade Deck. Installation of sheet pile for demolition of P5
 Pump house.
- ELS work at bottom-up area. Fabrication of steel strutting members. Installation of ELS.
- 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.
 - 60-Day Trial Operation for P7 Cooling Water Pumping Station.
 - Fire Certificate for all P7, P8 and P9 Cooling Water Pumping Stations.
 - Leakage rectification works for P8 discharge mains near Gate No.1.
 - The DN150 washout pipe testing under VO No.114 located at CHS8A230m. All

necessary fittings and ready for gate valve installation by WSD.

- Pressure test to Y-Section for connection with the existing DN600 pipe at Hung Hing Road had been completed.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
- Bulkhead Removal at Bay 5 and Bay 6.
- The guiderail installation at stoplog chambers at Bay 6.
- The remedial works at Bay 3 and Bay 6.
- Revised certified ELS design for modifying the existing ELS for the construction of Manhole No. FRP-N-MH2.
- The 6nos. Temporary Covered Walkway in the vicinity of Ferry Pier .
- Installation of base plates for seatings at Observation Deck Level of Ferry Pier.
- Remedial works for the Eastern Bulkhead Wall.

Hung Hing Road Flyover Diversion (Stage 1):

- The road modification works along Wan Shing Street for HHR Flyover Diversion (Stage 1).
- Pavement works at Wan Shing Street next to SPCA's Main Vehicular Access.
- Backfilling works at Wan Shing Street next to HEC station entrance. Pavement works.
- Sorted public fill at WCR4/TWCR4.
- Seawall blocks installation at WCR4/TWCR4.
- Geotextile at WCR4/TWCR4 area.
- 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:
 - D-wall and Barrette Construction
 - Removal of strut at ELS
 - Construction works for Box Culvert T1
 - Removal of marine platform
 - Construction of pile cap, pier & cross head (Marine)
 - ELS and Cut & Cover Tunnel
 - Installation of dewatering well

- Launching of segments
- Extraction of temporary pile from marine section
- · Construction of bridge truss TA1
- Demolition of parapet at IEC link
- Construction of King Post at ELS
- 2.4.8. For Contract no. HK/2012/08, the principal work activity in this reporting month included:
 - · Site preparation works
 - Site survey
 - ELS for box culvert La at Lung King Street
 - Dredging
 - Preparation works for abandoning watermains at Lung King Street
- 2.4.9. During this reporting period, the no major work activities for Contract no. HY/2010/08 was conducted
- 2.4.10. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

Marine Works

- Filling works up to +4.0mPD between CH360 to CH370.
- Construction of RC structure proposed box culvert Bay 8 Wall and Bay 9 Base slab.
- D-wall construction at Stage 3.
- · Outfall construction for discharge pipes at Expo Drive East.

Cooling Watermains, Salt Watermains and Sewer (On Land)

- Salt watermain laying works would be continued along west of Convention Avenue to Fenwick Pier Street in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 & A5-2 and at Convention Avenue near Grand Hyatt hotel in Zone A1-5C, A1-5B & A1-5A3.
- Road advance works at the junction between Expo Drive East & Expo Drive Central and nearby area.
- Cooling main laying works along Expo Drive East to Fleming Road for BF, BI & BG discharge system.



Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link.
- Construction of the south Common D-wall.
- Advance works for demolition of the HKCEC Pump home.
- ELS for Stage 1 CWB.

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

- 60-day trial operation of P7 cooling water system.
- Leakage rectification works for P8 discharge mains at Ex-Pet Garden.
- Flexible joint rectification works for P8 discharge mains at CHBH152m.
- Hatch box replacement for P7 intake mains.
- Butterfly valve dismantling works for P7, P8 and P9 system.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.
- Connection with the existing DN600 salt watermains at Hung Hing Road.
- Water tightness test for Salt Water Intake Culvert.
- Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Outstanding works at WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and handed over to DSD
- Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1.
- ABWF works in Ferry Pier.
- · Rectifying defects in movable ramp.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Installation works for FRP Enclosure at 1/F public area, 2/F and staircase in Ferry Pier.
- Utility works and commence EVA construction extending from P7 Cooling Water
 Pumping Station to the Ferry Pier.
- All outstanding interface coring for Eastern Bulkhead for substantial completion of Section IXA of the Works.
- Filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4.
- Backfilling and roadworks at Hung Hing Road & Wan Shing Street for successful implementation of HHR Flyover Diversion (Stage 1) on 2 Nov 2013

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

Construction of EVA

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

Sheet piling works

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

- D-wall and Barrette Construction
- Removal of strut at ELS
- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- ELS 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
- · Demolition of parapet at IEC link
- Construction of King Post at ELS

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

- Site survey
- Dredging
- ELS for box culvert L at Lung King Street
- Works for abandoning watermains at Lung King Street
- Caisson seawall units installation and marine filling

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

Nil



3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Valid
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid

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



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

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
T CITIIL	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-RE0371-13	9 Apr 2013	13 Apr 2013 to 12 Oct 2013	Expired
	GW-RS0368-13	11 Apr 2013	13 Apr 2013 to 7 Oct 2013	Expired
	GW-RS0372-13	12 Apr 2013	15 Apr 2013 to 7 Oct 2013	Expired
	GW-RS0470-13	29 Apr 2013	9 May 2013 to 24 Oct 2013	Replaced by GW-RS0626-13
	GW-RS0501-13	9 May 2013	11 May 2013 to 8 Nov 2013	Valid
	GW-RS0510-13	14 May 2013	15 May 2013 to 13 Nov 2013	Valid
	GW-RS0579-13	29 May 2013	29 May 2013 to 26 Nov 2013	Replace by GW-RS0797-13
	GW-RS0797-13	16 Jul 2013	18 Jul 2013 to 15 Jan 2014	Replace by GW-RS0937-13
	GW-RS0626-13	13 Jun 2013	15 Jun 2013 to 12 Dec 2013	Replaced by GW-RS1083-13
	GW-RS0631-13	14 Jun 2013	14 Jun 2013 to 13 Dec 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0651-13	21 Jun 2013	22 Jun 2013 to 20 Dec 2013	Valid
	GW-RS0773-13	16 Jul 2013	20 July 2013 to 19 Jan 2014	Replaced by GW-RS0807-13
	GW-RS0807-13	24 Jul 2013	25 Jul 2013 to 21 Jan 2014	Replaced by GW-RS1153-13
	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-RE0930-13	20 Aug 2013	3 Sep 2013 to 12 Oct 2013	Expired
	GW-RS1063-13	24 Sep 2013	26 Sep 2013 to 23 Mar 2014	Valid
	GW-RE1034-13	27 Sep 2013	30 Sep 2013 to 29 Mar 2014	Valid
	GW-RS1083-13	27/Sep/2013	29 Sep 2013 to 26 Mar 2014	Valid
	GW-RS1091-13	7/Oct/2013	8 Oct 2013 to 7 Apr 2014	Valid
	GW-RS1094-13	7/Oct/2013	8 Oct 2013 to 7 Apr 2014	Valid
	GW-RS1114-13	11/Oct/2013	13 Oct 2013 to 12 Apr 2014	Valid
	GW-RS1153-13	21/Oct/2013	23 Oct 2013 to 20 Apr 2014	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
	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012
Condition 2.8	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
Condition 2.6	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010
	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
Condition 2.9	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
0 - 171 0 0	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
Conditions 2.8 and 2.9	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

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-RS0340-13	28 Mar 2013	10 Apr 2013 to 8 Oct 2013	Expired
	GW-RS0373-13	9 Apr 2013	19 Apr 2013 to 17 Oct 2013	Expired
	GW-RS0437-13	26 Apr 2013	1 May 2013 to 29 Oct 2013	Expired
	GW-RS0467-13	06 May 2013	17 May 2013 to 16 Nov 2013	Valid
	GW-RS0517-13	20 May 2013	27 May 2013 to 26 Nov 2013	Valid
	GW-RS0521-13	20 May 2013	22 May 2013 to 21 Nov 2013	Valid
	GW-RS0530-13	20 May 2013	28 May 2013 to 27 Nov 2013	Valid
	GW-RE0508-13	21 May /2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0525-13	21 May /2013	30 May 2013 to 29 Nov 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/	Status
			Expiry Date	
	GW-RS0538-13	21 May /2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0539-13	23 May 2013	6 June 2013 to 5 Dec 2013	Valid
	GW-RS0554-13	23 May 2013	6 June 2013 to 5 Dec 2013	Valid
	GW-RS0586-13	27 May 2013	28 May 2013 to 22 Nov 2013	Valid
	GW-RS0633-13	14 June 2013	16 June 2013 to 13 Dec 2013	Valid
	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
	GW-RS0846-13	30 July 2013	01 Aug 2013 to 25 Jan 2014	Valid
	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	30/9/2013	18 Oct 2013 to 17 Apr 2014	Valid
	GW-RS1119-13	11/10/2013	16 Oct 2013 to 15 Apr 2014	Valid
	GW-RS1128-13	8/10/2013	11 Oct 2013 to 6 Apr 2014	Valid
	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
Discharge Licence	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
Dur A	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-014	20 May 2013	29 May 2013 to 28 Nov 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined	EP/MD/14-055	29 Aug 2013	6 September 2013 to 5 October 2013	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Marine disposal)	EP/MD/14-069	03 Oct 2013	6 October 2013 to 5 November 2013	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
	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
Condition 2.8	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
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
Condition 2.19	Landscape Plan (Control of Night Time Lighting)	2 June 2010
Condition 2.18	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011

EP Condition	Submission	Date of Submission
	Acknowledge of Submission	22 Aug 2011

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

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
	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-RS0434-13	23 Apr 2013	23 Apr 2013 to 16 Oct 2013	Cancelled
	GW-RS0705-13	28 Jun 2013	02 Jul 2013 to 31 Dec 2013	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	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	21 Jun 2013	17 Jul 2013 to 16 Oct 2013	Expired
	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/14-061	19 Sep 2013	24 Sep 2013 to 23 Oct 2013	Expired
	EP/MD/14-076	23 Oct 2013	24 Oct 2013 to 23 Nov 2013	Valid

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

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

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

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
Futther Environmental Permit	FEP-08/364//2009/A	15 June 2012	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for piling equipment	PP-RS0017-13	19 June 2013	6 Jul 2013 to 5 Jan 2014	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0444-13	30 Apr 2013	12 May 2013 to 3 Nov 2013	Cancelled
	GW-RS0531-13	24 May 2013	26 May 2013 to 19 Nov 2013	Cancelled
	GW-RS0926-13	21 Aug 2013	27 Aug 2013 to 26 Feb 2013	Valid
	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
Registration as Chemical Waste Producer	WPN5213-134-G25 33-01	11 Feb 2011	N/A	Valid
Water Discharge Licence	WT00010905-2011	4 Nov 2011	31 July 2016	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

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

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*.

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

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For D-wall construction) (Portion I, VII, VIII & IX)	GW-RS0503-13	21-May-12	20-Nov-13	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	Valid
Construction Noise Permit (CNP) (For Watson Road)	GW-RS0528-12	26-May-13	25-Nov-13	Valid
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-RS0365-13	21-Apr-13	20-Oct-13	Expired
	GW-RS1099-13	21-Oct-13	20-Apr-14	Valid
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0337-13	05-May-13	01-Oct-13	Cancelled
	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 (Renewed)	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	-



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal)	EP/MD/14-019	10 Jun 2013	09 Dec 2013	Valid
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-048	20 Aug 2013	19 Sep 2013	Expired
	EP/MD/14-067	02 Oct 2013	01 Nov 2013	Valid

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

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.

<u>Table 3.1</u>3 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	Valid
	GW-RS1175-13	23 Oct 2013	25 Oct 2013 to 21 Apr 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-008	23 May 2013	24 Nov 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/14-062	18 Sep 2013	24 Oct 2013	Expired
Type 2 – Confined Marine disposal)	EP/MD/14-078	24 Oct 2013	24 Nov 2013	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. 2)	Generally in order as commented by EPD on 20 Aug 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)	Submitted to EPD on 24 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

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	Not yet submitted under review
Condition 2.9	Silt Screen Deployment Plan	Not yet submitted under review
Condition 2.23	Noise Management Plan	Not yet submitted

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Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

FEP Condition	Submission	Date of Submission
Condition 2.24	Landscape Plan	Not yet submitted under review



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
МЗа	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, $L_{eq (5 \text{ minutes})}$ 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.

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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 9 WSD salt water intakes and 14 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		Northing
WSD Salt Water Int	WSD Salt Water Intake		
WSD7 Kowloon South 834150.0 81830		818300.3	
WSD9	WSD9 Tai Wan 837921.0 818330.0		818330.0
WSD10	Cha Kwo Ling	841900.9	817700.1
WSD15	Sai Wan Ho	841110.4	816450.1
WSD17	Quarry Bay	839790.3	817032.2
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
WSD21	Wan Chai	836220.8	815940.1
RW1	W1 Wan Chai (Reprovision) 836188.8 815911.1		815911.1
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0



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Station Ref.	Location	Easting	Northing
C2	Telecom House	e 835647.9 815864.4	
C3	HKCEC Phase I	IKCEC Phase I 835836.2 815910.0	
C4e	Great Eagle Centre	835932.8	815888.2
C4w	Wan Chai Tower	835629.8	815889.2
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2
C6	Excelsior Hotel	837009.6	815999.3
C7	Windsor House	837193.7	816150.0
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6
RC1	Proposed HKAPA Extension	835487.7	815987.7
RC5	Sun Hung Kai Centre (Reprovision)	836291.4	816029.7
RC7	Windsor House (Temporary Dilution)	837245.2	816156.6
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
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
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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:

- 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

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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 Qualit	y Stations for Enhanced V	Vater 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 quality 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 proposed DO monitoring stations of the Project are shown in *Table 4.7* and *Figure 4.1*.

Table 4.7 Marine Water Quality Stations for Additional DO Monitoring

Station	Easting	Northing
А	835468 815857	
В	835572	815961

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Station	Easting	Northing	
С	835659	816271	

4.3.29. 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 <u>Figure 2.1</u> and <u>Figure 4.1</u>. 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	
М3а	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	
МЗа	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 3 and 16 October 2013 at M6 HK Baptist Church Henrietta Secondary School in the reporting month.
- 5.1.8. Major traffic noise observed during monitoring on 3 and 16 October 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 <u>Appendix</u> 5.2.

5.2 Real-time Noise Monitoring

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

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



- Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 5.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.
- 5.2.4 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 30 Sep, 2, 4, 5, 7, 8, 9, 21 and 23 Oct 2013. After checking with contractor, no major noisy construction activity was conducted at the concerned location by the Contractor during the recorded period and on-going breaking works and piling works at adjacent non-CWB Project were observed undertaken in the reporting month. As such, the exceedances were considered as non-project related.
- 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 CMA3a was rescheduled from16 October 2013 to 17 October 2013.

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

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

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

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza

Station	Description
CMA6a	WDII PRE Site Office

5.3.2 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*.

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

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

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

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

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

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

Station	Description
CMA3a	CWB PRE Site Office

- 5.3.3 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*.
- 5.3.4 The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 3 and 17 September 2013 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during this reporting month. The details of the odour patrol results and meteorological conditions and on the date of odour patrol are shown in *Appendix 5.3.*

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

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

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

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

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

5.4 Water Monitoring Results.

- 5.4.1. Due to damaged geotextile enclosing the silt screen on 15 October 2013, water quality monitoring at P3 during flood tide was cancelled.
- 5.4.2. Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2013.
- 5.4.3. 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.
- 5.4.4. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.
- 5.4.5. 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
- 5.4.6. 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.
- 5.4.7. 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.
- 5.4.8. 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;
- 5.4.9. 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.



- 5.4.10. 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.
- 5.4.11. 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.
- 5.4.12. 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.
- 5.4.13. 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.
- 5.4.14. 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.
- 5.4.15. 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.
- 5.4.16. 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.
- 5.4.17. 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,	C6 ⁴ , C7, Ex-WPCWA SW,	Nov 2010

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	TCBR1W, TPCWAE, TPCWAW	Ex-WPCWA SE (plus enhanced DO monitoring described in 4.6.3)	
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
- 5.4.18. 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	
WSD Salt Water Intake				
WSD7	Kowloon South	834150.0	818300.3	
WSD19	Sheung Wan	833415.0	816771.0	
WSD20	Kennedy Town	830750.6	816030.3	
Cooling Water Inta	ke	•		
C1	HKCEC Extension	835885.6	816223.0	
C2	Telecom House	835647.9	815864.4	
C3	HKCEC Phase I	835836.2	815910.0	
C4e	Great Eagle Centre	835932.8	815888.2	
C4w	Wan Chai Tower	835629.8	815889.2	
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	

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.

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



Central - Wan Chai Bypass at WanChai East

5.4.19. 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				
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2	
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2	
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

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

5.4.20. Water monitoring for Contract no. HK/2010/06 was commenced on 8 March 2011. The proposed division of water monitoring stations are summarized in *Table 5.14* below.

Table 5.14 Water Monitoring Stations for Contract no. HK/2010/06

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C2	Telecom House	835647.9	815864.4
P1	HKCEC Phase I	835774.7	816179.4

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

- 5.4.21. 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.
- 5.4.22. 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.
- 5.4.23. 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 M	lonitoring Stations	for Contract no.	HY/2009/15
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Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C6	Excelsior Hotel	837009.6	815999.3
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.

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

- 5.4.24. 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.
- 5.4.25. 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.

Table 5.16 Water Monitoring Stations for Contract no. HY/2009/19

Station Ref.	Location	Easting	Northing
Cooling Water Inta	ke		
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6

Remarks: C8 and C9 monitoring commenced on 28 Jan 2012 and suspended on 30 March 2013.

- 5.4.26. 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.
- 5.4.27. 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.
- 5.4.28. 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.
- 5.4.29. 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.
- 5.4.30. 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

	Water			Mid-	flood			Mid-ebb					
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	4	5	0	3	0	0	0	8	0	2
	C1	0	0	1	0	0	0	2	0	1	0	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	1	0	0	0	0	0	0	0	0	0
HK/2009/02	WSD21	3	3	1	1	0	4	4	3	2	0	0	1
Monitoring started on 8 Feb 2012	WSD9	0	0	2	0	0	1	0	0	1	0	0	0
	WSD17	0	0	2	2	0	0	0	2	1	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	1	3	0	0	0	0	1	1	0	0
HY/2009/15	C7	1	1	0	0	0	0	0	1	1	0	0	0
Total		4	4	12	11	0	8	6	6	7	9	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
- 5.4.31. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the **Section 6.4**.
- 5.4.32. 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 Water Monitoring no. Station		Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
	C6	0	0	0	0
HY/2009/15	C7	2	1	5	0
111/2009/13	Ex-WPCWA SW	1	3	1	5
	Ex-WPCWA SE	7	2	1	6
Total		10	6	7	11

- 5.4.33. There were 17 action level exceedances and 17 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**.
- 5.4.34. 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.
- 5.4.35. 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 no non- inert C&D waste was recycled 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	539.87	30626.475	TKO137, TM38
Inert C&D materials recycled, m ³	0	5104.5	N/A
Non-inert C&D materials disposed,	17.8	1459.06	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	1831.24	241130.900	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	78.29	1159.47	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	0	8836	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	184167 (Bulk volume)	South of Cheung Chau

Contract No. HK/2011/07



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

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

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed,	NIL	141579.2	Tuen Mun Area 38
m^3	NIL	65216	TKO137 FB
Inert C&D materials recycled,	NIL	304	ex-PCWA
m^3	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), m³	0 (Bulk Volume)	100208 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	0 (Bulk Volume)	218665 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	7,050 (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	24456.09	242394.91	TM38
Inert C&D materials recycled, m ³	0	51347.97	N/A
Non-inert C&D materials disposed, m ³	32.95	438.28	N/A
Non-inert C&D materials recycled, kg	0	284.56	N/A
Chemical waste disposed, L	0	0.62	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	162	South Cheung Chau



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

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

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	0	1175	TM38
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	0	20	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m³	13810	13810	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	26562	80786	South of The Brothers (from 27 Aug 2013 onwards)

Remarks: The cumulative quantity-to-date of non-inert C&D materials disposed in m³ was updated in this reporting month.

5.5.12. There was marine sediment 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

Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

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	NII	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
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	Nil	Nil	N/A



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

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

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.

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

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.

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

6.1.5 Two limit level exceedances were recorded on 3 and 16 October 2013 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Investigations found that on3 and 16 October 2013, major traffic noise was contributed 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

6.1.1. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 30 Sep, 2, 4, 5, 7, 8, 9, 21 and 23 Oct 2013. After checking with contractor, no major noisy construction activities were conducted at the concerned location by the Contractor during the recorded period and on-going large scale breaking works and piling works at adjacent non-CWB Project construction site were observed undertaken in the reporting month. As such, the exceedances were considered as non-project related.

6.3 Air Monitoring

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

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.

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island</u> 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 September, 2, 4, 9, 11, 15, 17, 19 and 21 October 2013 during flood tide and ebb tide, confirmed with Contractor, silt screen was in proper condition. In view of the transition period from wet season to dry season and no further exceedance, the exceedances was considered not project related.
- 6.4.2 There were turbidity exceedance recorded at P5 on 15 October 2013 during flood tide, confirmed with Contractor, silt screen was in proper condition. No marine works was conducting during water quality monitoring. In view of the transition period from wet season to dry season and no further exceedance, the exceedances was considered not project related.
- 6.4.3 There were occasionally DO and turbidity exceedances recorded at C1 in this reporting month. Confirmed with Contractor, silt screen was in proper condition. No marine works was conducting during water quality monitoring. In view of the transition period from wet season to dry season and no further exceedance, the exceedances was considered not project related.

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

- October 2013 during Flood and Ebb tide. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. Additional water diffuser system was installed at water quality monitoring station WSD21 after Ebb tide on 11 October 2013. DO level was observed improved to normal level during flood tide on 11 October 2013. The new set water diffuser was noted suspended during water quality monitoring during both flood and ebb tide on 15 October 2013 and the diffuser was restored on 16 October 2013 and additional water diffuser system was installed at abandon SHK pumping station on 16 October 2013. DO level was observed improved since 16 October 2013 after installation of water diffuser at monitoring station WSD21 and the abandoned SHK intake well. In view of the transition period from wet season to dry season and no marine work was conducted on those days, the exceedances was considered not project related.
- 6.4.5 There were occasionally turbidity and SS exceedances at WSD21 on 30 September, 7, 11 and 21 October during flood and ebb tide in this reporting month. Confirmed with Contractor, there

was no marine work conducted during the water quality monitoring and in view of the transition period from wet season to dry season, the exceedances was considered not project related..

- 6.4.6 There were occasionally DO and turbidity exceedances at WSD17 recorded on 30 September 2, 9, 15 and 21 October 2013 during flood and ebb tide in this reporting month. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. In view that no marine work was conducted on that day and due to the transition period from wet season to dry season, the exceedances was considered not project related.
- 6.4.7 There were occasionally turbidity exceedances at WSD recorded on 7, 11and 21 October 2013 during flood and ebb tide in this reporting month. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. In view that no marine work was conducted on that day and due to the transition period from wet season to dry season, the exceedances was considered not project related.
- 6.4.8 There was occasionally turbidity exceedance at RW21-P789 recorded in this reporting month. After checking with the contractor, filling work was conducting in the vincity of the monitoring location at TWCR4. In view that the transition period from wet season to dry season and the silt curtain were in proper condition, the exceedance was considered not project related.

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

- 6.4.9 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.
- 6.4.10 There were occasionally DO exceedances at C7 recorded in this reporting month. No odour nuisance was noted during DO monitoring. After checking with Contractor, there was no marine work undertaken at C7. The exceedances were possible in relation to the low flow near the intake and considered not related to the Projects works.
- 6.4.11 There was turbidity exceedance at C7 recorded on 4 October during ebb tide in this reporting month. Confirmed with Contractor, there was no marine work conducting during the water quality monitoring. In view that the transition period from wet season to dry season and the silt screen was in proper condition, the exceedance was considered not project related.

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

6.4.12 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

6.4.13 No exceedance was recorded in this reporting month.



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

6.4.14 There was turbidity and SS exceedance recorded at WSD19 on 30 September, 2, 4, 9, 11, 15, 17, 19 and 21 October 2013 during flood tide and ebb tide, confirmed with Contractor, dredging works was conducted by Contractor HK/2012/08 during monitoring since 4 October 2013. Mitigation measures for marine works including framed silt curtain was confirmed in place. In view of the transition period from wet season to dry season and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project 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.

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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 (September 2013) of Central Reclamation Phase III (CRIII), modification to the junction of Road D8 and Road P2; paving and landscaping work behind GPO boundary wall; and additional run-in at Road P2 footpath (north bound) outside ESB S8.1 were performed in the October 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, 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. Five site inspections for Contract no. HK/2009/01 was carried out on 2, 9, 17, 23 and 30 October 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
131009_01	9-Oct-13	Measure should be provided for reducing the noise generated from breaking works (water channel)	The excaator with breaker was removed.	Completion as observed on 16 Oct 2013
131017_01	17-Oct-13	from leaking from machinery	Machine was repaired and prevented from leaking oil.	Completion as observed on 23 Oct 2013
131023_01	23-Oct-13	drainage (Convention Avenue)	Sedimentation tank was provided prior to discharging.	Completion as observed on 30 Oct 2013
131023_02	23-Oct-13	, ,	plant was removed.	Completion as observed on 30 Oct 2013

8.0.3. Four site inspections for Contract no. HK/2009/02 was carried out on 3, 10, 16 and 24 October 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	()hservations	Action taken by Contractor	Outcome
131003_01		1 9	Stagnant water was removed.	Completion as observed on 10 Oct 2013

8.0.4. Four site inspections for Contract no. HY/2009/15 was carried out on 2, 8, 15 and 22 September 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 Outcome
			Contract	tor	



Item	Date	Observations	Action taken by Contractor	Outcome
131002_01	2-Oct-13	Provide stopper to drip tray to prevent leakage and clear the leaked oil as chemical waste	Stopper was provided to the drip tray	Completion as observed on 8 Oct 2013
131008_01	8-Oct-13	Provide Tarpaulin sheet for derrick barge during excavated material transfer	Tarpaulin sheet was provided	Completion as observed on 15 Oct 2013.
131008_02	8-Oct-13	Provide drip tray to oil containers	Oil containers were removed.	Completion as observed on 22 Oct 2013.
131008_03	8-Oct-13	Cleared the leaked oil as chemical waste	The leaked oil was cleared as chemical waste.	Completion as observed on 22 Oct 2013.
131015_01	15-Oct-13	Provide covering to dusty stockpile material (TS2)	Covering was provided to stockpile	Completion as observed on 22 Oct 2013.
131015_02	15-Oct-13	Clear the contaminated effluent accumulated at the temporary drainage as chemical waste (TS2)	Contaminated effuent was cleared	Completion as observed on 29 Oct 2013
131015_03	15-Oct-13	Clear the leaked oil as chemical waste	Leaked oil was cleared as chemical waste.	Completion as observed on 22 Oct 2013.
131022_01	22-Oct-13	Clear the leaked oil as chemical waste (TS2)	Leaked oil was cleared as chemical waste.	Completion as observed on 29 Oct 2013

- 8.0.5. Four site inspections for Contract no. HK/2010/06 was carried out on 30 September, 7, 17 and 21 September 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 3, 9, 16 and 23 October 2013 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.4*.

Table 8.4 Summary of Environmental Inspections for Contract no. HY/2009/19

Item	Date	Observations	Action taken by	Outcome
			Contractor	
			Sandbag have	
		Embarkment should be provided to	been provided	
		site exit to collect the wheel washing	and wheel	Completion
131003_01	3-Oct-13	runoff properly to prevent overflow to	washing runoff	as observed
		public road and drainage (Watson	were properly	on 9 Oct 2013
		Road)	collected to water	
			treatment point.	

8.0.7. Four site inspections for Contract no. HK/2012/08 were carried out on 30 September 8, 15 and 22 October 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	Action taken by Contractor	Outcome
131015_01		 	Completion as observed

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Item	Date	Observations	Action taken by Contractor	Outcome
				on 22
				October 2013
131015_02	15-Oct-13	Silt curtain should be properly	Silt curtain was	Completion
_		deployed. (West bridge)	properly	as observed
			deployed.	on 22
				October 2013

8.0.8. Four site inspections for Contract no. HY/2010/08 was carried out on 3, 11, 17 and 24 October 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/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
131017_01	17-Oct-13	Provide protection to exposed soil slope near public road to prevent runoff	Additional embarkment was provided.	Completion as observed on 24 Oct 2013
131024_01		Clear the leaked oil as chemical waste (Victoria Park)	Leaked Oil have been cleared	Completion as observed on 30 Oct 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
October 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.

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- 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	 Filling works up to +4.0mPD between CH360 to CH370. Construction of RC structure proposed box culvert Bay 8 Wall and Bay 9 Base slab. D-wall construction at Stage 3. Outfall construction for discharge pipes at Expo Drive East. Cooling Watermains, Salt Watermains and Sewer (On Land) Salt watermain laying works would be continued along west of Convention Avenue to Fenwick Pier Street in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 & A5-2 and at Convention Avenue near Grand Hyatt hotel in Zone A1-5C, A1-5B & A1-5A3. Road advance works at the junction between Expo Drive East & Expo Drive Central and nearby area. 	 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
	 Cooling main laying works along Expo Drive East to Fleming Road for BF, BI & BG discharge system. Tunnel Works Installation of pre-bored H-pile in CWB Stage 2 Atrium Link. Construction of the south Common D-wall. Advance works for demolition of the HKCEC Pump home. ELS for Stage 1 CWB. 	
HK/2009/02	 60-day trial operation of P7 cooling water system. Leakage rectification works for P8 discharge mains at Ex-Pet Garden. Flexible joint rectification works for P8 discharge mains at CHBH152m. Hatch box replacement for P7 intake mains. Butterfly valve dismantling works for P7, P8 and P9 system. All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations. Connection with the existing DN600 salt watermains at Hung Hing Road. Water tightness test for Salt Water Intake Culvert. Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping 	 To cover the dusty material or stockpile by impervious sheet; Frequency spray water on the dry dusty road and on the surface of concrete breaking To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission To conform the installation and setting as in the silt screen and silt curtain deployment plan Movable noise barrier shall be deployed for demolition works Daily visual inspection of silt screen and silt curtain to ensure its operation properly Review silt screen deployment and silt curtain deployment and resubmit associate plans to EPD Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.



	Station. Outstanding works at WSD Salt	
	 Water Pumping Station. Box Culvert N1 & Drain FRP-N and handed over to DSD Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1. ABWF works in Ferry Pier. Rectifying defects in movable ramp. Most of the individual T&C of E&M equipment at Ferry Pier Installation works for FRP Enclosure at 1/F public area, 2/F and staircase in Ferry Pier. Utility works and commence EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier. All outstanding interface coring for Eastern Bulkhead for substantial completion of Section IXA of the Works. Filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4. Backfilling and roadworks at Hung Hing Road & Wan Shing Street for successful implementation of HHR Flyover Diversion (Stage 1) on 2 Nov 	
HY/2009/15	Construction of EVA	Daily visual inspection of silt screen and silt curtain to ensure its operation properly

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Contract No.	Key Construction Works	Recommended Mitigation Measures
		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	D-wall and Barrette Construction	To conform the installation and
	Removal of strut at ELS	setting as in the silt screen and silt curtain deployment plan
	 Construction works for Box Culvert T1 	ситані черюуніені ріан
	Removal of marine platform	
	Construction of pile cap, pier &	
	cross head (Marine)	
	ELS 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	
	Demolition of parapet at IEC link	
	Construction of King Post at ELS	
HK/2012/08	Site survey	To conform the installation and
	Dredging	setting as in the silt screen and silt
	 ELS for box culvert L at Lung King 	curtain deployment plan
	Street	 To space out noisy equipment and position as far as possible from
	 Works for abandoning watermains 	sensitive receiver.
	at Lung King Street	
	Caisson seawall units installation	
	and marine filling	



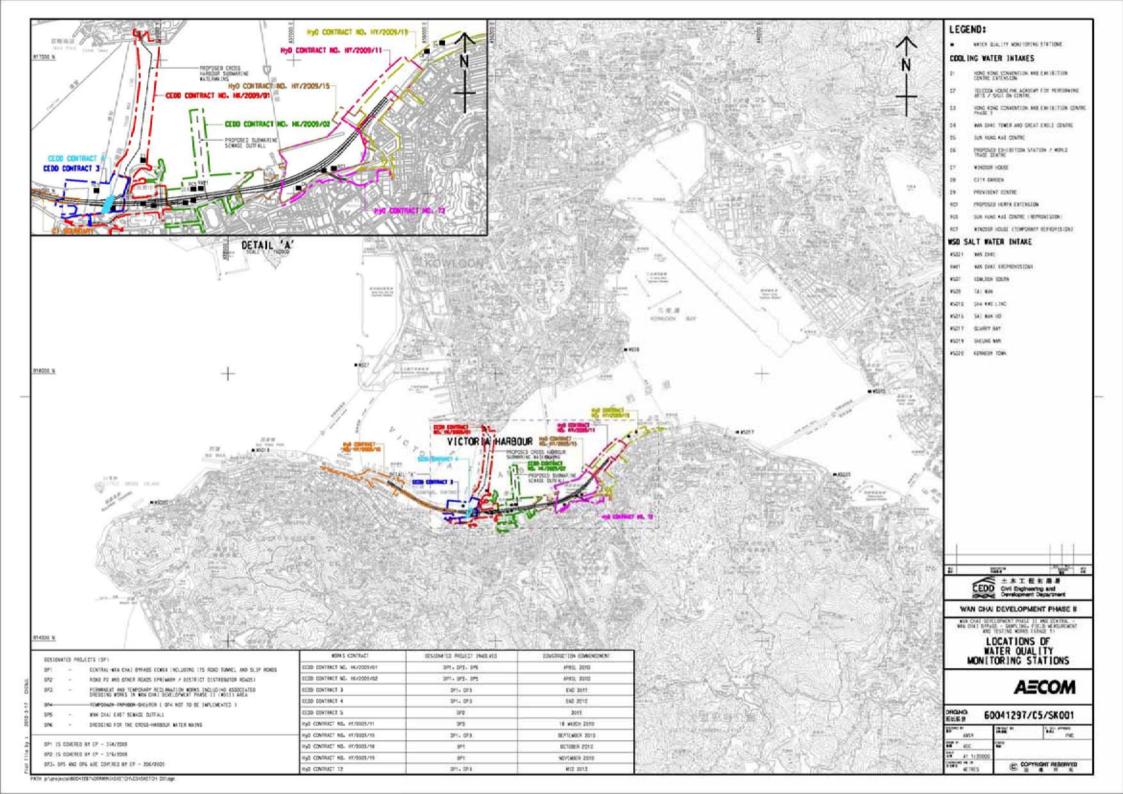
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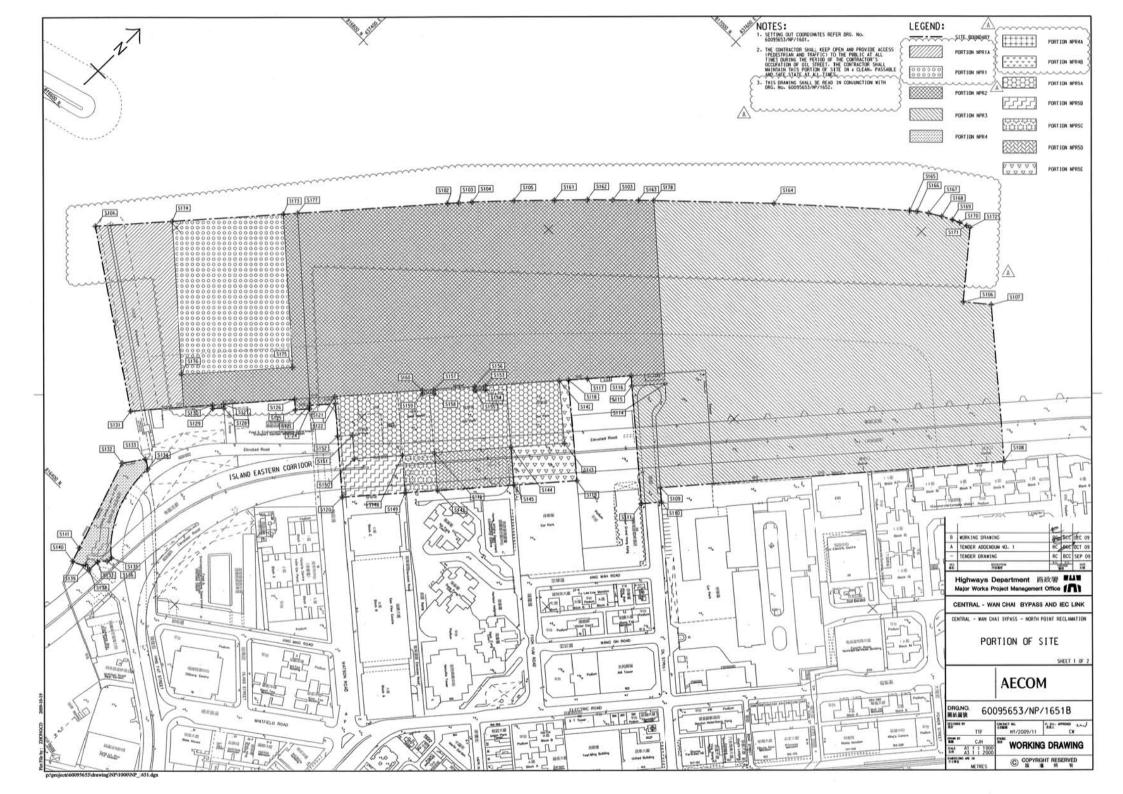
Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (October 2013)

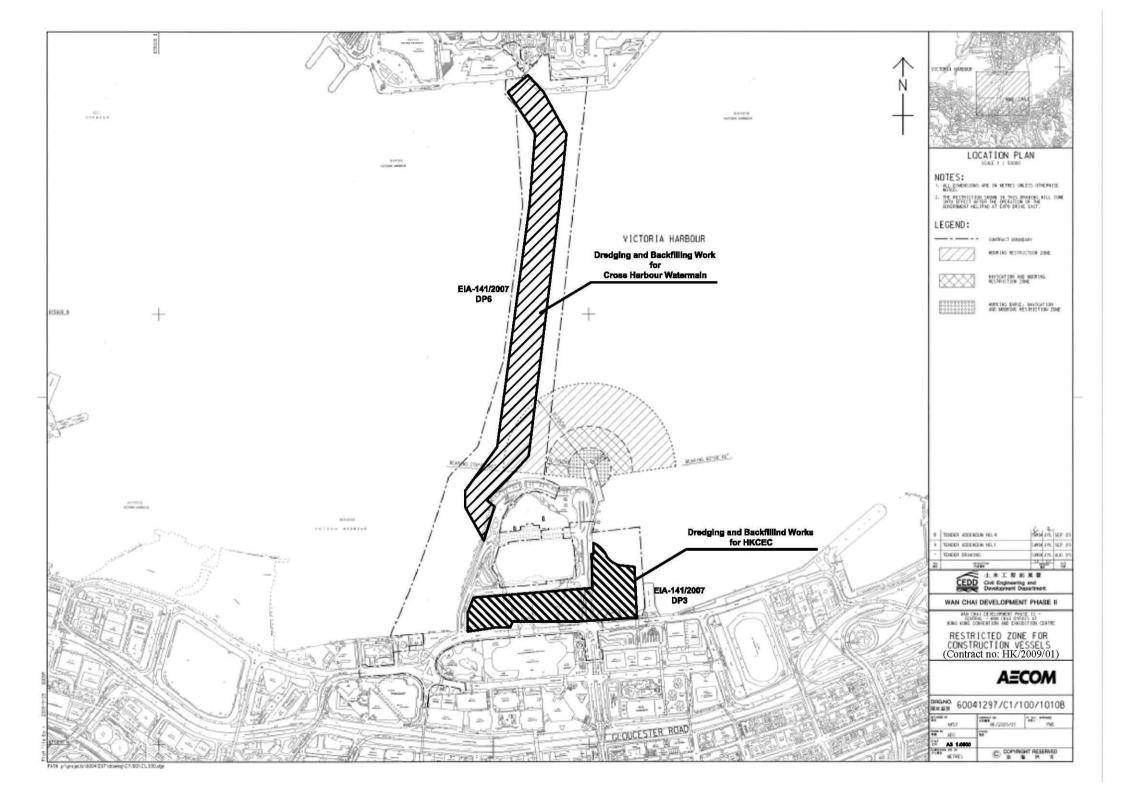
Key Construction Works	Recommended Mitigation Measures
• Nil	• Nil
	•

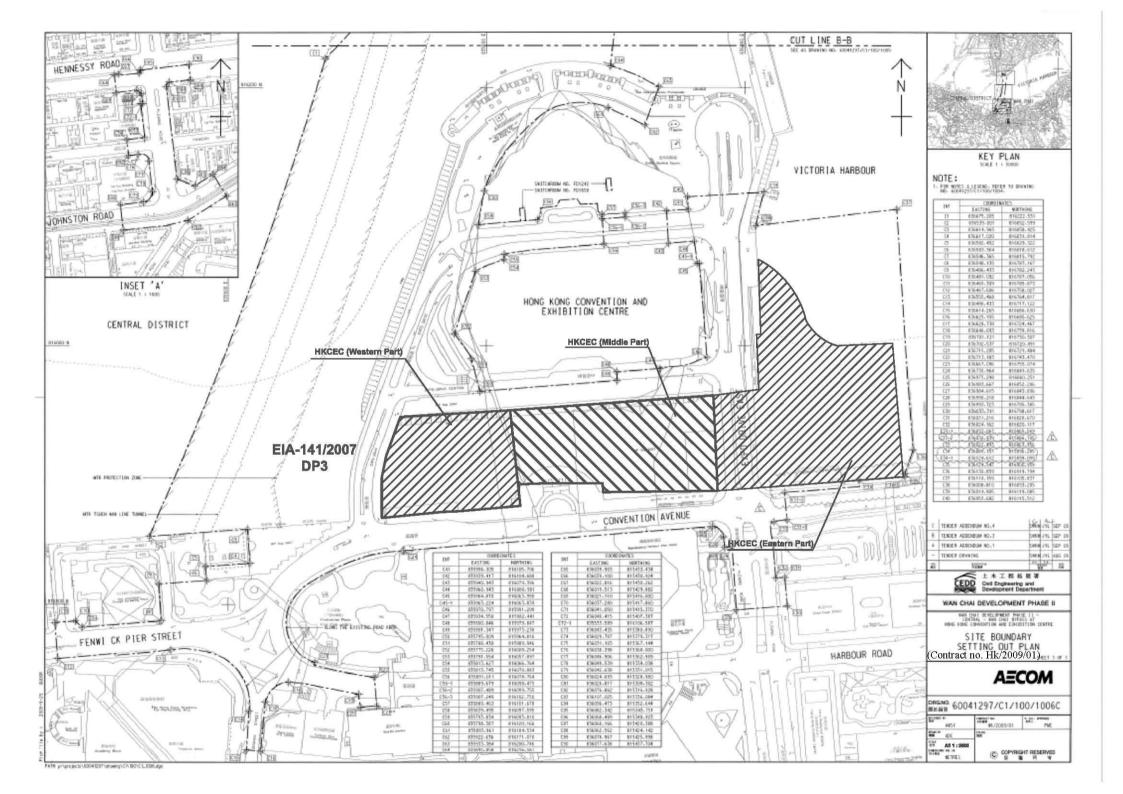
Figure 2.1

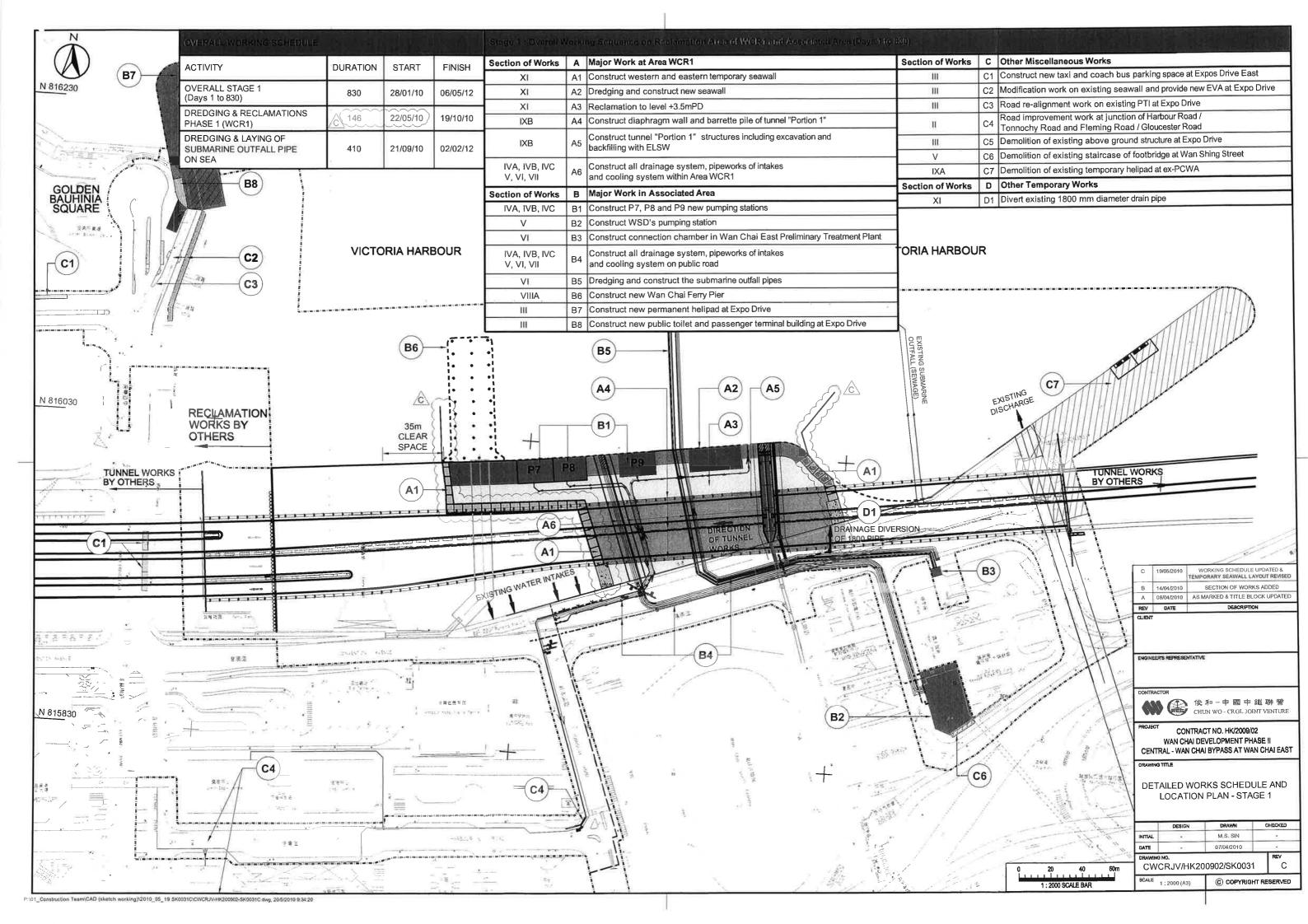
Project Layout

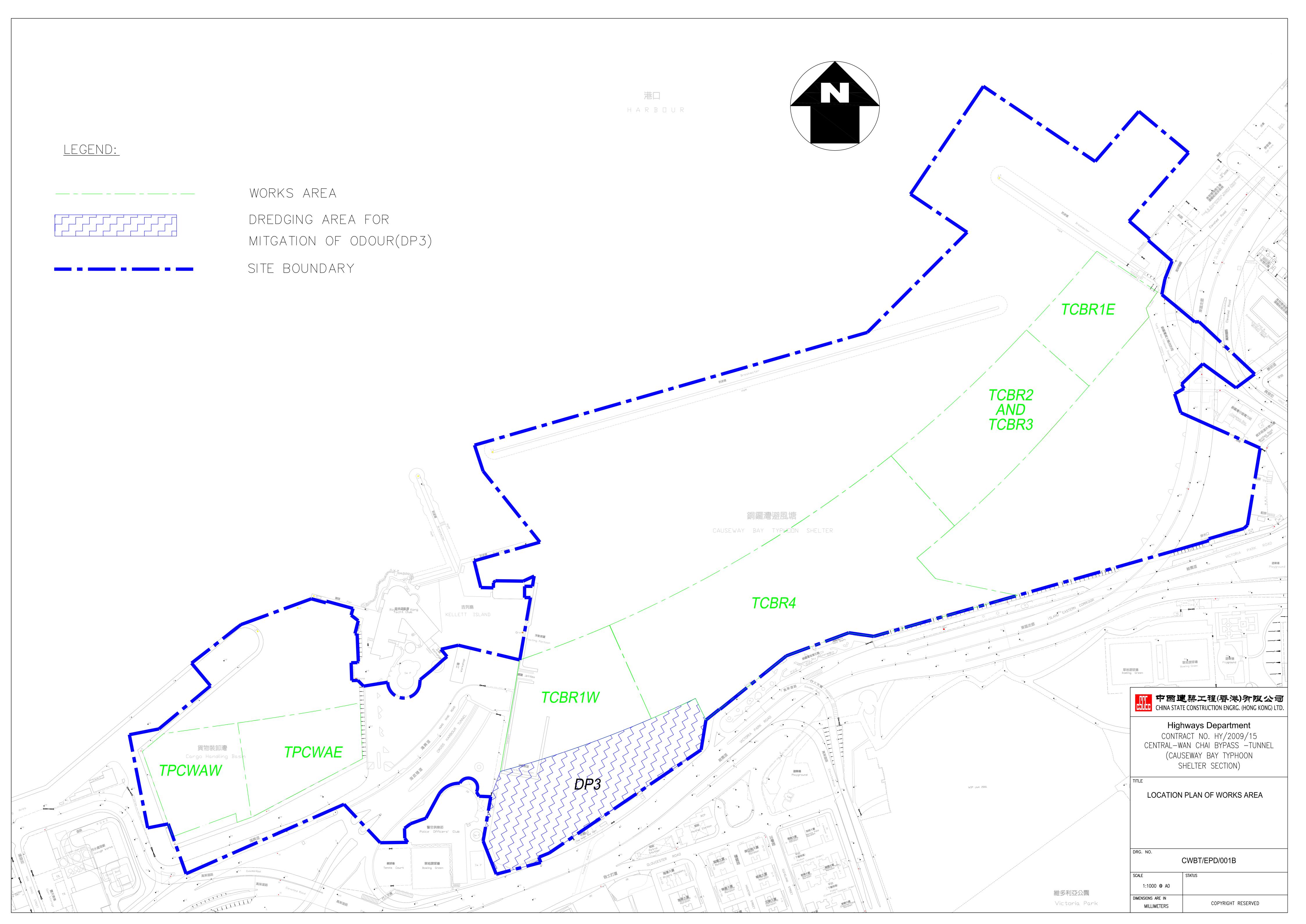












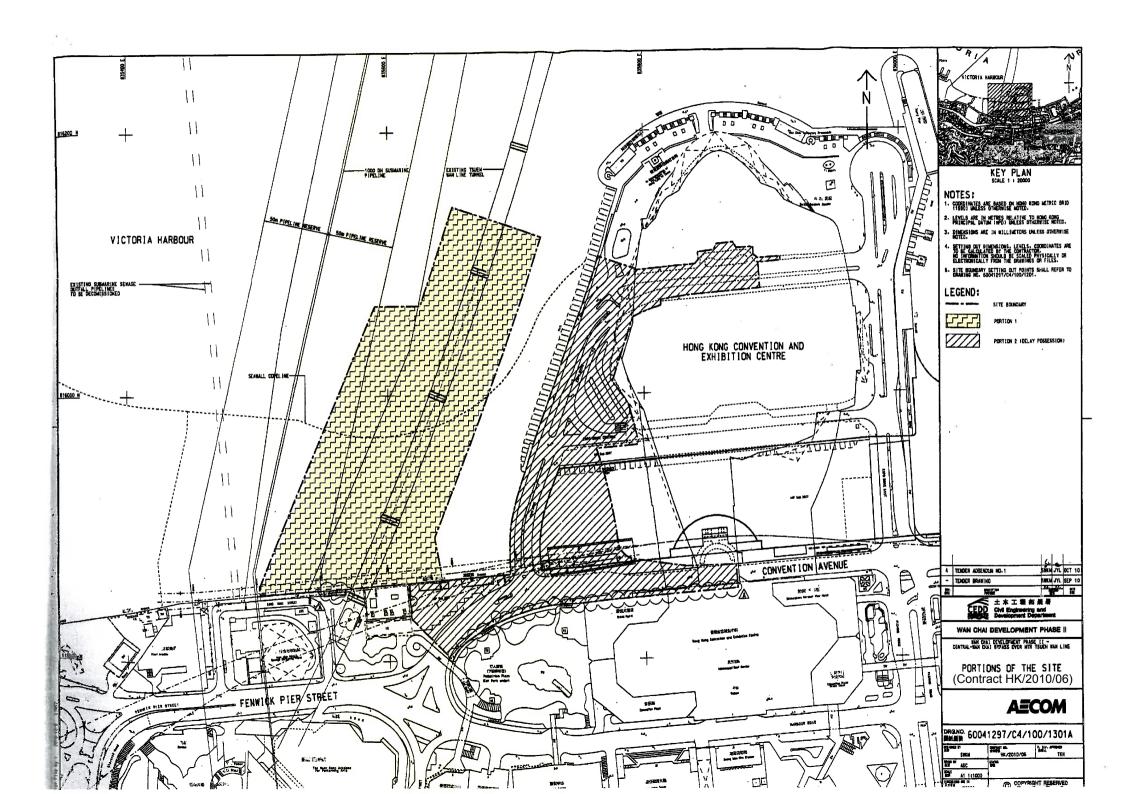


Figure 2.2

Project Organization Chart

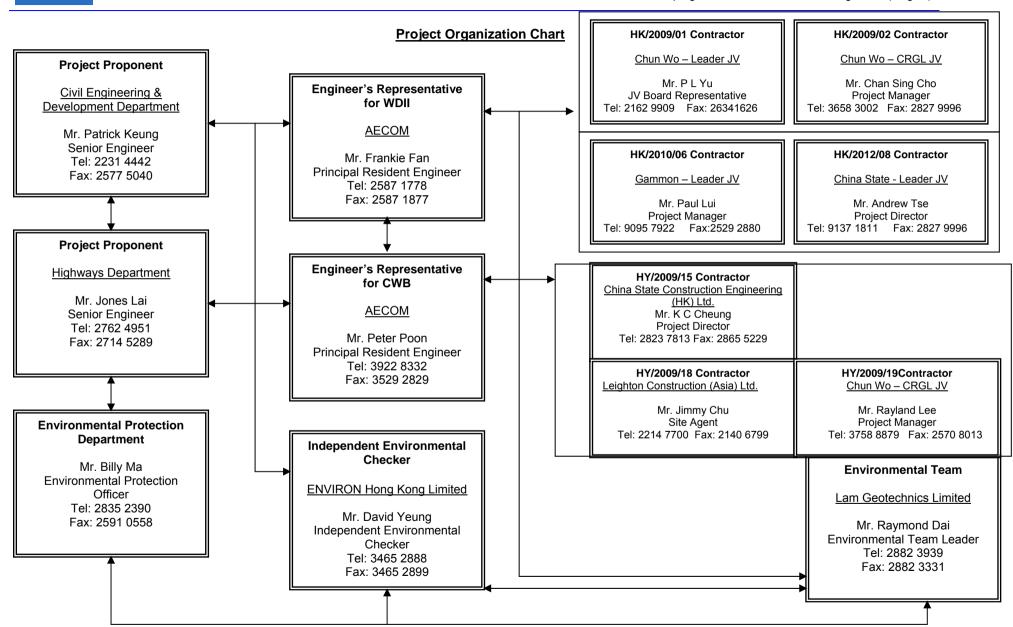
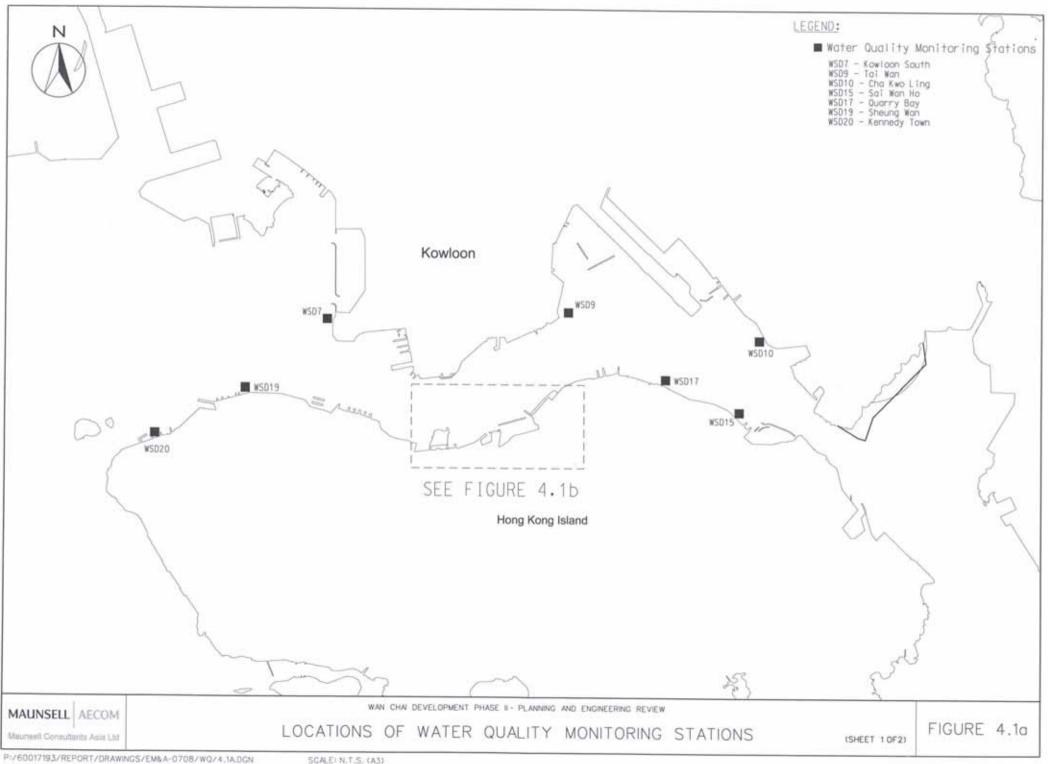
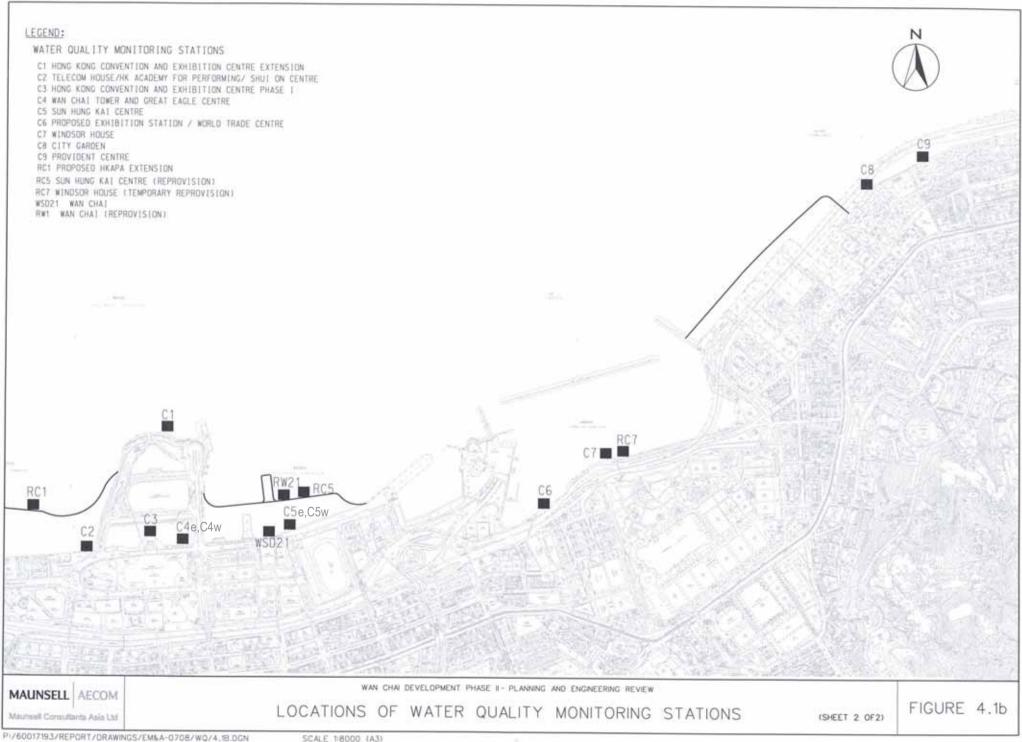
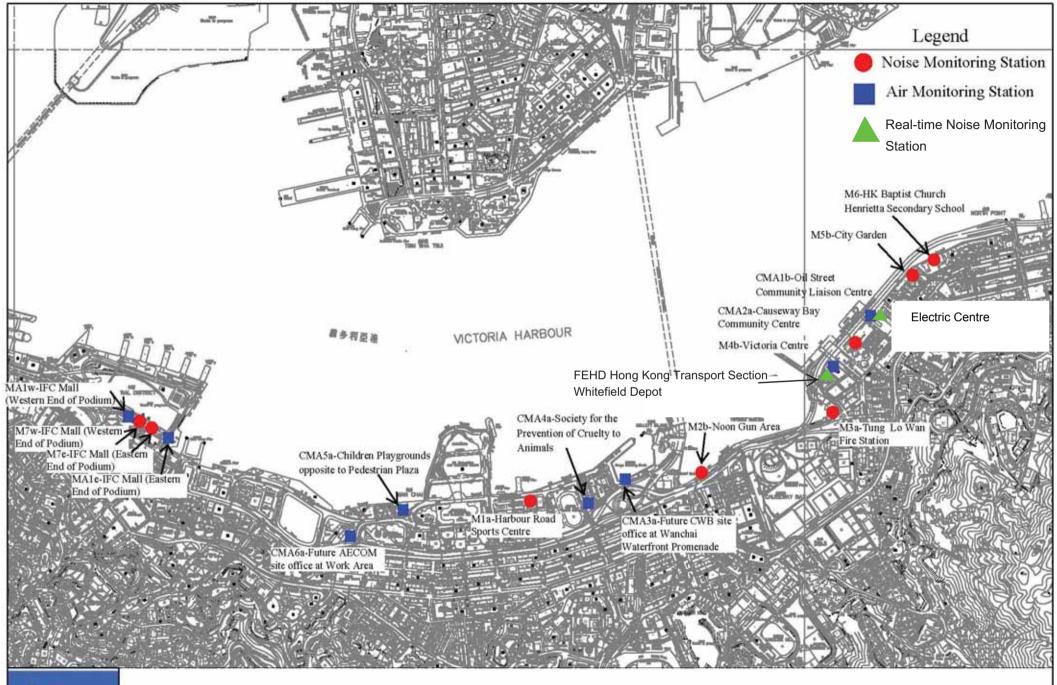


Figure 4.1

Locations of Monitoring Stations

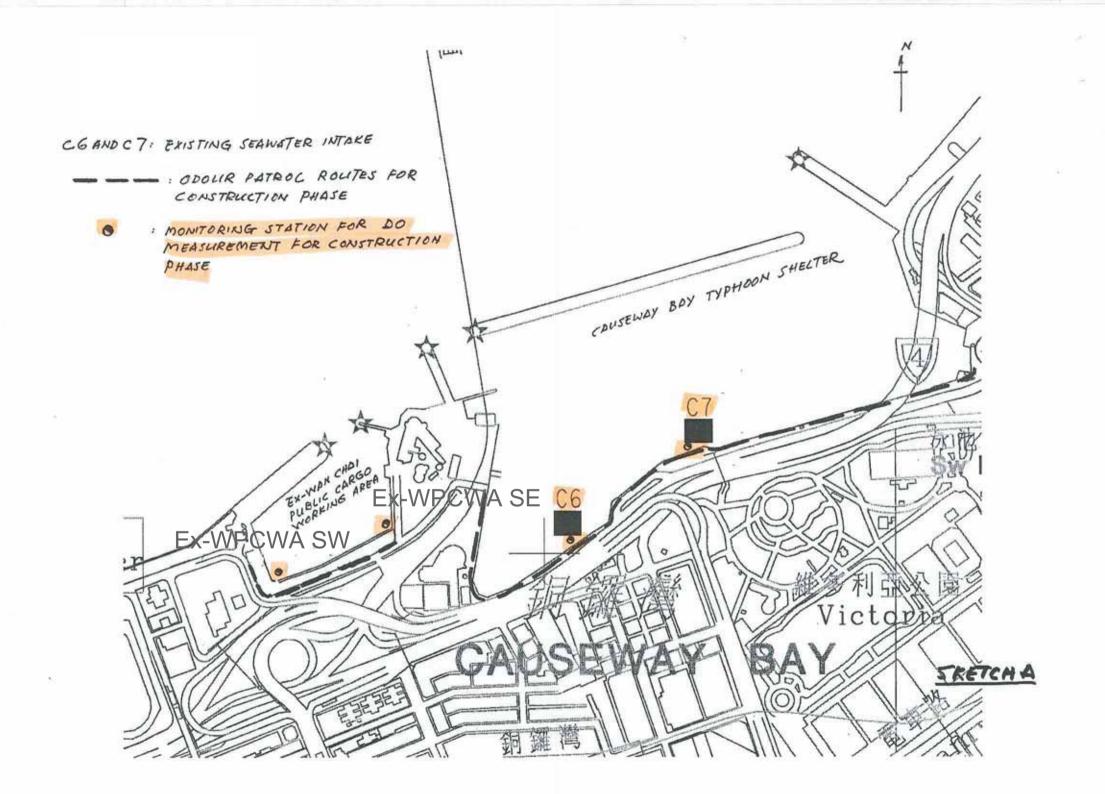


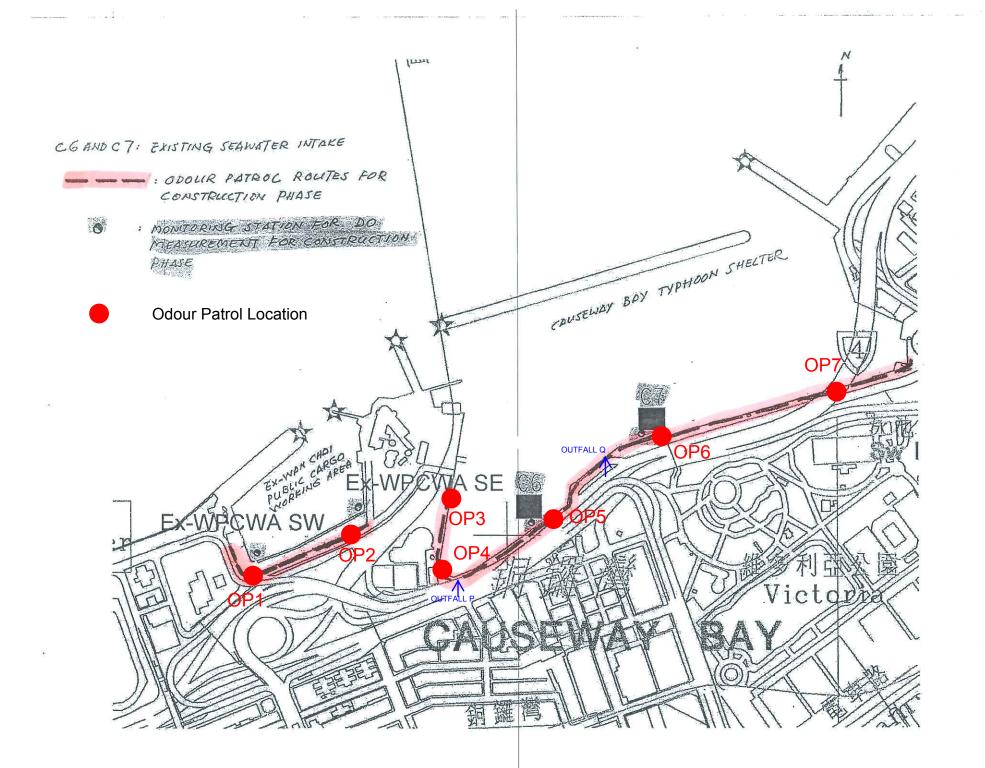


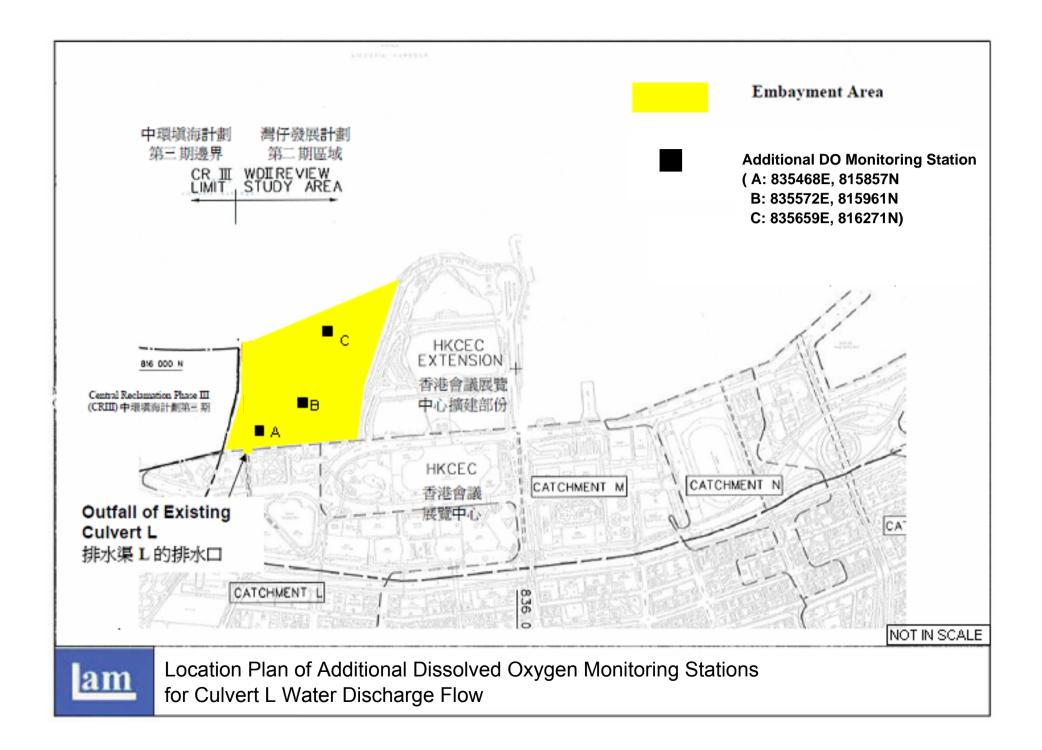


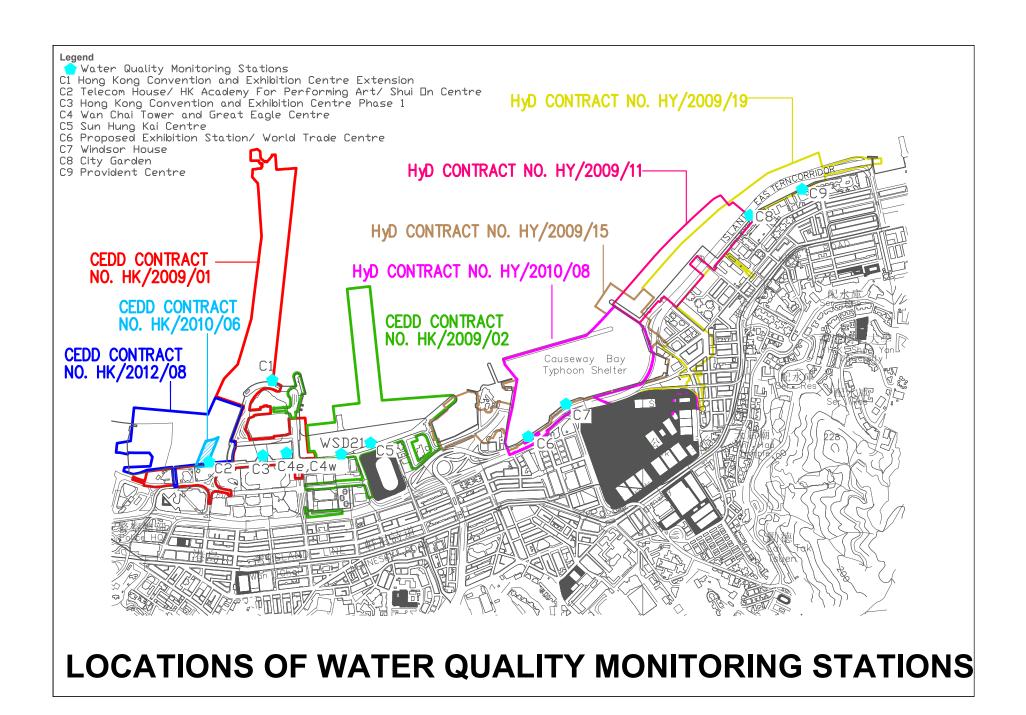
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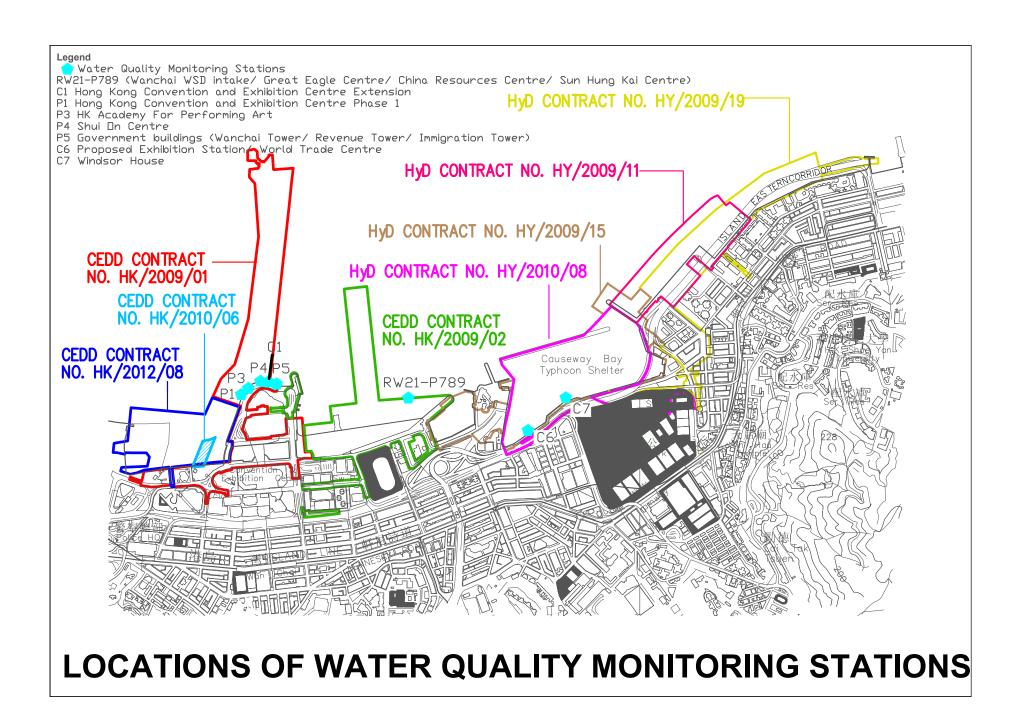
Location plan of Environmental Monitoring Stations

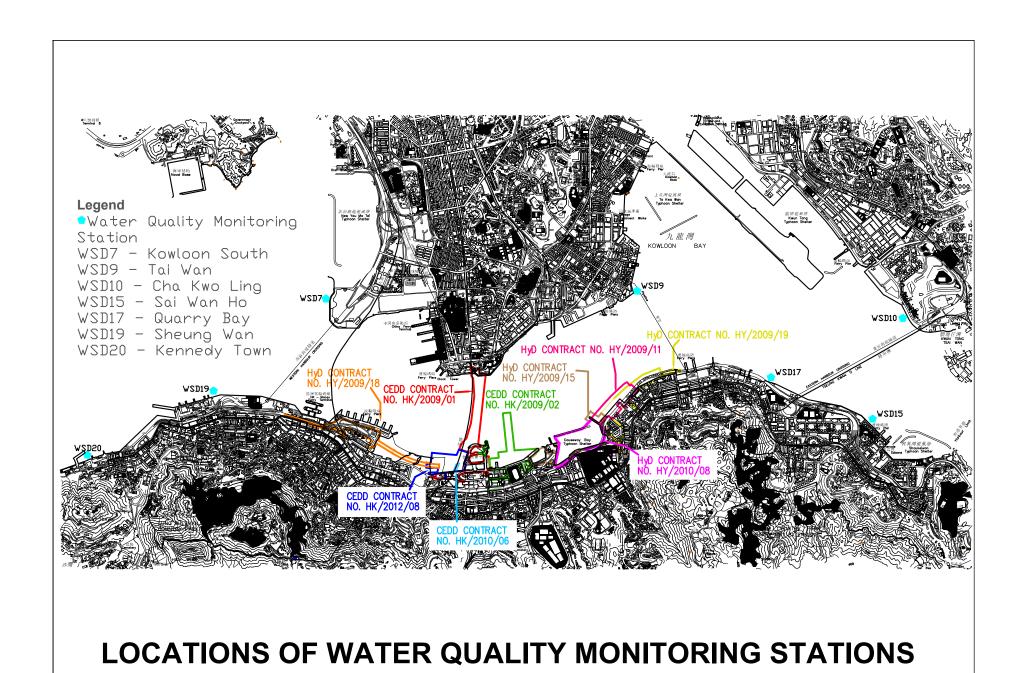


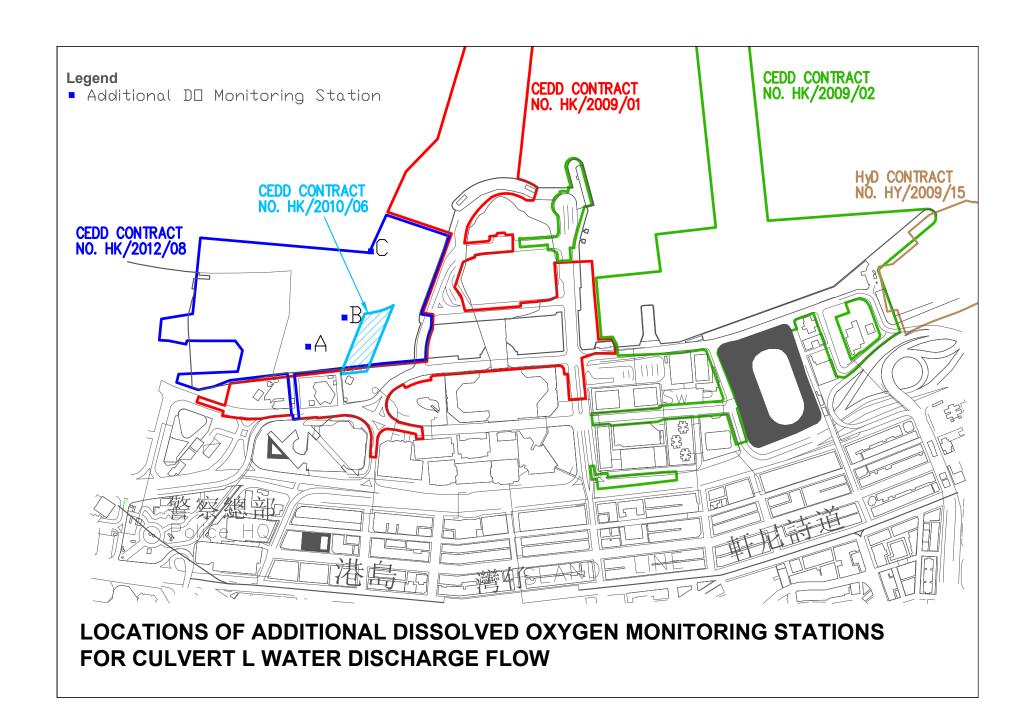












Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
	9	8	Agent	Des	C	o	Dec	and Guidelines
Constructio								
For the Who	ole 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		٨			

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
2111111	David of the control	Document, Timing	Agent	Des	C	0	Dec	and Guidelines
\$3.5.6	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 <u>1</u>		√			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		1			EIAO-TM
Operation I	Phase	I	I	1	1	1	1	l
For the Who	ole Project		·					·

¹ CEDD will identify an implementation agent.

 $^{^{\}rm 2}$ CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	Zarra omnosta i i oceonom svenom cos y svaneganiom svenom co	200mion / 11ming	Agent	Des	C	0	Dec	and Guidelines
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 ongoing odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			√		EIAO-TM
For DP1 - 0	CWB (Within the Project Boundary)							
S3.6.53 -	The design parameters of the East and Central Ventilation	East and Central	HyD			1		
S3.6.54	Buildings as set in Tables 3.10 and 3.11	Ventilation Buildings / During operation of the Trunk Road						
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			1		EIAO-TM

• Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 3.1

Contract no. HK/2011/07

 $\label{thm:chain} \mbox{Wan Chai Development Phase II and Central-Wanchai Bypass}$

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

Construction Phase	EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	1 .	entati ges* O	on Dec	Relevant Legislation and Guidelines
Constituction I mast	Constructio	n Phase							

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
22.2.10.	Zivi oznacima 11000000 izanom oz viniginom izanom oz	Location / Timing	Agent	Des	C	0	Dec	and Guidelines
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 onsite construction activities. 	Work Sites / During Construction	Contractor		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			EIAO-TM, NCO
For DP1 –	CWB (Within the Project Boundary)							

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
S4.8.5 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		V			EIAO-TM, NCO
	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		V			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		V			EIAO-TM, NCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	Relevant Legislation	
			Agent	Des	C	О	Dec	and Guidelines
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		1			EIAO-TM, NCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
23.110.	22.77 omiliani i roccion vicinii co / 17.11.gation vicinii co	zocation, riming	Agent	Des	C	0	Dec	and Guidelines
Operation 1	Phase							
For DP1 -	CWB (Within the Project Boundary)							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	O	Dec	and Guidelines
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	Near North Point / Before commencement of operation of road project	HyD	V	√	√ ·		EIAO-TM
	 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 	panel with						
	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 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	√	√#			

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		g	Agent	Agent Des C O De	Dec	and Guidelines		
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project					
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
		Temple	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 /	Implementation	Implementation Stages*				Relevant Legislation
		Timing	Agent	Des	C	О	Dec	and Guidelines
Construction	on Phase							
For DP3 - Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	sim Sh	a Tsu	i), DP	1 – CW	B (within the Project
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		V			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		V			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		1			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / N	Aitivation Measures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
21.1101	Zarva omnestus a rocculos preusures y a	inigation measures		Timing	Agent	Des	C	О	Dec	and Guidelines
S5.8	The water body behind the temporary rec typhoon shelter shall not be fully enclosed		Causeway Bay	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the acc within the temporary embayment be	tween CRIII and	HKCEC1, an	Work site / During the	Contractor		√			EIAO-TM, WPCO
	impermeable barrier, suspended from a and extending down to the seabed, will the HKCEC1 commences. The barr discharge flows from Culvert L to the contractor will maintain this barrier HKCEC2W are carried out and the new C	construction period								
S5.8, Figure 5.3	The total dredging rates in each of the m than the maximum production rates state production rates without considering the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO		
	Reclamation Area	Maximum Dredging Rate m³ per	Maximum Dredging Rate							
	m³ per day (for 16 hrs week)									
		Dredging along seawall or breakwater								
	North Point Shoreline Zone (NPR)	6,000 375	42,000							
	Causeway Bay TBW	1,500 94	10,500							
	Shoreline Zone TCBR	6,000 375	42,000							
ı	PCWA Zone	5,000 313	35,000			1	1	1	1	

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
21.1.10.	Zinyi olimetikii 1 (veettoi iliteriori oo / iliteriori oo / iliteriori oo	Timing	Agent	Des	C	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) 6,000 375 42,000 HKCEC Shoreline Zone HKCEC Stage 1 & 3 1,500 94 10,500 (HKCEC) HKCEC Stage 2 6,000 375 42,000 Cross Harbour Water Mains 1,500 94 10,500 Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ 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		V			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		V			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		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Interim Construction Location of Applications	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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2111101	Zini o mio mio mio mio mio mio mio mio mio	Timing	Agent	Des	C	0	Dec	
	TBW, NP and Water Mains Zone To Scenario 2B in late 2009/2010 with concurrent activities at Sewage Pipelines Zone and TCBR. 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 WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR. 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.							
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	construction period	Contractor		1			ProPECC PN 1/94; WPCO (TM-DSS)
	vessels and the seabed in all tide conditions, to ensure that undu- turbidity is not generated by turbulence from vessel movement o propeller wash;	r						
	 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 o other objectionable matter to be present on the water within the site o 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	t						

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation Agent	In		entati ges*	on	Relevant Legislation
		Timing		Des	C	О	Dec	and Guidelines
	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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
		Timing	Agent	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 I 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/Imple mentation of harbour-front enhancement.	CEDD <u>*</u>		7			WPCO

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EIA Ref	Fr	nvironmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation	
LIA KU	Li	ivitolimental Protection (vicasures / (vittigation (vicasures	Timing	Agent	Des	C	0	Dec	and Guidelines	
For the Wh	ole .	Project					•			
S5.8	•	Construction Runoff and Drainage	Work site	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)	
	•	use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow;	/ During the constructi on period						wico (im-bss)	
	•	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								

 $^{^{\}rm 3}$ CEDD will identify an implementation agent.

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		Timing	Agent	Des	C	O	Dec	and Guidelines
	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		1			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		V			WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*				Relevant Legislation
	8	Timing	Agent	Des	C	o	Dec	and Guidelines
\$5.8	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 – CW	B (within the Project Boundary)							
\$5.8	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.	CWB/During design and operational period	HyD/TD ³	√		√		WPCO
	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,							

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	Zana omitoria a control a		Agent	Des	C	О	Dec	and Guidelines
	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

 $^{^{3}\,\}mathrm{if}$ 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	Ir	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines	
			Agent	Des	C	О	Dec	and Guidelines	
Construction	on Phase								
For DP3 -	Reclamation Works								
	Marine Sediments	Work site / During the construction period	Contractor		1			ETWB TCW No. 34/2002	
S6.7.2	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.								
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 Mm³. 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.								

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
	23. To same that I receive the same of the	Economy 1 mmng	Agent	Des	C	0	Dec	and Guidelines
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.							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation	
		g	Agent	Des	C	o	Dec	and Guidelines
	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		√			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
Ent itel	Environmental Protection Measures / Mitigation Measures	Document Timing	Agent	Des	C	О	Dec	and Guidelines
S6.7.7	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		1			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
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	7	7			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation and Guidelines
		_	Agent	Des	C	0	Dec	and Guidennes
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		V			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		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
\$6.7.12	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		1			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Stages			on	Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
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		1			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:	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	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.							

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

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- Sampling, Field Measurement and Testing Works (Stage 2)

Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
21.1101	23. To office the control of the con	Economy 11mmig	Agent	Des	C	0	Dec	and Guidelines
Construction	on Phase							
For the Wh	ole 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	V				"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	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	C	o	Dec	and Guidelines
	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

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
2111101	Zarra omnorma i i soccioni rizonsmico, rizongmico rizonsmicos	Document Timing	Agent	Des	C	O	Dec	and Guidelines
	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	In	nplem Sta	entati ges*	Relevant Legislation	
	Environmental Frotection Preasures / Pringation Preasures Location / Timing		Agent	Des	C	0	Dec	and Guidelines
	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 							

^{*} Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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- Sampling, Field Measurement and Testing Works (Stage 2)

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures Location / Timing Im	Implementation	Implementation Stages*			on	Relevant Legislation	
			Agent	Des	C	O	Dec	and Guidelines
Construction	on Phase							
For the Wh	ole 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	1				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation	
Ziii iii		Bookin, 1mmg	Agent	Des	Des C O Dec		Dec	and Guidelines	
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								

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
2111101	Ziriromina i roccion i zonomes, i zingmion i zonomes	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
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:	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	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.							
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		V			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	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir		entati ges*	on	Relevant Legislation and Guidelines
					Des	C	О	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	√	V			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 - CV	VB (With	in the Project Boundary)	1						
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		V			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	V	√			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	1			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		1			EIAO TM

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 – WD	II Maio	or Roads (Road P2)							
Table 10.5		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	1	V			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	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP3 - Rec	lamatio	n Works							
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP5 - War	n Chai I	East Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	СМЗ	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	on	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		V			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
	ss-Harb	our Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13		Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		V			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		V			EIAO TM
Operation Pha	se					-			
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	1	1	1		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	V	1	1		ETWB TCW 2/2004

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entat ges*	ion	Relevant Legislation and Guidelines
					Des	C	0	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/	√	√	√		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		and associated structures.	Design Stage and Operation Phases						
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 <u></u>	V	1	1		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	√	√	1		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	1	1	1		ETWB TCW 2/2004
For DP1 - CW	B (Withi	in the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	√		√		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Design Stage and Operation Phases						
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	V	1	1		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	1	1	1		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	1	1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas. *Roads (Road P2)	Work site / During Design Stage and Operation Phases	HyD	√	V	1		ETWB TCW 2/2004

⁴ CEDD will identify an implementation agent

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EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
					Des	C	0	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		V	V		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		1	1		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		V	1		ETWB TCW 2/2004
For DP3 - Rec	lamatio	n 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	CEDD⁵_	√	V	√		ETWB TCW 2/2004

^{*}Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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 $^{^{\}rm 5}$ CEDD will identify an implementation agent

Appendix 4.1

Action and Limit Level

Lam Geotechnics Limited

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 Leve	l in μ g/m 3	24-hour TSP Le	evel in μ 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		
r ai ailletei s	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



33624 Certificate No.

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4 Pages

Customer: Lam Geotechnics Limited

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

Order No.: Q31494

Date of receipt

30-May-13

Item Tested

Description : Digital Sound Level Meter

Manufacturer: B&K

Model

: Type 2236

Serial No.

: 2100736

Test Conditions

Date of Test:

3-Jun-13

Supply Voltage : --

Ambient Temperature :

 $(23 \pm 3)^{\circ}C$

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

Equipment No. Description

Cert. No.

Traceable to

S017

Multi-Function Generator

C127181

SCL-HKSAR

S024

Sound Level Calibrator

30620

NIM-PRC & SCL-HKSAR

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

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

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

Calibrated by

Liam Wong

3-Jun-13

Date:

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

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Certificate No. 33624

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Results:

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty: ± 0.1 dB

2. Level Stability: 0.0 dB

IEC 651 Type 1 Spec. : \pm 0.3 dB

Uncertainty: ± 0.1 dB

3. Linearity

3.1 Level Linearity

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

Uncertainty: $\pm 0.1 \text{ dB}$



Certificate No. 33624

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3.2 Differential level linearity

UUT Range	Applied	UUT Reading		
(dB)	Value (dB)	(dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.9	0.0	± 0.4 dB
	94.0	93.9 (Ref.)	- :=:	
	95.0	94.9	0.0	± 0.2 dB

Uncertainty: ± 0.1 dB

4. Frequency Weighting

A weighting

Frequen	су	Attenuation (dF	3)	IEC 651 Type 1 Spec.
31.5 H	Z	-39.6		$-39.4 \text{ dB}, \pm 1.5 \text{ dB}$
63 H	Z	-26.4		$-26.2 \text{ dB}, \pm 1.5 \text{ dB}$
125 H	Z	-16.3		- 16.1 dB, ± 1 dB
250 H	Z	-8.8		- 8.6 dB, ± 1 dB
500 H	Z	-3.3		- $3.2 dB, \pm 1 dB$
1 kH	Z	0.0	(Ref)	0 dB, ± 1 dB
2 kH	Z	+1.2		+ 1.2 dB, ± 1 dB
4 kH	[z	+0.9		+ 1.0 dB, ± 1 dB
8 kH	[z	-1.2		- 1.1 dB , $+ 1.5 \text{ dB} \sim -3 \text{ dB}$
16 kH	[z	-6.8		- 6.6 dB, + 3 dB \sim - ∞

Uncertainty: ± 0.1 dB

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	± 0.5 dB
$1/10^2$	40.0	39.8	
$1/10^{3}$	40.0	39.7	± 1.0 dB
1/104	40.0	39.5	

Uncertainty: $\pm 0.1 \text{ dB}$



Certificate No. 33624

Page 4 of 4 Pages

6. Filter Response

Filter	Setting	Attenuation (dB)	IEC 1260 Class 1 Spec.
125	Hz	-63.6	<- 61
250	Hz	-44.8	<- 42
500	Hz	-21.0	< - 17.5
707	Hz	-3.7	- 2 ~ - 5
1	kHz (Ref.)	0.0 (Ref.)	
1.41	4 kHz	-4.1	- 2 ~ - 5
2	kHz	-21.4	< - 17.5
4	kHz	-45.0	< - 42
8	kHz	-63.9	< - 61

Uncertainty: ± 0.2 dB

Remark: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure: 996 hPa
- 4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----



Certificate No.

34228

Page

1 of 2 Pages

Customer: Lam Geotechnics Limited

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

Order No.: Q31610

Date of receipt

21-Jun-13

Item Tested

Description: Sound Level Calibrator

Manufacturer: Rion

Model

: NC-73

Serial No.

: 10707358

Test Conditions

Date of Test: 25-Jun-13

 $(23 \pm 3)^{\circ}C$

Supply Voltage : --

Relative Humidity: (50 ± 25) %

Test Specifications

Ambient Temperature :

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the manufacturer's specification.

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

Main Test equipment used:

			T bla to
Equipment No.	Description Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	30259	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	30620	NIM-PRC & SCL-HKSAR
S041	Universal Counter	28347	SCL-HKSAR
S206	Sound Level Meter	30655	SCL-HKSAR
0200			

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

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

Calibrated by

25-Jun-13

Date:

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

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E



Certificate No. 34228

Page 2 of 2 Pages

Results:

1. Level Accuracy (at 1 kHz)

	Managed Value	Mfr's Spec.
UUT Nominal Value	Measured Value	
94 dB	93.88 dB	± 1 dB
7T UD	The state of the s	14 it

Uncertainty: ± 0.2 dB

2. Frequency Accuracy

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

Uncertainty: ± 0.1 %

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

4. Total Harmonic Distortion : < 0.2 %

Mfr's Spec. : < 3 %

Uncertainty: ± 2.3 % of reading

Remark: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. The above measured values were the mean of 3 measurements.
- 4. Atmospheric Pressure: 999 hPa

----- END -----

PILOT TESTING LIMTIED

Page 1 / 2

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: <u>DEREK LO</u>

WORK ORDER: HK1310015

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: <u>09/09/2013</u>
DATE OF ISSUE: <u>13/09/2013</u>

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:	e: 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

This report may not be reproduced except with prior written approval from Pilot Testing Limited.

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

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

This report may not be reproduced except with prior written approval from Pilot Testing Limited.

Information supplied by customer:

CONTACT: <u>DEREK LO</u> WORK ORDER: <u>HK1310017</u>

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: <u>09/09/2013</u>
DATE OF ISSUE: <u>13/09/2013</u>

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.:	1203006
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

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WORK ORDER: HK1310017

DATE OF ISSUE: 13th September, 2013

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203006
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	9.65	-3.5
40	42.0	+5.0
100	97.2	- 2.8
400	422	+5.5
1000	972	-2.8
	Tolerance Limit (±%)	10.0

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

Mr. Peter Lee

Director

This report may not be reproduced except with prior written approval from Pilot Testing Limited.

Information supplied by customer:

CONTACT: <u>DEREK LO</u> WORK ORDER: <u>HK1310007</u>

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: <u>30/07/2013</u> DATE OF ISSUE: <u>31/07/2013</u>

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	000000
Serial No.:	1203016	
Equipment No.:		
Date of Calibration:	31 July, 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

WORK ORDER: <u>HK1310007</u>
DATE OF ISSUE: <u>31st July, 2013</u>

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203016	
Equipment No.:		
Date of Calibration:	31 July, 2013	
Date of next Calibration:	30 October, 2013	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	+0.2
4	3.85	-3.8
10	9.68	-3.2
40	42.1	+5.2
100	96.0	-4.0
400	387	-3.2
1000	985	-1.5
	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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ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MS EMILY KONG

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD,

WAN CHAI, HONG KONG

PROJECT:

WORK ORDER:

HK1317591

LABORATORY:

HONG KONG

DATE RECEIVED:

03/07/2013

DATE OF ISSUE:

12/07/2013

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:

Sonde Environmental Monitoring System

Brand Name:

Model No.:

Professional plus

Serial No.:

11F100597

Equipment No.:

Date of Calibration: 10 July, 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) Ptv Ltd

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Kwai Chung HONG KONG Phone:

852-2610 1044

Fax:

852-2610 2021

Email:

hongkong@alsglobal.com

Mr. Fung Lim Che Richard General Manager

Greater China & Hong Kong

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Page 1 of 2

Work Order: Date of Issue: HK1317591

Cliant

12/07/2013

Client:

LAM GEOTECHNICS LIMITED



Equipment Type:

Sonde Environmental Monitoring System

Brand Name:

YSI

Model No.:

Professional plus

Serial No.:

11F100597

Equipment No.: Date of Calibration:

--

101

10 July, 2013

Date of next Calibration:

10 October, 2013

Parameters:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.52	4.63	0.11
6.72	6.53	-0.19
7.80	7.71	-0.09
	Tolerance Limit (±mg/L)	0.20

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.92	-0.08
7.0	7.08	0.08
10.0	10.07	0.07
	Tolerance Limit (±pH unit)	0.20

Salinity

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

Method Ren Al TIA (213t culti	011/1, 23200	
Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	9.49	-5.1
20	19.02	-4.9
30	29.29	-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 22.5	11.2 23.6	1.2
39.0	38.8	-0.2
	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

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD,

WAN CHAI, HONG KONG

PROJECT:

WORK ORDER:

HK1327829

LABORATORY:

HONG KONG

DATE RECEIVED:

09/10/2013

DATE OF ISSUE:

17/10/2013

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: Model No.:

YSI

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

ALS Technichem (HK) Ptv Ltd

11/F Chung Shun Knitting Centre

1-3 Wing Yip Street

Kwai Chung HONG KONG Phone:

852-2610 1044

Fax:

852-2610 2021

Email:

hongkong@alsglobal.com

Mr. Fung Lim Chee General Manager

Greater China & Hong Kong

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Page 1 of 2

Work Order: Date of Issue: HK1327829 17/10/2013

Client:

LAM GEOTECHNICS LIMITED



Equipment Type:

Multimeter

Brand Name:

YSI

Model No.:

Professional plus 11F100597

Serial No.:

--

Equipment No.: Date of Calibration:

15 October, 2013

Date of next Calibration:

15 January, 2014

Parameters:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
	1.00	0.04
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

Method Ren 74 Th (215t cartion), 1500 mb				
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

Method Rel. Al IIA (215t cartion), 25205				
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

ALS Environmental



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR DEREK LO

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD,

WAN CHAI, HONG KONG

PROJECT:

1185

WORK ORDER:

HK1326638

LABORATORY:

HONG KONG

DATE RECEIVED:

27/09/2013

DATE OF ISSUE:

07/10/2013

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

Address

ALS Technichem (HK) Pty Ltd

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1-3 Wing Yip Street

Kwai Chung HONG KONG Phone:

852-2610 1044

Fax:

852-2610 2021

Email:

hongkong@alsglobal.com

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

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Page 1 of 2

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: HK1326638

Client:

07/10/2013 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), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)			
		0.01			
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

mountain that (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2								
Expected Reading	(pH Unit) Displa	ayed Reading (pF	l Unit) To	olerance (pH unit)				
4.0		4.17		0.17				
7.0		7.19		0.19				
10.0		9.96		-0.04				
	Tole	rance Limit (±pH	unit)	0.20				

Salinity

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

Method Ren / R Th (21st edition), 15105								
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 24.0 41.0	9.8 23.1 40.4	-0.2 -0.9 -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

CLIENT: ADDRESS: LAM GEOTECHNICS LIMITED

11/F., CENTRE POINT.

181-185 GLOUCESTER ROAD,

WAN CHAI, HONG KONG

PROJECT:

WORK ORDER:

HK1325265

LABORATORY:

HONG KONG

DATE RECEIVED: DATE OF ISSUE:

13/09/2013 25/09/2013

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:

SONDE ENVIRONMENTAL MONITORING

Brand Name:

YSI

Model No.: Serial No.:

600 XL 05C1607

Equipment No.:

Date of Calibration: 23 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

ALS Technichem (HK) Pty Ltd

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Kwai Chung HONG KONG Phone:

852-2610 1044

Fax:

852-2610 2021

Email:

hongkong@alsglobal.com

Richard Mr. Fung Lim Chee

General Manager

Greater China & Hong Kong

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Page 1 of 2

ADDRESS 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong | PHONE +852 2610 1044 | FAX +852 2610 2021 ALS TECHNICHEM (HK) PTY LTD An ALS Limited Company

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1325265

Date of Issue:

25/09/2013

Client:

LAM GEOTECHNICS LIMITED



Equipment Type:

SONDE ENVIRONMENTAL MONITORING

Brand Name:

YSI

Model No.:

600 XL

Serial No.:

05C1607

Equipment No.:

--

Date of Calibration:

23 September, 2013

Date of next Calibration:

23 December, 2013

Parameters:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.09	2.96	-0.13
5.71	5.76	0.05
7.24	7.18	-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



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MS EMILY KONG

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD,

WAN CHAI, HONG KONG

PROJECT:

WORK ORDER: HK1319020

AMENDMENT NO.:

LABORATORY:

HONG KONG 15/07/2013

DATE RECEIVED: DATE OF ISSUE:

09/10/2013

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: Model No.:

YSI 600XL

Serial No .:

05C1607

Equipment No.:

Date of Calibration: 25 July, 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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Mr. Fung Lim Chee, Richard

General Manager

Greater China & Hong Kong

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Page 1 of 2

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1319020

Amendment No.:

- 1

Date of Issue:

09/10/2013

Client:

LAM GEOTECHNICS LIMITED



Equipment Type:

MULTIMETER

Brand Name:

YSI

Model No.: Serial No.: 600XL 05C1607

Equipment No.:

--

Date of Calibration:

25 July, 2013

Date of next Calibration:

25 October, 2013

Parameters:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)			
4.02	F 11	0.20			
4.82	5.11 6.45	0.29 0.23			
7.60	8.00	0.40			
	Tolerance Limit (±mg/L)	0.20			

pH Value

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

7.00.00								
Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)						
4.0	4.06	0.06						
7.0	6.99	-0.01						
10.0	9.98	-0.02						
	Tolerance Limit (±pH unit)	0.20						

Salinity

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

Wethou Kel. Al TIA (213t cutton), 2320b									
Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)							
0	0								
10	10.10	1.0							
20	18.68	-6.6							
30	30.11	0.4							
	Tolerance Limit (±%)	10.0							

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Calac No. 5 Second Californ March 2000, Monthly March 2000, March								
Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)						
10	10.05	0.1						
20	19.47 41.09	-0.5 0.1						
	Tolerance Limit (±°C)	2.0						

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

Mr. Fung Lim Chee, Richard

General Manager

Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd

ALS Environmental

Page 2 of 2



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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 15, 2013 Rootsmeter S/N 0438320 Operator Tisch Orifice I.D 0005					Ta (K) - Pa (mm) -	759.46
		=========			METER	ORFICE
PLATE	VOLUME	VOLUME	DIFF	DIFF	DIFF	DIFF
OR	START	STOP	VOLUME	TIME	Hg	H2O
Run #	(m3)	(m3)	(m3)	(min)	(mm)	(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 0.9843 0.9822 0.9811 0.9760	0.7106 1.0013 1.1161 1.1708 1.4084	1.4090 1.9926 2.2278 2.3365 2.8180		0.9958 0.9916 0.9895 0.9884 0.9832	0.7159 1.0087 1.1244 1.1795 1.4188	0.8888 1.2570 1.4054 1.4740 1.7777
Qstd slop intercept coefficie	(b) = ent (r) =	2.01968 -0.02746 0.99999		Qa slope intercept coefficie	t (b) = ent (r) =	1.26469 -0.01732 0.99999
y axıs =	SQRT [H20 (1	?a/760)(298/5	ra)]	y axis =	SQRT[H2O(7	ra/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 = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$



Location :	: CMA1b			Calbration Date : 17-Jul-13					17-Jul-13
Equipment no.		EL452				Calbr	ation Due Dat	t :	17-Sep-13
								-	
CALIBRATION OF COM	ITINIIOLIS	EI OW PE	CODDED						
CALIBRATION OF CON	111110000	T LOW KL		mbient Co	ndition				
Temperature, T _a		305			Pressure, P	a		101	10 mmHg
Favinment No.	Ī	FI 000	Oritice Tra	Slope, m _c	dard Inform		Intercent b		0.02002
Equipment No.		EL086	•	Stope, IIIc	2.011		Intercept, b		-0.02803 - 1/2
Last Calibration Date		19-Jul-1					013.3 x 298		a) "-
Next Calibration Date		19-Jul-1	$= m_c \times Q_{std} + b_c$						
			C	Calibration	of RSP				
Calibration	Mar	nometer R	eading	c	std	Conti	nuous Flow		IC
Point	Н (inches of	water)	(m ³	min.)	Red	order, W	(W((P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	x-	axis	1	(CFM)		Y-axis
1	6.2	6.2	12.4	1.7	416		61	60.1977	
2	5.1	5.1	10.2	1.5	808		53	52.3029	
3	4.1	4.1	8.2	1.4	188	46		45.3950	
4	2.5	2.5	5.0	1.1	110		32		31.5791
5	1.4	1.4	2.8	0.8	349		21		20.7238
By Linear Regression of	Y on X								
	Slope, m	=	43.5	073	Int	tercept, b	= -	16.1	479
Correlation C	oefficient*	=	0.99	994					
Calibration	Accepted	=	Yes/	No**					
* if Correlation Coefficier	nt < 0.990,	check and	recalibration	again.					
** Delete as appropriate.									
Remarks :									
		Sam				Chec	ked by	•	Derek Lo
Calibrated by							neu by	· -	
Date	1	17-Jul-13				Date		٠	17-Jul-13



Location :	CMA2a					Calbration Date			17-Jul-13
Equipment no.		EL449				Calbr	ation Due Dat	:	17-Sep-13
								-	
CALIBRATION OF CON	ITINUOUS	FLOW RE	CORDER					_	
			Δ	mbient Co	ndition				
Temperature, T _a		305	i	Kelvin	Pressure, P	a		101	0 mmHg
			Orifice Tra	nsfer Stan	dard Informa	ation			
Equipment No.		EL086		Slope, m _c	2.0114	45	Intercept, be	С	-0.02803
Last Calibration Date		19-Jul-1	2	$(HxP_a/1013.3x298/T_a)^{1/2}$					
Next Calibration Date		19-Jul-1	3		=	m_c	$x Q_{std} + b_c$		
			C	Calibration	of RSP				
Calibration	Mar	nometer R	eading	c) _{std}	Contir	nuous Flow		IC
Point	Н (inches of	water)	(m ³	/ min.)	Rec	order, W	(W(I	P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	x-	axis	((CFM)		Y-axis
1	6.1	6.1	12.2	1.1	7276		59		58.2240
2	5.0	5.0	10.0	1.5	5654		51		50.3292
3	4.2	4.2	8.4	1.4	4359		43		42.4344
4	2.5	2.5	5.0	1.	1110		26		25.6580
5	1.5	1.5	3.0	0.8	8637		14		13.8159
By Linear Regression of	Y on X								
	Slope, m	=	51.8	624	Int	ercept, b	= -3	31.44	400
Correlation C	oefficient*	=	0.99	996					
Calibration	Accepted	=	Yes/	Ne**					
* if Correlation Coefficier	st < 0.000	chock and	rocalibration	a again					
ii Correlation Coefficier	11 < 0.990,	CHECK and	recalibration	ı ayaııı.					
** Delete as appropriate.									
Remarks :									
Calibrated by		Sam				Chec	ked by	:	Derek Lo
Date :	1	17-Jul-13				Date		: -	17-Jul-13



Location :		CMA3a				Calbratio	on Date	:	22-Aug-13	
Equipment no.		EL333				Calbratio	on Due Dat	:	22-Oct-13	
CALIBRATION OF CON	ITINUOUS	FLOW RE	ECORDER							
				mbient Co	ndition					
Temperature, T _a		305			Pressure, P	a		1010	mmHg	
			Orifice Tra	nsfer Stan	dard Informa	ation				
Equipment No.		EL086		Slope, m _c	2.019	68 I	ntercept, bo	;	-0.02746	
Last Calibration Date		15-Jul-1	3		(HxI	P _a / 1013	2.3 x 298	/T _a) ¹	//2	
Next Calibration Date		15-Jul-1	4	$= m_c \times Q_{std} + b_c$						
			C	alibration	of RSP					
Calibration	Mar	nometer R	eading	C	std	Continuo	us Flow		IC	
Point	Н(inches of	water)	(m ³	/ min.)	Record	ler, W	(W(P _a /10	13.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(CF	M)		Y-axis	
1	5.8	5.8	11.6	1.6	6778	58	3		57.2371	
2	4.8	4.8	9.6	1.5	5275	49	9		48.3555	
3	4.0	4.0	8.0	1.3	3956	42	2		41.4476	
4	2.4	2.4	4.8	1.0	0841	25	5		24.6712	
5	1.6	1.6	3.2	0.8	3877	14	1		13.8159	
By Linear Regression of	Y on X									
	Slope, m	=	54.5	515	Int	ercept, b =	-3	4.6041		
Correlation C	oefficient*	=	0.99	99						
Calibration	Accepted	=	Yes/	\0 **						
* if Correlation Coefficien	nt < 0.990,	check and	recalibration	again.						
** Delete as appropriate.										
Remarks :										
Calibrated by		Henry				Checked	l by	:	Derek Lo	
Date :	2	2-Aug-13				Date		:	22-Aug-13	



Location :		CMA4a				Calbratio	on Date	:	17-Jul-13
Equipment no.		EL390				Calbratio	on Due Dat	:	17-Sep-13
CALIBRATION OF CON	ITINUOUS	FLOW RE	ECORDER						
				mbient Co	ndition				
Temperature, T _a		305		Kelvin	Pressure, P	a		1010	mmHg
			Orifice Tra	nsfer Stan	dard Informa	ation			
Equipment No.		EL086		Slope, m _c	2.0114	45 I	ntercept, bo	;	-0.02803
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 1013	3.3 x 298	/T _a)	1/2
Next Calibration Date		19-Jul-1	3		=	$m_c \times C$	$Q_{std} + b_c$		
			C	alibration	of RSP				
Calibration	Mar	nometer R	eading	C	std	Continuo	us Flow		IC
Point	Н(inches of	water)	(m ³	/ min.)	Record	ler, W	(W(P _a /10	13.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(CF	M)		Y-axis
1	6.0	6.0	12.0	1.3	7135	6	1		60.1977
2	5.0	5.0	10.0	1.5	5654	54	1		53.2897
3	4.1	4.1	8.2	1.4	1188	40	6		45.3950
4	2.5	2.5	5.0	1.	1110	3	1		30.5923
5	1.5	1.5	3.0	0.8	3637	19	9		18.7501
By Linear Regression of	Y on X								
	Slope, m	=	48.9	540	Int	ercept, b =	-2	3.6832	
Correlation C	oefficient*	=	0.99	99					
Calibration	Accepted	=	Yes/ł	\0 **					
* if Correlation Coefficien	nt < 0.990,	check and	recalibration	again.					
** Delete as appropriate.									
Remarks :									
Calibrated by		Sam				Checked	l by	:	Derek Lo
Date :	1	17-Jul-13				Date		:	17-Jul-13



Location :		CMA5a				Calbra	tion Date	:	17-Jul-13	
Equipment no.		EL380				Calbra	tion Due Dat	: -	17-Sep-13	
								_		
CALIDDATION OF CON	ITINILIOUI	S EL OW DI	CODDED							
CALIBRATION OF CON	ITINUOUS	S FLOW RI								
	T .		A	mbient Co						
Temperature, T _a		305		Kelvin	Pressure, P	a		1010	0 mmHg	
			Orifice Tra	nsfer Stan	dard Informa	ation				
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	С	-0.02803	
Last Calibration Date		19-Jul-12	2	$(HxP_a/1013.3x298/T_a)^{1/2}$						
Next Calibration Date	te 19-Jul-13 = $m_c \times Q_{std} + b_c$									
			C	alibration	of RSP					
Calibration	Mar	nometer Re	eading	c	std	Continu	ious Flow		IC	
Point	Н (inches of v	water)	(m ³	/ min.)	Reco	rder, W	(W(F	P _a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(C	CFM)		Y-axis	
1	6.1	6.1	12.2	1.7	7276		61		60.1977	
2	4.9	4.9	9.8	1.5	5498		53		52.3029	
3	4.0	4.0	8.0	1.4	1016		46		45.3950	
4	2.4	2.4	4.8	1.0	0888		31		30.5923	
5	1.5	1.5	3.0	0.8	3637		20		19.7369	
By Linear Regression of	Y on X									
	Slope, m	=	46.9	543	Inte	ercept, b	= -2	20.63	s06	
Correlation C	oefficient*	=	0.99	99						
Calibration	Accepted	=	Yes/	No**						
* if Correlation Coefficier	nt < 0.990,	check and	l recalibration	n again.						
** Delete as appropriate.										
Remarks :										
<u> </u>										
Calibrated by:		Sam				Check	ed by	:	Derek Lo	
Calibrated by	1	7-Jul-13				Date	-	: -	17-Jul-13	
Date								_		



Location		CIVIAGA				Calbratic	on Date	•	17-Jul-13
Equipment no.		EL448				Calbratio	on Due Dat	:	17-Sep-13
CALIBRATION OF CON	ITINUOUS	S FLOW R	ECORDER						
				mbient Co	ndition				
Temperature, T _a		305			Pressure, P	a		1010	mmHg
. , ,									
	ı		Orifice Tra	l	dard Informa	1			
Equipment No.		EL086		Slope, m _c			ntercept, be		-0.02803
Last Calibration Date		19-Jul-12				P _a / 1013		/T _a)	1/2
Next Calibration Date		19-Jul-1	3	$= m_c \times Q$					
			C	alibration	of RSP				
Calibration	Mar	nometer R	eading	c) _{std}	Continuo	us Flow		IC
Point	н (inches of	water)	(m ³	/ min.)	Record	ler, W	(W(P _a /10)13.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	x-	axis	(CF	M)		Y-axis
1	6.1	6.1	12.2	1.	7276	60)		59.2108
2	5.0	5.0	10.0	1.9	5654	52	2		51.3161
3	4.1	4.1	8.2	1.4	4188	44	1		43.4213
4	2.5	2.5	5.0	1.	1110	30)		29.6054
5	1.5	1.5	3.0	0.8	8637	19)		18.7501
By Linear Regression of	Y on X								
	Slope, m	=	46.8	114	Inte	ercept, b =	-2	2.1402	
Correlation C	oefficient*	=	0.99	994					
Calibration	Accepted	=	Yes/l	No**					
* if Correlation Coefficier	nt < 0.990,	, check and	I recalibratio	n again.					
** Delete as appropriate.									
Remarks :									
<u> </u>									
		Sam				Checked	l bv	:	Derek Lo
Calibrated by	1	17-Jul-13				Date	· - ,	· —	17-Jul-13
Date		10				Date		·	., 501 10



Location		CIVIAGA				Calbra	lion Date	•	10-3ep-13
Equipment no.		EL380				Calbra	tion Due Dat	: -	16-Nov-13
								_	
0.4. IDD 4.7.0.1. 0.7. 0.0.1	T								
CALIBRATION OF CON	ITINUOUS	S FLOW R							
			Α	mbient Co	ndition				
Temperature, T _a		304		Kelvin	Pressure, P	a		100	8 mmHg
			Orifice Tra	nsfer Stan	dard Informa	ation			
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	С	-0.02746
Last Calibration Date		15-Jul-1	3	$(HxP_a/1013.3x298/T_a)^{1/2}$					
Next Calibration Date		15-Jul-1	$= m_c \times Q_{std} + b_c$						
			C	Calibration	of RSP				
Calibration	Mar	nometer R		ı	l _{std}	Continu	ious Flow		IC
Point		inches of	_		/ min.)		rder, W	(\\/(F	P _a /1013.3x298/T _a) ^{1/2} /35.31)
i ome			(difference)		axis		FM)		Y-axis
4	(up)					`	61		
1	6.1	6.1	12.2		7214				60.2369
2	5.1	5.1	10.2		5751		53		52.3370
3	4.1	4.1	8.2	1.4	4137	,	45		44.4370
4	2.4	2.4	4.8	1.0	0848		30		29.6247
5	1.5	1.5	3.0	0.8	3605		20		19.7498
By Linear Regression of	Y on X								
	Slope, m	=	46.6	426	Int	ercept, b	= -2	20.80)83
Correlation Co	pefficient*	=	0.99	994					
Calibration	Accepted	=	Yes/	Ne**					
* if Correlation Coefficier	nt < 0.990,	, check and	l recalibratio	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by		Sam				Checke	ed by	:	Derek Lo
Date :	1	6-Sep-13	 -			Date		: -	16-Sep-13
								_	



Location		CIVIA4a				Calbratic	on Date	•	10-оер-13	
Equipment no.		EL390				Calbratio	on Due Dat	:	16-Nov-13	
CALIBRATION OF CON	ITINUOUS	S FLOW R	ECORDER							
				mbient Co	ndition					
Temperature, T _a		304			Pressure, P	•		1008	mmHg	
			Orifice Tra	l	dard Informa					
Equipment No.		EL086		Slope, m _c			ntercept, bo		-0.02746	
Last Calibration Date		15-Jul-1	3	$(HxP_a/1013.3x298/T_a)^{1/2}$						
Next Calibration Date		15-Jul-1	$= m_c \times Q$				$b_{std} + b_c$			
			C	alibration	of RSP					
Calibration	Mar	nometer R	eading	d) _{std}	Continuo	us Flow		IC	
Point	Н (inches of	water)	(m ³	/ min.)	Record	ler, W	(W(P _a /10	13.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(CF	M)		Y-axis	
1	6.2	6.2	12.4	1.	7353	62	2		61.2244	
2	5.1	5.1	10.2	1.	5751	52	2		51.3495	
3	4.1	4.1	8.2	1.	4137	44	ļ		43.4495	
4	2.5	2.5	5.0	1.	1069	29)		28.6372	
5	1.6	1.6	3.2	0.	8882	17	,		16.7873	
By Linear Regression of	Y on X						•			
	Slope, m	=	51.4	211	Inte	ercept, b =	-2	8.8125		
Correlation C	oefficient*	=	0.99	993						
Calibration	Accepted	=	Yes/l	No**						
* if Correlation Coefficier	nt < 0.990,	check and	l recalibratio	n again.						
** Delete as appropriate.										
Remarks :										
O-186(Sam				Checked	by	:	Derek Lo	
Calibrated by	1	6-Sep-13				Date	-	:	16-Sep-13	
Date									F	



Location :		CMA2a				Calbr	ation Date	:	16-Sep-13	
Equipment no.		EL449				Calbr	ation Due Da	1:	16-Nov-13	
CALIBRATION OF CON	ITINUOUS	S FLOW R	<u>ECORDER</u>							
			Α	mbient Co	ndition					
Temperature, T _a		304	ļ	Kelvin	Pressure, P	a		1008	8 mmHg	
			Orifice Tra	nsfer Stan	dard Inform	ation				
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	С	-0.02746	
Last Calibration Date		15-Jul-1	3	$(HxP_a/1013.3x298/T_a)^{1/2}$						
Next Calibration Date		15-Jul-1	4		=	m _c	$x Q_{std} + b_{o}$	>		
			C	alibration	of RSP					
Calibration	Mar	nometer R	eading	C	std	Conti	nuous Flow		IC	
Point	Н (inches of	water)	(m ³	/ min.)	Red	order, W	(W(F	P _a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	x-	axis		(CFM)		Y-axis	
1	6.1	6.1	12.2	1.7	7214		58		57.2744	
2	5.1	5.1	10.2	1.5	5751		50		49.3745	
3	4.2	4.2	8.4	1.4	1307		43		42.4621	
4	2.5	2.5	5.0	1.1	1069		28		27.6497	
5	1.4	1.4	2.8	0.8	3317		16		15.7998	
By Linear Regression of	Y on X									
	Slope, m	=	46.3	065	Int	ercept, b	= -:	23.22	<u>'</u> 17	
Correlation Co	pefficient*	=	0.99	993						
Calibration	Accepted	=	Yes/l	No**						
* if Correlation Coefficien	st < 0.000	chock and	t rocalibratio	n again						
ii Correlation Coefficier	it < 0.990,	, check and	recalibratio	ii agaiii.						
** Delete as appropriate.										
Remarks :										
Calibrated by		Sam				Chec	ked by	:	Derek Lo	
Date	1	6-Sep-13				Date		: _	16-Sep-13	



Location		CIVIA ID				Calbratio	on Date	•	10-3ep-13	
Equipment no.		EL452				Calbratio	on Due Dat	:	16-Nov-13	
CALIBRATION OF CON	ITINUOUS	S FLOW R	ECORDER							
				mbient Co	ndition					
Temperature, T _a		304			Pressure, P	•		1008	mmHg	
, , , , , ,										
			Orifice Tra	l	dard Informa					
Equipment No.		EL086		Slope, m _c	2.0196		ntercept, be		-0.02746	
Last Calibration Date		15-Jul-1	3	$(HxP_a/1013.3x298/T_a)^{1/2}$						
Next Calibration Date		15-Jul-1	4	$= m_c \times Q$						
			C	alibration	of RSP					
Calibration	Mar	nometer R	eading	c) _{std}	Continuo	us Flow		IC	
Point	Н (inches of	water)	(m ³	/ min.)	Record	der, W	(W(P _a /1	1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(CF	M)		Y-axis	
1	6.1	6.1	12.2	1.	7214	6	1		60.2369	
2	5.1	5.1	10.2	1.5	5751	52	2		51.3495	
3	4.1	4.1	8.2	1.4	4137	45	5		44.4370	
4	2.5	2.5	5.0	1.	1069	3.	1		30.6122	
5	1.5	1.5	3.0	0.8	3605	20)		19.7498	
By Linear Regression of	Y on X									
	Slope, m	=	46.1	726	Inte	ercept, b =	-2	0.3866	;	
Correlation C	oefficient*	=	0.99	987						
Calibration	Accepted	=	Yes/l	No**						
* if Correlation Coefficier	nt < 0.990,	check and	l recalibratio	n again.						
** Delete as appropriate.										
Remarks :										
:		Sam				Checked	l by	:	Derek Lo	
Calibrated by	1	6-Sep-13				Date	•	<u> </u>	16-Sep-13	
Date						=			·	



Location :		CMA6a				Calbra	ation Date	:	16-Sep-13	
Equipment no.		EL448				Calbra	ation Due Dat	: _	16-Nov-13	
CALIBRATION OF CON	NTINUOUS	S FLOW R	ECORDER					_		
			A	mbient Co	ndition					
Temperature, T _a		304		Kelvin	Pressure, P	a		1010	mmHg	
			Orifice Tra	nsfer Stan	dard Informa	ation				
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	С	-0.02746	
Last Calibration Date		15-Jul-1	3	$(HxP_a/1013.3 \times 298/T_a)^{1/2}$						
Next Calibration Date		15-Jul-1	4	$= m_c \times Q_{std} + b_c$						
			C	alibration	of RSP					
Calibration	Mar	nometer R	eading	C	std	Contin	uous Flow		IC	
Point	Н (inches of	water)	(m ³	/ min.)	Reco	order, W	(W(P	_a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	x-	axis	(0	CFM)		Y-axis	
1	6.1	6.1	12.2	1.7	7231		62		61.2851	
2	5.0	5.0	10.0	1.5	5613		53		52.3889	
3	4.0	4.0	8.0	1.3	3979		44		43.4926	
4	2.5	2.5	5.0	1.1	1080		30		29.6541	
5	1.5	1.5	3.0	0.8	3613		18		17.7924	
By Linear Regression of	Y on X									
	Slope, m	=	50.1	961	Into	ercept, b	= -2	25.853	31	
Correlation C	oefficient*	=	0.99	995						
Calibration	Accepted	=	Yes/l	Ne**						
* if Correlation Coefficier	nt < 0.990,	check and	recalibratio	n again.						
** Delete as appropriate	-									
Remarks :										
Calibrated by		Sam				Check	red by	:	Derek Lo	
Date	1	6-Sep-13	<u> </u>			Date		:	16-Sep-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 October 2013

		- · ·	October 2		F	0	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	20 000
							28-Sep
						24hr TSP	
						24111 135	
29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct		5-Oct
					24hr TSP		
	1hr TSP		Naire (Deutine)	Nais (Davidson)		1hr TSP	
			Noise (Daytime)	Noise (Daytime)			
	Impact WQM		Impact WQM	(M1a,M2b,M3a,M 4b,M5b, M6)	Impact WQM		
	Mid-ebb 9:04		Mid-ebb 10:33	,,	Mid-ebb 11:50		
	Mid-flood 16:29		Mid-flood 17:09		Mid-flood 17:55		
6-Oct	7-Oct		9-Oct	10-Oct	11-Oct		12-Oct
				24hr TSP			
					1hr TSP		
	Noise (Daytime)	Noise (Daytime)					
		(M1a,M2b,M3a,M					
	Impact WQM	4b,M5b,M6)	Impact WQM		Impact WQM		
	Mid-ebb 13:46 Mid-flood 19:31		Mid-flood 9:30 Mid-ebb 15:14		Mid-ebb 4:25 Mid-flood 11:50		
13-Oct	Mid-flood 19:31 14-Oct	15-Oct	Mid-ebb 15:14 16-Oct	17-Oct	18-Oct		19-Oct
13-001	14-00	15-001	10-000	17-000	10-000		15-001
			24hr TSP				
				1hr TSP			
		Noise (Daytime)	Noise (Daytime)				
			(M1a,M2b,M3a,M				
			4b,M5b, M6)	Impact WQM		Impact WQM	
		Mid-ebb 9:19		Mid-ebb 10:59		Mid-ebb	12:22
20-Oct	21-Oct	Mid-flood 16:10 22-Oct	23-Oct	Mid-flood 17:18 24-Oct	25-Oct	Mid-flood	18:19 26-Oct
20-001	21-00	22-001	23-001	24-001	25-Oct		26-OCI
		24hr TSP					
		1	1hr TSP (with CRIII)				
	Noise (Daytime)	Noise (Daytime)					
		(M1a,M2b,M3a,M					
	Impact WQM	4b,M5b,M6)	Impact WQM	Impact WQM		Impact WQM	
	Mid-ebb 13:34		Mada	Maid all		Mid-ebb	4:03
	Mid-flood 19:17	1	Mid-flood 20:01	Mid-ebb 3:04		Mid-flood	16:35
27-Oct		1					
		1					
		1					
		1					
		1					
		1					
		1					
		1		1			

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 November 2013

November 2013	_
Sunday Monday Tuesday Wednesday Thursday Friday	Saturday
27-Oct 28-Oct 29-Oct 30-Oct 31-Oct 1-N	ov 2-Nov
24hr TSP	24hr TSP
1hr TSP (with CRIII)	24/11 101
Noise (Daytime) Noise (Daytime)	
Impact WQM Impact WQM	
Mid-ebb 6:48 Mid-ebb 8:55 Mid-ebb 10:	37
Mid-flood 14:49 Mid-flood 15:47 Mid-flood 16:	
3-Nov 4-Nov 5-Nov 6-Nov 7-Nov 8-N	ov 9-Nov
24hr TSP	Abo TOD (with ODIII)
1hr TSP (with CRIII) Noise (Daytime) Noise (Daytime)	1hr TSP (with CRIII)
ivoise (Dayune)	
Impact WQM Impact WQM Impact WQM	
Mid-ebb 12:45 Mid-flood 8:35 Mid-ebb 3:	13
Mid-flood 18:20 Mid-ebb 14:14 Mid-flood 10:	
10-Nov 11-Nov 12-Nov 13-Nov 14-Nov 15-N	
24hr TSP	
1hr TSP	
Noise (Daytime) Noise (Daytime)	
Impact WQM Impact WQM	20
Mid-ebb 6:37 Mid-ebb 8:53 Mid-ebb 10: Mid-flood 13:52 Mid-flood 15:28 Mid-flood 16:	
NIII-IDUU 13-32	
	25 110
24hr TSP	
1hr TSP	
Noise (Daytime)	
Impact WQM Impact WQM	Impact WQM
Mid-ebb 0:57 Mid-ebb 2:01	Mid-ebb 2:40
Mid-flood 7:45 Mid-flood 9:04	Mid-flood 10:43
24-Nov 25-Nov 26-Nov 27-Nov	
24hr TSP	
24II I OF 1hr TSP	
Noise (Daytime) Noise (Daytime)	
()	
Impact WQM Impact WQM	
Mid-flood 12:38 Mid-ebb 4:58	ı

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

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
			710 705			Unit: dB	3(A), (30-min)	
03/10/13	9:45	Fine	74.0 76.5 7		70.0	72	69	75
08/10/13	10:00	Fine			67.0	72	66	75
16/10/13	9:45	Fine	73.6	76.5	68.5	72	68	75
22/10/13	9:30	Fine	73.6	76.0	68.5	72	68	75

Location: M2b - Noon-day gun area

ſ				Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
	Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
L							Unit: dE	B(A), (30-min)	
Ī	03/10/13	10:25	Fine	69.5 71.0		67.0	68	65	75
	08/10/13	10:45	Fine	69.4 70.5		67.5	68	65	75
ſ	16/10/13	10:35	Fine	70.0 71.5		67.5	68	66	75
ſ	22/10/13	9:25	Fine	71.9	72.0	68.5	68	70	75

Location: M3a - Tung Lo Wan Fire Station

				Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
	Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
L							Unit: dB	B(A), (30-min)	•
Ī	03/10/13	13:00	Fine	66.0 67.5		63.5	69	66	75
Ī	08/10/13	11:25	Fine	66.1 67.0		64.5	69	66	75
	16/10/13	10:15	Fine	70.0 72.9		65.5	69	64	75
Π	22/10/13	10:00	Fine	66.4	68.0	64.5	69	66	75

Location: M4b - Victoria Centre

			Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
						Unit: dE	B(A), (30min)	
03/10/13	13:45	Fine	69.1 70.5 6		67.0	67	64	75
08/10/13	13:00	Fine			66.5	67	62	75
16/10/13	13:00	Fine	69.8	71.5	67.0	67	66	75
22/10/13	10:45	Fine	69.5	71.0	67.0	67	65	75

Location: M5b - City Garden

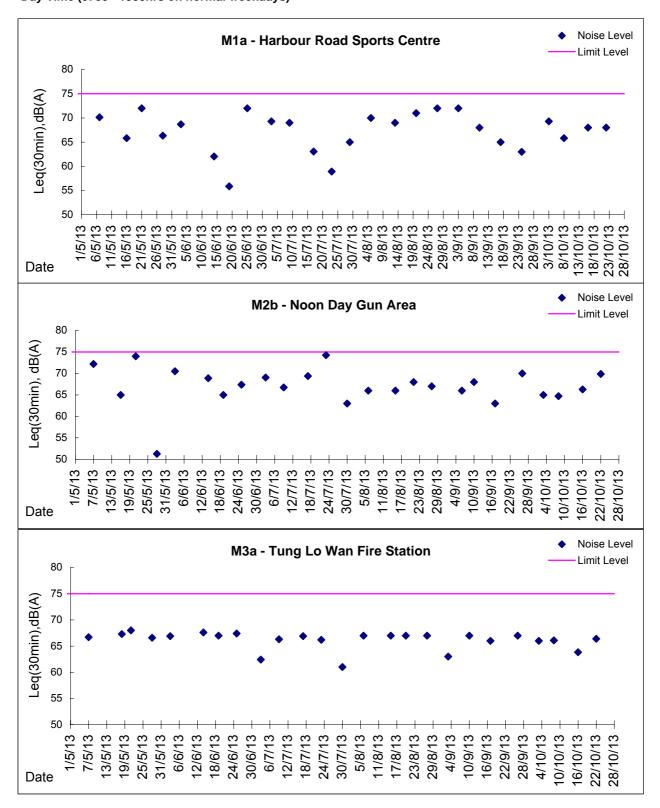
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
			70.0 74.0		Unit: d		3(A), (30min)	
03/10/13	14:29	Fine	70.6	70.6 71.3		68	67	75
08/10/13	13:50	Fine	69.9 71.0		67.5	68	65	75
16/10/13	13:44	Fine	74.9 76.5 72		72.5	68	74	75
22/10/13	11:25	Fine	72.5	74.8	68.0	68	71	75

Location: M6 - HK Baptist Church Henrietta Secondary School

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
			72.0 75.0			Unit: dE	8(A), (30-min)	
03/10/13	15:17	Fine			72.0	71	71	70
08/10/13	14:30	Fine			72.0	71	69	70
16/10/13	14:00	Fine	73.7 75.0 72.0		72.0	71	71	70
22/10/13	13:00	Fine	73.3	74.5	71.0	71	70	70

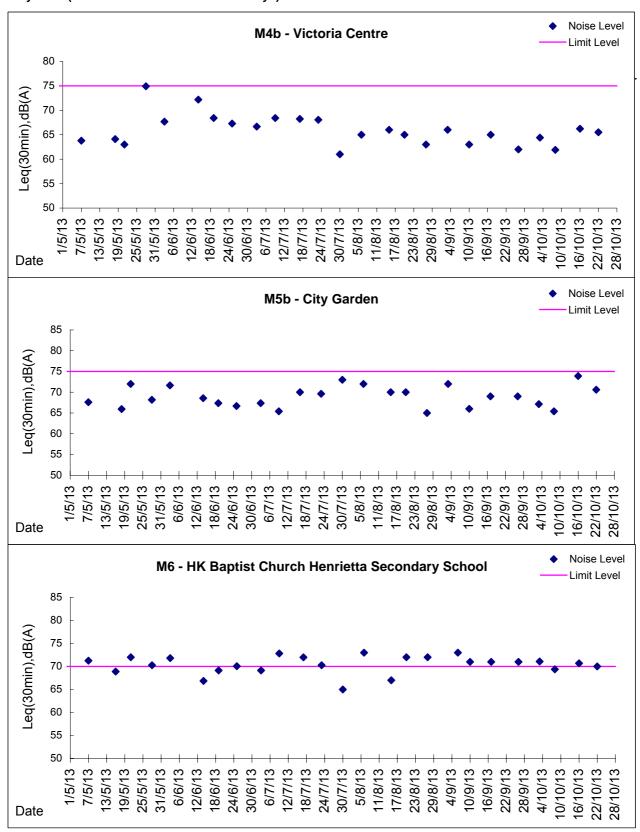


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





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	Weather	Filter	Filter Weight,	Filter Weight, g E		e, hr	Sampling	Flow Rate, m³/min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, $Q_{\rm sf}$	Average	Volume, m ³	μg/m³
28-Sep-13	08:00	Rainy	006835	2.6268	2.8266	3487.79	3511.79	24.00	1.35	1.35	1.35	1948	103
04-Oct-13	08:00	Fine	007163	2.6084	2.9105	3515.75	3539.75	24.00	1.27	1.27	1.27	1825	166
10-Oct-13	08:00	Fine	005391	2.8491	3.0169	3542.75	3566.75	24.00	1.33	1.33	1.33	1918	87
16-Oct-13	08:00	Cloudy	007209	2.6301	2.9657	3569.75	3593.75	24.00	1.44	1.44	1.44	2076	162
22-Oct-13	08:00	Fine	005917	2.6384	2.8367	3597.04	3621.04	24.00	1.27	1.27	1.27	1835	108

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

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
30-Sep-13	09:45	Cloudy	005412	2.8525	2.8662	3511.79	3512.79	1.00	1.23	1.31	1.27	76	179
30-Sep-13	10:49	Cloudy	005417	2.8133	2.8214	3512.79	3513.79	1.00	1.36	1.36	1.36	81	100
30-Sep-13	13:05	Cloudy	005419	2.8213	2.8265	3513.79	3514.79	1.00	1.31	1.31	1.31	79	66
05-Oct-13	08:06	Fine	005420	2.8200	2.8297	3539.75	3540.75	1.00	1.31	1.31	1.31	78	124
05-Oct-13	09:13	Fine	005422	2.8308	2.8402	3540.75	3541.75	1.00	1.31	1.31	1.31	78	120
05-Oct-13	10:23	Fine	005389	2.8359	2.8501	3541.75	3542.75	1.00	1.31	1.31	1.31	78	181
11-Oct-13	10:44	Fine	005913	2.6529	2.6697	3266.75	3267.75	1.00	1.35	1.35	1.35	81	207
11-Oct-13	13:20	Fine	005911	2.6426	2.6599	3267.75	3268.75	1.00	1.35	1.35	1.35	81	213
11-Oct-13	14:36	Fine	005381	2.8071	2.8188	3268.75	3269.75	1.00	1.35	1.35	1.35	81	144
17-Oct-13	08:15	Cloudy	005922	2.6262	2.6506	3593.75	3594.75	1.00	1.36	1.36	1.36	82	299
17-Oct-13	09:20	Cloudy	005923	2.6528	2.6710	3594.75	3595.75	1.00	1.36	1.36	1.36	82	223
17-Oct-13	10:30	Cloudy	005918	2.6582	2.6819	3595.75	3596.75	1.00	1.36	1.36	1.36	82	291
23-Oct-13	08:10	Fine	005383	2.8279	2.8464	3621.04	3622.04	1.00	1.40	1.40	1.40	84	220
23-Oct-13	09:23	Fine	005387	2.8433	2.8606	3622.04	3623.04	1.00	1.36	1.36	1.36	81	212
23-Oct-13	10:27	Fine	007211	2.6188	2.6345	3623.04	3624.04	1.00	1.36	1.36	1.36	81	193



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	Weather	Filter paper				e, hr	Sampling	Flow Rate, m³/min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Sep-13	08:00	Rainy	006834	2.6351	2.8300	13199.94	13223.94	24.00	1.41	1.41	1.41	2030	96
04-Oct-13	08:00	Fine	007164	2.6474	2.9435	13227.49	13251.49	24.00	1.37	1.37	1.37	1967	151
10-Oct-13	08:00	Fine	005392	2.8569	3.0256	13254.49	13278.49	24.00	1.37	1.37	1.37	1971	86
16-Oct-13	08:00	Cloudy	005407	2.8504	3.1163	13281.49	13305.49	24.00	1.41	1.42	1.42	2038	130
22-Oct-13	08:00	Fine	005916	2.6345	2.8991	13308.49	13332.49	24.00	1.42	1.41	1.42	2038	130

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
30-Sep-13	09:50	Cloudy	005413	2.8347	2.8485	13224.48	13225.48	1.00	1.41	1.41	1.41	85	163
30-Sep-13	10:59	Cloudy	005416	2.8299	2.8359	13225.48	13226.48	1.00	1.41	1.41	1.41	85	71
30-Sep-13	13:08	Cloudy	005418	2.8133	2.8176	13226.48	13227.48	1.00	1.39	1.39	1.39	84	51
05-Oct-13	08:05	Fine	005421	2.8388	2.8504	13251.49	13252.49	1.00	1.41	1.41	1.41	84	137
05-Oct-13	09:09	Fine	005424	2.8284	2.8397	13252.49	13253.49	1.00	1.41	1.41	1.41	84	134
05-Oct-13	10:12	Fine	005390	2.8364	2.8532	13253.49	13254.49	1.00	1.41	1.41	1.41	84	199
11-Oct-13	10:30	Fine	005902	2.6369	2.6539	13278.49	13279.49	1.00	1.39	1.39	1.39	83	204
11-Oct-13	13:03	Fine	005912	2.6387	2.6543	13279.49	13280.49	1.00	1.39	1.39	1.39	83	187
11-Oct-13	14:06	Fine	005402	2.8327	2.8477	13280.49	13281.49	1.00	1.39	1.39	1.39	83	180
17-Oct-13	08:05	Cloudy	005920	2.6684	2.6894	13305.49	13306.49	1.00	1.42	1.42	1.42	85	247
17-Oct-13	09:10	Cloudy	005921	2.6318	2.6462	13306.49	13307.49	1.00	1.38	1.38	1.38	83	175
17-Oct-13	10:15	Cloudy	005919	2.6802	2.7000	13307.49	13308.49	1.00	1.44	1.44	1.44	86	230
23-Oct-13	08:02	Fine	005382	2.8284	2.8409	13332.49	13333.49	1.00	1.58	1.58	1.58	95	132
23-Oct-13	09:04	Fine	005386	2.8250	2.8450	13333.49	13334.49	1.00	1.50	1.50	1.50	90	223
23-Oct-13	10:10	Fine	005388	2.8446	2.8631	13334.49	13335.49	1.00	1.50	1.50	1.50	90	206



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	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Sep-13	08:00	Rainy	006832	2.6332	2.8573	458.04	482.04	24.00	1.41	1.41	1.41	2024	111
04-Oct-13	08:00	Fine	005506	2.8116	3.1378	565.19	589.19	24.00	1.40	1.40	1.40	2020	161
10-Oct-13	08:00	Fine	005354	2.8541	3.1426	648.21	672.21	24.00	1.34	1.33	1.34	1923	150
17-Oct-13	13:00	Cloudy	005513	2.8350	3.0689	678.21	702.21	24.00	1.37	1.38	1.38	1980	118
22-Oct-13	08:00	Fine	007210	2.6178	2.9390	709.90	733.90	24.00	1.40	1.40	1.40	2022	159

Remarks: Due to electricity interruption, the 24hr TSP was rescheduled from 16 Oct 2013 to 17 Oct 2013.

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

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m	μg/m³
30-Sep-13	09:49	Cloudy	007024	2.6387	2.6464	482.04	483.04	1.00	1.39	1.39	1.39	83	92
30-Sep-13	10:56	Cloudy	007023	2.6430	2.6486	483.04	484.04	1.00	1.30	1.30	1.30	78	72
30-Sep-13	13:30	Cloudy	007195	2.6163	2.6296	484.04	485.04	1.00	1.37	1.37	1.37	82	161
05-Oct-13	08:07	Fine	005344	2.8496	2.8594	589.19	590.19	1.00	1.37	1.37	1.37	82	119
05-Oct-13	09:15	Fine	005345	2.8473	2.8622	590.19	591.19	1.00	1.37	1.37	1.37	82	182
05-Oct-13	10:20	Fine	005348	2.8456	2.8607	591.19	592.19	1.00	1.33	1.33	1.33	80	189
11-Oct-13	08:26	Fine	005507	2.8224	2.8391	672.21	673.21	1.00	1.30	1.30	1.30	78	214
11-Oct-13	09:32	Fine	005508	2.8337	2.8488	673.21	674.21	1.00	1.39	1.39	1.39	83	181
11-Oct-13	10:43	Fine	005509	2.8272	2.8424	674.21	675.21	1.00	1.37	1.37	1.37	82	185
17-Oct-13	08:31	Cloudy	007196	2.6301	2.6482	675.21	676.21	1.00	1.41	1.41	1.41	85	214
17-Oct-13	09:37	Cloudy	005515	2.8803	2.8829	676.21	677.21	1.00	1.41	1.41	1.41	85	31
17-Oct-13	10:49	Cloudy	005894	2.6469	2.6653	677.21	678.21	1.00	1.41	1.41	1.41	85	217
23-Oct-13	08:18	Fine	005900	2.6386	2.6623	733.90	734.90	1.00	1.37	1.37	1.37	82	289
23-Oct-13	09:25	Fine	005899	2.6278	2.6491	734.90	735.90	1.00	1.37	1.37	1.37	82	259
23-Oct-13	10:35	Fine	005901	2.6294	2.6513	735.90	736.90	1.00	1.37	1.37	1.37	82	267



Location: CMA4a - SPCA

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

Date	Sampling	Weather	Filter paper Filter Weight, g			Elapse Time, hr Sa		Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Sep-13	08:00	Rainy	006831	2.6437	2.7950	17398.23	17422.23	24.00	1.34	1.34	1.34	1931	78
04-Oct-13	08:00	Fine	005504	2.8162	3.0334	17425.23	17449.23	24.00	1.27	1.26	1.26	1821	119
10-Oct-13	08:00	Fine	005355	2.8543	2.9854	17452.23	17476.23	24.00	1.25	1.25	1.25	1798	73
16-Oct-13	08:00	Cloudy	005401	2.8326	3.0748	17479.24	17503.24	24.00	1.27	1.27	1.27	1831	132
22-Oct-13	08:00	Fine	005517	2.8678	3.0879	17506.24	17530.24	24.00	1.27	1.27	1.27	1830	120

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

Date	Sampling	Weather	Filter paper	Filter Weigh	Filter Weight, g Elapse Time, hr Sampling Flow Rate, m³/min				Total	TSP Level,			
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
30-Sep-13	09:30	Cloudy	006674	2.6371	2.6463	17422.23	17423.23	1.00	1.34	1.34	1.34	81	114
30-Sep-13	10:43	Cloudy	006675	2.6522	2.6606	17423.23	17424.23	1.00	1.34	1.34	1.34	81	104
30-Sep-13	13:09	Cloudy	006676	2.6382	2.6498	17424.23	17425.23	1.00	1.34	1.34	1.34	81	144
05-Oct-13	08:02	Fine	005343	2.8649	2.8716	17449.23	17450.23	1.00	1.34	1.34	1.34	80	83
05-Oct-13	09:05	Fine	005346	2.8418	2.8516	17450.23	17451.23	1.00	1.26	1.26	1.26	76	129
05-Oct-13	10:10	Fine	005347	2.8415	2.8482	17451.23	17452.23	1.00	1.26	1.26	1.26	76	88
11-Oct-13	08:06	Fine	005514	2.8265	2.8355	17476.23	17477.23	1.00	1.25	1.25	1.25	75	120
11-Oct-13	09:09	Fine	005890	2.6218	2.6326	17477.23	17478.23	1.00	1.25	1.25	1.25	75	144
11-Oct-13	10:13	Fine	005516	2.8790	2.8845	17478.23	17479.23	1.00	1.25	1.25	1.25	75	73
17-Oct-13	08:09	Cloudy	006677	2.6268	2.6377	17503.24	17504.24	1.00	1.27	1.27	1.27	76	143
17-Oct-13	09:13	Cloudy	005893	2.6356	2.6499	17504.24	17505.24	1.00	1.31	1.31	1.31	79	182
17-Oct-13	10:17	Cloudy	005892	2.6460	2.6620	17505.24	17506.24	1.00	1.27	1.27	1.27	76	210
23-Oct-13	08:06	Fine	005895	2.6282	2.6463	17530.24	17531.24	1.00	1.27	1.27	1.27	76	237
23-Oct-13	09:10	Fine	005896	2.6355	2.6524	17531.24	17532.24	1.00	1.27	1.27	1.27	76	222
23-Oct-13	10:20	Fine	005897	2.6244	2.6413	17532.24	17533.24	1.00	1.25	1.25	1.25	75	225



Location: CMA5a - Children Garden opposite to Pedestrian Plaza

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

Date	Sampling	Weather	Filter paper Filter Weight, g			Elapse Time, hr Sampling			Flo	w Rate, m³/ı	Total	TSP Level,	
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Sep-13	08:00	Rainy	007220	2.6760	2.8762	18384.78	18408.78	24.00	1.31	1.31	1.31	1882	106
04-Oct-13	08:00	Fine	005358	2.8338	3.1253	18411.78	18435.77	23.99	1.33	1.32	1.32	1907	153
10-Oct-13	08:00	Fine	005425	2.8275	2.9770	18438.77	18462.77	24.00	1.31	1.31	1.31	1883	79
16-Oct-13	08:00	Cloudy	005409	2.8524	3.1581	18465.77	18489.77	24.00	1.27	1.27	1.27	1830	167
22-Oct-13	08:00	Fine	005879	2.6577	2.9093	18492.77	18516.77	24.00	1.31	1.31	1.31	1889	133

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

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m³
30-Sep-13	08:30	Cloudy	005360	2.8542	2.8617	18408.78	18409.78	1.00	1.31	1.31	1.31	79	95
30-Sep-13	09:41	Cloudy	005361	2.8382	2.8504	18409.78	18410.78	1.00	1.31	1.31	1.31	79	155
30-Sep-13	13:05	Cloudy	005359	2.8551	2.8622	18410.78	18411.78	1.00	1.31	1.31	1.31	79	90
05-Oct-13	13:09	Fine	005320	2.8519	2.8631	18435.77	18436.77	1.00	1.32	1.32	1.32	79	141
05-Oct-13	14:14	Fine	005408	2.8461	2.8631	18436.77	18437.77	1.00	1.32	1.32	1.32	79	214
05-Oct-13	15:19	Fine	005349	2.8519	2.8665	18437.77	18438.77	1.00	1.32	1.32	1.32	79	184
11-Oct-13	08:32	Fine	005350	2.8547	2.8641	18462.77	18463.77	1.00	1.33	1.33	1.33	80	118
11-Oct-13	09:41	Fine	005352	2.8437	2.8560	18463.77	18464.77	1.00	1.33	1.33	1.33	80	154
11-Oct-13	10:45	Fine	005410	2.8406	2.8518	18464.77	18465.77	1.00	1.33	1.33	1.33	80	141
17-Oct-13	09:20	Cloudy	005887	2.6468	2.6686	18489.77	18490.77	1.00	1.29	1.29	1.29	78	281
17-Oct-13	10:25	Cloudy	005880	2.6588	2.6826	18490.77	18491.77	1.00	1.29	1.29	1.29	78	307
17-Oct-13	13:25	Cloudy	005881	2.6834	2.7019	18491.77	18492.77	1.00	1.31	1.31	1.31	79	235
23-Oct-13	08:21	Fine	007430	2.6421	2.6578	18516.77	18517.77	1.00	1.39	1.39	1.39	84	188
23-Oct-13	09:30	Fine	007465	2.6385	2.6542	18517.77	18518.77	1.00	1.31	1.31	1.31	79	199
23-Oct-13	10:35	Fine	007443	2.6593	2.6664	18518.77	18519.77	1.00	1.31	1.31	1.31	79	90



Location: CMA6a - WD2 PRE Office

 $\begin{array}{ccc} \text{Report on 24-hour TSP monitoring} \\ \text{Action Level -} & 187.3 & \mu\text{g/m3} \\ \text{Limit Level -} & 260 & \mu\text{g/m3} \end{array}$

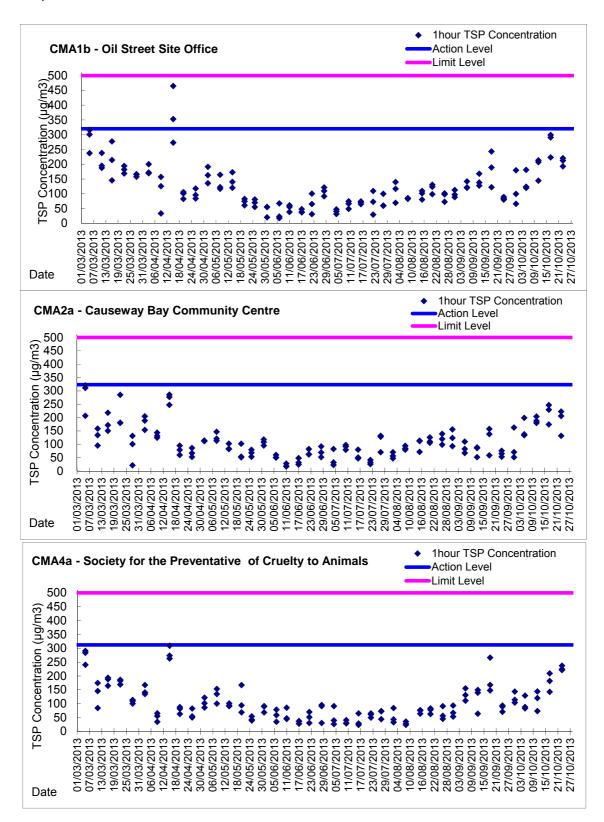
Date	Sampling	Weather	Filter paper Filter Weight, g			Elapse Time	Elapse Time, hr Samplin		Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Sep-13	08:00	Rainy	005423	2.8289	2.9901	16686.77	16710.77	24.00	1.30	1.30	1.30	1866	86
04-Oct-13	08:00	Fine	005342	2.8543	3.0987	16713.77	16737.77	24.00	1.33	1.33	1.33	1917	127
10-Oct-13	08:00	Fine	005426	2.8444	2.9915	16740.78	16764.78	24.00	1.34	1.33	1.33	1921	77
16-Oct-13	08:00	Cloudy	005404	2.8435	3.0718	16767.78	16791.78	24.00	1.30	1.30	1.30	1873	122
22-Oct-13	08:00	Fine	005862	2.6707	2.9063	16794.78	16818.78	24.00	1.30	1.28	1.29	1859	127

Report on 1-hour TSP monitoring Action Level - 300.1 μ g/m 3 Limit Level - 500 μ g/m 3

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m³
30-Sep-13	08:15	Cloudy	005362	2.8402	2.8538	16710.77	16711.77	1.00	1.28	1.28	1.28	77	177
30-Sep-13	09:20	Cloudy	005353	2.8348	2.8465	16711.77	16712.77	1.00	1.36	1.36	1.36	81	144
30-Sep-13	13:03	Cloudy	005341	2.8709	2.8820	16712.77	16713.77	1.00	1.28	1.28	1.28	77	145
05-Oct-13	13:03	Fine	005448	2.8303	2.8433	16737.77	16738.77	1.00	1.29	1.29	1.29	78	168
05-Oct-13	14:20	Fine	005411	2.8323	2.8438	16738.77	16739.77	1.00	1.29	1.29	1.29	78	148
05-Oct-13	15:25	Fine	005406	2.8405	2.8559	16739.77	16740.77	1.00	1.29	1.29	1.29	78	199
11-Oct-13	08:15	Fine	005356	2.8407	2.8522	16737.77	16738.77	1.00	1.31	1.31	1.31	79	146
11-Oct-13	09:20	Fine	005351	2.8553	2.8630	16738.77	16739.77	1.00	1.31	1.31	1.31	79	98
11-Oct-13	10:30	Fine	005403	2.8313	2.8426	16739.77	16740.77	1.00	1.31	1.31	1.31	79	143
17-Oct-13	08:50	Cloudy	005888	2.6721	2.6933	16791.78	16792.78	1.00	1.30	1.30	1.30	78	271
17-Oct-13	09:52	Cloudy	005886	2.6732	2.6920	16792.78	16793.78	1.00	1.30	1.30	1.30	78	241
17-Oct-13	13:00	Cloudy	007455	2.6500	2.6607	16793.78	16794.78	1.00	1.30	1.30	1.30	78	137
23-Oct-13	08:11	Fine	007431	2.6627	2.6759	16818.78	16819.78	1.00	1.28	1.28	1.28	77	172
23-Oct-13	09:20	Fine	007466	2.6481	2.6653	16819.78	16820.78	1.00	1.28	1.28	1.28	77	224
23-Oct-13	10:25	Fine	007464	2.6140	2.6248	16820.78	16821.78	1.00	1.28	1.28	1.28	77	141

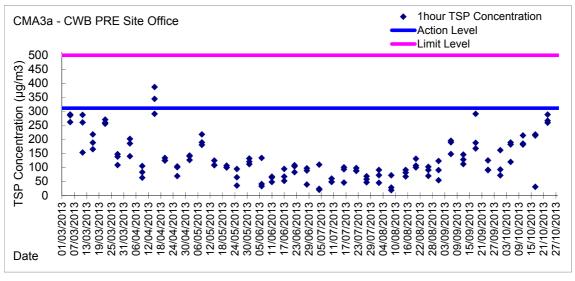


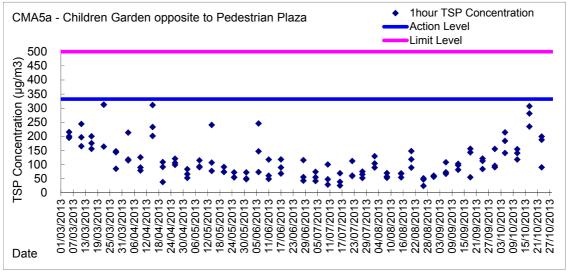
Graphic Presentation of 1 hour TSP Result

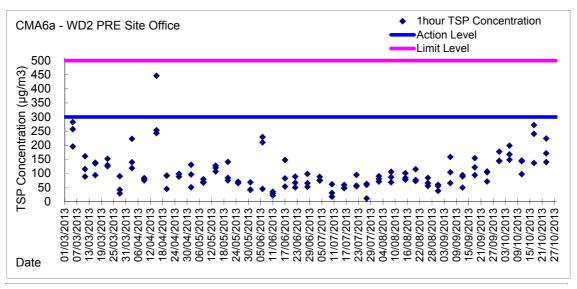




Graphic Presentation of 1 hour TSP Result

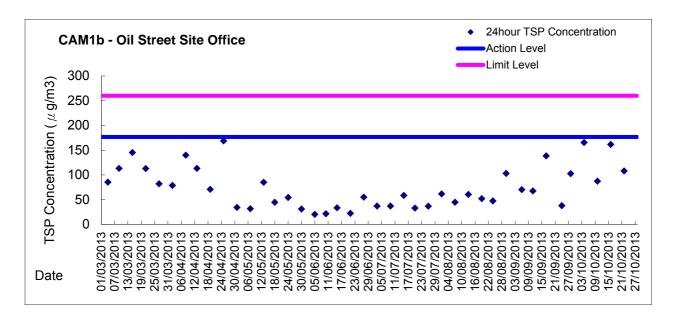


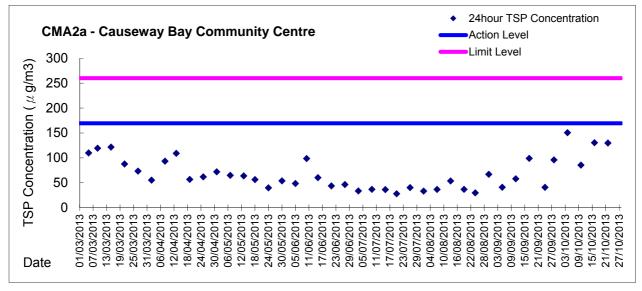


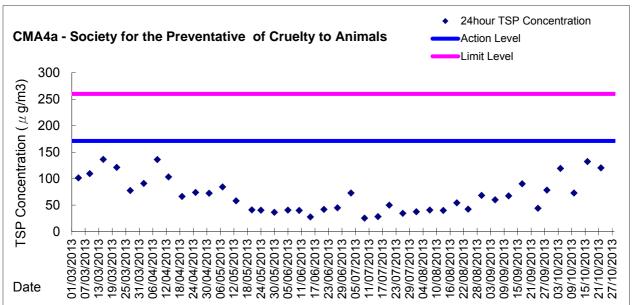




Graphic Presentation of 24 hour TSP Result

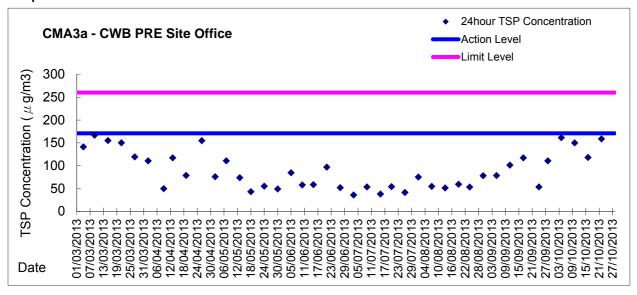


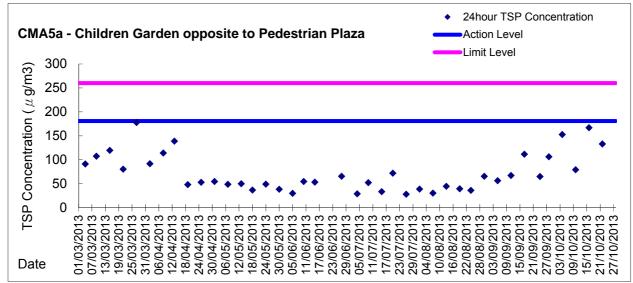


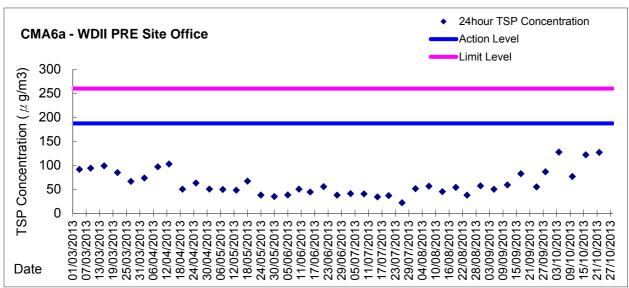




Graphic Presentation of 24 hour TSP Result







Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations



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

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	D	O Satur	ation		DO			Turbid		Suspende	
Bato		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	ilue	Average	Va	mg/L lue	Average	Va	NTU llue	Average	Mg Value	J/L Average
30/9/2013	17:00	Cloudy	Middle	3.5	28.41	28.41	28.41	8.00	8.00	8.00	32.13	32.13	32.13	70.0	70.1	69.9	4.60	4.60	4.59	5.21	5.34	5.30	3	2.50
00/0/2010	17:02	Cloudy	Middle	3.5	28.41	28.41	20.41	8.00	8.00	0.00	32.13	32.13	02.10	69.9	69.7	00.0	4.59	4.58	4.00	5.31	5.32	0.00	2	2.00
2/10/2013	17:48	Fine	Middle	2.5	28.33	28.33	28.35	7.56	7.56	7.56	32.28	32.28	32.28	91.7	91.6	91.6	5.96	5.96	5.95	7.33	7.31	7.29	2	2.50
2.10/2010	17:50	0	Middle	2.5	28.36	28.36	20.00	7.55	7.55	7.00	32.28	32.28	02.20	91.5	91.4	01.0	5.95	5.94	0.00	7.30	7.20	7.20	3	
4/10/2013	18:30	Fine	Middle	3.5	27.93	27.93	27.94	7.69	7.69	7.66	32.98	32.98	32.98	109.6	109.3	109.2	7.15	7.13	7.12	8.04	8.00	7.92	5	5.50
47 10/2010	18:32	1 1110	Middle	3.5	27.94	27.94	27.04	7.63	7.63	7.00	32.98	32.98	02.00	109.0	108.7	100.2	7.11	7.09	7.12	7.85	7.78	7.02	6	0.00
7/10/2013	19:06	Fine	Middle	2.5	28.59	28.59	28.57	7.61	7.61	7.63	32.98	32.97	33.00	77.1	77.1	77.1	4.98	4.98	4.98	8.83	8.82	8.80	8	7.50
7710/2013	19:07	TINC	Middle	2.5	28.54	28.54	20.57	7.65	7.65	7.00	33.01	33.02	33.00	77.0	77.0	77.1	4.97	4.97	4.50	8.80	8.74	0.00	7	7.50
9/10/2013	8:15	Fine	Middle	3.0	27.20	27.20	27.20	8.01	8.01	8.01	31.85	31.85	31.85	80.2	79.5	79.0	5.32	5.27	5.23	7.87	7.87	7.87	3	2.50
9/10/2013	8:17	Tille	Middle	3.0	27.20	27.20	21.20	8.01	8.01	0.01	31.85	31.85	31.03	78.5	77.6	79.0	5.20	5.14	5.25	7.94	7.81	7.07	2	2.50
11/10/2013	9:25	Fine	Middle	2.5	28.12	28.12	28.12	7.74	7.74	7.74	33.26	33.26	32.76	80.5	80.3	80.2	5.22	5.21	5.20	9.52	9.47	9.46	14	14.50
11/10/2013	9:27	rille	Middle	2.5	28.12	28.12	20.12	7.74	7.74	7.74	32.25	32.25	32.70	80.1	79.8	60.2	5.20	5.18	5.20	9.42	9.41	9.40	15	14.30
15/10/2013	17:30	Fine	Middle	3.0	27.65	27.65	27.65	7.69	7.69	7.69	33.46	33.46	33.46	105.3	104.4	104.1	6.88	6.82	6.80	8.00	8.03	8.02	8	8.50
15/10/2015	17:32	rille	Middle	3.0	27.65	27.65	27.00	7.69	7.69	7.09	33.46	33.46	33.40	103.6	102.9	104.1	6.77	6.72	0.00	8.04	8.00	0.02	9	6.50
17/10/2013	18:20	Fine	Middle	3.0	26.16	26.16	26.16	7.82	7.82	7.82	33.37	33.37	33.37	106.9	106.2	106.0	7.17	7.13	7.11	6.39	6.35	6.35	6	5.50
17/10/2013	18:22	rille	Middle	3.0	26.16	26.16	20.10	7.82	7.82	7.02	33.37	33.37	33.31	105.7	105.2	100.0	7.09	7.06	7.11	6.34	6.33	0.33	5	5.50
19/10/2013	17:55	Fine	Middle	2.5	27.00	27.00	27.00	8.25	8.25	8.25	32.00	32.00	32.00	85.7	86.7	86.2	5.71	5.78	5.75	6.46	6.59	6.32	5	5.50
19/10/2013	17:56	rille	Middle	2.5	27.00	27.00	27.00	8.25	8.25	6.25	32.00	32.00	32.00	86.3	85.9	60.2	5.75	5.74	5.75	6.13	6.09	0.32	6	5.50
21/10/2013	21:42	Haze	Middle	2.5	26.30	26.30	26.30	8.15	8.15	8.15	30.53	30.53	31.28	75.0	77.1	76.9	5.05	5.24	5.19	5.06	5.11	5.03	10	10.00
21/10/2013	21:43	паге	Middle	2.5	26.30	26.30	20.30	8.15	8.15	0.15	32.02	32.02	31.20	78.1	77.2	70.9	5.26	5.20	5.19	5.01	4.95	5.03	10	10.00
22/40/2042	19:21	Fine	Middle	2.5	26.00	26.00	26.00	8.14	8.14	0.14	32.07	32.07	22.07	78.1	78.8	70.4	5.29	5.35	F 00	5.42	5.40	F 20	11	10.50
23/10/2013	19:22	Fine	Middle	2.5	26.00	26.00	26.00	8.14	8.14	8.14	32.07	32.07	32.07	78.8	76.6	78.1	5.30	5.19	5.28	5.38	5.34	5.39	10	10.50
26/40/2042	14:35	Fine	Middle	3.0	25.58	25.58	25.50	7.65	7.65	7.64	33.52	33.52	22.40	99.1	98.7	00.4	6.70	6.67	0.05	6.72	6.60	6.60	5	4.50
26/10/2013	14:37	Fine	Middle	3.0	25.58	25.58	25.58	7.62	7.62	7.64	33.46	33.46	33.49	98.0	97.7	98.4	6.62	6.60	6.65	6.58	6.58	6.62	4	4.50

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	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	D	O Satur	ation		DO			Turbid		Suspende	
Bato		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	ilue	Average	Va	mg/L lue	Average	Va	NTU ilue	Average	Mg Value	J/L Average
30/9/2013	14:50	Cloudy	Middle	3.0	27.58	27.58	27.57	7.87	7.87	7.87	32.43	32.43	32.43	56.3	56.1	55.9	3.70	3.69	3.68	8.97	9.05	9.03	7	6.50
00/0/2010	14:52	Cloudy	Middle	3.0	27.56	27.56	27.07	7.87	7.87	7.07	32.43	32.43	02.40	55.7	55.6	00.0	3.67	3.66	0.00	9.05	9.06	0.00	6	0.00
2/10/2013	16:10	Fine	Middle	2.5	28.38	28.37	28.38	7.49	7.49	7.57	32.58	32.58	32.59	95.9	95.7	95.6	6.23	6.21	6.20	7.19	7.19	7.19	6	6.50
2.10/2010	16:12	0	Middle	2.5	28.39	28.39	20.00	7.80	7.48	7.01	32.60	32.60	02.00	95.5	95.2	00.0	6.20	6.17	0.20	7.18	7.18		7	0.00
4/10/2013	17:00	Fine	Middle	3.0	27.47	27.47	27.47	7.63	7.63	7.63	33.08	33.08	33.08	93.9	93.7	93.5	6.17	6.16	6.14	5.90	5.88	5.94	5	5.00
47 10/2010	17:02	1 1110	Middle	3.0	27.47	27.47	27.47	7.63	7.63	7.00	33.08	33.08	00.00	93.2	93.1	00.0	6.12	6.11	0.14	5.98	5.99	0.04	5	0.00
7/10/2013	20:10	Fine	Middle	3.5	28.37	28.38	28.34	7.74	7.74	7.74	33.20	33.20	33.29	80.9	80.7	80.4	5.23	5.22	5.23	7.26	7.24	7.03	8	8.00
7710/2013	20:11	TINC	Middle	3.5	28.30	28.30	20.54	7.74	7.74	7.74	33.37	33.37	55.25	80.1	80.0	00.4	5.26	5.20	5.25	6.83	6.79	7.00	8	0.00
9/10/2013	10:25	Fine	Middle	3.0	27.80	27.80	27.80	8.21	8.21	8.21	32.10	32.10	32.10	81.7	81.1	80.8	5.17	5.32	5.26	12.16	11.98	11.96	7	7.50
3/10/2013	10:27	TINC	Middle	3.0	27.80	27.80	27.00	8.21	8.21	0.21	32.10	32.10	32.10	80.3	80.1	00.0	5.27	5.26	5.20	11.86	11.85	11.50	8	7.50
11/10/2013	10:30	Fine	Middle	3.0	27.91	27.91	27.93	7.42	7.42	7.42	33.03	33.03	33.03	68.2	68.1	68.1	4.45	4.44	4.44	7.79	7.75	7.84	5	6.00
11/10/2013	10:32	riile	Middle	3.0	27.94	27.94	27.93	7.41	7.41	7.42	33.03	33.03	33.03	68.1	68.0	00.1	4.44	4.43	4.44	8.00	7.83	7.04	7	0.00
15/10/2013	16:00	Fine	Middle	2.5	27.37	27.37	27.39	7.31	7.31	7.32	33.42	33.42	33.42	86.1	85.9	85.8	5.65	5.64	5.63	9.87	9.87	0.00	6	6.50
15/10/2015	16:02	riile	Middle	2.5	27.41	27.41	27.39	7.33	7.33	7.52	33.41	33.41	33.42	85.7	85.6	65.6	5.62	5.62	5.05	9.88	9.88	9.88	7	0.50
17/10/2013	16:30	Fine	Middle	3.0	26.06	26.06	26.06	7.78	7.78	7.78	33.53	33.53	33.53	75.4	75.0	75.0	5.06	5.03	5.03	8.01	7.99	7.98	8	8.50
17/10/2013	16:32	riile	Middle	3.0	26.06	26.06	20.00	7.78	7.78	7.76	33.53	33.53	33.33	74.8	74.6	75.0	5.02	5.01	5.05	7.94	7.96	7.90	9	6.50
19/10/2013	20:05	Fine	Middle	3.5	26.30	26.30	26.30	8.28	8.28	8.28	32.15	32.15	32.15	84.9	85.0	84.3	5.75	5.73	5.69	6.98	6.96	6.75	6	6.00
19/10/2013	20:06	riile	Middle	3.5	26.30	26.30	20.30	8.28	8.28	0.20	32.15	32.15	32.13	83.4	84.0	04.3	5.61	5.66	5.09	6.76	6.28	0.75	6	0.00
21/10/2013	20:10	Haze	Middle	3.0	26.30	26.30	26.30	8.24	8.24	8.24	32.31	32.31	32.32	82.6	83.4	83.0	5.56	5.61	5.58	8.53	8.42	9.47	12	12.50
21/10/2013	20:11	Паде	Middle	3.0	26.30	26.30	20.30	8.24	8.24	0.24	32.32	32.32	32.32	82.5	83.4	65.0	5.55	5.61	5.56	8.44	8.48	8.47	13	12.50
22/40/2042	22:10	Fine	Middle	3.5	25.20	25.20	0E 4E	8.20	8.20	0.20	32.25	32.25	22.25	78.6	79.8	70.0	5.40	5.48	F 44	6.90	6.86	6.00	12	11.50
23/10/2013	22:11	Fine	Middle	3.5	25.10	25.10	25.15	8.20	8.20	8.20	32.25	32.25	32.25	79.0	79.2	79.2	5.42	5.44	5.44	6.79	6.76	6.83	11	11.50
26/40/2042	15:50	Fine	Middle	2.5	24.94	24.94	24.00	7.69	7.69	7.60	33.49	33.49	22.52	72.9	72.9	72.0	4.99	4.99	F 00	5.60	5.61	F.60	3	2.00
26/10/2013	15:52	Fine	Middle	2.5	24.86	24.86	24.90	7.69	7.69	7.69	33.54	33.54	33.52	73.0	73.1	73.0	5.00	5.00	5.00	5.62	5.63	5.62	3	3.00

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	Samplin	g Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid		Suspende	
Bute		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	NTU lue	Average	mg Value	g/L Average
30/9/2013	14:19	Cloudy	Middle	1.5	27.73	27.73	27.72	7.61	7.61	7.61	30.88	30.88	30.89	37.1	37.0	37.2	2.45	2.45	2.46	5.36	5.37	5.34	7	6.50
30/9/2013	14:20	Cloudy	Middle	1.5	27.71	27.71	21.12	7.61	7.61	7.01	30.89	30.89	30.69	37.2	37.3	37.2	2.46	2.47	<u>2.46</u>	5.31	5.32	5.34	6	0.50
0/40/0040	15:47	Ein-	Middle	1.5	28.60	28.60	00.00	7.07	7.07	7.07	31.13	31.13	04.40	50.7	50.8	54.0	3.30	3.31	0.00	4.45	4.34	4.00	5	4.50
2/10/2013	15:49	Fine	Middle	1.5	28.65	28.65	28.63	7.07	7.07	7.07	31.18	31.18	31.16	51.1	51.4	51.0	3.33	3.35	3.32	4.38	4.37	4.39	4	4.50
4/40/0040	16:30	Fin.	Middle	1.5	27.80	27.80	07.00	7.43	7.43	7.40	31.53	31.53	04.50	91.6	91.5	04.4	6.04	6.03	0.00	6.14	6.13	0.40	3	2.00
4/10/2013	16:32	Fine	Middle	1.5	27.80	27.80	27.80	7.43	7.43	7.43	31.53	31.53	31.53	91.2	91.2	91.4	6.02	6.02	6.03	6.10	6.09	6.12	3	3.00
7/40/0040	19:35	Fin.	Middle	1.5	28.49	28.49	00.40	7.51	7.51	7.50	31.60	31.61	04.04	65.9	65.8	05.0	4.28	4.27	4.05	2.62	2.60	0.00	4	4.50
7/10/2013	19:36	Fine	Middle	1.5	28.47	28.46	28.48	7.49	7.49	7.50	31.62	31.60	31.61	64.9	64.7	65.3	4.22	4.22	4.25	2.67	2.73	2.66	5	4.50
0/40/0040	11:45	Fin.	Middle	1.5	27.70	27.70	07.70	7.99	7.99	7.00	30.92	30.92	20.00	56.1	55.5	55.5	3.71	3.65	0.00	3.59	3.61	0.00	3	0.50
9/10/2013	11:47	Fine	Middle	1.5	27.70	27.70	27.70	7.99	7.99	7.99	30.92	30.92	30.92	54.9	55.3	55.5	3.63	3.66	3.66	3.63	3.63	3.62	2	2.50
	12:17		Middle	1.5	28.50	28.50		7.17	7.17		31.81	31.81		59.7	59.7		3.88	3.89		7.74	7.57		2	
11/10/2013	12:19	Fine	Middle	1.5	28.56	28.56	28.53	7.15	7.15	7.16	31.81	31.81	31.81	59.6	59.7	59.7	3.87	3.88	3.88	7.54	7.53	7.60	4	3.00
45/40/0040	15:32	-	Middle	1.5	28.36	28.36	20.00	7.06	7.06	7.00	32.48	32.48	00.40	61.8	61.7	04.7	4.01	4.00	4.00	7.17	7.09	7.04	3	0.00
15/10/2013	15:34	Fine	Middle	1.5	28.40	28.40	28.38	7.05	7.05	7.06	32.49	32.49	32.49	61.6	61.6	61.7	4.00	4.00	4.00	6.90	6.98	7.04	3	3.00
17/10/0010	16:00	-	Middle	1.5	26.80	26.80	00.70	7.60	7.60	7.04	32.67	32.67	00.00	51.0	50.4	50.0	3.40	3.36	0.07	4.00	3.97	0.00	3	0.00
17/10/2013	16:02	Fine	Middle	1.5	26.77	26.77	26.79	7.61	7.61	7.61	32.68	32.68	32.68	50.5	50.6	50.6	3.36	3.37	3.37	3.95	3.93	3.96	3	3.00
10/10/0010	19:33	-	Middle	1.5	26.40	26.40	00.40	8.16	8.16	0.40	31.10	31.10	04.40	67.5	67.9	07.4	4.57	4.60	4.57	5.44	5.41	5.00	4	4.50
19/10/2013	19:34	Fine	Middle	1.5	26.40	26.40	26.40	8.15	8.15	8.16	31.09	31.09	31.10	67.3	66.9	67.4	4.56	4.53	4.57	5.19	5.11	5.29	5	4.50
04/40/0040	19:35		Middle	1.5	26.30	26.30	22.22	7.97	7.97	7.00	30.49	30.50	00.50	77.5	78.6	70.0	5.27	5.34	5.00	4.70	4.68	4.05	12	10.50
21/10/2013	19:36	Haze	Middle	1.5	26.30	26.30	26.30	7.98	7.98	7.98	30.50	30.50	30.50	78.0	77.8	78.0	5.31	5.29	5.30	4.59	4.62	4.65	13	12.50
00/40/0045	21:37	Fin-	Middle	1.5	25.30	25.30	05.00	8.06	8.05	0.04	29.84	29.85	00.05	58.1	56.7	57.7	4.04	3.93	4.00	3.12	3.14	0.44	5	5.00
23/10/2013	21:38	Fine	Middle	1.5	25.30	25.30	25.30	8.03	8.03	8.04	29.85	29.85	29.85	57.8	58.0	57.7	4.01	4.03	4.00	3.20	3.08	3.14	5	5.00
00/40/0045	17:42	<u>-</u>	Middle	1.5	25.09	25.09	05.00	7.60	7.60	7.00	32.52	32.52	00.50	60.1	59.8	50.7	4.11	4.10	4.00	7.28	7.28	7.00	5	4.50
26/10/2013	17:44	Fine	Middle	1.5	25.09	25.09	25.09	7.60	7.60	7.60	32.52	32.52	32.52	59.5	59.4	59.7	4.08	4.07	4.09	7.29	7.31	7.29	4	4.50

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	Samplin	g Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va		Average	Va	lue	Average		Average
30/9/2013	14:57	Cloudy	Middle	2.0	27.70	27.70	27.65	8.18	8.18	8.17	30.59	30.59	30.60	60.8	61.1	61.1	4.04	4.06	4.06	5.80	5.74	5.74	4	5.00
	14:59		Middle	2.0	27.60	27.60		8.15	8.15		30.61	30.61		61.4	61.2		4.08	4.07		5.73	5.69		6	
2/10/2013	15:13	Fine	Middle	2.5	28.40	28.40	28.35	8.08	8.08	8.09	30.75	30.75	30.76	70.4	70.1	70.4	4.62	4.60	4.62	4.52	4.51	4.51	4	3.50
	15:15		Middle	2.5	28.30	28.30		8.09	8.09		30.76	30.76		70.2	70.7		4.61	4.64		4.50	4.49		3	<u> </u>
4/10/2013	16:40	Fine	Middle	2.0	28.10	28.10	28.05	8.15	8.15	8.13	30.87	30.87	30.90	54.5	54.5	54.4	3.59	3.59	3.58	5.87	6.15	5.95	4	4.50
	16:42		Middle	2.0	28.00	28.00		8.11	8.11		30.92	30.92		54.3	54.2		3.58	3.57		5.89	5.89		5	
7/10/2013	16:55	Fine	Middle	2.0	27.80	27.80	27.80	8.12	8.12	8.12	31.11	31.11	31.11	66.6	66.7	67.0	4.41	4.42	4.44	6.14	6.13	6.13	4	4.50
	16:57	0	Middle	2.0	27.80	27.80	21.00	8.12	8.12	02	31.10	31.10	•	67.0	67.7	07.10	4.44	4.48		6.12	6.11	0.10	5	
9/10/2013	10:10	Fine	Middle	3.0	27.50	27.50	27.50	8.10	8.10	8.10	31.13	31.13	31.13	60.8	60.6	60.5	4.03	4.02	4.01	6.46	6.42	6.47	6	7.00
9/10/2013	10:12	rille	Middle	3.0	27.50	27.50	27.50	8.10	8.10	0.10	31.13	31.13	31.13	61.1	59.5	00.5	4.05	3.95	4.01	6.45	6.55	0.47	8	7.00
	11:30		Middle	2.0	28.30	28.30		8.32	8.32		34.00	34.00		67.1	66.9		4.32	4.31		7.28	7.26		7	
11/10/2013	11:32	Fine	Middle	2.0	28.30	28.30	28.30	8.32	8.32	8.32	33.99	33.99	34.00	66.8	67.0	67.0	4.32	4.31	4.32	7.23	7.21	7.25	6	6.50
	15:53		Middle	2.0	27.40	27.40		8.45	8.45		31.20	31.20		62.8	62.2		4.12	4.15		6.55	6.44		8	
15/10/2013	15:55	Fine	Middle	2.0	27.40	27.40	27.40	8.44	8.44	8.45	31.28	31.28	31.24	62.9	62.5	62.6	4.20	4.17	4.16	6.38	6.27	6.41	8	8.00
	16:45		Middle	2.5	26.70	26.70		8.49	8.49		34.63	34.63		66.4	66.5		4.40	4.40		5.55	5.40		5	
17/10/2013	16:47	Fine	Middle	2.5	26.50	26.50	26.60	8.49	8.49	8.49	34.65	34.65	34.64	65.6	65.7	66.1	4.34	4.35	4.37	5.45	5.44	5.46	6	5.50
	18:38		Middle	2.5	25.70	25.70		8.42	8.42		34.45	34.45		65.7	65.3		4.32	4.30		9.93	9.87		8	
19/10/2013	18:40	Fine	Middle	2.5	25.70	25.70	25.70	8.41	8.41	8.42	34.49	34.49	34.47	65.1	64.9	65.3	4.29	4.27	4.30	9.80	9.84	9.86	10	9.00
	19:39		Middle	3.0	26.30	26.30		8.42	8.42		34.25	34.25		55.2	55.0		3.68	3.67		5.33	5.25		6	
21/10/2013	19:41	Haze	Middle	3.0	0.00	26.20	19.70	8.38	8.38	8.40	34.24	34.24	34.25	54.7	54.5	54.9	3.65	3.64	3.66	5.23	5.22	5.26	8	7.00
	17:49		Middle	2.5	26.10	26.10		8.37	8.37		34.23	34.23		60.3	60.1		4.02	4.01		4.62	4.56		14	
23/10/2013	17:51	Fine	Middle	2.5	26.00	26.00	26.05	8.27	8.27	8.32	34.23	34.23	34.23	59.8	59.7	60.0	3.99	3.99	4.00	4.54	4.52	4.56	16	15.00
	16:37		Middle	2.5	25.30	25.30		8.42	8.42		34.57	34.57		57.6	57.4		3.91	3.90		3.42	3.44		2	
26/10/2013		Fine					25.10			8.42			34.59			56.8			3.86			3.47		2.00
Pomorko:	16:39		Middle	2.5	24.90	24.90		8.41	8.41		34.61	34.61		56.5	55.7		3.84	3.78		3.49	3.51		2	<u> </u>

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	Samplin		Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	llue	Average	Va		Average	Va	lue	Average		Average
30/9/2013	15:36	Cloudy	Middle	2.5	27.80	27.80	27.75	8.14	8.14	8.14	30.64	30.64	30.65	65.3	65.2	65.4	4.34	4.32	4.34	5.90	5.87	5.87	9	8.50
	15:38		Middle	2.5	27.70	27.70		8.13	8.13		30.66	30.66		65.5	65.7		4.35	4.36		5.85	5.84		8	
2/10/2013	15:50	Fine	Middle	2.5	28.50	28.40	28.45	8.08	8.08	8.08	30.79	30.79	30.79	62.3	62.4	62.1	4.09	4.08	4.08	4.42	4.41	4.41	5	5.00
	15:53	-	Middle	2.5	28.40	28.50		8.08	8.09		30.79	30.79		61.7	61.8		4.08	4.06		4.40	4.41		5	
4/10/2013	17:16	Fine	Middle	2.5	28.10	28.10	28.10	8.14	8.14	8.13	30.80	30.80	30.85	61.0	60.2	60.5	4.01	3.96	3.97	5.45	5.45	5.33	6	5.50
47 10/2010	17:18	1 1110	Middle	2.5	28.10	28.10	20.10	8.11	8.11	0.10	30.90	30.90	00.00	60.6	60.0	00.0	3.97	3.95	0.07	5.44	4.97	0.00	5	0.00
7/10/2013	17:18	Fine	Middle	2.5	27.80	27.80	27.80	8.11	8.11	8.11	31.11	31.11	31.11	66.4	66.6	66.6	4.39	4.41	4.41	7.42	7.48	7.46	10	10.50
7/10/2013	17:20	rille	Middle	2.5	27.80	27.80	27.00	8.11	8.11	0.11	31.11	31.11	31.11	66.5	66.8	00.0	4.40	4.42	4.41	7.49	7.46	7.40	11	10.50
0/40/0040	10:37	Fine	Middle	2.5	27.70	27.70	07.70	8.08	8.08	0.00	31.06	31.06	04.00	63.6	63.0	00.0	4.21	4.17	4.40	5.22	5.19	5.04	6	0.00
9/10/2013	10:39	Fine	Middle	2.5	27.70	27.70	27.70	8.08	8.08	8.08	31.06	31.06	31.06	63.2	63.1	63.2	4.19	4.18	4.19	5.24	5.20	5.21	6	6.00
	10:55		Middle	2.5	27.80	27.80		8.18	8.18		33.90	33.90		60.3	60.8		3.94	3.98		4.69	4.73		4	
11/10/2013	10:57	Fine	Middle	2.5	27.60	27.60	27.70	8.21	8.21	8.20	33.87	33.87	33.89	60.7	60.9	60.7	3.97	3.98	3.97	4.74	4.75	4.73	4	4.00
	16:31		Middle	2.5	27.70	27.70		8.45	8.45		34.33	34.33		63.6	64.3		4.14	4.18		6.56	6.58		7	
15/10/2013	16:33	Fine	Middle	2.5	27.60	27.60	27.65	8.44	8.44	8.45	34.40	34.40	34.37	64.6	63.6	64.0	4.20	4.14	4.17	6.59	6.59	6.58	8	7.50
	17:27		Middle	3.0	26.70	26.70		8.48	8.48		34.56	34.56		63.8	63.5		4.22	4.19		4.70	4.72		6	
17/10/2013	17:29	Fine	Middle	3.0	26.60	26.60	26.65	8.48	8.48	8.48	34.65	34.65	34.61	62.5	62.9	63.2	4.13	4.15	4.17	4.74	4.75	4.73	6	6.00
	17:45		Middle	3.0	26.60	26.60		8.45	8.45		34.44	34.44		67.0	66.6		4.43	4.41		4.98	4.95		3	
19/10/2013	17:47	Fine	Middle	3.0	26.60	26.60	26.60	8.45	8.45	8.45	34.43	34.43	34.44	66.5	66.3	66.6	4.41	4.40	4.41	4.88	4.91	4.93	4	3.50
	20:29		Middle	3.0	26.50	26.50		8.38	8.38		34.27	34.27		61.9	61.8		4.10	4.10		5.90	5.92		10	
21/10/2013	20:31	Haze	Middle	3.0	26.50	26.50	26.50	8.38	8.38	8.38	34.22	34.22	34.25	61.4	61.3	61.6	4.07	4.07	4.09	5.94	6.00	5.94	9	9.50
	18:23		Middle	2.5	26.00	26.00		8.35	8.35		34.24	34.24		61.3	61.1		4.10	4.09		3.94	4.00		12	
23/10/2013	18:25	Fine	Middle	2.5	25.90	25.90	25.95	8.34	8.34	8.35	34.24	34.24	34.24	60.6	60.4	60.9	4.06	4.05	4.08	4.02	4.03	4.00	11	11.50
	17:13		Middle	3.0	25.60	25.60		8.41	8.41		34.55	34.55		59.4	57.8		4.01	3.90		6.40	6.40	1	7	
26/10/2013	17:15	Fine	Middle	3.0	25.20	25.20	25.40	8.42	8.42	8.42	34.57	34.57	34.56	58.9	60.4	59.1	3.98	4.08	3.99	6.38	6.38	6.39	6	6.50

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		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/9/2013	15:20	Cloudy	Middle	2.5	27.70	27.70	27.70	8.14	8.14	8.14	30.63	30.63	30.63	63.9	65.0	64.6	4.25	4.32	4.30	4.42	4.43	4.45	4	4.50
30/9/2013	15:22	Cloudy	Middle	2.5	27.70	27.70	27.70	8.14	8.14	0.14	30.63	30.63	30.03	64.8	64.6	04.0	4.31	4.30	4.50	4.46	4.48	4.45	5	4.50
2/10/2013	15:36	Fine	Middle	2.5	28.60	28.60	28.60	8.11	8.11	8.11	30.76	30.76	30.76	67.8	67.5	68.2	4.43	4.46	4.48	4.34	4.32	4.32	5	4.00
2/10/2013	15:38	Tille	Middle	2.5	28.60	28.60	20.00	8.10	8.10	0.11	30.76	30.76	30.70	68.6	68.9	00.2	4.48	4.56	4.40	4.31	4.30	4.02	3	4.00
4/10/2013	17:03	Fine	Middle	3.0	28.10	28.10	28.05	8.14	8.14	8.13	30.93	30.93	30.95	66.7	61.4	63.3	4.39	4.05	4.17	5.38	5.97	5.33	6	6.00
471072010	17:05	Tillo	Middle	3.0	28.00	28.00	20.00	8.11	8.11	0.10	30.96	30.96	00.00	62.0	62.9	00.0	4.10	4.15	7.17	4.98	4.98	0.00	6	0.00
7/10/2013	17:12	Fine	Middle	2.0	27.80	27.80	27.80	8.11	8.11	8.11	31.05	31.05	31.05	65.6	66.0	66.1	4.34	4.37	4.38	6.23	6.24	6.26	5	6.00
7710/2013	17:14	Tillo	Middle	2.0	27.80	27.80	27.00	8.11	8.11	0.11	31.05	31.05	31.03	66.5	66.4	00.1	4.41	4.40	4.50	6.26	6.31	0.20	7	0.00
9/10/2013	10:30	Fine	Middle	2.5	27.30	27.30	27.30	8.07	8.07	8.07	31.10	31.10	31.10	59.0	58.7	58.3	3.92	3.90	3.90	3.98	3.99	4.00	4	4.50
0/10/2010	10:32	Tillo	Middle	2.5	27.30	27.30	27.00	8.07	8.07	0.07	31.10	31.10	01.10	58.3	57.0	00.0	3.98	3.80	0.00	4.01	4.02	4.00	5	4.00
11/10/2013	11:07	Fine	Middle	2.5	27.70	27.70	27.70	8.29	8.29	8.29	33.87	33.87	33.87	61.8	62.0	62.3	4.03	4.05	4.07	5.05	5.06	5.07	6	5.50
11/10/2013	11:09	Tille	Middle	2.5	27.70	27.70	21.10	8.29	8.29	0.29	33.87	33.87	33.07	62.5	62.8	02.3	4.09	4.10	4.07	5.07	5.08	3.07	5	3.30
15/10/2013	-	Fine	Middle	-	-	-		-	-		-	-	_	-	-		-	-	_	-	-		-	
13/10/2013	-	Tillo	Middle	-	-	-		-	-		-	-		-	-	_	-	-	_	-	-		-	
17/10/2013	17:14	Fine	Middle	3.0	26.60	26.60	26.50	8.45	8.45	8.44	34.67	34.67	34.66	60.4	59.2	59.1	4.00	3.92	3.91	4.56	4.57	4.55	3	3.00
17/10/2013	17:16	Tille	Middle	3.0	26.40	26.40	20.30	8.42	8.42	0.44	34.65	34.65	34.00	58.2	58.4	39.1	3.86	3.87	3.91	4.50	4.58	4.55	3	3.00
19/10/2013	17:54	Fine	Middle	3.0	26.70	26.70	26.65	8.43	8.43	8.43	34.40	34.40	34.39	63.4	63.3	63.2	4.19	4.19	4.18	5.79	5.77	5.72	4	5.00
19/10/2013	17:56	Tille	Middle	3.0	26.60	26.60	20.03	8.42	8.42	0.43	34.38	34.38	34.39	63.1	62.9	03.2	4.18	4.16	4.10	5.68	5.63	5.72	6	3.00
21/10/2013	20:16	Haze	Middle	2.5	26.20	26.20	26.15	8.37	8.37	8.37	34.26	34.26	34,24	58.7	58.6	58.5	3.92	3.92	3.91	3.81	3.80	3.84	8	8.50
21/10/2013	20:18	Паде	Middle	2.5	26.10	26.10	20.10	8.37	8.37	0.31	34.21	34.21	34.24	58.4	58.1	36.3	3.91	3.89	3.81	3.82	3.94	3.04	9	6.50
22/40/2042	18:14	Fine	Middle	2.5	25.90	25.90	25.00	8.36	8.36	0.26	33.83	33.83	24.04	65.5	65.3	65.0	4.40	4.39	4.20	5.73	5.71	F 60	13	12.50
23/10/2013	18:16	Fine	Middle	2.5	25.70	25.70	25.80	8.35	8.35	8.36	34.25	34.25	34.04	65.1	65.0	65.2	4.38	4.38	4.39	5.66	5.66	5.69	12	12.50
26/40/2042	17:08	Fine	Middle	3.0	25.20	25.30	25.20	8.39	8.39	0.40	34.52	34.52	24.52	60.6	60.7	64.0	4.11	4.12	4.44	7.13	7.12	7.44	8	7.00
26/10/2013	17:10	Fine	Middle	3.0	25.30	25.30	25.28	8.40	8.40	8.40	34.53	34.53	34.53	61.3	61.2	61.0	4.16	4.15	4.14	7.10	7.09	7.11	6	7.00

Remarks

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2013.

Due to damaged geotextile enclosing the silt screen on 15 October 2013, water quality monitoring at P3 during flood tide was cancelled.



Water Monitoring Result at P4 - SOC Mid-Flood Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU			led Solids g/L
			r	m	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/9/2013	15:16	Cloudy	Middle	2.5	27.60	27.60	27.60	0.14	8.14	6.14	30.60	30.60	30.60	63.2	63.4	63.5	4.21	4.22	4.23	4.15	4.16	4.18	6	6.00
30/9/2013	15:18	Cloudy	Middle	2.5	27.60	27.60	27.00	8.14	8.14	0.14	30.60	30.60	30.00	63.7	63.8	03.5	4.24	4.25	4.23	4.19	4.22	4.10	6	0.00
2/10/2013	15:31	Fine	Middle	2.0	28.70	28.70	28.70	8.11	8.11	8.11	30.76	30.76	30.76	66.3	66.5	66.7	4.32	4.34	4.35	4.87	4.86	4.82	4	3.50
2/10/2013	15:33	Tille	Middle	2.0	28.70	28.70	20.70	8.11	8.11	0.11	30.76	30.76	30.70	66.7	67.1	00.7	4.35	4.37	4.55	4.79	4.76	4.02	3	5.50
4/10/2013	16:50	Fine	Middle	2.5	28.10	28.10	28.10	8.13	8.13	8.13	30.86	30.86	30.88	56.3	56.1	56.3	3.71	3.70	3.72	6.13	6.19	6.19	6	6.00
	16:52		Middle	2.5	28.10	28.10		8.12	8.12		30.89	30.89		56.9	56.0		3.75	3.6*		6.22	6.22		6	
7/10/2013	17:07	Fine	Middle	2.0	28.00	28.00	28.00	8.10	8.10	8.10	31.04	31.04	31.04	66.0	65.9	66.0	4.36	4.34	4.35	5.73	5.71	5.70	6	6.50
1710,2010	17:09	0	Middle	2.0	28.00	28.00	20.00	8.10	8.10	5.10	31.04	31.04	01.01	65.6	66.3	00.0	4.32	4.37		5.69	5.68	00	7	0.00
9/10/2013	10:22	Fine	Middle	2.5	27.50	27.50	27.50	8.11	8.11	8.10	31.01	31.01	31.02	59.9	58.3	59.1	3.97	3.87	3.93	6.73	6.73	6.68	7	7.00
071072010	10:24		Middle	2.5	27.50	27.50	27.00	8.09	8.09	5.10	31.02	31.02	01.02	59.1	59.2	00.1	3.93	3.93	0.00	6.65	6.61	0.00	7	1.00
11/10/2013	11:18	Fine	Middle	2.5	28.00	28.00	28.00	8.32	8.32	8.32	33.97	33.97	33.97	61.1	62.0	62.2	3.95	4.02	4.03	8.33	8.34	8.31	10	9.50
11/10/2010	11:20	Tillo	Middle	2.5	28.00	28.00	20.00	8.32	8.32	0.02	33.97	33.97	00.07	62.9	62.7	OZ.Z	4.07	4.06	4.00	8.32	8.26	0.01	9	0.00
15/10/2013	16:01	Fine	Middle	3.0	27.40	27.40	27.35	8.44	8.44	8.44	34.44	34.44	34.45	64.6	64.9	64.8	4.22	4.24	4.24	8.23	8.22	8.22	10	10.50
10/10/2010	16:03	Tillo	Middle	3.0	27.30	27.30	27.00	8.44	8.44	0.44	34.46	34.46	04.40	65.3	64.4	04.0	4.27	4.21	7.2-7	8.22	8.22	0.22	11	10.00
17/10/2013	17:05	Fine	Middle	2.5	26.70	26.70	26.60	8.49	8.49	8.49	34.45	34.45	34.53	63.0	63.3	62.9	4.17	4.18	4.16	6.72	6.72	6.70	8	7.50
17710/2010	17:07	Tillo	Middle	2.5	26.50	26.50	20.00	8.49	8.49	0.40	34.60	34.60	04.00	62.3	62.9	02.0	4.12	4.16	4.10	6.68	6.67	0.70	7	7.00
19/10/2013	18:10	Fine	Middle	2.5	26.40	26.40	26.40	8.43	8.43	8.43	34.37	34.37	34.39	69.2	69.0	68.9	4.80	4.79	4.78	5.51	5.46	5.48	5	4.50
13/10/2013	18:12	Tillo	Middle	2.5	26.40	26.40	20.40	8.43	8.43	0.40	34.41	34.41	04.00	68.8	68.5	00.5	4.78	4.76	4.70	5.45	5.49	5.40	4	4.50
21/10/2013	20:02	Haze	Middle	2.5	26.30	26.30	26.25	8.38	8.38	8.38	34.28	34.28	34.26	58.5	58.3	58.3	3.91	3.90	3.90	4.72	4.62	4.65	9	8.50
21/10/2013	20:04	i iazc	Middle	2.5	26.20	26.20	20.23	8.37	8.37	0.30	34.24	34.24	34.20	58.2	58.0	30.3	3.90	3.89	3.50	4.61	4.65	4.03	8	0.30
23/10/2013	18:04	Fine	Middle	2.5	26.10	26.10	26.05	8.35	8.35	8.35	34.25	34.25	34.24	61.4	61.2	61.1	4.11	4.10	4.10	4.69	4.58	4.59	12	11.00
23/10/2013	18:06	FIIIE	Middle	2.5	26.00	26.00	20.00	8.35	8.35	0.33	34.23	34.23	34.24	61.0	60.8	01.1	4.09	4.08	4.10	4.53	4.56	4.08	10	11.00
26/10/2013	16:54	Fine	Middle	3.0	25.10	25.10	25.00	8.41	8.41	8.41	34.61	34.61	34.65	58.3	59.5	58.9	3.96	4.04	3.99	6.11	6.01	6.01	5	4.50
20/10/2013	16:56	FILLE	Middle	3.0	24.90	24.90	25.00	8.41	8.41	0.41	34.68	34.68	34.00	59.2	58.6	56.9	4.02	3.93	3.99	5.97	5.94	0.01	4	4.50

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		g Depth	Wat	er Temp	erature		pH			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va		Average	Va	lue	Average	Va	lue	Average		Average
30/9/2013	15:07	Cloudy	Middle	2.5	27.60	27.60	27.55	8.16	8.16	8.16	30.62	30.62	30.63	65.2	65.4	65.2	4.34	4.35	4.34	6.47	6.48	6.49	7	- 6.50
	15:09		Middle	2.5	27.50	27.50		8.15	8.15		30.63	30.63		65.3	64.9		4.35	4.32		6.50	6.51		6	
2/10/2013	15:26	Fine	Middle	2.0	29.00	29.00	29.00	8.10	8.10	8.10	30.75	30.75	30.76	69.5	69.5	69.8	4.52	4.50	4.53	5.49	5.46	5.46	8	7.50
	15:28		Middle	2.0	29.00	29.00		8.10	8.10		30.76	30.76		69.7	70.5		4.53	4.58		5.45	5.44		7	
4/10/2013	16:53	Fine	Middle	2.5	28.10	28.10	28.05	8.13	8.10	8.12	330.85	30.85	105.86	53.2	54.0	54.4	3.51	3.55	3.59	6.35	6.36	6.35	7	7.00
	16:55		Middle	2.5	28.00	28.00		8.12	8.12		30.87	30.87		55.3	55.1	-	3.65	3.63		6.34	6.33		7	
7/10/2013	17:02	Fine	Middle	2.0	28.30	28.30	28.30	8.10	8.10	8.10	31.06	31.06	31.06	69.0	69.1	69.3	4.53	4.54	4.55	6.26	6.27	6.26	8	8.50
7710/2013	17:04	Tille	Middle	2.0	28.30	28.30	20.50	8.10	8.10	0.10	31.06	31.06	31.00	69.4	69.5	00.0	4.56	4.57	7.55	6.28	6.23	0.20	9	0.50
0/10/2012	10:18	Fine	Middle	2.5	27.50	27.50	27.45	8.12	8.12	0.40	31.07	31.08	24.44	59.1	58.6	50.0	3.92	3.89	2.00	8.01	8.22	8.17	11	10.00
9/10/2013	10:20	Fine	Middle	2.5	27.40	27.40	27.45	8.11	8.11	8.12	31.15	31.15	31.11	58.7	58.6	58.8	3.90	3.89	3.90	8.23	8.22	8.17	9	10.00
	11:28		Middle	2.5	28.10	28.10		8.32	8.32		34.00	34.00		64.6	65.8		4.17	4.25		8.32	8.34		8	
11/10/2013	11:30	Fine	Middle	2.5	28.10	28.10	28.10	8.32	8.32	8.32	34.00	34.00	34.00	66.8	66.6	66.0	4.32	4.30	4.26	8.31	8.29	8.32	6	7.00
	16:10		Middle	3.0	27.50	27.50		8.44	8.44		34.38	34.39		64.4	64.0		4.20	4.18		9.66	9.67		13	
15/10/2013	16:12	Fine	Middle	3.0	27.60	27.60	27.55	8.44	8.44	8.44	34.46	34.46	34.42	64.2	64.8	64.4	4.18	4.23	4.20	9.49	9.48	9.58	12	12.50
	17:00		Middle	2.5	26.40	26.40		8.49	8.49		34.59	34.59		65.2	64.7		4.33	4.30		7.88	7.88		8	
17/10/2013	17:02	Fine	Middle	2.5	26.20	26.20	26.30	8.50	8.50	8.50	34.62	34.62	34.61	64.8	64.3	64.8	4.31	4.27	4.30	7.87	7.87	7.88	7	7.50
	18:22		Middle	2.5	26.50	26.50		8.42	8.42		34.38	34.38		68.1	67.8		4.52	4.50		6.36	6.34		4	
19/10/2013	18:24	Fine	Middle	2.5	26.40	26.40	26.45	8.41	8.41	8.42	34.32	34.32	34.35	67.5	67.2	67.7	4.48	4.46	4.49	6.35	6.41	6.37	6	5.00
	19:50		Middle	3.0	26.00	26.00		8.37	8.37		33.82	33.82		62.8	62.7		4.23	4.23		5.80	5.71		9	
21/10/2013	19:52	Haze	Middle	3.0	25.80	25.80	25.90	8.37	8.37	8.37	33.79	33.79	33.81	62.5	62.3	62.6	4.21	4.20	4.22	5.68	5.77	5.74	9	9.00
	17:57		Middle	2.5	26.00	26.00		8.38	8.38		34.16	34.16		65.1	64.9		4.37	4.35		6.43	6.48	<u> </u>	14	<u> </u>
23/10/2013	17:59	Fine	Middle	2.5	25.80		25.90	8.36		8.37	34.15	34.15	34.16	64.4	64.1	64.6			4.34	6.48	6.49	6.47	12	13.00
					1	25.80			8.36								4.33	4.31						1
26/10/2013	16:48	Fine	Middle	3.0	24.90	24.90	24.85	8.41	8.41	8.42	34.42	34.44	34.43	55.4	55.4	55.1	3.77	3.77	3.75	3.94	3.94	3.94	- 6	5.50
	16:50		Middle	3.0	24.80	24.80		8.42	8.42		34.43	34.43		55.2	54.3		3.76	3.70		3.94	3.94		5	

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		ng Depth	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU			led Solids g/L
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/9/2013	13:40	Cloudy	Middle	3.5	27.47	27.47	27.45	7.85	7.85	7.85	32.22	32.22	32.23	61.5	61.2	62.5	4.06	4.04	4.03	4.54	4.53	4.53	8	7.00
30/9/2013	13:42	Cloudy	Middle	3.5	27.43	27.43	27.43	7.85	7.85	7.05	32.24	32.24	32.23	66.9	60.4	02.5	4.01	3.99	4.03	4.53	4.53	4.55	6	7.00
2/10/2013	15:10	Fine	Middle	3.5	29.52	29.52	29.41	7.38	7.38	7.38	32.33	32.33	32.36	81.5	81.5	81.6	5.21	5.22	5.22	7.08	7.07	7.15	8	7.50
2/10/2013	15:12	Fille	Middle	3.5	29.30	29.30	29.41	7.38	7.38	7.30	32.38	32.38	32.30	81.6	81.6	61.0	5.22	5.22	5.22	7.26	7.18	7.15	7	7.50
4/10/2013	15:57	Fine	Middle	3.5	27.92	27.92	27.92	7.55	7.55	7.55	32.56	32.56	32.56	92.8	92.7	92.7	6.07	6.07	6.07	10.91	10.96	10.83	8	8.00
4/10/2013	15:59	Tille	Middle	3.5	27.92	27.92	21.92	7.55	7.55	7.55	32.56	32.56	32.30	92.7	92.7	92.1	6.06	6.06	0.07	10.81	10.65	10.03	8	0.00
7/10/2013	20:53	Fine	Middle	3.5	28.26	28.26	28.25	7.63	7.63	7.64	33.01	33.01	33.04	75.0	74.8	75.1	4.86	4.85	4.87	6.75	6.46	6.47	9	8.00
7/10/2013	20:54	Fille	Middle	3.5	28.24	28.24	20.25	7.64	7.64	7.04	33.06	33.06	33.04	75.3	75.2	75.1	4.89	4.88	4.07	6.32	6.34	0.47	7	6.00
9/10/2013	11:15	Fine	Middle	3.5	28.10	28.10	28.18	8.11	8.11	8.11	29.88	29.88	29.89	76.6	77.2	76.3	5.01	5.06	4.99	10.99	10.99	10.97	6	7.00
9/10/2013	11:17	Tille	Middle	3.5	28.20	28.30	20.10	8.10	8.10	0.11	29.89	29.89	29.09	74.5	76.8	70.5	4.86	5.02	4.55	10.98	10.93	10.91	8	7.00
44/40/2042	11:25	Fine	Middle	3.5	28.29	28.29	20.20	7.48	7.48	7.46	32.84	32.84	32.82	81.6	80.9	90.6	5.29	5.25	F 00	9.69	9.66	0.66	5	F 00
11/10/2013	11:27	Fine	Middle	3.5	28.29	28.29	28.29	7.44	7.44	7.40	32.80	32.80	32.02	79.4	80.4	80.6	5.15	5.21	5.23	9.64	9.63	9.66	5	5.00
15/10/2013	14:53	Fine	Middle	3.5	28.33	28.33	28.36	7.26	7.26	7.26	33.13	33.13	33.13	62.8	62.9	62.9	4.07	4.07	4.08	11.92	11.94	11.92	10	10.50
15/10/2013	14:55	Fille	Middle	3.5	28.39	28.39	20.30	7.26	7.26	7.20	33.13	33.13	33.13	63.0	63.0	02.9	4.08	4.08	4.00	11.93	11.87	11.32	11	10.50
17/10/2013	15:15	Fine	Middle	3.5	26.69	26.69	26.68	7.69	7.69	7.69	33.30	33.30	33.30	61.8	61.9	62.1	4.11	4.11	4.14	8.02	8.01	8.01	11	11.50
17/10/2013	15:17	Fille	Middle	3.5	26.66	26.66	20.00	7.69	7.69	7.09	33.30	33.30	33.30	61.9	62.6	02.1	4.12	4.20	4.14	8.01	8.00	6.01	12	11.50
19/10/2013	19:05	- Fine	Middle	3.5	26.60	26.60	26.55	8.24	8.24	8.24	31.96	31.96	31.96	78.4	78.8	78.1	5.27	5.29	5.25	7.19	6.86	6.93	8	7.50
19/10/2013	19:06	rine	Middle	3.5	26.50	26.50	20.55	8.23	8.23	0.24	31.96	31.96	31.90	78.5	76.7	70.1	5.27	5.15	5.25	6.90	6.78	0.93	7	7.50
24/40/2042	18:51	Home	Middle	3.5	26.30	26.30	26.20	8.19	8.19	8.19	31.75	31.75	24.77	71.5	73.9	70.4	4.82	4.93	4.07	6.67	6.58	6.63	9	9.50
21/10/2013	18:52	Haze	Middle	3.5	26.30	26.30	26.30	8.18	8.18	0.19	31.78	31.78	31.77	72.8	71.2	72.4	4.91	4.80	4.87	6.61	6.66	6.63	10	9.50
22/40/2042	20:55	Fine	Middle	3.5	25.80	25.80	25.70	8.15	8.15	0.14	31.84	31.84	24.05	76.4	76.6	76.0	5.20	5.24	F 20	6.10	6.31	6.40	8	0.50
23/10/2013	20:56	Fine	Middle	3.5	25.60	25.60	25.70	8.12	8.12	8.14	31.86	31.86	31.85	76.1	75.6	76.2	5.20	5.16	5.20	6.24	6.09	6.19	9	8.50
00/40/0040	17:15	Fin-	Middle	3.5	24.94	24.94	04.05	7.72	7.72	7.70	33.36	33.36	22.22	95.5	94.9	04.7	6.54	6.50	0.40	7.84	7.70	7.77	4	4.50
26/10/2013	17:17	Fine	Middle	3.5	24.95	24.95	24.95	7.72	7.72	7.72	33.35	33.35	33.36	94.3	94.0	94.7	6.46	6.44	6.49	7.77	7.76	7.77	5	4.50

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		g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va		Average		Average
30/9/2013	14:30	Cloudy	Middle	1.5	27.50	27.50	27.50	8.11	8.11	8.11	30.28	30.28	30.28	60.0	60.4	60.6	4.02	4.25	4.11	7.64	7.71	7.71	20	<u>21.00</u>
	14:32		Middle	1.5	27.50	27.50		8.11	8.11		30.28	30.28		60.7	61.1		4.07	4.09		7.73	7.74		22	
2/10/2013	14:45	Fine	Middle	1.5	27.80	27.80	27.75	8.01	8.01	8.01	30.27	30.27	30.27	60.4	60.9	60.9	4.01	4.05	4.05	6.12	6.13	6.16	10	10.00
	14:47		Middle	1.5	27.70	27.70		8.01	8.01		30.27	30.27		61.0	61.2		4.06	4.07		6.14	6.23		10	
4/10/2013	16:14	Fine	Middle	1.0	28.00	28.00	27.95	8.08	8.08	8.09	30.66	30.66	30.65	43.0	43.3	43.0	2.84	2.86	2.84	4.08	4.13	4.09	4	4.00
4/10/2010	16:16	1 1110	Middle	1.0	27.90	27.90	27.00	8.09	8.09	0.00	30.64	30.64	00.00	42.8	42.7	40.0	2.83	2.82	2.04	4.10	4.06	4.00	4	4.00
7/10/2013	16:38	Fine	Middle	1.0	27.80	27.80	27.70	8.09	8.09	8.08	29.30	29.30	29.31	55.2	55.8	56.2	3.72	3.76	3.79	4.62	3.94	4.09	17	16 50
7/10/2013	16:40	rine	Middle	1.0	27.60	27.60	27.70	8.07	8.07	0.00	29.31	29.31	29.31	56.6	57.1	50.2	3.81	3.85	3.79	3.89	3.90	4.09	16	<u>16.50</u>
0/40/0040	9:48	-	Middle	1.5	27.70	27.70	07.55	8.18	8.18	0.40	31.05	31.04	04.00	48.9	50.2	40.0	3.25	3.34		4.22	4.21		26	
9/10/2013	9:50	Fine	Middle	1.5	27.40	27.40	27.55	8.19	8.19	8.19	31.02	31.02	31.03	47.6	48.9	48.9	3.17	3.25	<u>3.25</u>	4.02	4.01	4.12	26	<u>26.00</u>
	11:53		Middle	1.5	28.70	28.70		8.31	8.31		33.38	33.38		63.3	63.9		4.07	4.11		9.99	9.97		10	
11/10/2013	11:55	Fine	Middle	1.5	28.70	28.70	28.70	8.31	8.31	8.31	33.38	33.38	33.38	64.5	64.5	64.1	4.16	4.18	4.13	9.96	9.95	<u>9.97</u>	9	9.50
	15:30		Middle	1.5	27.70	27.70		8.58	8.58		34.34	34.34		46.8	48.6		3.04	3.17		5.88	5.89		5	
15/10/2013	15:32	Fine	Middle	1.5	27.50	27.50	27.60	8.54	8.54	8.56	34.33	34.33	34.34	48.4	48.2	48.0	3.15	3.14	<u>3.13</u>	5.90	5.80	5.87	6	5.50
	16:20		Middle	2.0	27.20	27.20		8.49	8.49		34.47	34.47		51.0	50.1		3.36	3.28		7.42	7.41		5	
17/10/2013	16:22	Fine	Middle	2.0	27.00	27.00	27.10	8.49	8.49	8.49	34.60	34.60	34.54	49.6	49.7	50.1	3.26	3.26	<u>3.29</u>	7.80	7.66	7.57	4	4.50
	19:05		Middle	2.0	26.40	26.40		8.43	8.43		34.38	34.38		63.0	62.8		4.19	4.18		6.36	6.32		5	
19/10/2013	19:07	Fine	Middle	2.0	26.20	26.20	26.30	8.43	8.43	8.43	34.40	34.40	34.39	62.5	62.4	62.7	4.16	4.16	4.17	6.28	6.19	6.29	6	5.50
	19:16		Middle	2.5	26.70	26.70		8.40	8.40		33.65	33.65		55.2	54.7		3.66	3.63		5.69	5.60		7	
21/10/2013	19:18	Haze	Middle	2.5	26.60	26.60	26.65	8.39	8.39	8.40	33.79	33.79	33.72	54.3	54.1	54.6	3.61	3.60	3.63	5.57	5.55	5.60	7	7.00
	17:31		Middle	1.0	26.50	26.50		8.37	8.37		34.07	34.07		58.8	58.4		3.91	3.89		8.85	8.76		23	
23/10/2013	17:33	Fine	Middle	1.0	26.40	26.40	26.45	8.36	8.36	8.37	34.06	34.06	34.07	58.3	58.0	58.4	3.89	3.87	3.89	8.74	8.70	<u>8.76</u>	23	23.00
	16:14		Middle	2.0	25.10	25.10		8.39	8.39		34.35	34.35		51.0	50.5		3.47	3.44		2.97	2.98		4	
26/10/2013	16:16	Fine	Middle	2.0	25.10	25.10	25.10	8.39	8.39	8.39	34.42	34.42	34.39	50.3	51.2	50.8	3.43	3.50	<u>3.46</u>	2.77	2.77	2.87	3	3.50
	10.10		iviidule	۷.0	23.10	20.10		0.39	0.38		J 4 .42	J4.4Z		50.5	31.2		J.+J	5.50		2.11	2.11		J	<u> </u>

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	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	D	O Satur	ation		DO			Turbid		Suspende	
Date		Condition	n	n	Va	lue °C	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	NTU lue	Average	mg Value	g/L Average
20/0/2012	13:20	Olevedic	Middle	3.0	27.06	27.06	07.00	7.84	7.84	7.05	32.09	32.09	32.09	65.6	65.4	05.0	4.36	4.34	4.00	9.17	9.17	0.47	7	7.00
30/9/2013	13:22	Cloudy	Middle	3.0	27.06	27.06	27.06	7.85	7.85	7.85	32.08	32.08	32.09	65.0	64.8	65.2	4.32	4.31	4.33	9.17	9.18	<u>9.17</u>	7	7.00
0/40/0040	14:45	-	Middle	3.0	29.77	29.77	00.77	7.43	7.43	7.40	32.45	32.45	00.40	104.5	103.6	100.5	6.63	6.58	0.57	8.27	8.26		15	44.50
2/10/2013	14:47	Fine	Middle	3.0	29.77	29.77	29.77	7.41	7.41	7.42	32.40	32.40	32.43	103.0	102.7	103.5	6.54	6.52	6.57	8.25	8.24	<u>8.26</u>	14	<u>14.50</u>
4/40/2042	15:20	Fine	Middle	3.5	28.89	28.89	20.05	7.52	7.52	7.50	32.66	32.66	32.66	103.3	102.9	102.7	6.66	6.64	6.63	23.71	23.64	22.60	54	27.00
4/10/2013	15:22	Fine	Middle	3.5	28.81	28.81	28.85	7.51	7.51	7.52	32.66	32.66	32.00	102.5	102.1	102.7	6.61	6.59	6.63	23.68	23.67	<u>23.68</u>	20	<u>37.00</u>
7/10/2013	21:30	Fine	Middle	2.0	28.22	28.22	28.21	7.63	7.63	7.63	32.75	32.75	32.83	73.0	72.8	72.7	4.74	4.73	4.72	7.73	7.61	7.39	13	12.50
7/10/2013	21:31	Fille	Middle	2.0	28.21	28.19	20.21	7.62	7.62	7.03	32.92	32.90	32.03	72.5	72.5	12.1	4.71	4.71	4.72	7.10	7.12	7.39	12	12.50
9/10/2013	10:55	Fine	Middle	3.0	28.50	28.50	28.55	8.10	8.10	8.10	31.85	31.85	31.85	75.9	75.8	75.3	4.93	4.94	4.88	11.84	11.84	44.05	11	10.50
9/10/2013	10:57	Fine	Middle	3.0	28.60	28.60	28.55	8.10	8.10	8.10	31.84	31.84	31.85	74.9	74.4	75.3	4.84	4.81	4.88	11.85	11.86	<u>11.85</u>	10	10.50
	11:00		Middle	3.0	28.61	28.61		7.29	7.29		32.78	32.78		60.4	60.3		3.90	3.90		10.99	10.99		8	
11/10/2013	11:02	Fine	Middle	3.0	28.73	28.73	28.67	7.28	7.28	7.29	32.77	32.77	32.78	60.3	60.3	60.3	3.89	3.89	3.90	10.98	10.97	<u>10.98</u>	9	8.50
45/40/0040	14:30	-	Middle	3.5	28.63	28.63	00.04	7.18	7.18	7.40	32.83	32.83	00.00	82.4	82.2	24.0	5.32	5.30	5.00	22.42	22.33	22.42	10	44.00
15/10/2013	14:32	Fine	Middle	3.5	28.65	28.65	28.64	7.18	7.18	7.18	32.82	32.82	32.83	81.7	81.3	81.9	5.27	5.25	5.29	22.09	22.87	<u>22.43</u>	12	11.00
47/40/0040	14:50	-	Middle	2.5	26.69	26.69	00.70	7.68	7.68	7.00	32.98	32.98	00.00	84.1	84.5	24.2	5.60	5.61	5.50	10.99	10.99	40.00	7	7.50
17/10/2013	14:52	Fine	Middle	2.5	26.70	26.70	26.70	7.67	7.67	7.68	32.98	32.98	32.98	83.4	83.9	84.0	5.55	5.59	5.59	10.98	10.97	<u>10.98</u>	8	7.50
40/40/0040	20:55	Fin.	Middle	2.0	26.60	26.60	00.00	8.20	8.20	0.00	31.79	31.79	04.00	78.4	79.7	70.0	5.24	5.35	5.00	8.57	8.54	0.54	8	0.00
19/10/2013	20:56	Fine	Middle	2.0	26.60	26.60	26.60	8.20	8.19	8.20	31.85	31.85	31.82	79.7	79.3	79.3	5.35	5.34	5.32	8.48	8.44	<u>8.51</u>	8	8.00
04/40/0040	20:53		Middle	2.0	26.50	26.50	00.50	8.18	8.18	0.47	31.71	31.71	04.00	74.9	76.6		5.03	5.14	5.00	6.84	6.87	0.70	10	11.00
21/10/2013	20:54	Haze	Middle	2.0	26.50	26.50	26.50	8.16	8.16	8.17	31.94	31.94	31.83	75.9	75.3	75.7	5.09	5.06	5.08	6.74	6.65	6.78	12	11.00
	22:50		Middle	2.0	25.90	25.90		8.00	8.00		29.34	29.34		73.8	74.1		5.02	5.04		7.79	7.86		15	
23/10/2013	22:51	Fine	Middle	2.0	25.90	25.90	25.90	8.01	8.01	8.01	31.59	31.59	30.47	72.2	71.7	73.0	4.91	4.83	4.95	7.56	7.59	7.70	16	<u>15.50</u>
00/40/0045	16:30	<u>-</u>	Middle	3.0	24.33	24.33	04.00	7.58	7.58	7.50	33.13	33.13	00.40	82.4	82.3		5.72	5.71	5.70	8.35	8.32		7	
26/10/2013	16:32	Fine	Middle	3.0	24.33	24.33	24.33	7.59	7.59	7.59	33.13	33.13	33.13	82.1	81.9	82.2	5.69	5.67	5.70	8.32	8.43	<u>8.36</u>	9	8.00

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	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va		Average	Va		Average		Average
30/9/2013	7:50	Cloudy	Middle	2.5	26.70	26.70	26.70	7.99	7.99	7.99	32.68	32.68	32.69	69.9	69.8	69.7	4.66	4.65	4.65	3.90	3.90	3.91	4	4.00
	7:52		Middle	2.5	26.69	26.69		7.99	7.99		32.69	32.69		69.6	69.5		4.64	4.63		3.91	3.92		4	
2/10/2013	9:15	Fine	Middle	3.0	27.65	27.65	27.67	8.00	8.00	7.99	32.89	32.89	32.88	60.4	60.2	60.0	3.96	3.95	3.94	6.94	7.02	7.00	4	4.00
	9:17		Middle	3.0	27.69	27.69	-	7.98	7.98		32.87	32.87		59.8	59.6		3.92	3.91		7.04	7.01		4	
4/10/2013	9:15	Fine	Middle	3.0	27.11	27.11	27.11	7.94	7.94	7.94	33.26	33.26	33.27	101.3	99.4	99.0	6.68	6.56	6.53	7.86	7.98	7.87	4	4.00
11 10/2010	9:17	0	Middle	3.0	27.11	27.11	2	7.94	7.94	7.0.	33.27	33.27	00.21	98.5	96.8	00.0	6.50	6.39	0.00	7.85	7.79	1.01	4	1.00
7/10/2013	15:50	Fine	Middle	3.0	28.77	28.77	28.85	7.48	7.48	7.47	33.38	33.38	33.36	92.8	92.2	91.9	5.98	5.91	5.90	4.00	4.00	4.00	11	11.50
7710/2010	15:52	1 1110	Middle	3.0	28.92	28.92	20.00	7.45	7.45	7.47	33.33	33.33	00.00	91.7	90.8	01.0	5.88	5.82	0.00	4.00	4.01	4.00	12	11.00
9/10/2013	17:10	Fine	Middle	2.5	27.85	27.50	27.76	7.70	7.70	7.69	33.15	33.15	33.17	112.2	110.2	108.9	7.31	7.08	7.07	2.13	2.13	2.14	4	4.00
3/10/2013	17:12	Tille	Middle	2.5	27.85	27.85	21.10	7.68	7.68	7.00	33.19	33.19	33.17	107.0	106.2	100.5	6.97	6.92	7.07	2.14	2.17	2.14	4	4.00
11/10/2013	2:06	Cloudy	Middle	2.5	27.80	27.80	27.85	8.21	8.21	8.21	32.38	32.38	32.39	80.9	81.4	81.0	5.30	5.37	5.32	5.08	4.50	4.70	4	4.00
11/10/2013	2:07	Cloudy	Middle	2.5	27.90	27.90	27.03	8.20	8.20	0.21	32.39	32.39	32.39	81.3	80.5	01.0	5.34	5.27	5.52	4.56	4.64	4.70	4	4.00
15/10/2013	7:45	Fine	Middle	3.0	26.95	26.95	26.95	7.95	7.95	7.95	33.58	33.58	33.59	83.4	83.3	83.2	5.51	5.50	5.50	7.81	7.66	7.75	3	3.50
15/10/2013	7:47	riile	Middle	3.0	26.95	26.95	20.95	7.95	7.95	7.95	33.60	33.60	33.39	83.1	83.0	03.2	5.49	5.48	5.50	7.66	7.87	7.75	4	3.50
17/10/2013	9:15	Fine	Middle	3.5	25.79	25.79	25.79	7.95	7.95	7.95	33.58	33.58	33.58	83.9	83.7	83.7	5.65	5.64	5.63	5.45	5.41	5.45	7	7.00
17/10/2013	9:17	riile	Middle	3.5	25.79	25.79	25.79	7.95	7.95	7.95	33.58	33.58	33.36	83.6	83.4	65.7	5.62	5.62	5.05	5.43	5.49	5.45	7	7.00
19/10/2013	10:20	Fine	Middle	3.0	26.24	26.24	26.24	7.86	7.86	7.86	33.49	33.49	33.49	88.3	88.9	88.0	5.90	5.95	5.89	7.10	7.09	7.02	6	6.00
19/10/2013	10:22	riile	Middle	3.0	26.24	26.24	20.24	7.86	7.86	7.00	33.49	33.49	33.49	87.7	87.1	00.0	5.86	5.83	5.69	6.95	6.93	7.02	6	0.00
21/10/2013	15:40	Fine	Middle	2.5	26.74	26.74	26.74	7.66	7.66	7.67	33.34	33.34	33.34	73.9	73.9	73.9	4.91	4.91	4.91	8.17	8.14	0.44	12	12.50
21/10/2013	15:42	rine	Middle	2.5	26.74	26.74	20.74	7.68	7.68	7.07	33.34	33.34	33.34	73.8	73.8	73.9	4.91	4.90	4.91	8.13	8.12	<u>8.14</u>	13	12.50
24/40/2242	4:32	Fire -	Middle	2.0	24.80	24.80	24.75	8.14	8.14	0.44	31.54	31.55	20.00	71.4	74.0	70.4	5.28	5.14	F 00	5.51	5.42	E 40	9	0.50
24/10/2013	4:33	Fine	Middle	2.0	24.70	24.70	24.75	8.14	8.14	8.14	30.21	30.21	30.88	74.3	73.9	73.4	5.24	5.13	5.20	5.49	5.41	5.46	10	9.50
00/40/0040	2:20	Fire	Middle	2.5	23.60	23.60	00.00	8.23	8.23	0.00	32.40	32.45	20.44	79.7	79.0	70.5	5.62	5.58	5.54	3.78	3.87	2.00	5	4.50
26/10/2013	2:21	Fine	Middle	2.5	23.60	23.60	23.60	8.23	8.23	8.23	32.46	32.46	32.44	78.5	76.9	78.5	5.53	5.41	5.54	4.01	3.92	3.90	4	4.50

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	Samplin	· .	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbid		Suspende	
		Ooridition	r	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va		Average	Va	lue	Average		Average
30/9/2013	9:17	Cloudy	Middle	3	27.22	27.22	27.22	7.86	7.86	7.86	32.15	32.15	32.16	37.8	37.8	37.8	2.51	2.50	2.50	4.66	4.67	4.66	9	8.50
	9:19		Middle	3	27.21	27.21		7.85	7.85		32.16	32.16		37.7	37.7		2.50	2.50		4.66	4.66		8	
2/10/2013	10:45	Fine	Middle	3	27.97	27.97	27.98	7.62	0.62	5.87	32.35	32.35	32.34	32.1	32.0	32.1	2.10	2.10	<u>2.10</u>	7.30	7.28	7.17	7	7.00
	10:47		Middle	3	27.97	27.99		7.61	7.61		32.33	32.33		32.1	32.1		2.10	2.11		7.10	7.01		7	
4/10/2013	10:50	Fine	Middle	3	27.61	27.61	27.61	7.60	7.60	7.60	32.84	32.84	32.85	88.0	88.0	88.1	5.77	5.78	5.78	7.73	7.67	7.59	5	4.50
	10:52		Middle	3	27.61	27.61		7.60	7.60		32.85	32.85		88.1	88.2		5.78	5.79		7.55	7.40		4	
7/10/2013	14:15	Fine	Middle	3	27.81	27.81	27.95	7.15	7.15	7.15	32.83	32.83	32.80	88.3	88.4	88.4	5.78	5.78	5.78	7.77	7.76	7.76	7	7.50
	14:17		Middle	3	28.08	28.08	200	7.14	7.14		32.77	32.77	02.00	88.4	88.4	00.1	5.77	5.77	0.10	7.75	7.75		8	7.00
9/10/2013	15:50	Fine	Middle	3	27.80	27.80	27.85	8.16	8.16	8.16	31.93	31.93	31.93	72.7	73.5	73.6	4.77	4.82	4.83	6.53	6.35	6.34	6	5.50
3/10/2013	15:52	Tille	Middle	3	27.90	27.90	21.00	8.16	8.16	0.10	31.93	31.93	01.55	73.5	74.6	70.0	4.84	4.89	4.00	6.32	6.16	0.54	5	3.30
44/40/0040	3:10	Olevedia	Middle	3	27.50	27.50	07.50	8.18	8.18	0.40	32.03	32.03	20.04	77.6	78.4	77.0	5.10	5.18	F 00	5.55	5.58	5.40	4	0.50
11/10/2013	3:11	Cloudy	Middle	3	27.50	27.50	27.50	8.17	8.17	8.18	32.04	32.04	32.04	75.2	76.8	77.0	4.96	5.07	5.08	5.49	5.20	5.46	3	3.50
45/40/2042	9:15	Fine	Middle	3	27.52	27.52	07.55	7.68	7.68	7.60	33.12	33.12	22.42	64.6	64.5	64.5	4.24	4.23	4.00	7.77	7.71	7.74	7	7.50
15/10/2013	9:17	Fine	Middle	3	27.58	27.58	27.55	7.67	7.67	7.68	33.12	33.12	33.12	64.5	64.4	04.5	4.23	4.22	4.23	7.74	7.73	7.74	8	7.50
47/40/2042	10:38	Fine	Middle	3	26.21	26.21	26.21	7.81	7.81	7.82	33.43	33.43	33.43	56.0	56.0	EC 1	3.75	3.75	3.76	7.76	7.70	7.68	8	7.00
17/10/2013	10:40	Fine	Middle	3	26.21	26.21	20.21	7.82	7.82	7.02	33.43	33.43	33.43	56.1	56.1	56.1	3.76	3.76	3.76	7.60	7.66	7.00	6	7.00
19/10/2013	11:15	Fine	Middle	3	26.39	26.39	26.42	7.69	7.69	7.69	33.36	33.36	33.37	61.8	61.8	61.8	4.13	4.12	4.13	7.76	7.75	7.77	7	6.50
13/10/2013	11:17	Tille	Middle	3	26.44	26.44	20.42	7.69	7.69	7.00	33.37	33.37	55.57	61.8	61.8	01.0	4.13	4.12	4.10	7.78	7.77	7.77	6	0.50
21/10/2013	14:25	Fine	Middle	3	26.73	26.73	26.75	7.64	7.64	7.64	33.12	33.12	33.12	86.2	85.8	85.5	5.73	5.70	5.68	10.00	10.00	10.00	10	10.50
21/10/2013	14:27	rille	Middle	3	26.77	26.77	20.75	7.63	7.63	7.04	33.11	33.11	33.12	85.5	84.6	65.5	5.68	5.62	5.06	10.01	9.99	10.00	11	10.50
24/10/2013	2:00	Fino	Middle	3	24.80	24.80	24.80	8.17	8.17	8.17	31.37	31.37	31.37	71.2	71.7	71.9	4.96	4.98	E 00	4.96	4.70	4.75	9	9.00
24/10/2013	2:01	Fine	Middle	3	24.80	24.80	24.00	8.17	8.17	0.17	31.37	31.37	31.31	72.3	72.4	/ 1.9	5.02	5.04	5.00	4.77	4.57	4./5	9	9.00
26/10/2012	3:46	Fine	Middle	3	23.10	23.10	22 10	8.23	8.23	8.23	28.88	28.88	28.88	70.4	71.2	70.5	5.13	5.16	E 12	7.77	7.97	7.90	3	3.00
26/10/2013	3:47	rille	Middle	3	23.10	23.10	23.10	8.22	8.22	0.23	28.88	28.88	20.00	70.2	70.3	70.5	5.09	5.09	5.12	7.92	7.95	7.90	3	3.00

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	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspende	ed Solids a/L
			n	1	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/9/2013	11:15	Cloudy	Middle	2	27.47	27.47	27.46	7.66	7.66	7.65	30.91	30.91	30.92	38.7	38.5	38.5	2.58	2.56	2.56	6.41	6.42	6.45	2	2.50
	11:17	,	Middle	2	27.44	27.44		7.64	7.64		30.93	30.93		38.5	38.4		2.56	2.55		6.44	6.51		3	
2/10/2013	12:19	Fine	Middle	2	28.10	28.10	28.12	7.23	7.23	7.23	30.34	30.34	30.36	52.2	52.2	52.3	3.45	3.45	3.46	3.45	3.44	3.39	5	5.00
	12:21		Middle	2	28.13	28.13		7.23	7.23		30.38	30.38		52.3	52.4		3.46	3.46		3.35	3.33		5	<u> </u>
4/10/2013	12:17	Fine	Middle	2	27.96	27.96	27.96	7.26	7.26	7.26	31.16	31.16	31.59	64.0	64.3	64.3	4.20	4.23	4.23	9.82	9.99	9.99	6	5.50
	12:19		Middle	2	27.96	27.96		7.26	7.26		32.02	32.02		64.4	64.5		4.24	4.24		10.01	10.12		5	
7/10/2013	13:52	Fine	Middle	2	28.44	28.44	28.45	7.09	7.09	7.09	31.25	31.25	31.26	59.5	59.4	59.3	3.89	3.89	3.86	5.52	5.49	5.52	9	9.50
	13:54		Middle	2	28.46	28.46		7.09	7.09		31.26	31.26		59.2	59.1		3.87	3.80		5.50	5.58		10	
9/10/2013	15:27	Fine	Middle	2	28.80	28.80	28.85	8.01	8.01	8.01	30.76	30.76	30.76	60.7	60.7	60.6	3.95	3.95	3.95	4.48	4.49	4.49	2	2.00
	15:29		Middle	2	28.90	28.90		8.01	8.01		30.75	30.75		60.8	60.3		3.96	3.92		4.49	4.51	-	2	
11/10/2013	2:40	Cloudy	Middle	2	27.50	27.50	27.50	7.80	7.81	7.81	29.39	29.39	29.39	56.2	56.9	56.5	3.77	3.80	3.79	3.86	3.89	3.91	3	3.00
	2:41		Middle	2	27.50	27.50		7.82	7.82		29.39	29.39		56.7	56.1		3.80	3.78		3.97	3.93		3	
15/10/2013	11:02	Fine	Middle	2	27.84	27.84	27.87	7.12	7.12	7.12	31.65	31.65	31.66	68.2	68.3	68.4	4.49	4.49	4.50	4.25	4.25	4.20	<2	<2
	11:04		Middle	2	27.89	27.89		7.12	7.12		31.66	31.66		68.4	68.5		4.50	4.51		4.15	4.15		<2	
17/10/2013	12:02	Fine	Middle	2	26.51	26.51	26.51	7.65	7.65	7.65	32.22	32.22	32.23	56.0	56.0	56.1	3.76	3.76	3.76	4.24	4.25	4.25	3	3.00
	12:04		Middle	2	26.51	26.51		7.65	7.65		32.24	32.24		56.1	56.1		3.76	3.77		4.25	4.25	-	3	
19/10/2013	12:50	Fine	Middle	2	26.90	26.90	26.90	7.50	7.50	7.50	32.32	32.32	32.32	62.9	62.7	62.6	4.19	4.17	4.17	4.27	4.35	4.34	6	6.50
	12:52		Middle	2	26.90	26.90		7.50	7.50		32.32	32.32		62.5	62.2		4.16	4.14		4.36	4.37		7	
21/10/2013	11:47	Fine	Middle	2	26.97	26.97	26.98	7.46	7.46	7.46	31.67	31.67	31.66	67.7	67.5	67.1	4.52	4.51	4.48	7.19	7.19	7.21	5	5.50
	11:49		Middle	2	26.99	26.99		7.45	7.45		31.65	31.65		66.9	66.3		4.48	4.42		7.20	7.24		6	
24/10/2013	1:28	Fine	Middle	2	24.50	24.50	24.45	8.09	8.09	8.07	29.38	29.38	29.39	55.0	54.9	55.0	3.89	3.89	3.89	4.01	3.87	3.92	6	6.50
24/10/2010	1:29		Middle	2	24.40	24.40	24.40	8.05	8.05	0.07	29.39	29.39	20.00	55.3	54.9		3.91	3.88	0.00	3.99	3.80	0.02	7	0.00
26/10/2013	3:17	Fine	Middle	2	22.70	22.70	22.70	8.10	8.10	8.09	28.27	28.27	28.26	48.3	47.9	47.9	3.54	3.51	3.52	4.25	4.18	4.21	2	2.00
20/10/2010	3:18	1 1110	Middle	2	22.70	22.70	22.10	8.07	8.07	0.09	28.24	28.24	20.20	48.2	47.3	ידי פ. ודי	3.53	3.50	0.02	4.20	4.22	7.41	<2	2.00

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	Samplin	g Depth	Wat	er Temp	erature		рН			Salini ppt	ty	С	OO Satur	ation		DO mg/L			Turbid NTU		Suspende	led Solids
		Condition	n	n	Va	llue	Average	Va	lue	Average	Va	alue	Average	Va	alue	Average	Va		Average	Va		Average		Average
30/9/2013	10:26	Cloudy	Middle	2.5	27.60	27.60	27.60	8.13	8.13	8.13	30.77	30.77	30.77	66.3	67.2	67.0	4.41	4.47	4.45	6.73	6.72	6.69	4	4.00
	10:28		Middle	2.5	27.60	27.60		8.13	8.13		30.77	30.77		66.9	67.4		4.45	4.48		6.65	6.64		4	
2/10/2013	10:35	Fine	Middle	2.5	28.40	28.40	28.40	8.08	8.08	8.08	30.97	30.97	30.97	67.6	67.9	68.2	4.42	4.45	4.47	6.52	6.41	6.43	6	5.50
2/10/2010	10:37	0	Middle	2.5	28.40	28.40	20.10	8.08	8.08	0.00	30.97	30.97	00.01	68.7	68.5	00.2	4.50	4.49		6.40	6.38	0.10	5	0.00
4/10/2013	10:34	Fine	Middle	3.0	27.60	27.60	27.70	8.13	8.13	8.12	30.99	30.99	31.02	58.7	59.0	59.1	3.88	3.94	3.91	4.76	4.72	4.72	10	9.00
4/10/2010	10:36	Tille	Middle	3.0	27.80	27.80	21.10	8.11	8.11	0.12	31.04	31.04	01.02	59.5	59.0	00.1	3.93	3.90	0.01	4.71	4.70	4.72	8	0.00
7/10/2013	12:58	Fine	Middle	2.5	27.90	27.90	27.90	8.13	8.13	8.13	31.18	31.18	31.18	61.7	61.3	61.4	4.07	4.05	4.06	9.16	9.13	9.10	9	10.00
7710/2013	13:00	Tille	Middle	2.5	27.90	27.90	21.00	8.13	8.13	0.10	31.18	31.18	31.10	61.2	61.5	01.4	4.04	4.06	4.00	9.06	9.06	5.10	11	10.00
9/10/2013	15:15	Fine	Middle	3.0	27.90	27.90	27.95	8.14	8.14	8.14	31.11	31.11	31.12	60.1	61.9	61.4	3.96	4.08	4.05	6.73	6.73	6.74	6	6.50
9/10/2013	15:17	Tille	Middle	3.0	28.00	28.00	27.93	8.13	8.13	0.14	31.12	31.12	31.12	62.1	61.6	01.4	4.10	4.06	4.00	6.73	6.76	0.74	7	0.30
11/10/2013	4:36	Cloudy	Middle	2.5	27.40	27.40	27.35	8.27	8.27	8.27	34.21	34.21	34.22	52.2	52.0	51.9	3.42	3.41	3.41	3.99	3.85	3.86	6	6.50
11/10/2013	4:38	Cloudy	Middle	2.5	27.30	27.30	27.35	8.27	8.27	0.27	34.22	34.22	34.22	51.8	51.6	51.9	3.40	3.39	3.41	3.83	3.78	3.00	7	0.50
45/40/0040	9:34	Fine	Middle	2.5	27.90	27.90	07.05	8.38	8.38	0.40	34.59	34.59	04.00	69.2	68.4	07.0	4.48	4.43	4.40	6.48	6.42	0.00	6	5.00
15/10/2013	9:36	Fine	Middle	2.5	27.80	27.80	27.85	8.41	8.41	8.40	34.64	34.64	34.62	67.5	66.6	67.9	4.37	4.31	4.40	6.26	6.26	6.36	4	5.00
17/10/2013	12:18	Fine	Middle	2.5	26.30	26.30	26,20	8.51	8.51	8.51	34.73	34.73	34.74	72.1	70.0	71.3	4.80	4.67	4.75	6.40	6.44	6.43	10	9.00
17/10/2013	12:20	Fine	Middle	2.5	26.10	26.10	20.20	8.51	8.51	0.51	34.74	34.74	34.74	71.8	71.1	71.3	4.79	4.74	4.75	6.47	6.41	0.43	8	9.00
19/10/2013	11:13	Fine	Middle	2.5	26.80	26.80	26.70	8.44	8.44	8.44	34.49	34.49	34.53	60.5	59.7	59.2	3.99	3.94	3.91	6.15	6.15	6.09	7	7.50
19/10/2013	11:15	riile	Middle	2.5	26.60	26.60	20.70	8.44	8.44	0.44	34.56	34.56	34.55	58.3	58.1	59.2	3.85	3.84	3.91	6.02	6.02	0.09	8	7.50
24/40/2042	14:10	Fine	Middle	2.5	26.80	26.80	26.00	8.41	8.41	0.44	34.42	34.42	34.42	60.3	61.2	64.2	3.98	4.04	4.02	6.48	6.47	6.46	12	12.50
21/10/2013	14:13	Fine	Middle	2.5	26.80	26.80	26.80	8.41	8.41	8.41	34.42	34.42	34.42	62.0	61.5	61.3	4.06	4.03	4.03	6.45	6.44	6.46	13	12.50
24/40/2042	1:22	Fine	Middle	3.0	25.50	25.50	25.50	8.33	8.33	0.22	34.42	34.42	24.42	43.7	43.4	42.2	2.95	2.93	2.02	2.98	2.88	2.00	11	44.00
24/10/2013	1:24	Fine	Middle	3.0	25.50	25.50	25.50	8.31	8.31	8.32	34.41	34.41	34.42	43.0	42.8	43.2	2.91	2.90	2.92	2.84	2.91	2.90	11	11.00
00/40/0040	4:02	Fire	Middle	3.0	24.50	24.50	04.00	8.39	8.39	0.07	34.59	34.59	04.50	47.4	46.9	40.0	3.26	3.23	2.00	3.16	3.13	0.40	3	0.50
26/10/2013	4:04	Fine	Middle	3.0	24.10	24.10	24.30	8.34	8.34	8.37	34.57	34.57	34.58	46.7	46.2	46.8	3.21	3.19	3.22	3.19	3.22	3.18	2	2.50

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	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspende	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/9/2013	9:47	Cloudy	Middle	2.5	27.10	27.10	27.05	8.09	8.09	8.10	30.80	30.80	30.80	67.3	67.6	67.5	4.51	4.53	4.52	4.98	4.99	5.00	3	3.00
	9:49		Middle	2.5	27.00	27.00		8.10	8.10		30.80	30.80		67.5	67.6		4.52	4.53		5.00	5.03		3	
2/10/2013	11:06	Fine	Middle	2.5	28.10	28.10	28.10	8.12	8.12	8.12	30.90	30.90	30.90	66.6	66.7	66.8	4.38	4.38	4.39	5.70	5.71	5.69	7	7.50
	11:08		Middle	2.5	28.10	28.10		8.11	8.11		30.90	30.90		66.8	66.9		4.40	4.41		5.68	5.66		8	<u> </u>
4/10/2013	10:05	Fine	Middle	3.0	27.90	27.90	27.75	8.08	8.08	8.11	30.91	30.91	30.96	63.5	65.1	64.6	4.21	4.31	4.28	6.83	6.94	6.97	6	6.50
	10:07		Middle	3.0	27.60	27.60		8.13	8.13		31.01	31.01		65.2	64.6		4.32	4.26		7.02	7.08		7	
7/10/2013	12:35	Fine	Middle	2.5	28.10	28.10	28.10	8.31	8.31	8.31	31.12	31.12	31.12	60.4	60.6	60.7	3.98	3.99	4.01	8.26	8.29	8.30	7	7.00
	12:37		Middle	2.5	28.10	28.10		8.31	8.31		31.12	31.12		60.8	61.0		4.01	4.07	-	8.31	8.32		7	
9/10/2013	15:35	Fine	Middle	3.0	28.10	28.10	28.10	8.10	8.10	8.10	31.17	31.17	31.17	63.4	64.3	62.4	4.17	4.22	4.11	4.62	4.62	4.61	5	5.00
	15:37		Middle	3.0	28.10	28.10		8.10	8.10		31.17	31.17		58.4	63.5	-	3.87	4.19		4.61	4.60		5	
11/10/2013	3:54	Cloudy	Middle	3.0	27.40	27.40	27.35	8.16	8.16	8.19	34.20	34.20	34.20	63.6	63.5	63.3	4.16	4.16	4.15	7.07	7.08	7.11	5	4.50
	3:56	Cicacy	Middle	3.0	27.30	27.30	21.00	8.21	8.21	5.10	34.19	34.19	01.20	63.2	63.0	00.0	4.14	4.13	0	7.18	7.12		4	
15/10/2013	9:59	Fine	Middle	2.5	27.40	27.40	27.35	8.45	8.45	8.45	34.54	34.54	34.56	68.4	68.6	67.9	4.47	4.48	4.44	6.26	6.17	6.18	5	5.50
10/10/2010	10:01	Tille	Middle	2.5	27.30	27.30	27.00	8.45	8.45	0.40	34.58	34.58	04.00	67.0	67.5	07.0	4.38	4.41	-1	6.16	6.12	0.10	6	0.00
17/10/2013	11:35	Fine	Middle	2.5	26.10	26.10	26.20	8.50	8.50	8.49	33.59	33.59	33.53	77.0	76.6	76.7	5.20	5.14	5.15	6.70	6.72	6.71	4	4.50
1771072010	11:37	Tille	Middle	2.5	26.30	26.30	20.20	8.48	8.48	0.40	33.46	33.46	00.00	76.8	76.2	70.7	5.15	5.10	0.10	6.66	6.74	0.71	5	4.00
19/10/2013	11:50	Fine	Middle	2.5	26.70	26.70	26.70	8.47	8.47	8.47	34.61	34.61	34.61	65.5	65.1	65.4	4.32	4.29	4.31	6.18	6.17	6.19	8	7.50
13/10/2013	11:52	Tille	Middle	2.5	26.70	26.70	20.70	8.47	8.47	0.47	34.60	34.60	34.01	65.4	65.4	05.4	4.31	4.31	4.01	6.16	6.23	0.13	7	7.50
21/10/2013	14:47	Fine	Middle	2.5	26.70	26.70	26.70	8.41	8.41	8.41	34.33	34.33	34.33	62.5	63.3	62.6	4.13	4.19	4.13	6.01	6.01	6.01	9	9.50
21/10/2013	14:49	Tille	Middle	2.5	26.70	26.70	20.70	8.41	8.41	0.41	34.33	34.33	34.33	62.0	62.5	02.0	4.10	4.11	4.15	6.01	6.01	0.01	10	9.50
24/10/2013	0:44	Fine	Middle	3.0	24.90	24.90	24.75	8.47	8.47	8.46	34.40	34.40	34.39	63.7	63.4	63.3	4.38	4.36	4.36	6.38	6.36	6.38	13	12.50
24/10/2013	0:46	rine	Middle	3.0	24.60	24.60	24.75	8.45	8.45	0.40	34.38	34.38	34.39	63.2	63.0	03.3	4.35	4.34	4.30	6.43	6.33	0.36	12	12.50
26/40/2042	3:13	Einn	Middle	3.0	24.10	24.10	22.05	8.61	8.61	0.57	34.41	34.41	24.44	66.4	66.1	65.0	4.62	4.60	4.50	3.63	3.52	2 55	3	2.50
26/10/2013	3:15	Fine	Middle	3.0	23.80	23.80	23.95	8.53	8.52	8.57	34.40	34.40	34.41	65.7	65.5	65.9	4.58	4.57	4.59	3.54	3.51	3.55	4	3.50

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	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	n	n	Va	ilue	Average	Va	lue	Average	Va	ilue	Average	Va	ilue	Average	Va		Average	Va	lue	Average	Value	Average
30/9/2013	9:58	Cloudy	Middle	2.5	27.40	27.40	27.40	8.12	8.12	8.12	30.73	30.73	30.73	63.9	64.9	64.6	4.26	4.30	4.31	5.08	5.07	5.05	6	5.00
	10:00		Middle	2.5	27.40	27.40		8.12	8.12		30.73	30.73		64.9	64.5		4.33	4.36		5.03	5.01		4	
2/10/2013	10:55	Fine	Middle	2.5	27.90	27.90	27.90	8.12	8.12	8.12	30.90	30.90	30.90	68.9	66.5	67.0	4.42	4.39	4.39	5.85	5.86	5.78	7	7.50
	10:57		Middle	2.5	27.90	27.90		8.12	8.12		30.90	30.90		66.1	66.6		4.36	4.40		5.70	5.71		8	
4/10/2013	10:14	Fine	Middle	3.0	27.80	27.80	27.70	8.12	8.12	8.12	30.95	30.95	30.97	60.6	62.0	61.2	4.01	4.11	4.06	6.75	6.64	6.65	6	7.00
	10:16		Middle	3.0	27.60	27.60		8.12	8.12		30.99	30.99		61.7	60.4	•	4.09	4.01		6.61	6.60		8	
7/10/2013	12:42	Fine	Middle	2.5	28.00	28.00	28.00	8.22	8.22	8.22	31.08	31.08	31.08	63.2	63.5	63.5	4.16	4.18	4.18	8.16	8.11	8.08	7	7.00
	12:44	0	Middle	2.5	28.00	28.00	20.00	8.21	8.21	0.22	31.08	31.08	01.00	63.6	63.8	00.0	4.19	4.20		8.03	8.02	0.00	7	7.00
9/10/2013	15:25	Fine	Middle	3.0	27.80	27.80	27.80	8.11	8.11	8.11	31.19	31.19	31.19	60.6	61.3	60.4	3.99	4.03	3.99	5.74	5.73	5.73	6	5.50
3/10/2013	15:27	Tille	Middle	3.0	27.80	27.80	27.00	8.11	8.11	0.11	31.19	31.19	31.13	60.1	59.7	00.4	3.97	3.95	5.55	5.72	5.71	5.75	5	3.30
11/10/2013	4:02	Claudy	Middle	3.0	27.40	27.40	27.40	8.27	8.27	8.28	34.10	34.10	34.15	59.5	59.3	59.2	3.89	3.88	3.87	4.06	4.02	3.96	3	3.50
11/10/2013	4:04	Cloudy	Middle	3.0	27.40	27.40	27.40	8.29	8.29	0.20	34.19	34.19	34.15	59.1	58.8	59.2	3.87	3.85	3.07	3.89	3.88	3.90	4	3.50
45/40/0040	9:53	Fig	Middle	2.5	27.30	27.30	07.05	8.45	8.45	0.45	34.52	34.52	04.54	67.6	67.8	07.4	4.42	4.43	4.44	6.73	6.84	0.07	6	5.00
15/10/2013	9:55	Fine	Middle	2.5	27.20	27.20	27.25	8.45	8.45	8.45	34.56	34.56	34.54	68.0	66.1	67.4	4.45	4.32	4.41	6.73	6.36	6.67	4	5.00
47/40/0040	11:48	Fig	Middle	2.5	26.30	26.30	00.05	8.51	8.51	0.54	34.75	34.75	04.75	74.0	73.5	70.7	4.92	4.89	4.00	6.92	6.88	0.00	7	7.50
17/10/2013	11:50	Fine	Middle	2.5	26.20	26.20	26.25	8.50	8.50	8.51	34.74	34.74	34.75	73.9	73.3	73.7	4.92	4.88	4.90	6.90	6.84	6.89	8	7.50
40/40/0040	11:40		Middle	3.0	26.60	26.60	00.50	8.45	8.45	0.40	34.51	34.51	04.57	64.6	64.0	00.0	4.28	4.23	4.40	8.01	7.81	7.05	8	0.00
19/10/2013	11:42	Fine	Middle	3.0	26.40	26.40	26.50	8.47	8.47	8.46	34.62	34.62	34.57	62.8	61.7	63.3	4.16	4.09	4.19	7.80	7.79	7.85	10	9.00
	14:37		Middle	2.5	26.20	26.30		8.41	8.41		34.32	34.33		66.8	66.4		4.45	4.42		6.32	6.37		11	
21/10/2013	14:39	Fine	Middle	2.5	26.30	26.20	26.25	8.41	8.41	8.41	34.34	34.35	34.34	63.7	65.4	65.6	4.24	4.32	4.36	6.34	6.36	6.35	12	11.50
	0:57		Middle	3.0	25.50	25.50		8.43	8.43		34.41	34.41		60.1	60.0		4.07	4.07		5.18	5.07		12	
24/10/2013	0:58	Fine	Middle	3.0	25.10	25.10	25.30	8.42	8.42	8.43	34.43	34.43	34.42	59.5	59.2	59.7	4.04	4.02	4.05	4.88	4.87	5.00	11	11.50
	3:27		Middle	3.0	24.80	24.80		8.50	8.50		34.55	34.55		60.1	60.9		4.19	4.18		3.37	3.33		2	
26/10/2013	3:30	Fine	Middle	3.0	24.40	24.40	24.60	8.49	8.49	8.50	34.58	34.58	34.57	60.7	60.3	60.5	4.17	4.15	4.17	3.32	3.24	3.32	3	2.50

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	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	ilue	Average	Va		Average	Va	lue	Average	Value	Average
30/9/2013	10:07	Cloudy	Middle	2.5	27.30	27.30	27.30	8.14	8.14	8.14	30.76	30.76	30.76	67.0	67.1	67.7	4.47	4.55	4.54	6.27	6.26	6.22	5	5.00
	10:09		Middle	2.5	27.30	27.30		8.14	8.14		30.76	30.76		68.5	68.0		4.58	4.55		6.18	6.17		5	
2/10/2013	10:50	Fine	Middle	2.5	28.40	28.40	28.40	8.10	8.10	8.10	30.97	30.97	30.97	62.1	62.2	62.3	4.06	4.07	4.08	5.97	5.98	5.99	5	6.00
	10:52		Middle	2.5	28.40	28.40		8.10	8.10		30.97	30.97		62.4	62.6		4.09	4.10		5.99	6.03		7	
4/10/2013	10:22	Fine	Middle	3.0	27.82	7.80	22.71	8.12	8.12	8.12	30.96	30.96	30.98	58.3	58.1	58.3	3.85	3.84	3.86	4.93	4.93	4.93	6	6.50
4/10/2010	10:24	Tine	Middle	3.0	27.60	27.60	LL .7 1	8.12	8.12	0.12	30.99	30.99	00.00	58.3	58.6	00.0	3.86	3.88	0.00	4.93	4.92	4.00	7	0.00
7/10/2013	12:49	Fine	Middle	2.5	27.70	27.70	27.70	8.15	8.15	8.15	31.15	31.15	31.15	65.0	65.3	65.4	5.13	5.15	5.16	8.54	8.64	8.59	8	9.00
7710/2013	12:51	Tille	Middle	2.5	27.70	27.70	21.10	8.15	8.15	0.13	31.15	31.15	31.13	65.5	65.7	05.4	5.17	5.19	5.10	8.60	8.56	0.59	10	9.00
9/10/2013	15:23	Fine	Middle	2.5	28.00	28.00	27.95	8.10	8.10	8.10	31.11	31.11	31.14	56.2	58.2	57.4	3.70	3.83	3.78	5.88	5.88	5.88	5	5.50
9/10/2013	15:25	riile	Middle	2.5	27.90	27.90	27.95	8.09	8.09	0.10	31.16	31.16	31.14	57.8	57.2	57.4	3.81	3.77	3.76	5.89	5.86	5.00	6	5.50
4444040040	4:18	01 1	Middle	2.5	27.40	27.40	07.00	8.28	8.28	0.00	34.21	34.21	04.04	58.4	58.3	50.4	3.82	3.82	0.04	3.10	3.09		3	0.50
11/10/2013	4:20	Cloudy	Middle	2.5	27.20	27.20	27.30	8.29	8.29	8.29	34.21	34.21	34.21	58.1	57.7	58.1	3.81	3.79	3.81	3.02	3.02	3.06	4	3.50
45/40/0040	9:45		Middle	2.5	27.40	27.40	07.40	8.45	8.45	0.40	34.61	34.61	04.00	67.4	68.4	00.0	4.40	4.46	4.40	6.43	6.47	0.45	7	0.00
15/10/2013	9:47	Fine	Middle	2.5	27.40	27.40	27.40	8.46	8.46	8.46	34.62	34.62	34.62	68.0	68.0	68.0	4.44	4.43	4.43	6.53	6.36	6.45	5	6.00
	13:10		Middle	2.5	26.50	26.50		8.43	8.43		34.64	34.64		77.7	76.7		5.16	5.09		4.95	5.04		8	
17/10/2013	13:12	Fine	Middle	2.5	26.30	26.30	26.40	8.45	8.45	8.44	34.65	34.65	34.65	77.3	76.1	77.0	5.14	5.06	5.11	5.01	4.97	4.99	8	8.00
	11:30		Middle	3.0	26.60	26.60		8.43	8.43		34.40	34.40		61.5	61.9		4.07	4.10		6.74	6.62		8	
19/10/2013	11:32	Fine	Middle	3.0	26.50	26.50	26.55	8.45	8.45	8.44	34.55	34.55	34.48	62.1	61.8	61.8	4.11	4.09	4.09	6.49	6.48	6.58	9	8.50
	14:27		Middle	2.5	26.70	26.70		8.40	8.40		34.36	34.36		59.2	61.4		3.91	4.04		6.34	6.33		10	
21/10/2013	14:29	Fine	Middle	2.5	26.70	26.70	26.70	8.40	8.40	8.40	34.35	34.35	34.36	61.0	60.8	60.6	4.03	4.02	4.00	6.35	6.34	6.34	11	10.50
	1:05		Middle	3.0	25.10	25.10		8.40	8.40		34.41	34.41		59.5	59.3		4.05	4.04		5.22	5.17		10	
24/10/2013	1:07	Fine	Middle	3.0	24.90	24.90	25.00	8.40	8.40	8.40	34.42	34.42	34.42	59.0	58.7	59.1	4.02	4.00	4.03	5.19	5.04	5.16	11	10.50
	3:40		Middle	3.0	24.60	24.60		8.47	8.47		34.62	34.62		57.9	57.6		3.97	3.95		2.32	2.30		<2	
26/10/2013	3:42	Fine	Middle	3.0	24.40	24.40	24.50	8.45	8.45	8.46	34.58	34.58	34.60	57.4	57.3	57.6	3.94	3.94	3.95	2.31	2.29	2.31	2	2.00

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	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	С	O Satur	ation		DO ma/L			Turbid NTU		Suspende	led Solids a/L
			n	1	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/9/2013	10:18	Cloudy	Middle	2.5	27.60	27.60	27.60	8.13	8.13	8.13	30.77	30.77	30.77	68.0	67.9	68.1	4.53	4.52	4.54	6.49	6.50	6.52	6	5.50
00/0/2010	10:20	o.ouuy	Middle	2.5	27.60	27.60	21.00	8.13	8.13	0.10	30.76	30.76	001	68.1	68.2	00.1	4.54	4.55		6.52	6.55	0.02	5	0.00
2/10/2013	10:45	Fine	Middle	2.5	28.70	28.70	28.70	8.10	8.10	8.10	30.99	30.99	30.99	62.4	62.7	62.8	4.05	4.08	4.09	7.66	7.71	7.71	6	6.50
2/10/2010	10:47	1 1110	Middle	2.5	28.70	28.70	20.70	8.10	8.10	0.10	30.99	30.99	00.00	63.0	63.1	02.0	4.10	4.11	4.00	7.72	7.74	7.7.1	7	0.00
4/10/2013	10:27	Fine	Middle	3.0	27.60	27.60	27.65	8.12	8.12	8.12	30.90	30.90	30.94	56.0	56.2	56.8	3.71	3.72	3.76	7.89	7.84	7.78	8	9.00
4/10/2010	10:29	1 1110	Middle	3.0	27.70	27.70	27.00	8.12	8.12	0.12	30.97	30.97	00.04	56.9	57.9	00.0	3.77	3.84	0.70	7.78	7.59	7.70	10	0.00
7/10/2013	12:54	Fine	Middle	2.5	27.70	27.70	27.70	8.14	8.14	8.14	31.15	31.15	31.15	62.7	63.1	63.2	4.94	4.95	4.98	8.50	8.51	8.50	14	13.00
7/10/2013	12:56	i ille	Middle	2.5	27.70	27.70	21.10	8.14	8.14	0.14	31.15	31.15	31.13	63.3	63.5	03.2	5.00	5.01	4.90	8.52	8.48	0.50	12	13.00
9/10/2013	15:18	Fine	Middle	2.5	27.40	27.40	27.65	8.14	8.14	8.13	31.15	31.15	31.18	57.7	59.2	58.5	3.80	3.90	3.85	8.23	8.24	8.23	9	8.50
9/10/2013	15:20	i ille	Middle	2.5	27.90	27.90	27.03	8.11	8.11	0.15	31.20	31.20	31.10	59.0	58.0	30.3	3.89	3.82	5.65	8.23	8.23	0.23	8	0.30
11/10/2013	4:26	Cloudy	Middle	2.5	27.40	27.40	27.35	8.29	8.29	8.30	34.20	34.20	34.20	60.1	60.0	59.8	3.93	3.93	3.92	3.22	3.13	3.19	4	4.00
11/10/2013	4:28	Cloudy	Middle	2.5	27.30	27.30	27.33	8.30	8.30	6.50	34.20	34.20	34.20	59.6	59.4	59.6	3.91	3.90	5.92	3.19	3.21	5.19	4	4.00
15/10/2013	9:41	Fine	Middle	2.5	27.70	27.70	27.65	8.43	8.43	8.44	34.64	34.64	34.65	72.4	69.9	70.7	4.70	4.54	4.60	7.41	7.47	7.47	7	6.50
13/10/2013	9:42	rille	Middle	2.5	27.60	27.60	27.05	8.45	8.45	0.44	34.65	34.65	34.03	71.2	69.3	70.7	4.63	4.51	4.00	7.48	7.52	7.47	6	0.50
17/10/2013	12:07	Fine	Middle	2.5	26.10	26.10	26.05	8.52	8.52	8.52	34.76	34.76	32.27	74.3	73.7	73.6	4.96	4.92	4.92	6.54	6.57	6.55	5	5.50
17/10/2013	12:08	Fine	Middle	2.5	26.00	26.00	20.05	8.52	8.52	0.52	34.78	24.78	32.21	73.8	72.6	73.0	4.94	4.86	4.92	6.58	6.51	0.55	6	5.50
19/10/2013	11:24	Fine	Middle	3.0	26.00	26.70	26.48	8.44	8.44	8.45	34.48	34.48	34.49	64.2	64.4	64.3	4.24	4.26	4.25	7.40	7.42	7.47	9	8.50
19/10/2013	11:26	Fine	Middle	3.0	26.60	26.60	20.40	8.45	8.45	6.45	34.49	34.49	34.49	64.4	64.2	04.3	4.26	4.24	4.25	7.48	7.59	7.47	8	6.50
04/40/0040	14:20	Fin -	Middle	2.5	26.60	26.60	00.00	8.40	8.40	8.40	34.34	34.35	34.35	67.4	66.1	66.5	4.46	4.38	4.40	6.85	6.86	0.00	12	12.50
21/10/2013	14:22	Fine	Middle	2.5	26.60	26.60	26.60	8.40	8.40	8.40	34.36	34.35	34.35	66.0	66.6	00.5	4.34	4.42	4.40	6.89	6.90	6.88	13	12.50
0.4/40/0045	1:14	-	Middle	3.0	25.30	25.30	05.00	8.38	8.38	0.00	34.41	34.41	04.44	55.1	54.9	54.7	3.73	3.72	0.74	4.18	4.16	4.40	11	44.05
24/10/2013	1:16	Fine	Middle	3.0	25.10	25.10	25.20	8.37	8.37	8.38	34.41	34.41	34.41	54.7	54.2	54.7	3.71	3.68	3.71	4.11	4.02	4.12	11	11.00
00/10/0015	3:48	-	Middle	3.0	24.80	24.80	04.75	8.41	8.41	0.44	34.56	34.56	0.4.50	59.9	59.1	50.0	4.05	4.03	4.00	2.27	2.34	0.00	<2	0.00
26/10/2013	3:50	Fine	Middle	3.0	24.70	24.70	24.75	8.41	8.41	8.41	34.56	34.56	34.56	59.0	58.6	59.2	4.03	4.00	4.03	2.34	2.33	2.32	2	2.00

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	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspende	
			n	n	Va	lue	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/9/2013	10:45	Cloudy	Middle	3.5	27.30	27.30	27.30	7.83	7.83	7.83	31.76	31.76	31.78	62.8	62.6	62.5	4.17	4.16	4.15	6.47	6.36	6.38	3	3.50
	10:47		Middle	3.5	27.30	27.30		7.83	7.83		31.80	31.80		62.3	62.3		4.14	4.13		6.34	6.34		4	
2/10/2013	11:45	Fine	Middle	3.5	28.39	28.39	28.39	7.52	7.52	7.52	32.36	32.36	32.35	57.8	57.7	57.7	3.75	3.74	3.74	7.76	7.77	7.73	7	7.50
	11:47		Middle	3.5	28.39	28.39		7.52	7.52		32.33	32.33		57.7	57.6		3.73	3.73		7.75	7.65		8	<u> </u>
4/10/2013	11:50	Fine	Middle	3.5	28.14	28.14	28.19	7.48	7.48	7.49	32.88	32.88	32.87	106.1	106.1	106.2	6.89	6.89	6.90	11.12	11.03	11.04	7	7.50
	11:52		Middle	3.5	28.24	28.24		7.49	7.49		32.86	32.86		106.2	106.2		6.90	6.90		11.00	11.01		8	
7/10/2013	13:15	Fine	Middle	3.5	28.80	28.80	28.84	7.57	7.57	7.55	33.01	33.01	33.05	84.0	83.5	83.4	5.40	5.36	5.35	5.30	5.23	5.24	8	7.50
	13:17		Middle	3.5	28.87	28.87		7.53	7.53		33.09	33.09		83.2	82.8		5.33	5.32		5.21	5.20		7	
9/10/2013	14:45	Fine	Middle	3.5	28.10	28.10	28.15	8.10	8.10	8.10	31.85	31.85	31.85	77.7	77.8	77.7	5.08	5.09	5.08	6.37	6.33	6.33	4	3.50
	14:47		Middle	3.5	28.20	28.20		8.10	8.10		31.84	31.84		77.9	77.5		5.09	5.06		6.32	6.31		3	
11/10/2013	3:45	Cloudy	Middle	3.5	27.40	27.40	27.40	7.96	7.96	7.98	31.73	31.74	31.74	67.2	68.0	67.6	4.45	4.50	4.48	3.41	3.36	3.27	2	2.00
	3:46		Middle	3.5	27.40	27.40		7.99	7.99		31.75	31.75	-	67.5	67.8		4.47	4.49	-	3.18	3.13	-	2	
15/10/2013	10:30	Fine	Middle	3.5	27.90	27.90	27.95	7.52	7.52	7.52	33.14	33.14	33.14	61.5	61.5	61.5	4.01	4.01	4.01	9.99	9.58	9.67	2	3.00
	10:32		Middle	3.5	27.99	27.99		7.51	7.51		33.14	33.14		61.4	61.4		4.00	4.00	-	9.55	9.54		4	
17/10/2013	11:30	Fine	Middle	3.5	26.51	26.51	26.51	7.75	7.75	7.75	33.39	33.39	33.39	60.4	60.3	60.3	4.02	4.02	4.02	6.46	6.35	6.37	8	7.00
	11:32		Middle	3.5	26.51	26.51		7.75	7.75		33.39	33.39		60.3	60.2		4.02	4.01		6.34	6.32		6	
19/10/2013	12:05	Fine	Middle	3.5	26.83	26.83	26.83	7.74	7.74	7.74	33.35	33.35	33.36	93.8	93.3	93.0	6.22	6.18	6.18	6.35	6.35	6.34	7	6.50
	12:07		Middle	3.5	26.83	26.83		7.74	7.74		33.36	33.36		92.4	92.4		6.12	6.21		6.34	6.31		6	
21/10/2013	11:25	Fine	Middle	3.5	27.02	27.02	27.12	7.72	7.72	7.69	33.31	33.31	33.31	96.1	95.0	94.8	6.32	6.24	6.23	7.28	7.28	7.28	10	10.50
2	11:27		Middle	3.5	27.22	27.22		7.65	7.65		33.31	33.31		94.6	93.6	00	6.21	6.14	0.20	7.28	7.29	20	11	
24/10/2013	1:00	Fine	Middle	3.5	24.60	24.60	24.60	7.89	7.89	7.90	31.79	31.79	31.80	72.1	71.6	71.5	5.01	4.96	4.97	5.13	5.60	5.36	10	9.00
E-# 10/2010	1:01	1 1110	Middle	3.5	24.60	24.60	24.00	7.91	7.92	7.00	31.80	31.81	01.00	71.7	70.6	71.0	4.98	4.91	4.07	5.31	5.40	0.00	8	0.00
26/10/2013	2:45	Fine	Middle	3.5	23.50	23.50	23.45	8.11	8.11	8.11	32.15	32.15	32.15	72.8	74.3	74.0	5.15	5.30	5.25	3.25	3.29	3.33	4	3.50
20/10/2013	2:46	Tille	Middle	3.5	23.40	23.40	20.40	8.11	8.11	0.11	32.15	32.15	02.10	74.7	74.1	14.0	5.29	5.25	5.25	3.34	3.45	0.00	3	5.50

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	Samplin	g Depth	Wat	er Temp	erature		рН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	led Solids
		Condition	n	n	Va	llue	Average	Va	lue	Average	Va	alue	Average	Va	ilue	Average	Va		Average	Va		Average		Average
30/9/2013	10:50	Cloudy	Middle	1.5	27.50	27.50	27.50	8.11	8.11	8.11	26.80	26.80	26.80	58.9	59.0	59.7	4.03	4.04	4.08	9.52	9.51	9.48	25	<u>25.00</u>
	10:52		Middle	1.5	27.50	27.50		8.11	8.11		26.80	26.80		59.9	61.0		4.07	4.17		9.47	9.43		25	
2/10/2013	10:07	Fine	Middle	2.0	27.80	27.80	27.60	8.11	8.11	8.11	28.71	28.71	28.71	57.9	58.7	58.9	3.90	3.95	3.96	4.69	4.70	4.65	6	5.00
2/10/2010	10:09	T IIIC	Middle	2.0	27.80	27.00	27.00	8.11	8.11	0.11	28.71	28.71	20.71	59.4	59.6	00.0	3.99	4.01	0.00	4.62	4.59	4.00	4	0.00
4/10/2013	10:53	Fine	Middle	1.5	28.00	28.00	28.00	8.08	8.08	8.08	30.57	30.57	30.60	49.2	48.9	48.9	3.25	3.24	3.23	2.98	2.97	3.00	3	3.00
4/10/2013	10:55	Tille	Middle	1.5	28.00	28.00	20.00	8.07	8.07	0.00	30.62	30.62	30.00	48.7	48.7	40.5	3.22	3.22	<u>3.23</u>	2.98	3.05	3.00	3	3.00
7/10/2013	13:10	Fine	Middle	1.0	28.30	28.30	28.30	8.14	8.14	8.14	30.50	30.50	30.50	62.4	62.5	62.6	4.10	4.11	4.12	9.07	9.06	0.08	12	12.50
7/10/2013	13:12	rille	Middle	1.0	28.30	28.30	20.30	8.13	8.13	0.14	30.50	30.50	30.50	62.7	62.8	02.0	4.12	4.14	4.12	9.05	9.14	9.08	13	12.50
9/10/2013	14:49	Fine	Middle	2.0	28.40	28.40	28.20	8.12	8.11	8.10	29.83	29.83	29.84	55.0	55.0	54.9	3.64	3.64	2.64	7.68	7.73	7.76	7	7.00
9/10/2013	14:51	Fine	Middle	2.0	28.00	28.00	28.20	8.09	8.09	8.10	29.85	29.85	29.84	54.8	54.8	54.9	3.63	3.63	3.64	7.77	7.84	7.76	7	7.00
	5:12	- ·	Middle	2.0	27.80	27.80		8.20	8.20		32.22	32.22		38.7	38.5		2.55	2.54		1.71	1.77		4	
11/10/2013	5:14	Cloudy	Middle	2.0	27.80	27.80	27.80	8.19	8.19	8.20	32.21	32.21	32.22	38.1	37.9	38.3	2.52	2.50	<u>2.53</u>	1.83	1.85	1.79	4	4.00
	9:15		Middle	1.5	27.00	27.00		8.49	8.49		33.42	33.42		47.8	47.5		3.16	3.14		5.40	5.53		5	
15/10/2013	9:17	Fine	Middle	1.5	26.80	26.80	26.90	8.45	8.45	8.47	33.48	33.48	33.45	46.8	46.7	47.2	3.10	3.10	<u>3.13</u>	5.62	5.55	5.53	5	5.00
	12:38		Middle	2.0	26.70	26.70		8.46	8.46		31.98	31.98		65.5	63.7		4.40	4.28		4.58	4.57		8	
17/10/2013	12:40	Fine	Middle	2.0	26.50	26.50	26.60	8.44	8.44	8.45	31.99	31.99	31.99	64.6	63.9	64.4	4.34	4.29	4.33	4.52	4.53	4.55	9	8.50
40/40/0040	10:47	-	Middle	1.5	26.40	26.40	22.25	8.42	8.42	0.40	34.31	34.31	04.04	54.4	54.2	54.0	3.62	3.61		5.52	5.53	5.50	4	4.00
19/10/2013	10:49	Fine	Middle	1.5	26.30	26.30	26.35	8.43	8.43	8.43	34.30	34.30	34.31	54.3	53.9	54.2	3.61	3.59	<u>3.61</u>	5.54	5.54	5.53	4	4.00
04/40/0040	13:45	-	Middle	2.0	26.90	26.90	22.22	8.44	8.44	0.44	32.69	32.69	20.00	70.5	69.2	20.4	4.66	4.60	4.00	2.85	2.83	0.00	11	40.00
21/10/2013	13:47	Fine	Middle	2.0	26.90	26.90	26.90	8.44	8.44	8.44	32.68	32.68	32.69	69.1	68.7	69.4	4.56	4.56	4.60	2.84	2.80	2.83	9	10.00
	1:54		Middle	2.0	25.30	25.30		8.34	8.34		33.84	33.84		53.9	53.7		3.67	3.66		4.29	4.30		12	
24/10/2013	1:56	Fine	Middle	2.0	25.10	25.10	25.20	8.33	8.33	8.34	33.82	33.82	33.83	53.6	53.3	53.6	3.66	3.64	3.66	4.33	4.30	4.31	10	11.00
	4:46		Middle	2.0	24.40	24.40		8.35	8.35		33.80	33.80		52.0	51.7		3.59	3.57		5.08	5.08		2	
26/10/2013	4:48	Fine	Middle	2.0	24.10	24.10	24.25	8.34	8.34	8.35	33.80	33.80	33.80	51.4	51.1	51.6	3.55	3.53	<u>3.56</u>	5.04	4.97	5.04	2	2.00

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

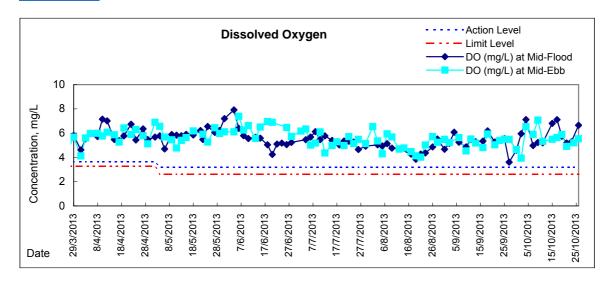
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi NTU	ty	Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	ilue	Average	Va		Average	Va		Average		Average
30/9/2013	10:20	Cloudy	Middle	3.0	27.27	27.27	27.26	7.86	7.86	7.86	32.19	32.19	32.20	68.0	67.7	67.5	4.50	4.49	4.47	10.99	10.99	10.97	5	5.00
	10:22		Middle	3.0	27.24	27.24		7.85	7.85		32.21	32.21		67.2	67.0		4.45	4.44		10.99	10.89		5	<u> </u>
2/10/2013	11:20	Fine	Middle	3.0	28.75	28.75	28.75	7.51	7.51	7.51	32.44	32.44	32.44	66.9	66.6	66.3	4.30	4.29	4.28	10.72	10.65	10.62	13	13.00
	11:22		Middle	3.0	28.75	28.75		7.51	7.51		32.44	32.44		66.1	65.7		4.27	4.24		10.57	10.55		13	
4/10/2013	11:30	Fine	Middle	3.0	28.39	28.39	28.43	7.55	7.55	7.54	32.78	32.78	32.76	102.8	101.9	102.2	6.77	6.71	6.73	13.08	13.03	13.03	16	19.50
4/10/2010	11:32	1 1110	Middle	3.0	28.46	28.46	20.40	7.52	7.52	7.04	32.73	32.73	02.70	101.9	102.1	102.2	6.71	6.72	0.70	13.00	12.99	10.00	23	15.50
7/10/2013	12:45	Fine	Middle	3.0	28.71	28.71	28.70	7.58	7.58	7.58	32.67	32.67	32.65	81.9	81.9	81.9	5.29	5.29	5.29	6.72	6.63	6.65	8	7.00
7710/2013	12:47	TIIIC	Middle	3.0	28.68	28.68	20.70	7.58	7.58	7.50	32.63	32.63	32.03	81.9	81.8	01.3	5.28	5.28	5.25	6.62	6.61	0.00	6	7.00
9/10/2013	14:25	Fine	Middle	3.0	28.20	28.20	28.20	8.12	8.12	8.12	31.76	31.76	31.77	80.7	79.5	80.5	5.27	5.19	5.25	11.31	11.19	11.20	9	8.50
9/10/2013	14:27	i ilie	Middle	3.0	28.20	28.20	20.20	8.12	8.12	0.12	31.77	31.77	31.77	80.6	81.0	00.5	5.26	5.29	5.25	11.15	11.14	11.20	8	0.30
44/40/0040	5:10	Olevidio	Middle	1.5	27.40	27.40	27.45	8.12	8.12	8.10	31.30	31.40	31.39	68.1	66.2	67.2	4.53	4.39	4.46	6.33	6.10	0.44	5	5.50
11/10/2013	5:11	Cloudy	Middle	1.5	27.50	27.50	21.45	8.08	8.08	0.10	31.42	31.42	31.39	67.6	66.7	07.2	4.48	4.42	4.40	6.09	5.91	6.11	6	5.50
45/40/0040	9:56	Fin -	Middle	3.0	28.24	28.24	00.00	7.54	7.54	7.54	33.12	33.12	00.40	71.9	71.8	74.0	4.66	4.66	4.00	12.89	12.92	40.00	13	12.50
15/10/2013	9:58	Fine	Middle	3.0	28.28	28.28	28.26	7.53	7.53	7.54	33.12	33.12	33.12	71.8	71.7	71.8	4.65	4.65	4.66	12.90	12.80	<u>12.88</u>	12	12.50
17/10/2013	11:05	Fin -	Middle	2.5	26.46	26.46	26.46	7.71	7.71	7.72	33.16	33.16	33.16	60.8	60.6	60.5	4.06	4.05	4.05	13.97	13.97	40.00	13	12.50
17/10/2013	11:07	Fine	Middle	2.5	26.46	26.46	26.46	7.72	7.72	1.12	33.16	33.16	33.16	60.4	60.3	60.5	4.04	4.03	4.05	13.98	13.81	<u>13.93</u>	12	12.50
40/40/0040	11:39	Fine	Middle	3.0	26.86	26.86	00.00	7.59	7.59	7.50	33.03	33.03	20.00	61.6	61.6	04.5	4.09	4.09	4.00	9.62	9.58	0.55	7	7.50
19/10/2013	11:40	Fine	Middle	3.0	26.86	26.86	26.86	7.59	7.59	7.59	33.08	33.08	33.06	61.5	61.3	61.5	4.08	4.07	4.08	9.55	9.44	<u>9.55</u>	8	7.50
04/40/0040	11:59	-	Middle	3.0	27.03	27.03	07.00	7.56	7.56	7.50	32.86	32.86	20.00	58.4	58.1	50.0	3.88	3.87	0.07	13.91	13.74	40.00	19	40.50
21/10/2013	12:01	Fine	Middle	3.0	27.03	27.03	27.03	7.56	7.56	7.56	32.86	32.86	32.86	58.0	58.1	58.2	3.86	3.86	3.87	13.73	13.80	<u>13.80</u>	20	<u>19.50</u>
	0:35		Middle	2.0	24.60	24.60		8.05	8.05		30.24	30.24		77.0	78.9		5.34	5.47		8.00	7.89		12	
24/10/2013	0:36	Fine	Middle	2.0	24.60	24.60	24.60	8.06	8.06	8.06	31.82	31.82	31.03	77.4	77.5	77.7	5.37	5.38	5.39	7.85	7.80	7.89	12	12.00
	5:07		Middle	1.5	23.90	23.90		7.99	7.99		32.23	32.23		73.1	74.0		5.16	5.23		7.73	7.64		7	
26/10/2013	5:08	Fine	Middle	1.5	23.70	23.70	23.80	8.00	8.00	8.00	32.22	32.22	32.23	73.4	71.9	73.1	5.18	5.08	5.16	7.59	7.56	7.63	5	6.00

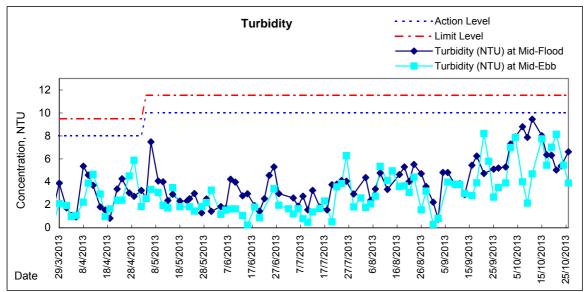
Remarks

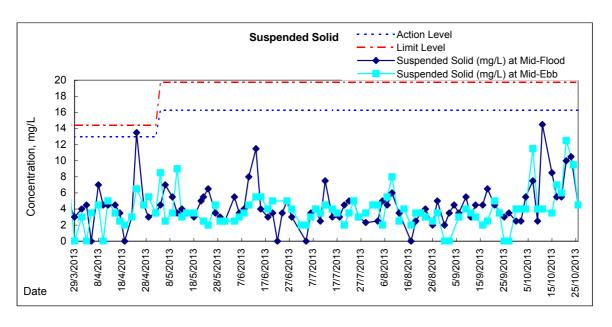
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

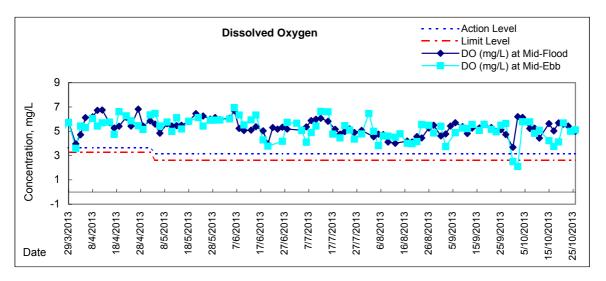
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

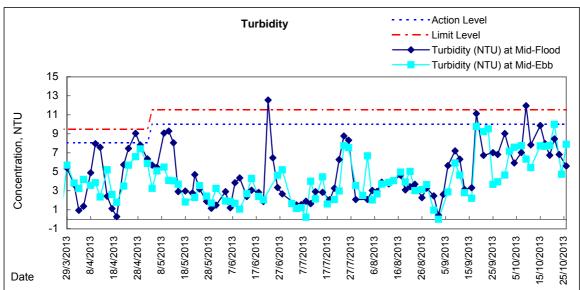


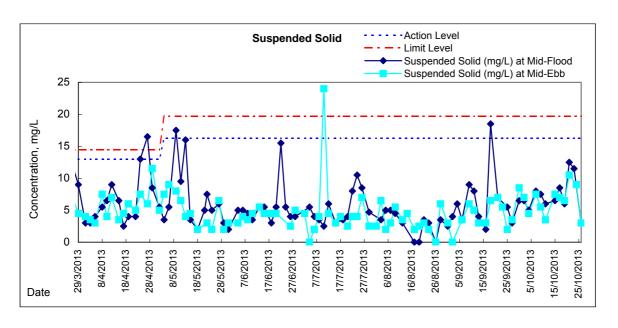




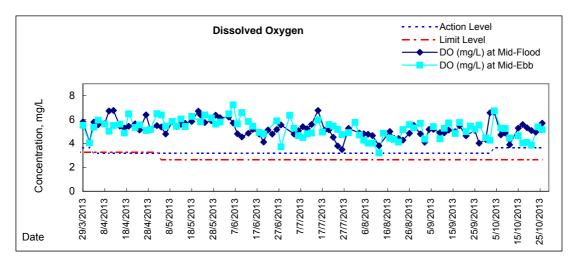
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

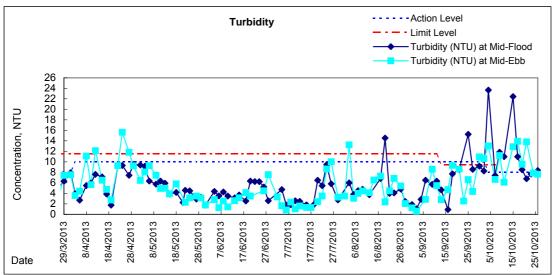


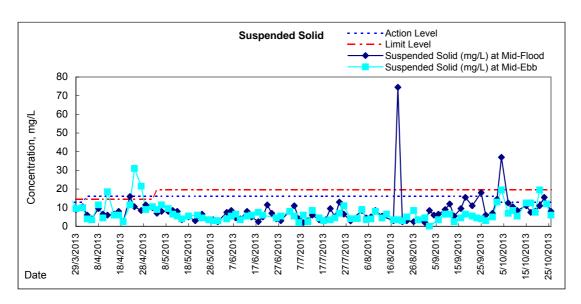




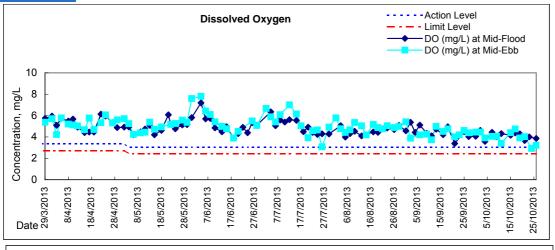
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

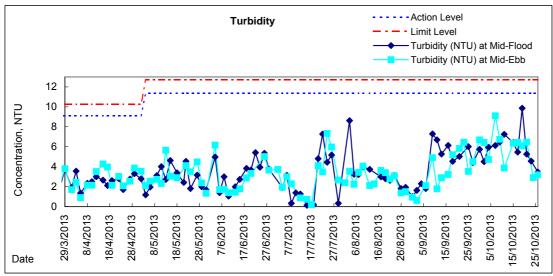


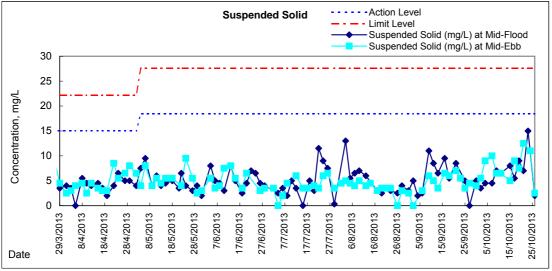




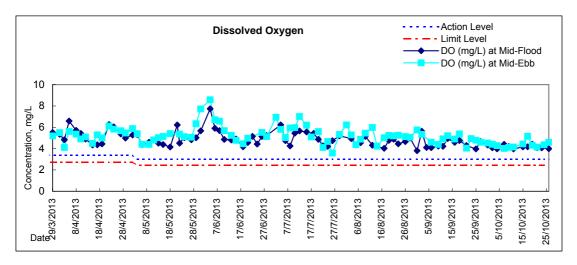
Graphic Presentation of Water Quality Result of C1 - HKCEC

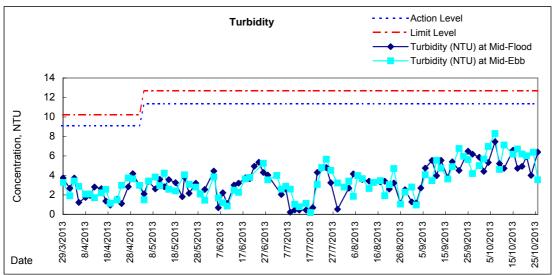


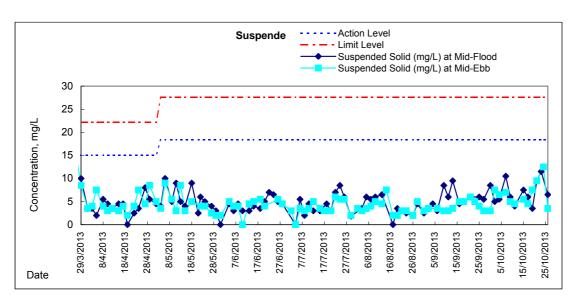




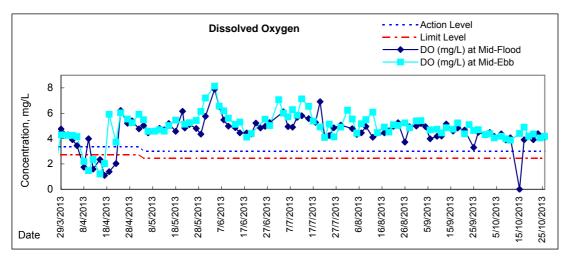
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

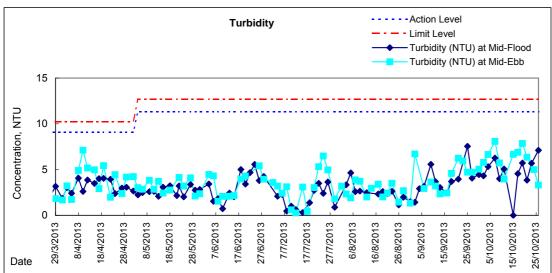


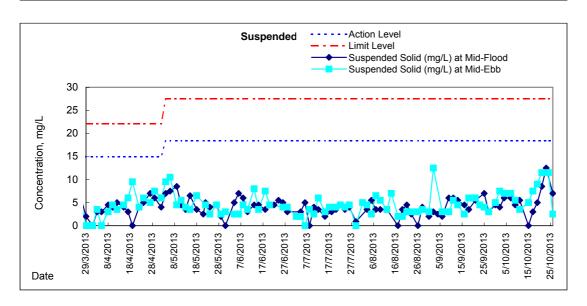




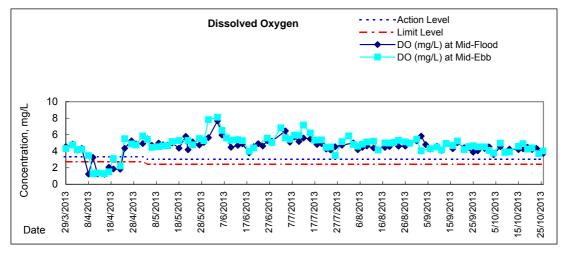


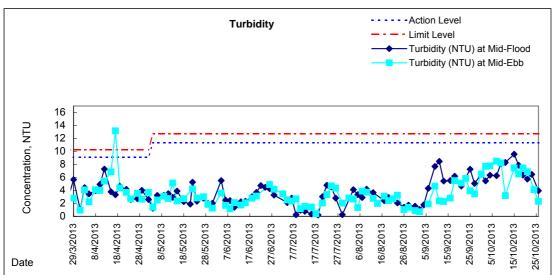


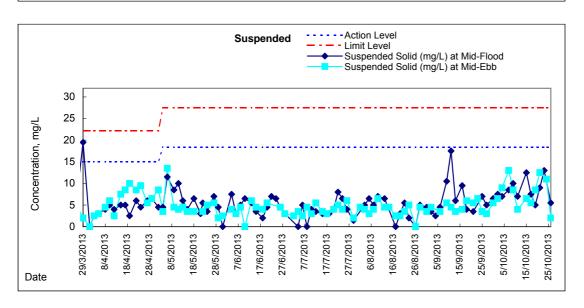




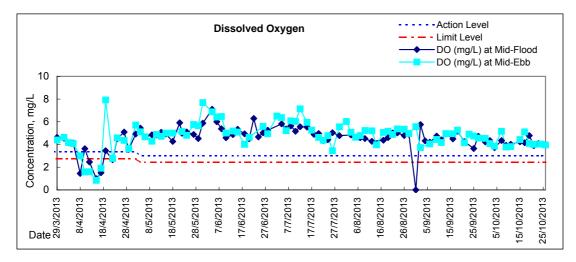
Graphic Presentation of Water Quality Result of P4 - SOC

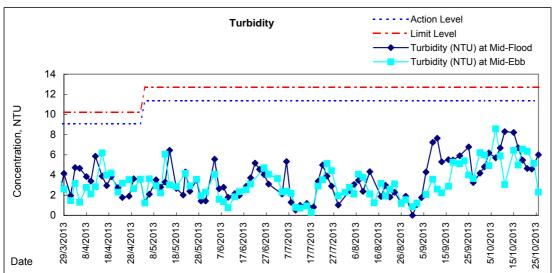


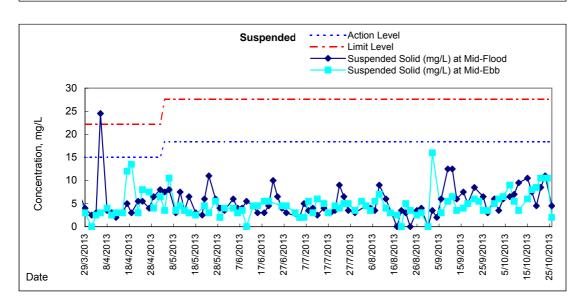




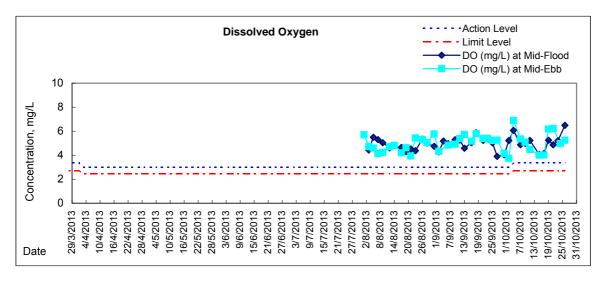
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

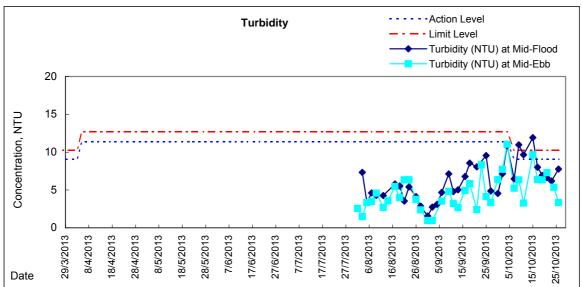


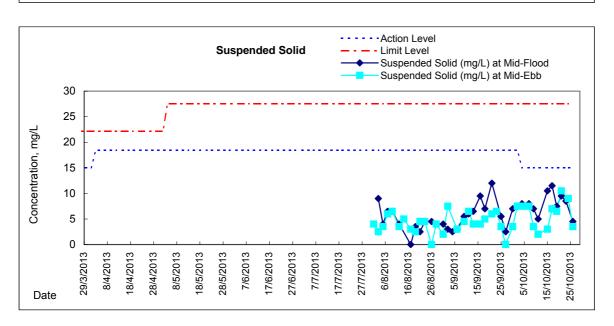




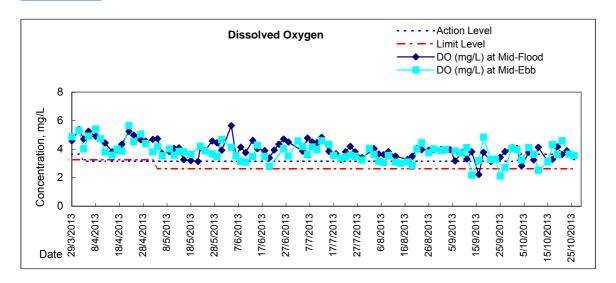
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

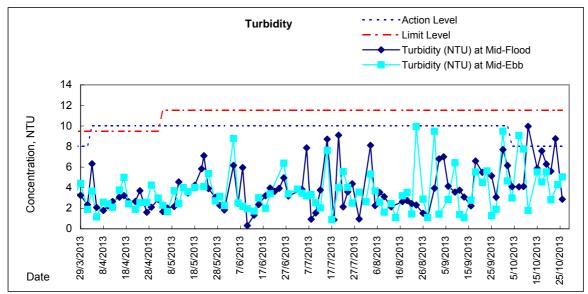


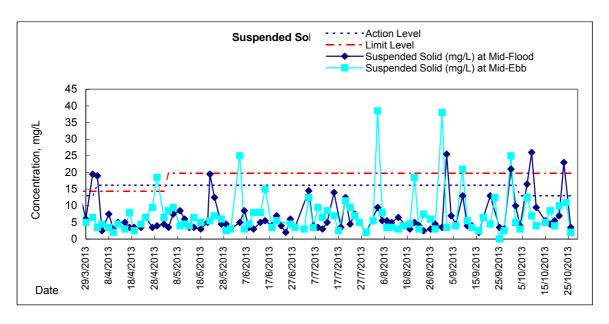




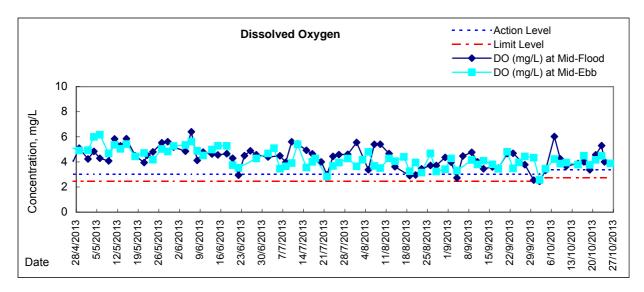
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

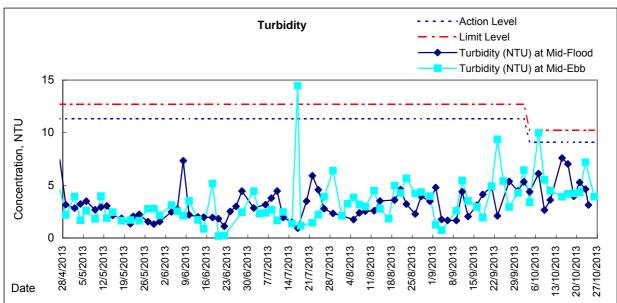


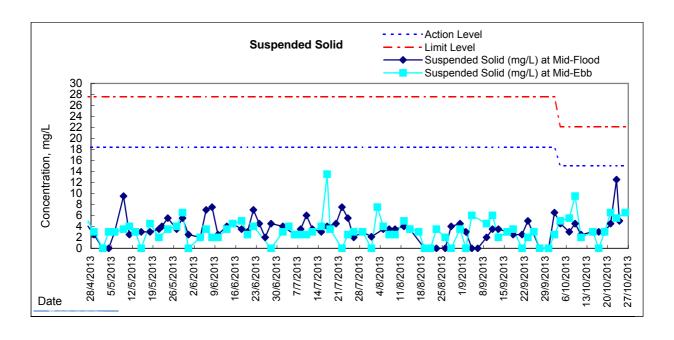




Graphic Presentation of Water Quality Result of C7 - Windsor House









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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	ty	D	O Satur	ration		DO mg/L	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	14:10	Cloudy	Middle	1.5	27.55	27.55	27.6	7.60	7.60	7.6	30.67	30.67	30.7	43.6	43.4	43.5	2.90	2.89	2.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	15:40	Fine	Middle	1.5	28.51	28.51	28.5	7.14	7.14	7.1	31.50	31.50	31.5	64.0	63.4	63.7	4.17	4.13	4.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2013	16:20	Fine	Middle	1.5	27.75	27.75	27.8	7.26	7.26	7.3	31.10	31.10	31.1	111.0	111.3	111.2	7.33	7.35	7.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	19:50	Fine	Middle	1.5	28.63	28.64	28.6	7.51	7.51	7.5	31.74	31.74	31.7	72.4	71.9	72.2	4.70	4.67	4.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/10/2013	11:35	Fine	Middle	1.5	27.60	27.60	27.6	8.01	8.01	8.0	30.84	30.84	30.8	63.0	59.4	61.2	4.22	3.43	3.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2013	11:50	Fine	Middle	1.5	28.53	28.53	28.5	7.19	7.19	7.2	31.81	31.81	31.8	68.6	68.1	68.4	4.45	4.42	4.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2013	15:25	Fine	Middle	1.5	28.27	28.27	28.3	7.07	7.07	7.1	31.93	31.93	31.9	63.7	63.4	63.6	4.16	4.13	4.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2013	15:49	Fine	Middle	1.5	26.68	26.68	26.7	7.60	7.60	7.6	32.47	32.47	32.5	52.5	52.4	52.5	3.51	3.50	3.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2013	19:41	Fine	Middle	1.5	26.50	26.50	26.5	8.13	8.13	8.1	32.86	32.86	32.9	77.9	78.9	78.4	5.24	5.31	5.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/10/2013	19:44	Haze	Middle	1.5	26.20	26.20	26.2	8.00	8.00	8.0	31.10	31.10	31.1	79.0	81.3	80.2	5.45	5.51	5.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/10/2013	21:47	Fine	Middle	1.5	25.50	25.50	25.5	7.98	7.98	8.0	31.07	31.07	31.1	79.2	80.1	79.7	5.45	5.51	5.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-
26/10/2013	17:35	Fine	Middle	1.5	25.11	25.11	25.1	7.62	7.62	7.6	30.48	30.48	30.5	64.6	64.0	64.3	4.43	4.41	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

		ood Hue																	
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ppt lue	Average	Va	lue	Average	Va	ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	14:18	Cloudy	Middle	1.5	27.75	27.75	27.8	7.62	7.62	7.6	30.87	30.87	30.9	38.4	37.8	38.1	2.54	2.50	2.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	15:45	Fine	Middle	1.5	28.53	28.53	28.5	7.08	7.08	7.1	31.13	31.13	31.1	50.7	50.5	50.6	3.31	3.25	<u>3.28</u>
	-		Bottom	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
4/10/2013	16:30	Fine	Middle	1.5	27.80	27.80	27.8	7.44	7.44	7.4	31.54	31.54	31.5	94.2	93.8	94.0	6.20	6.18	6.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	19:35	Fine	Middle	1.5	28.49	28.49	28.5	7.51	7.51	7.5	31.60	31.61	31.6	65.9	65.8	65.9	4.28	4.27	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/10/2013	11:40	Fine	Middle	1.5	27.70	27.70	27.7	8.00	8.00	8.0	30.81	30.81	30.8	56.5	55.7	56.1	3.74	3.68	3.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2013	12:15	Fine	Middle	1.5	28.44	28.44	28.4	7.22	7.22	7.2	31.82	31.82	31.8	61.8	61.3	61.6	4.02	3.99	4.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2013	15:30	Fine	Middle	1.5	28.32	28.32	28.3	7.07	7.07	7.1	32.49	32.49	32.5	62.3	62.2	62.3	4.05	4.04	4.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2013	15:55	Fine	Middle	1.5	26.85	26.85	26.9	7.60	7.60	7.6	32.64	32.64	32.6	48.1	48.2	48.2	3.20	3.21	3.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2013	19:33	Fine	Middle	1.5	26.40	26.40	26.4	8.16	8.16	8.2	31.10	31.10	31.1	67.5	67.9	67.7	4.57	4.60	4.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/10/2013	19:35	Haze	Middle	1.5	26.30	26.30	26.3	7.97	7.97	8.0	30.49	30.50	30.5	79.5	78.6	79.1	5.27	5.34	5.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/10/2013	21:37	Fine	Middle	1.5	25.30	25.30	25.3	8.06	8.05	8.1	29.84	29.85	29.8	58.1	56.7	57.4	4.04	3.93	3.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2013	17:40	Fine	Middle	1.5	25.17	25.17	25.2	7.60	7.60	7.6	32.47	32.47	32.5	62.4	62.2	62.3	4.28	4.27	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		<u> </u>										1						1	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	ty		O Satur	ation		DO mg/l	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue 70	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	14:02	Cloudy	Middle	1.5	26.99	26.99	27.0	7.60	7.60	7.6	21.64	21.64	21.6	49.1	48.6	48.9	3.47	3.43	3.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	15:27	Fine	Middle	1.5	28.52	28.52	28.5	7.05	7.05	7.1	29.12	29.12	29.1	71.2	71.3	71.3	4.70	4.71	4.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2013	16:12	Fine	Middle	1.5	26.90	26.90	26.9	7.30	7.30	7.3	18.52	18.52	18.5	67.8	67.7	67.8	4.88	4.87	4.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	21:05	Fine	Middle	1.5	28.69	28.69	28.7	7.50	7.50	7.5	29.01	29.01	29.0	57.2	57.0	57.1	3.78	3.76	<u>3.77</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/10/2013	11:27	Fine	Middle	1.5	27.80	27.80	27.8	8.01	8.01	8.0	28.24	28.24	28.2	64.1	65.4	64.8	4.30	4.39	4.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	1	-	-	-	-	-	-	-	-	-		-	-	-	-	-
11/10/2013	11:42	Fine	Middle	1.5	28.36	28.36	28.4	7.15	7.15	7.2	23.67	23.67	23.7	45.3	44.6	45.0	3.09	3.04	<u>3.07</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	1	-	-	-	-	-	-	-	-	-		-	-	-	-	-
15/10/2013	15:12	Fine	Middle	1.5	27.77	27.77	27.8	7.04	7.04	7.0	20.08	20.08	20.1	58.2	58.7	58.5	4.08	4.12	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2013	15:37	Fine	Middle	1.5	26.44	26.44	26.4	7.56	7.56	7.6	26.78	26.78	26.8	56.0	56.1	56.1	3.88	3.89	3.89
	-		Bottom	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2013	19:17	Fine	Middle	1.5	26.50	26.50	26.5	8.15	8.15	8.2	28.37	28.40	28.4	43.8	44.4	44.1	3.01	3.05	3.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/10/2013	19:15	Haze	Middle	1.5	26.40	26.40	26.4	8.06	8.06	8.1	29.70	29.71	29.7	48.0	48.7	48.4	3.27	3.31	3.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u> </u>	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/10/2013	21:15	Fine	Middle	1.5	25.40	25.40	25.4	7.98	7.98	8.0	29.92	29.92	29.9	44.7	44.6	44.7	3.11	3.09	3.10
	-		Bottom	1	-	-	-	·	-	-	-	-	1	ı	-	-	1	-	-
-	-		Surface	-	-	-	-	- 1	-	-	-	-	-	- 1	-	-	-	-	-
26/10/2013	17:25	Fine	Middle	1.5	24.98	24.98	25.0	7.76	7.76	7.8	24.38	24.38	24.4	91.7	91.6	91.7	6.28	6.26	6.27
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	D	O Satur	ation		DO	
		Condition	r	n	Va	°C lue	Average	Va	lue	Average	Va	ppt ilue	Average	Va	ilue %	Average	Va	mg/L ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	14:00	Cloudy	Middle	1.5	27.14	27.14	27.1	7.74	7.74	7.7	27.29	27.29	27.3	49.8	49.7	49.8	3.40	3.40	3.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	15:25	Fine	Middle	1.5	28.81	28.81	28.8	7.15	7.15	7.2	25.54	25.54	25.5	54.5	54.2	54.4	3.65	3.63	<u>3.64</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2013	16:10	Fine	Middle	1.5	27.23	27.23	27.2	7.44	7.44	7.4	23.63	23.63	23.6	62.9	61.9	62.4	4.37	4.30	4.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	21:11	Fine	Middle	1.5	28.35	28.36	28.4	7.43	7.43	7.4	28.91	28.91	28.9	59.4	58.8	59.1	3.93	3.88	<u>3.91</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/10/2013	11:25	Fine	Middle	1.5	27.80	27.80	27.8	8.06	8.06	8.1	27.86	27.86	27.9	70.0	69.5	69.8	4.69	4.66	4.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2013	11:40	Fine	Middle	1.5	28.21	28.21	28.2	7.25	7.25	7.3	23.72	23.72	23.7	54.8	53.0	53.9	3.75	3.62	3.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2013	15:10	Fine	Middle	1.5	28.11	28.11	28.1	7.25	7.25	7.3	25.02	25.02	25.0	53.8	53.8	53.8	3.65	3.65	<u>3.65</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2013	15:35	Fine	Middle	1.5	26.45	26.45	26.5	7.61	7.61	7.6	30.91	30.91	30.9	56.1	58.3	57.2	3.79	3.81	<u>3.80</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2013	19:24	Fine	Middle	1.5	26.30	26.30	26.3	7.98	7.98	8.0	28.29	28.29	28.3	45.0	45.2	45.1	3.10	3.11	<u>3.11</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/10/2013	19:25	Haze	Middle	1.5	26.40	26.40	26.4	8.00	7.99	8.0	29.67	29.62	29.6	52.3	52.9	52.6	3.57	3.61	3.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/10/2013	21:25	Fine	Middle	1.5	25.10	25.10	25.1	7.91	7.91	7.9	29.85	29.85	29.9	60.3	58.2	59.3	4.21	4.07	4.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2013	17:27	Fine	Middle	1.5	24.97	24.97	25.0	7.71	7.71	7.7	23.35	23.35	23.4	90.7	90.6	90.7	6.20	6.19	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weater Condition		g Depth	Wat	ter Temp	erature		pH -			Salinit	у		OO Satur %	ation		DO mg/L	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	11:05	Cloudy	Middle	1.5	27.46	27.46	27.5	7.62	7.62	7.6	31.39	31.39	31.4	49.5	49.2	49.4	3.28	3.26	3.27
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	12:04	Fine	Middle	1.5	28.26	28.26	28.3	7.18	7.18	7.2	30.13	30.13	30.1	48.7	48.9	48.8	3.25	3.26	3.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2013	12:10	Fine	Middle	1.5	27.81	27.81	27.8	7.25	7.25	7.3	31.77	31.77	31.8	72.0	71.9	72.0	4.89	4.88	4.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	13:40	Fine	Middle	1.5	28.51	28.51	28.5	7.21	7.21	7.2	30.99	30.99	31.0	75.1	73.9	74.5	4.91	4.81	4.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/10/2013	15:15	Fine	Middle	1.5	28.60	28.60	28.6	7.97	7.97	8.0	30.18	30.18	30.2	73.1	71.2	72.2	4.79	4.69	4.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2013	2:52	Cloudy	Middle	1.5	27.50	27.50	27.5	8.01	8.01	8.0	30.14	30.14	30.1	52.1	50.8	51.5	3.48	3.39	3.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2013	10:50	Fine	Middle	1.5	27.82	27.82	27.8	7.23	7.23	7.2	31.11	31.11	31.1	67.1	67.2	67.2	4.42	4.43	4.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2013	11:50	Fine	Middle	1.5	26.59	26.59	26.6	7.63	7.63	7.6	32.75	32.75	32.8	66.1	66.3	66.2	4.42	4.43	4.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2013	12:30	Fine	Middle	1.5	26.90	26.90	26.9	7.35	7.35	7.4	32.30	32.30	32.3	61.5	61.3	61.4	4.09	4.08	4.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/10/2013	13:40	Fine	Middle	1.5	27.32	27.32	27.3	7.56	7.56	7.6	32.39	32.39	32.4	88.3	86.8	87.6	5.83	5.78	5.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2013	1:37	Fine	Middle	1.5	24.60	24.60	24.6	7.95	7.95	8.0	29.14	29.14	29.1	52.1	52.8	52.5	3.68	3.72	3.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2013	3:26	Fine	Middle	1.5	23.00	23.10	23.1	7.71	7.71	7.7	29.25	29.26	29.3	49.1	51.1	50.1	3.62	3.70	3.66
	_		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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		g Depth	Wat	er Temp	erature		pH -			Salinit	у	С	OO Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	11:15	Cloudy	Middle	1.5	27.50	27.50	27.5	7.71	7.71	7.7	30.89	30.89	30.9	44.2	43.5	43.9	2.92	2.89	<u>2.91</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	12:17	Fine	Middle	1.5	28.06	28.06	28.1	7.23	7.23	7.2	30.36	30.36	30.4	53.3	53.1	53.2	3.52	3.50	<u>3.51</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2013	12:15	Fine	Middle	1.5	27.91	27.91	27.9	7.26	7.26	7.3	31.25	31.25	31.3	64.4	64.2	64.3	4.24	4.22	4.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	13:50	Fine	Middle	1.5	28.26	28.26	28.3	7.12	7.12	7.1	31.17	31.17	31.2	60.6	60.5	60.6	3.97	3.95	3.96
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/10/2013	15:25	Fine	Middle	1.5	28.40	28.40	28.4	7.99	7.99	8.0	30.65	30.65	30.7	62.5	62.3	62.4	4.10	4.07	4.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2013	2:40	Cloudy	Middle	1.5	27.50	27.50	27.5	7.80	7.81	7.8	29.39	29.39	29.4	56.2	56.9	56.6	3.77	3.80	<u>3.79</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2013	11:00	Fine	Middle	1.5	27.78	27.78	27.8	7.13	7.13	7.1	31.65	31.65	31.7	66.7	66.9	66.8	4.39	4.40	4.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2013	12:00	Fine	Middle	1.5	26.55	26.55	26.6	7.65	7.65	7.7	32.18	32.18	32.2	55.7	55.7	55.7	3.73	3.74	<u>3.74</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2013	12:45	Fine	Middle	1.5	26.88	26.88	26.9	7.50	7.50	7.5	32.32	32.32	32.3	65.5	65.6	65.6	4.36	4.37	4.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/10/2013	13:45	Fine	Middle	1.5	26.94	26.94	26.9	7.47	7.47	7.5	31.68	31.68	31.7	71.5	70.7	71.1	4.77	4.72	4.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2013	1:28	Fine	Middle	1.5	24.50	24.50	24.5	8.09	8.09	8.1	29.38	29.38	29.4	55.0	54.9	55.0	3.89	3.89	3.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2013	3:17	Fine	Middle	1.5	22.70	22.70	22.7	8.10	8.10	8.1	28.27	28.27	28.3	48.3	47.9	48.1	3.54	3.51	3.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp	erature		pH -			Salinit	у	D	O Satur	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	11:02	Cloudy	Middle	1.5	27.12	27.12	27.1	7.72	7.72	7.7	24.49	24.49	24.5	52.7	51.9	52.3	3.60	3.58	3.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	11:58	z	Middle	1.5	28.12	28.12	28.1	7.29	7.29	7.3	28.21	28.21	28.2	51.9	52.3	52.1	3.46	3.49	<u>3.48</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2013	12:04	Fine	Middle	1.5	27.79	27.79	27.8	7.29	7.29	7.3	26.36	26.36	26.4	74.4	73.7	74.1	5.04	5.00	5.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	13:32	Fine	Middle	1.5	28.26	28.26	28.3	7.18	7.18	7.2	30.84	30.84	30.8	77.3	77.0	77.2	5.07	5.06	5.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:59		Surface	1.0	27.70	27.70	27.7	7.77	7.77	7.8	20.59	20.59	20.6	64.4	64.3	64.4	4.52	4.52	4.52
9/10/2013	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:01		Bottom	3.0	27.70	27.70	27.7	7.76	7.76	7.8	20.60	20.60	20.6	65.9	65.8	65.9	4.62	4.61	<u>4.62</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2013	4:00	Cloudy	Middle	1.0	27.40	27.40	27.4	7.80	7.80	7.8	23.93	23.93	23.9	25.0	24.1	24.6	1.71	1.67	<u>1.69</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2013	10:37	Fine	Middle	1.5	27.65	27.69	27.7	7.10	7.10	7.1	28.16	28.16	28.2	57.8	56.9	57.4	3.90	3.83	3.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2013	11:37	Fine	Middle	1.5	26.47	26.47	26.5	7.59	7.59	7.6	30.38	30.38	30.4	48.6	49.1	48.9	3.29	3.34	<u>3.32</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ļ	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2013	12:18	Fine	Middle	1.5	26.84	26.84	26.8	7.48	7.48	7.5	30.85	30.85	30.9	56.3	56.4	56.4	3.78	3.78	3.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
21/10/2013	11:35	Fine	Middle	1.5	26.40	26.40	26.4	7.49	7.49	7.5	31.03	31.03	31.0	67.3	67.2	67.3	4.57	4.56	4.57
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2013	1:10	Fine	Middle	1.5	24.70	24.70	24.7	7.90	7.90	7.9	26.01	26.01	26.0	24.9	25.3	25.1	1.78	1.81	<u>1.80</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	1		-	-		-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2013	2:58	Fine	Middle	1.5	23.10	23.10	23.1	7.92	7.92	7.9	23.20	23.20	23.2	25.7	26.0	25.9	1.93	1.95	<u>1.94</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weater Condition	·	g Depth	Wat	er Temp	erature		pH -			Salinit	у		OO Satur %	ation		DO mg/L	
		00114111011	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2013	11:00	Cloudy	Middle	1.5	27.36	27.36	27.4	7.81	7.81	7.8	31.03	31.03	31.0	66.7	66.1	66.4	4.44	4.40	4.42
	-		Bottom	•	-	-		-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2013	11:56	Fine	Middle	1.5	28.13	28.13	28.1	7.35	7.35	7.4	28.21	28.21	28.2	50.6	50.8	50.7	3.37	3.38	3.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2013	12:02	Fine	Middle	1.5	27.67	27.67	27.7	7.35	7.35	7.4	26.41	26.41	26.4	77.6	76.8	77.2	5.26	5.21	5.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/10/2013	13:30	Fine	Middle	1.5	28.50	28.50	28.5	7.23	7.23	7.2	30.94	30.94	30.9	78.8	78.7	78.8	5.15	5.14	5.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:55		Surface	1.0	27.90	27.90	27.9	8.01	8.01	8.0	20.03	20.03	20.0	42.7	42.8	42.8	2.98	3.00	2.99
9/10/2013	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:57		Bottom	3.0	28.20	28.20	28.2	7.84	7.84	7.8	20.02	20.02	20.0	36.6	35.0	35.8	2.55	2.40	2.48
	-	<u> </u>	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2013	4:09	Cloudy	Middle	1.0	27.30	27.30	27.3	7.74	7.74	7.7	23.69	23.69	23.7	20.1	20.4	20.3	1.39	1.42	<u>1.41</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	_		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2013	10:35	Fine	Middle	1.5	27.77	27.77	27.8	7.21	7.21	7.2	24.73	24.73	24.7	49.9	49.8	49.9	3.42	3.41	3.42
	_		Bottom	-	-	_	-	_	_	-	-	-	-	-	-	-	-	-	-
	_		Surface	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
17/10/2013	11:35	Fine	Middle	1.5	26.49	26.49	26.5	7.63	7.63	7.6	30.32	30.32	30.3	48.1	48.6	48.4	3.26	3.29	3.28
	-		Bottom	-	_	_	-	-	-	-	-	-	-	-	-	-	-	-	-
			Surface	-	_	_	-	_	_	_	_			_		_	_	_	_
19/10/2013	12:16	Fine	Middle	1.5	26.84	26.84	26.8	7.52	7.52	7.5	30.92	30.92	30.9	54.6	54.3	54.5	3.65	3.64	3.65
10/10/2010	-	1 1116	Bottom	1.5		20.04	20.0	7.52	7.52	-	30.92	30.92	30.9	34.0	-	-	3.03	3.04	<u>3.03</u>
			Surface	-			-			-		_	-						
21/10/2013	11:33	Fine	Middle	1.5	26.12	26.12	26.1	7.46	7.46	7.5	32.39	32.39	32.4	65.4	63.8	64.6	4.39	4.28	4.34
21/10/2013		rifie						7.46											
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/40/2212	- 4.47	<u>-</u>	Surface	-	- 04.00	-	-	7.00	7.00	- 7.0	-	-	-	-	- 00.5	-	-	- 0.44	- 0.40
24/10/2013	1:17	Fine	Middle	1.5	24.60	24.60	24.6	7.83	7.83	7.8	25.92	25.92	25.9	33.2	33.5	33.4	2.39	2.41	<u>2.40</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2013	3:06	Fine	Middle	1.5	23.00	23.00	23.0	7.80	7.80	7.8	23.01	23.03	23.0	27.7	27.8	27.8	2.08	2.09	<u>2.09</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

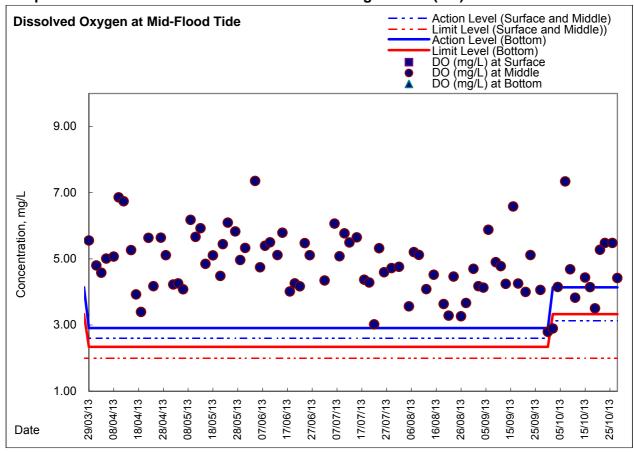
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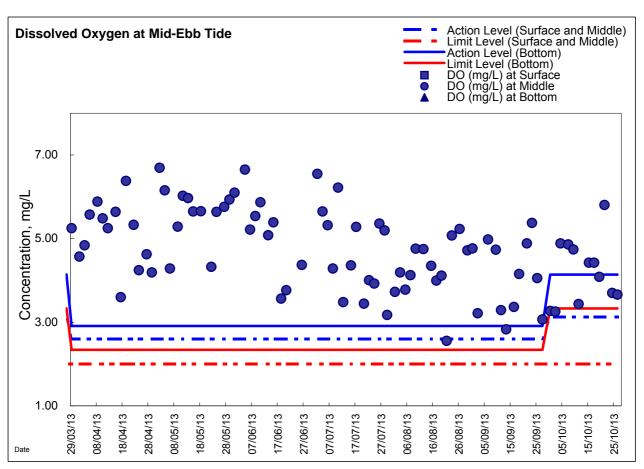
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

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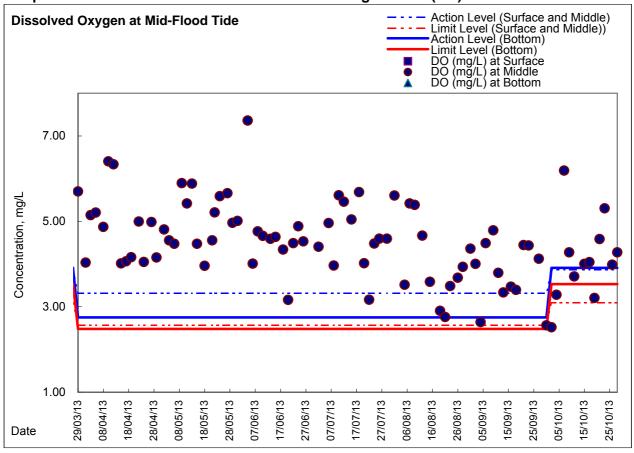
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel

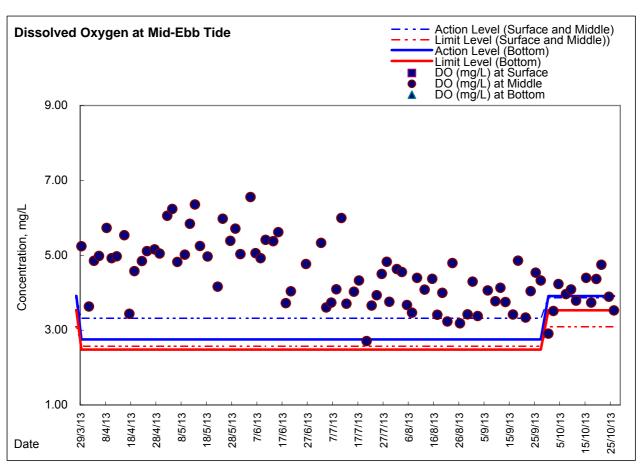




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Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House

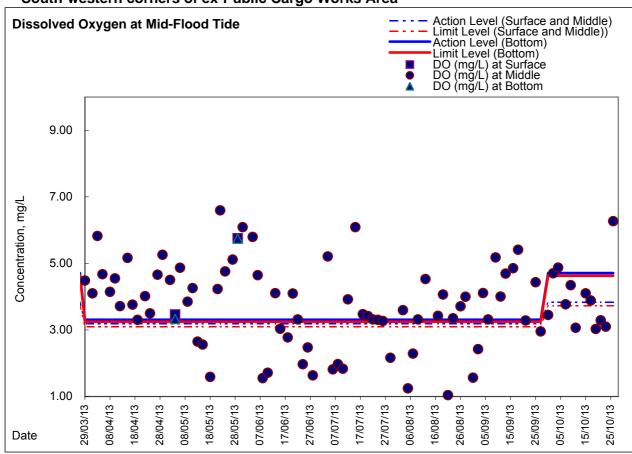


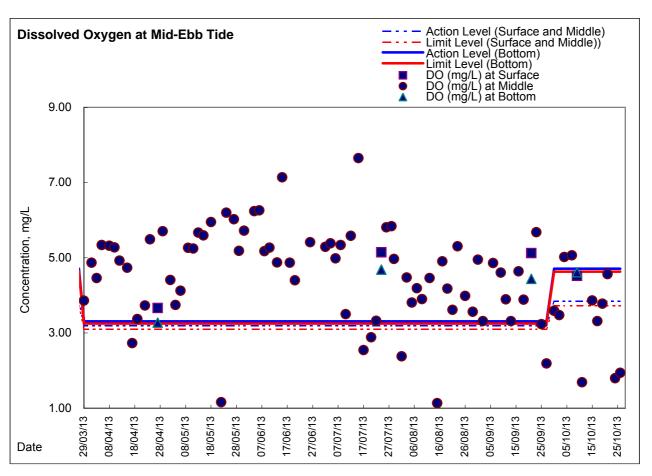




Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW

- South-western corners of ex-Public Cargo Works Area

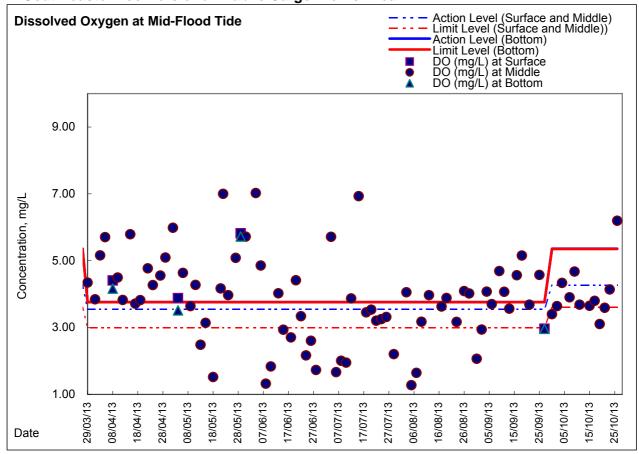


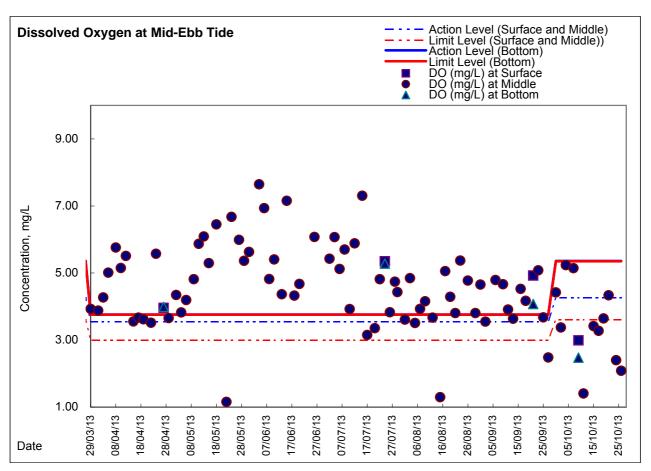




Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE

- 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 Centr	re)			
Normal Day 07:00-19:00	4/10/2013 12:01 65.7	9/10/2013 18:31 57.5	16/10/2013 13:01 72.0	22/10/2013 7:31 67.6	26/10/2013 14:01 68.5
	4/10/2013 12:31 67.6	10/10/2013 7:01 65.4	16/10/2013 13:31 73.0	22/10/2013 8:01 70.5	26/10/2013 14:31 68.4
· · · · · · · · · · · · · · · · · · ·	4/10/2013 13:01 70.2	10/10/2013 7:31 63.5	16/10/2013 14:01 71.1	22/10/2013 8:31 71.6	26/10/2013 15:01 68.5
28/9/2013 7:01 65.4	4/10/2013 13:31 71.0	10/10/2013 8:01 65.9	16/10/2013 14:31 69.6	22/10/2013 9:01 72.7	26/10/2013 15:31 67.1
28/9/2013 7:31 60.3	4/10/2013 14:01 73.9	10/10/2013 8:31 68.9	16/10/2013 15:01 69.8	22/10/2013 9:31 72.1	26/10/2013 16:01 66.6
28/9/2013 8:01 72.4	4/10/2013 14:31 71.7	10/10/2013 9:01 70.0	16/10/2013 15:31 71.0	22/10/2013 10:01 71.7	26/10/2013 16:31 67.5
28/9/2013 8:31 74.5	4/10/2013 15:01 74.4	10/10/2013 9:31 72.4	16/10/2013 16:01 71.7	22/10/2013 10:31 71.6	26/10/2013 17:01 69.1
28/9/2013 9:01 73.7	4/10/2013 15:31 73.7	10/10/2013 10:01 72.7	16/10/2013 16:31 71.1	22/10/2013 11:01 72.1	26/10/2013 17:31 67.6
28/9/2013 9:31 72.7	4/10/2013 16:01 75.4	10/10/2013 10:31 71.2	16/10/2013 17:01 69.7	22/10/2013 11:31 67.8	26/10/2013 18:01 61.1
28/9/2013 10:01 68.7	4/10/2013 16:31 73.5	10/10/2013 11:01 71.8	16/10/2013 17:31 68.3	22/10/2013 12:01 61.9	26/10/2013 18:31 66.2
28/9/2013 10:31 67.6	4/10/2013 17:01 72.7	10/10/2013 11:31 66.7	16/10/2013 18:01 66.8	22/10/2013 12:31 67.4	Normal Day 19:00-23:00,
28/9/2013 11:01 67.7	4/10/2013 17:31 69.2	10/10/2013 12:01 64.8	16/10/2013 18:31 66.2	22/10/2013 13:01 70.5	
28/9/2013 11:31 65.9	4/10/2013 18:01 66.0	10/10/2013 12:31 64.1	17/10/2013 7:01 65.5	22/10/2013 13:31 72.0	Sunday & Holiday
28/9/2013 12:01 66.6	4/10/2013 18:31 65.7	10/10/2013 13:01 69.8	17/10/2013 7:31 67.8	22/10/2013 14:01 71.0	07:00-23:00
28/9/2013 12:31 50.1	5/10/2013 7:01 65.2	10/10/2013 13:31 69.7 10/10/2013 14:01 70.7	17/10/2013 8:01 69.7	22/10/2013 14:31 71.6 22/10/2013 15:01 70.3	
28/9/2013 13:01 64.1 28/9/2013 13:31 64.9	5/10/2013 7:31 56.0 5/10/2013 8:01 71.2	10/10/2013 14:31 70.2	17/10/2013 8:31 70.1 17/10/2013 9:01 70.3	22/10/2013 15:31 69.4	28/9/2013 19:01 63.0 28/9/2013 19:06 63.8
28/9/2013 14:01 66.4	5/10/2013 8:31 71.2	10/10/2013 15:01 70.4	17/10/2013 9:31 68.8	22/10/2013 16:01 69.0	28/9/2013 19:11 63.2
28/9/2013 14:31 68.3	5/10/2013 9:01 71.7	10/10/2013 15:31 70.5	17/10/2013 10:01 71.8	22/10/2013 16:31 68.0	28/9/2013 19:16 63.2
28/9/2013 15:01 66.0	5/10/2013 9:31 70.5	10/10/2013 16:01 71.2	17/10/2013 10:31 71.7	22/10/2013 17:01 70.2	28/9/2013 19:21 63.8
28/9/2013 15:31 63.9	5/10/2013 10:01 70.8	10/10/2013 16:31 70.3	17/10/2013 11:01 71.4	22/10/2013 17:31 69.6	28/9/2013 19:26 63.6
28/9/2013 16:01 64.9	5/10/2013 10:31 68.8	10/10/2013 17:01 70.3	17/10/2013 11:31 67.8	22/10/2013 18:01 67.7	28/9/2013 19:31 63.9
	5/10/2013 11:01 70.6	10/10/2013 17:31 68.9	17/10/2013 12:01 64.4	22/10/2013 18:31 66.1	28/9/2013 19:36 62.7
28/9/2013 16:31 65.4 28/9/2013 17:01 65.6	5/10/2013 11:31 67.1	10/10/2013 18:01 66.4	17/10/2013 12:31 65.9	23/10/2013 7:01 65.7	28/9/2013 19:41 63.7
28/9/2013 17:31 64.0	5/10/2013 12:01 66.2	10/10/2013 18:31 66.2	17/10/2013 13:01 70.9	23/10/2013 7:31 66.3	28/9/2013 19:46 63.8
28/9/2013 18:01 66.6	5/10/2013 12:31 67.3	11/10/2013 7:01 65.4	17/10/2013 13:31 70.9	23/10/2013 8:01 69.6	28/9/2013 19:51 63.8
28/9/2013 18:31 53.0	5/10/2013 13:01 74.0	11/10/2013 7:31 65.5	17/10/2013 14:01 70.9	23/10/2013 8:31 69.9	28/9/2013 19:56 64.0
30/9/2013 7:01 66.8	5/10/2013 13:31 73.8	11/10/2013 8:01 67.8	17/10/2013 14:31 71.9	23/10/2013 9:01 70.3	28/9/2013 20:01 63.3
30/9/2013 7:31 62.9	5/10/2013 14:01 74.1	11/10/2013 8:31 67.5	17/10/2013 15:01 71.6	23/10/2013 9:31 70.8	28/9/2013 20:06 64.3
30/9/2013 8:01 64.9	5/10/2013 14:31 72.9	11/10/2013 9:01 67.7		23/10/2013 10:01 71.6	28/9/2013 20:11 63.2
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Real-time Noise Data 29/9/2013 10:51 64.3	RTN2a (Hong Kong Electric Centre 29/9/2013 19:56 62.0	<u>e)</u> 1/10/2013 9:01 62.9	1/10/2013 18:06 64.2	3/10/2013 19:11 63.1	5/10/2013 20:16 62.8
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29/9/2013 18:11 62.7	1/10/2013 7:16 60.4	1/10/2013 16:21 64.0	2/10/2013 21:26 62.2	4/10/2013 22:31 63.0	6/10/2013 11:36 64.4
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29/9/2013 18:46 62.4	1/10/2013 7:51 61.7	1/10/2013 16:56 63.8	2/10/2013 22:01 62.6	5/10/2013 19:06 63.0	6/10/2013 12:11 63.9
29/9/2013 18:51 62.7	1/10/2013 7:56 62.8	1/10/2013 17:01 64.8	2/10/2013 22:06 63.3	5/10/2013 19:11 63.0	6/10/2013 12:16 63.4
29/9/2013 18:56 62.5	1/10/2013 8:01 64.9	1/10/2013 17:06 64.0	2/10/2013 22:11 63.1	5/10/2013 19:16 63.6	6/10/2013 12:21 64.0
29/9/2013 19:01 62.5	1/10/2013 8:06 61.2	1/10/2013 17:11 63.3	2/10/2013 22:16 63.3	5/10/2013 19:21 63.9	6/10/2013 12:26 63.8
29/9/2013 19:06 62.8	1/10/2013 8:11 62.0	1/10/2013 17:16 64.0	2/10/2013 22:21 62.5	5/10/2013 19:26 64.0	6/10/2013 12:31 63.7
29/9/2013 19:11 62.7	1/10/2013 8:16 62.5	1/10/2013 17:21 63.5	2/10/2013 22:26 62.5	5/10/2013 19:31 63.8	6/10/2013 12:36 62.9
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29/9/2013 19:26 62.2	1/10/2013 8:31 62.2	1/10/2013 17:36 62.9	2/10/2013 22:41 62.6	5/10/2013 19:46 64.1	6/10/2013 12:51 63.4
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29/9/2013 19:36 62.1	1/10/2013 8:41 63.1	1/10/2013 17:46 63.8	2/10/2013 22:51 62.9	5/10/2013 19:56 63.6	6/10/2013 13:01 63.6
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29/9/2013 19:46 62.3	1/10/2013 8:51 63.3	1/10/2013 17:56 64.1	3/10/2013 19:01 62.8	5/10/2013 20:06 64.1	6/10/2013 13:11 62.7
29/9/2013 19:51 62.1	1/10/2013 8:56 62.9	1/10/2013 18:01 63.2	3/10/2013 19:06 62.5	5/10/2013 20:11 63.0	6/10/2013 13:16 63.5

Real-time Noise Data	RTN2a (Hong Kong Electric Centr		1	i	
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6/10/2013 13:26 63.6	6/10/2013 22:31 62.9	9/10/2013 19:36 65.0	11/10/2013 20:41 63.1	13/10/2013 9:46 60.5	13/10/2013 18:51 60.5
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Real-time Noise Data 22/10/2013 22:21 62.1	RTN2a (Hong Kong Electric Cent 25/10/2013 19:26 62.6	<u>re)</u> 27/10/2013 8:31 61.6	27/10/2013 17:36 61.2	28/9/2013 3:26 60.8	29/9/2013 4:31 58.2
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Real-time Noise Data 30/9/2013 5:36 59.5	RTN2a (Hong Kong Electric Centr 1/10/2013 6:41 63.7	<u>e)</u> 2/10/2013 23:46 63.8	4/10/2013 0:51 61.9	5/10/2013 1:56 61.9	6/10/2013 3:01 60.9
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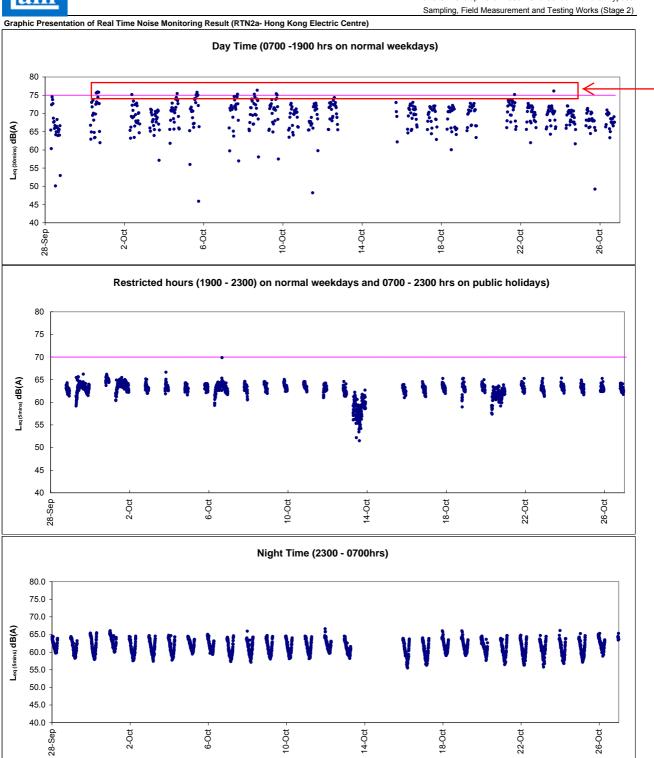
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Real-time Noise Data 27/10/2013 23:36 62.9 27/10/2013 23:41 63.2 27/10/2013 23:46 63.3 27/10/2013 23:51 64.0 27/10/2013 23:56 62.7

RTN2a (Hong Kong Electric Centre)

Due to electricity maintenance work of Hong Kong Electric Centre, the monitoring was temporary suspended from 13 Oct 2013 22:06 to 15 Oct 2013 17:01.





After checking with contractor HY/2009/19, no major noisy construction works were conducted at the concerned location during the recorded period. On-going Breaking works and piling works was observed undertaken at adjacent non-CWB Project construction siites. As such, the exceedances were considered to be contributed by non-CWB Project works.

Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

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

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EVENT	ACTION											
	ET	IEC	ER	CONTRACTOR								
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	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;	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; 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					
CACIA1	ET	IEC	ER	CONTRACTOR			
ACTION LEVEL							
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)			
2. Exceedance for two or more consecutive samples	Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)			
LIMIT LEVEL	1			I .			
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)			
Exceedance for two or more consecutive samples	Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)			

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 agreemitigation 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	Identify source/reason of exceedance; Repeat odour patrol to confirm finding.	 Carry out investigation to identify the source/reason of exceedance; Rectify any unacceptable practice Implement more mitigation measures if necessary; 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.	 Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions properly implemented; If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 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_10N143	3-Oct-13	15:17	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	Possible reason:	Traffic nearby was observed during monitoring and was considered as the major noise contribution.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Formwork erection and removal of cofferdam side panel 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_10N144	16-Oct-13	14:00	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	Possible reason:	Traffic nearby was observed during monitoring and was considered as the major noise contribution.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. 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	Depth	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	1
X 10D309		Mid-Flood		Middle	DO(mg/l)	2.52	3.31		Possible reason:	Possible in relation to the accumulation of organic particles discharged
X_10D309	30-3ep-13	IVIIU-FIOOU	O1	Middle	DO(IIIg/I)	2.52	3.31	2.57	FOSSIDIE TEASOTT.	from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were no marine activities conducted on 30 Sep 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily
									Remarks / Other Obs:	inspertion In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D310	30-Sep-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.40	3.55	3.00	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, there was no marine works undertaken at ex-WPCWA on 30 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D311	30-Sep-13	Mid-Ebb	C7	Middle	DO(mg/l)	2.91	3.31	2.57	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were no marine activities conducted on 30 Sep 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily
									Remarks / Other Obs:	inspection. In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D312	02-Oct-13	Mid-Flood	C7	Middle	DO(mg/l)	3.28	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were no marine activities conducted on 02 Oct 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily inspection.
									Remarks / Other Obs:	In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D313	02-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.64	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, there was no marine works undertaken at ex-WPCWA on 02 Oct 2013.
									Remarks / Other Obs:	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 Leve	l imit l evel	Follow-up action	
X 10D314		Mid-Ebb	C7		DO(mg/l)	3.51	3.87		Possible reason:	Possible in relation to the accumulation of organic particles discharged
	02-061-13	IVIIU-EDD		iviluale	DO(IIIg/I)	3.51	3.07	3.09	ir ussibie reasuri.	from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO
										monitoring. Checked with Contractor works, there were no marine activities conducted on 02 Oct 2013. Checking with the Contractor's daily
									Remarks / Other Obs:	records, silt screen at C7 was in proper condition in their daily inspection. In view that there was no marine activities at C7, it was considered not
										related to Project works.
X_10D315	02-Oct-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.48	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	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 02 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D316	02-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.38	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, there was no marine works undertaken at ex-WPCWA on 02 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D317	07-Oct-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.77	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, there was no marine works undertaken at ex-WPCWA on 07 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D318	07-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.91	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, there was no marine works undertaken at ex-WPCWA on 07 Oct 2013.
			_	_					Remarks / Other Obs:	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 Leve	Limit Laval	Follow-up action	
										Describle in relation to the accumulation of argonic particles discharged
X_10D319	U9-UCT-13	Mid-Flood	C1	Middle	DO(mg/l)	3.71	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO
										monitoring. Checked with Contractor works, there were no marine activities conducted on 09 Oct 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily
									Remarks / Other Obs:	inspection. In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D320	09-Oct-13	Mid-Ebb	Ex-WPCWA SW	Bottom	DO(mg/l)	4.62	4.71	4.63	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, there was no marine works undertaken at ex-WPCWA on 09 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D321	09-Oct-13	Mid-Ebb	Ex-WPCWA SE	Surface	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
				Bottom	DO(mg/l)	2.48	5.36	5.35	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, there was no marine works undertaken at ex-WPCWA on 09 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D322	09-Oct-13	Mid-Flood	Ex-WPCWA SW	Bottom	DO(mg/l)	3.07	4.71	4.63	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, there was no marine works undertaken at ex-WPCWA on 09 Octp 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D323	09-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.69	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, there was no marine works undertaken at ex-WPCWA on 09 Oct 2013.
									Remarks / Other Obs:	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 Leve	Limit Level	Follow-up action	
X_10D324	11-Oct-13	Mid-Ebb	C7	Middle	DO(mg/l)	3.79	3.87		Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were no marine activities conducted on 11 Oct 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily
									Remarks / Other Obs:	inspection. In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D325	11-Oct-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.69	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, there was no marine works undertaken at ex-WPCWA on 11 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D326	11-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	1.41	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, there was no marine works undertaken at ex-WPCWA on 11 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D327	15-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.65	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, there was no marine works undertaken at ex-WPCWA on 15 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D328	15-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.42	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, there was no marine works undertaken at ex-WPCWA on 15 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Ref no.	Dato	Tidal	Location	Donth	Parameters (Unit	Moscurod	Action Love	Limit Loval	Follow-up action	
	Date			Depth						B 31 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
X_10D329	17-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.80	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, there was no marine works undertaken at ex-WPCWA on 17 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D330	17-Oct-13	Mid-Ebb	C7	Middle	DO(mg/l)	3.74	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were no marine activities conducted on 17 Oct 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily
									Remarks / Other Obs:	inspection. In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D331	17-Oct-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.32	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, there was no marine works undertaken at ex-WPCWA on 17 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D332	17-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.28	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, there was no marine works undertaken at ex-WPCWA on 17 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D333	19-Oct-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.03	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, there was no marine works undertaken at ex-WPCWA on 19 Oct 2013.
									Remarks / Other Obs:	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 Leve	Limit Level	Follow-up action	
X_10D334				Middle	DO(mg/l)	3.11	4.26		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, there was no marine works undertaken at ex-WPCWA on 19 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D335	19-Oct-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.78	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, there was no marine works undertaken at ex-WPCWA on 19 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D336	19-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.65	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, there was no marine works undertaken at ex-WPCWA on 19 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D337	21-Oct-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.29	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, there was no marine works undertaken at ex-WPCWA on 21 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D338	21-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.59	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, there was no marine works undertaken at ex-WPCWA on 21 Oct 2013.
									Remarks / Other Obs:	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 Leve	Limit Level	Follow-up action	
X_10D339	23-Oct-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.10	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, there was no marine works undertaken at ex-WPCWA on 23 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D340	23-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	4.14	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, there was no marine works undertaken at ex-WPCWA on 23 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D341	24-Oct-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.80	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, there was no marine works undertaken at ex-WPCWA on 24 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D342	24-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	2.40	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, there was no marine works undertaken at ex-WPCWA on 24 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D343	26-Oct-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.94	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, there was no marine works undertaken at ex-WPCWA on 26 Oct 2013.
								_	Remarks / Other Obs:	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 Leve	Limit Level	Follow-up action	
X_10D344	26-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	2.09	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, there was no marine works undertaken at ex-WPCWA on 26 Oct 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Ref no.	Date	Tidal	Location	Parameters (Unit				Follow-up action	
X_W456	30-Sep-13	Mid-Flood	WSD21	DO(mg/L)	4.11	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	7.71	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 30 Sep 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				ss	21.00	16.26	19.74	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W457	30-Sep-13	Mid-Ebb	WSD17	DO(mg/L)	2.50	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	4.66	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 30 Sep 2013, no marine work was conducted on that day.
				ss	8.50	16.26	19.74	Remarks / Other Obs:	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_W458	30-Sep-13	Mid-Ebb	WSD21	DO(mg/L)	4.08	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.48	3 10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 30 Sep 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				ss	25.00	16.26	19.74	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W459	30-Sep-13	Mid-Ebb	WSD19	DO(mg/L)	4.47	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet seaso to dry season.
				Turbidity	10.97	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Review previous monitoring data.
				ss	5.00	16.26	19.74	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. In view that the monitoring location was located upstream and turbidity at monitoring stations downstream to the marine work site were we below the Action level, the exceedances was considered not project related
X_W460	02-Oct-13	Mid-Flood	WSD19	DO(mg/L)	6.57	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet seaso to dry season.
				Turbidity	8.26	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. Review previous monitoring data.
				SS	14.50	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. The exceedances was considered not project related.

Ref no.	Date	Tidal	Location	Parameters (Unit I	Measured A	Action Level	imit Level	Follow-up action	
X_W461	02-Oct-13	Mid-Ebb	WSD17	DO(mg/L)	2.10	3.66		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	7.17	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Review previous monitoring data.
				SS	7.00	13.00	14.43	Remarks / Other Obs:	No marine construction works was conducted during monitoring. In view that the no deterioation in water quality (DO) at other monitoring stations located nearest the marine work site, the exceedances was considered not project related
X_W462	02-Oct-13	Mid-Ebb	WSD19	DO(mg/L)	4.28	3.66	3.28	Possible reason:	Silt screen cleaning at WSD salt water intake by WSD.
				Turbidity	10.62	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Review previous monitoring data.
				ss	13.00	13.00	14.43	Remarks / Other Obs:	No marine construction works was conducted during monitoring. Silt screen cleaningconducted by WSD workers at the monitoring location by WSD and is considered to have contributed to the turbidity and SS exceedance. As such, the exceedances were considered as non-project related.
X_W463	04-Oct-13	Mid-Flood	WSD21	DO(mg/L)	2.84	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	4.09	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works and checking contractor silt screen record. Review previous monitoring data.
				ss	4.00	13.00	14.43	Remarks / Other Obs:	Checking with contractor's works on 4 Oct 2013 no marine work was conducted on that day. Checking with contractor's silt screen inspection record, the silt screen was in proper condition. Water diffuser installed at WQM monitoring station WSD21 by contractor was observed operating during water quality monitoring. No further exceedance was recorded in the next consecutive monitoring. In view that no marine work was conducted on that day, the exceedances was considered not project related
X_W464	04-Oct-13	Mid-Flood	WSD19	DO(mg/L)	6.63	3.66	3.28	Possible reason:	Silt screen cleaning at WSD salt water intake by WSD.
				Turbidity	23.68	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works and checking contractor silt screen record. Review previous monitoring data.
				SS	37.00	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Silt screen cleaning by WSD works was observed at earlier time on the sampling date and considered to have contributed to the turbidity and SS exceedance. As such, the exceedance was considered at non-Project related
X_W465	04-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	3.23	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	3.00	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works and checking contractor silt screen record. Review previous monitoring data.
				ss	3.00	13.00	14.43	Remarks / Other Obs:	No marine construction work was conducted on that day. Silt screen was confirmed in order. Water diffuser installed at WQM monitoring station WSD21 by contractor was observed operating. In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring.I, the exceedances was considered not project related.

Ref no.	Date		Location	Parameters (Unit	Measured	Action Leve		Follow-up action	
X_W466	04-Oct-13	Mid-Ebb	WSD19	DO(mg/L)	6.73	3.66	3.28	Possible reason:	Silt screen cleaning at WSD salt water intake by WSD.
				Turbidity	13.03	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 and checking contractor silt screen record. Review previous monitoring data.
				ss	19.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. In view that the water quality at monitoring stations located downstream the marine work site were well below the Action level. In addition, silt screen cleaning was conducted by WSD works during water quality monitoring and is considered to have contributed to the turbitity and SS exceedances. As such, the exceedances were considered as non project related.
X_W467	07-Oct-13	Mid-Flood	WSD9	DO (mg/L)	4.98	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	8.80	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. Review previous monitoring data.
				Suspended Solid	7.50	13.00	14.43	Remarks / Other Obs:	Since WSD9 was located at the upstream of the Project works area, the exceedance was considered not related to Proejct works.
X_W468	07-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	4.12	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.08	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 on 7 Oct 2013. Checking with contractor's inspection record.
				SS	12.50	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W469	09-Oct-13	Mid-Flood	WSD17	DO(mg/L)	5.26	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	11.96	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	7.50	13.00	14.43	Remarks / Other Obs:	No marine work was conductign during water quality monitoring. In view that monitoring station was locaed at the upstream of the project, 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_W470	09-Oct-13	Mid-Flood	WSD19	DO(mg/L)	4.88	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.85	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	10.50	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. The exceedances was considered not project related.
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Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_W471	09-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	3.64	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	7.76	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. As a purpose to increase the DO level contractor started installing water diffusers at WQM
				ss	7.00	13.00	14.43	Remarks / Other Obs:	monitoring station WSD21 and abandon SHK pumping station for improving the DO on 11, 16 October 2013. Water diffusers installed at WQM monitoring station WSD21 and abandon SHK pumping station by contractor was observed improving the water quality and the DO level since 16 October 2013. In view of the transition period from wet season to dry seaon and no marine work was conducted on that day. The exceedances was considered not project related.
X_W472	09-Oct-13	Mid-Ebb	WSD19	DO(mg/L)	5.23	3.66	3.28	Possible reason:	Silt screen cleaning at WSD salt water intake by WSD.
				Turbidity	11.20	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 and checking contractor silt screen record. Review previous monitoring data.
				SS	8.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. In view that the water quality at monitoring stations located downstream the marine work site were well below the Action level. In addition, silt screen cleaning was conducted by WSD works during water quality monitoring and is considered to have contributed to the turbidity exceedances. As such, the exceedances were considered as non project related.
X_W473	11-Oct-12	Mid-Flood	WSD9	DO (mg/L)	5.20	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.46	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works.
				Suspended Solid	9.50	13.00	14.43	Remarks / Other Obs:	No marine construction work was conducted on that day. Since WSD9 was located at the upstream of the Project, and in view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring. The exceedances was considered not project related.
X_W474	11-Oct-13	Mid-Flood	WSD19	DO(mg/L)	3.90	3.66	3.28	Possible reason:	Silt screen cleaning at WSD salt water intake by WSD.
				Turbidity	10.98	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 and checking contractor silt screen record. Review previous monitoring data.
				SS	8.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. In addition, silt screen cleaning was conducted by WSD works during water quality monitoring and is considered to have contributed to the turbitity exceedances. As such, the exceedances were considered as non project related.



Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_W475	11-Oct-13	Mid-Flood	WSD21	DO(mg/L)	4.13	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.97	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	9.50	13.00	14.43	Remarks / Other Obs:	No marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order. In view of the transition period from wet season to dry seaon, the exceedances was considered not project related.
X_W476	11-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	2.53	3.66	3.28	Possible reason:	Natural variation in relate to low in flow rate of water to monitoring location WSD21.
				Turbidity	1.79	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. Addiontal water diffuser system was installed at water quallity monitoring station WSD21 after Ebb tide on 11October 2013 and abandon SHK pumping station on 16 October 2013. Do level was observed improved to normal level during flood tide on 11 October 2013. No further exceedance was recorded in the next consecutive monitoring. It was considered as non-project related.
				SS	4.00	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day and the silt screen was confirmed in order. the exceedances was considered not project related.
X_W477	15-Oct-13	Mid-Flood	WSD17	DO(mg/L)	5.63	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet seasor to dry season.
				Turbidity	9.88	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 activities.
				ss	6.50	13.00	14.43	Remarks / Other Obs:	No marine work was conducting during water quality monitoring. In view that the water quality at monitoring stations located downstream the marine work site were well below the Action level and owning to the transition period from wet season to dry seaon. The exceedances was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
		Mid-Flood		DO(mg/L)	3.13			Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	5.87	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. Addiontal water diffuser system was installed at water quallity monitoring station WSD21 after Ebb tide on 110ctober 2013 and abandon SHK intake well on 16 October 2013. DO level was observed improved to normal level during flood tide on 11 October 2013. No further exceedance was recorded in the
									The new set water diffuser was noted suspended during water quality monitoring during both flood and ebb tide on 15 October 2013 and the diffuser was restored on 16 October 2013.
				SS	5.50	13.00	14.43	Remarks / Other Obs:	No marine construction work was conducted on that day. Silt screen was confirmed in order.
									No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W479	15-Oct-13	Mid-Flood	WSD19	DO(mg/L)	5.29	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	22.43	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. Review previous monitoring data.
				ss	11.00	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.



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Ref no. Date Location Parameters (Unit Measured Action Leve Limit Level Follow-up action

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X_W480	15-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	3.13	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	5.53	8.04		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. Addiontal water diffuser system was installed at water quallity monitoring station WSD21 after Ebb tide on 11 October 2013 and abandon SHK intake well on 16 October 2013. Do level was observed improved to normal level during flood tide on 11 October 2013. No further exceedance was recorded in the next consecutive monitoring. It was considered as non-proiect related. The new set water diffuser was noted suspended during water quality monitoring during both flood and ebb tide on 15 October 2013 and the diffuser was restored on 16 October 2013.
				ss	5.00	13.00	14.43	Remarks / Other Obs:	No marine construction work was conducted on that day. Silt screen was confirmed in order.
									No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W481	15-Oct-13	Mid-Ebb	WSD19	DO(mg/L)	4.66	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	12.88	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 and checking contractor silt screen record. Review previous monitoring data.
				ss	12.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. In view that the water quality at monitoring stations located downstream the marine work site were well below the Action level. As such, the exceedances were considerd as non project related.
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Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_W482	17-Oct-13	Mid-Flood	WSD21	DO(mg/L)	3.29	3.66	3.28	Possible reason:	Natural variation or low flowing of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	7.57	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	4.50	13.00	14.43	Remarks / Other Obs:	DO level was observed improved since 16 October 2013 after installation of water diffuser at monitoring station WSD21. Additional water diffsuer system was observed operating during monitoring.
									No marine construction work was conducted on that day. Silt screen was confirmed in order. Water diffuser installed at WQM monitoring station WSD21 by contractor was observed operating.
									In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring. The exceedances was considered not project related.
X_W483	17-Oct-13	Mid-Flood	WSD19	DO(mg/L)	5.32	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	10.98	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works
				ss	7.50	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. The exceedances was considered not project related.
X_W484	17-Oct-13	Mid-Ebb	WSD19	DO(mg/L)	4.05	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	13.93	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Review previous monitoring data.
				SS	12.50	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. In view that the monitoring location was located upstream and turbidity at monitoring stations downstream to the marine work site were well below the Action level, the exceedances was considered not project related.



Ref no. Date Parameters (Unit Measured Action Leve Limit Level Follow-up action X W485 19-Oct-13 Mid-Flood WSD19 DO(mg/L) 5.39 3.66 3.28 Possible reason: Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet seaso to dry season. Turbidity 8.51 8.04 9.49 Action taken / to be Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. . taken: Dredging works was conducted by Contractor HK/2012/08 during 8.00 13.00 14.43 Remarks / Other Obs: SS monitoring. Mitigation meaures including framed silt curtain was confirmed in place.In view of the transition period from wet season to dry seaon.The exceedances was considered not project related. X_W486 19-Oct-13 Mid-Ebb WSD21 DO(mg/L) 3.66 3.28 Possible reason: Natural variation in the vicinity of the water quality monitoring station 3.61 WSD21. Transition of action and limit level from wet season to dry season. 8.04 9.49 Action taken / to be Immediate repeated in-situ measurements had conducted to confirm the Turbidity 5.53 exceedances. Checking with contractor's works. Checking with contractor's inspection record. 12.50 13.00 14.43 Remarks / Other Obs: DO level was observed improved since 16 October 2013 after installation of water diffuser at monitoring station WSD21 and the abandon SHK pumping station. Additional water diffsuer system was observed operating during No marine construction work was conducted on that day. Silt screen was confirmed in order. Water diffsuer at WQM monitoring station WSD21was observed operating. In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring. The exceedances was considered not project related. 3.28 Possible reason: X W487 19-Oct-13 Mid-Ebb WSD19 DO(mg/L) 4.08 3.66 Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season. Turbidity 9.5 8.04 9.49 Action taken / to be Immediate repeated in-situ measurements had conducted to confirm the taken: exceedances. Checking with contractor's works. Review previous monitoring 14.43 Remarks / Other Obs: SS 7.50 13.00 Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. In view of the transition period from wet season to dry seasonand the monitoring location was located upstream to Project works. The exceedances was considered not project related.

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Unit				Follow-up action	
X_W488	21-Oct-13	Mid-Flood	WSD17	DO(mg/L)	5.58	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	8.47	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	12.50	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located downstream the marine work site were well below the Action level and it is under transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring. The exceedances was considered not project related.
X_W489	21-Oct-13	Mid-Flood	WSD21	DO(mg/L)	3.63	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21. Transition of action and limit level from wet season to dry season.
				Turbidity	5.60	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	7.00	13.00	14.43	Remarks / Other Obs:	DO level was observed improved since 16 October 2013 after installation of water diffuser at monitoring station WSD21. Additional water diffsuer system was observed operating during monitoring.
									No marine construction work was conducted on that day. Silt screen was confirmed in order. Water diffuser installed at WQM monitoring station WSD21 by contractor was observed operating.
									In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.
X_W490	21-Oct-12	Mid-Ebb	WSD9	DO (mg/L)	4.91	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet seasor to dry season.
				Turbidity	8.14	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's no marine works was conducted 21 Oct 2013.
				Suspended Solid	12.50	13.00	14.43	Remarks / Other Obs:	In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring and since WSD9 was located at the upstream of the Project, The exceedances was considered not project related.
X_W491	21-Oct-13	Mid-Ebb	WSD17	DO(mg/L) Turbidity	5.68 10.00	3.66 8.04		Possible reason: Action taken / to be	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season. Immediate repeated in-situ measurements had conducted to confirm the
				1				taken:	exceedances. Checking with contractor's works.
				ss	10.50	13.00	14.43	Remarks / Other Obs:	No marine work was conducting during water quality monitoring. In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring and the water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related.

								Summary for Notification of Exceedance							
Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action							
	21-Oct-13		WSD19	DO(mg/L)	3.87	3.66		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.						
				Turbidity	13.80	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. Review previous monitoring data.						
				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. In view that the monitoring location was located upstream and turbidity at monitoring stations downstream to the marine work site were well below the Action level, the exceedances was considered not project related.						
X_W493	23-Oct-13	Mid-Flood	WSD21	DO(mg/L)	3.89	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station						
				Turbidity	8.76	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	23.00	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that no marine work was conducted on that day and the silt screen was confirmed in order, the exceedances was considered not project related.						
X_W494	23-Oct-13	Mid-Flood	WSD19	DO(mg/L)	4.95	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.						
				Turbidity	7.70	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	15.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures for marine works including framed silt curtain was confirmed in place. In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.						
X_W495	24-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	3.66	3.66	3.28	Possible reason:	Natural variation in the vicinity of the water quality monitoring station WSD21. Transition of action and limit level from wet season to dry season.						
				Turbidity	2.87	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	11.00	13.00	14.43	Remarks / Other Obs:	DO level was observed improved since 16 October 2013 after installation of water diffuser at monitoring station WSD21 and the abandoned SHK intake well. Additional water diffuser system was observed operating during monitoring.						
									No marine construction work was conducted on that day. Silt screen was confirmed in order. Water diffsuer at WQM monitoring station WSD21was observed operating. In view of the transition period from wet season to dry seaon and no further						
									exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.						
X_W496	26-Oct-13	Mid-Flood	WSD21	DO(mg/L)	3.46	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21. Transition of action and limit level from wet season to dry season.						
				Turbidity	2.87	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	3.50	13.00	14.43	Remarks / Other Obs:	DO level was observed improved since 16 October 2013 after installation of water diffuser at monitoring station WSD21and the abandoned SHK intake well. Additional water diffuser system was observed operating during monitoring. No marine construction work was conducted on that day. Silt screen was confirmed in order. Water diffsuer at WQM monitoring station WSD21 by contractor was observed operating.						
									In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring. The exceedances was considered not project related.						

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_W497	26-Oct-13	Mid-Flood	WSD19	DO(mg/L)	5.70	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	8.36	8.04		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. In view of the transition period from wet season to dry seaon, the exceedances was considered not project related.

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_W498	26-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	3.56	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21. Transition of action and limit level from wet season to dry season.
				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. Checking with contractor's inspection record.
				ss	2.00	13.00	14.43	Remarks / Other Obs:	DO level was observed improved since 16 October 2013 after installation of water diffuser at monitoring station WSD21 and at the abandoned SHK intake well. Additional water diffuser system was observed operating during monitoring. No marine construction work was conducted on that day. Silt screen was confirmed in order. Water diffuser installed at WQM monitoring station WSD21 by contractor was observed operating. In view of the transition period from wet season to dry seaon amd no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10C582	30-Sep-13	Mid-flood	C7	DO(mg/L)	2.46	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring
				Turbidity	5.34	11.35	12.71	Action taken / to be taken:	station Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 30 September 2013. Checking with contractor's inspection record.
				SS	6.50	18.42	27.54	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that no marine work was conducting in the vincity of the monitoring location during water quality monitoring, the silt screen were in proper condition, the exceedance was considered not project related.
X_10C583	30-Sep-13	Mid-ebb	C7	DO(mg/L)	2.56	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.45	11.35		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 30 September 2013. Checking with contractor's inspection record.
				SS	2.50	18.42	27.54	Remarks / Other Obs:	In view that no marine work was conducting in the vincity of the monitoring location during water quality monitoring, the silt screen were in proper condition, the exceedance was considered not project related.
X_10C584	2-Oct-13	Mid-flood	C7	DO(mg/L)	3.32	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	4.39	9.10		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 02 October 2013. Checking with contractor's inspection record.
				SS	4.50	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt screen were in proper condition, the exceedance was considered not project related.
X_10C585	4-Oct-13	Mid-flood	RW21-P789	DO(mg/L)	6.07	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	10.83	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 on 04 October 2013. Checking with contractor's inspection record.
				SS	8.00	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt screen was in proper condition, the exceedance was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10C586	4-Oct-13	Mid-ebb	RW21-P789	DO(mg/L)	6.90	3.36		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	11.04	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 on 04 October 2013. Checking with contractor's inspection record.
				SS	7.50	15.00		Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring. In view that the transition period from wet season to dry seaon and the silt curtain were in proper condition, the exceedance was considered not project related.
X_10C587	4-Oct-13	Mid-ebb	C7	DO(mg/L)	4.23	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.99	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 on 04 October 2013. Checking with contractor's inspection record.
				SS	5.50	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry season and the silt screen was in proper condition, the exceedance was considered not project related.
X_10C588	7-Oct-13	Mid-Ebb	C1	DO(mg/L)	4.06	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.10	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works on 07 October 2013. Checking with contractor's inspection record.
				SS	10.00	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt curtain were in proper condition, the exceedance was considered not project related.
X_10C589	9-Oct-13	Mid-flood	RW21-P789	DO(mg/L)	4.99	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	10.97	9.10		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 09 October 2013. Checking with contractor's inspection record.
				SS	7.00	15.00	22.13	Remarks / Other Obs:	Filling work was conducting in the vincity of the monitoring location at TWCR4 during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt curtainwere in proper condition, the exceedance was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10C590	11-Oct-13	Mid-flood	RW21-P789	DO(mg/L)	5.23	3.36		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.66	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 on 11 October 2013. Checking with contractor's inspection record.
				SS	5.00	15.00	22.13	Remarks / Other Obs:	Filling work was conducting in the vincity of the monitoring location at TWCR4 during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt curtainwere in proper condition, the exceedance was considered not project related.
X_10C591	15-Oct-13	Mid-flood	P5	DO(mg/L)	4.20	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.58	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works on 15 October 2013. Checking with contractor's inspection record.
				SS	12.50	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt screen and silt curtainwere in proper condition, the exceedance was considered not project related.
X_10C592	15-Oct-13	Mid-flood	RW21-P789	DO(mg/L)	4.08	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	11.92	9.10		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 15 October 2013. Checking with contractor's inspection record.
				SS	10.50	15.00	22.13	Remarks / Other Obs:	Filling work was conducting in the vincity of the monitoring location at TWCR4 during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt curtainwere in proper condition, the exceedance was considered not project related.
X_10C593	15-Oct-13	Mid-ebb	RW21-P789	DO(mg/L)	4.01	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.67	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 on 11 October 2013. Checking with contractor's inspection record.
				ss	3.00	15.00	22.13	Remarks / Other Obs:	Filling work was conducting in the vincity of the monitoring location at TWCR4 during water quality monitoring, In view that the transition period from wet season to dry seaon and the silt curtainwere in proper condition, the exceedance was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit) Mea	asured	Action Level	Limit Level	Follow-up action	
X_10C594	19-Oct-13	Mid-flood	C1	DO(mg/L)	4.30	3.36		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	9.86	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works on 19 October 2013. Checking with contractor's inspection record.
				ss	9.00	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt curtain were in proper condition, the exceedance was considered not project related.
X_10C595	24-Oct-13	Mid-Ebb	C1	DO(mg/L)	2.92	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	2.90	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works on 24 October 2013. Checking with contractor's inspection record.
				ss	11.00	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, In view that the transition period from wet season to dry seaon and the silt curtain were in proper condition, the exceedance was considered not project related.
X_10C596	26-Oct-13	Mid-Ebb	C1	DO(mg/L)	3.22	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station. Transition of action and limit level from wet season to dry season.
				Turbidity	3.18	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works on 26 October 2013. Checking with contractor's inspection record.
				SS	2.50	15.00	22.13	Remarks / Other Obs:	No marine work was conducting in the vincity of the monitoring location during water quality monitoring, No further exceedance was recorded in the next consecutive monitoring. In view that the transition period from wet season to dry seaon and the silt curtain were in proper condition, the exceedance 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	utcome	s	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).	A valid Construction Noise Permit was granted from EPD since 18 th dredging works which carry out at Reclamation.	Feb. 2010 for the	Closed
					Officer from Marine Department, Pol attended the scene for inspection and		
					The Contractor (CHEC-CRBC JV) s conditions in CNP and take all mi order to minimize the potential im sensitive receivers. A formal letter CHEC-CRBC JV and to explain the construction activities.	tigation measures in pacts to surrounding was issued out by	
					No limit level exceedance was rec measurement during day time and measurement on 23 March 2010. Ac noise monitoring at Causeway Bay Garden was conducted on 5 April 2 No limit level exceedance was record	evening time noise Iditional restrict hours Community and City 010 (Public Holiday).	
					No further complaints were received reporting month. The complaint is cor		
100321b	21/3/2010	Unknown	breakwater of the	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	A valid Construction Noise Permit r was granted from EPD since 18 th dredging works at area for North Poir general holidays including Sunday hours and any day not being a gen 1900-2300hours. It is complied with the	Feb. 2010 for the nt Reclamation during between 0700-2300 eral holiday between	Closed
				2010(Monday).	Officer from Marine Department, Pol attended the scene for inspection and		
					No limit level exceedance was rec measurement during day time and measurement on 23 March 2010. Ac noise monitoring at Causeway Bay Garden was conducted on 5 April 2 No limit level exceedance was record	evening time noise Iditional restrict hours Community and City 010 (Public Holiday).	
					No further complaints were receive month. The complaint is considered complaint is considered complaint.		



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the	,	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.	Closed
		233384048)		hours 1900 to 0800 and request to reduce the noise level.		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.	
100731	31/7/2010	Mr. Lee received by ICC (CC Case:		Complaint on the noise nuisance due to the dredging works.	'	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed
		1-250702681)		Three construction plants were operated concurrently.	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.	
						It is considered as invalid from the EP and CNP point of view. $ \\$	
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		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.	Closed
				works area adjacent to the Harbour Height during the period from 0700 to 2200.		No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.	
				;		It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	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.	Closed
				Station fer flo.: W3D13)	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.	
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	'	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.	Closed
					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.	
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	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.	Closed
		Department			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.	
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 spotlight 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.	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;	
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.	 The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. 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. It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. 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 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	Out	tcome	Status
110419	19/04/2011	Victoria Centre at Victoria Centre by	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.	Closed
		ICC (ICC# 1- 272874759)		minutes per night.	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.	
110617	9/06/2011	Mr. Law from Victoria Centre Management	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson	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.	Closed
		Office Road in part of the site area warelated to CWB under Contraction. HY/2009/11	related to CWB under Contract	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.		



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	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, nylonwire 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.	2)	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 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. 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.	Closed
					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.	
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	ICC (ICC no. 1-	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.	.,	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.	Closed
					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	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Victoria Centre by ICC no. 1- 303887687 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	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 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. As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be			
	holiday.	4)	started at 8am and is expected to be completed by mid-August 2011. 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.	Closed			
					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.	
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was conducted at Causeway Bay	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959		Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	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	
			to the vicin	to the vicinity of the residents in early morning	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.	Closed
		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.				
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) 2) 3)	It was referred by AECOM to ET on 28 July 2011 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. 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	Out	come	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	North Point	Noise nuisance from the		It was referred by AECOM to ET on 28 July 2011	
		to the Victoria Centre was conducted from 7am	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.	
	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.	Closed		
			5)	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.			
					Rer	marks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC	North Point	Muddy water was discharged		It was referred by AECOM to ET on 17 August 2011.	Closed
	no. 1 — 306740207	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.	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. Contractors were advised to relocate the loose materials		



26/08/2011	Grand Hvatt				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	
26/08/2011	Grand Hyatt				appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
	and a complainant by ICC	complainant by	nuisance generated from the works at Convention Avenue and inside the HKCFC1	1)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the	
		3)	dominant construction noise source during this period. 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.	Closed		
				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.			
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.	Closed
	26/08/2011	26/08/2011 A complaint letter from Mr. Au of Cayley Property of City	26/08/2011 A complaint letter from Mr. Au of Cayley Property of City	reclamation area. 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	reclamation area. 2) 3) 4) 26/08/2011 A complaint letter from Mr. Au of Cayley Property of City Garden Reclamation area. 1) 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	reclamation area. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	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. 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.	 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. 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	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 so was also raised out by RSS at about 7:00a. same day. Besides, it was confirmed that there Construction Noise Permit for the conducted coworks in the period between 2300 and 0700.	m on the is no valid
					3) Due to insufficient communication between Cont HK/2009/01 and their Korean Sub-contractor, Ko Sub-contractor had not notified to Contractor bet carrying out the inspection of the BC cutter, hois bentonite pipes at about 6:00a.m to ensure no d and all the pipe joints should be tightened and in position.	orean fore ts and amages
					4) Contractor was advised to enhance the communibetween Contractor and sub-contractor and provisufficient environmental training to all foreman a operators on restricted hour operation. Futhermo Construction Noise Permit should be checked at place for the construction works during restricted.	vide nd ore, nd in
					5) This complaint was considered in relation to the conducted construction works during restricted h without valid Construction Noise Permit. No mor construction works were conducted during night period. The construction works will be conducted accordance with the time period stated in valid C complaint will be kept in view of any follow-up ac the relevant government activities.	e time d in CNP. This
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.	ET confirmed with the Resident Site Staff that works were performed during the concerned per	iod. (M2b and time period spection for D12. The CBTS was lings were najor works
					 excavations. HyD made a reply to the complainant on 16 Apr 1823. HyD replied that the current works at C drilling, diaphragm wall construction a excavations. In order to minimize the noise 	CBTS were nd deep



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.	RSS notified ET on 8 March 2013 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.	Closed

Appendix 10.1

Construction Programme of Individual Contracts

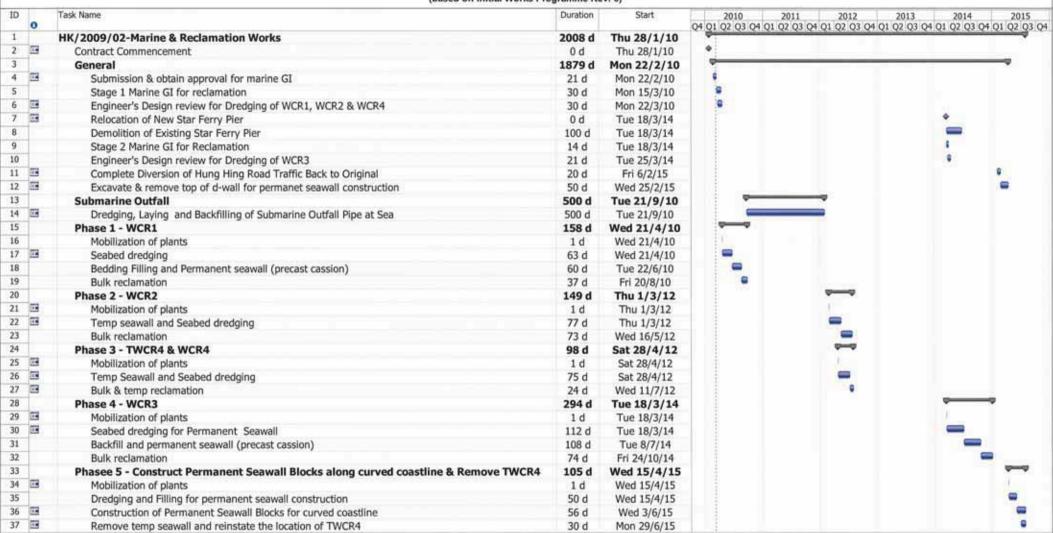
Contract No. HK/2009/01

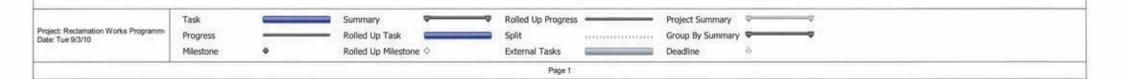
Contract Title: Wan Chai Development Phase II - Central - Wan Chai Bypass at HKCEC

Working Programme for Marine Works (Dredging and Backfilling)

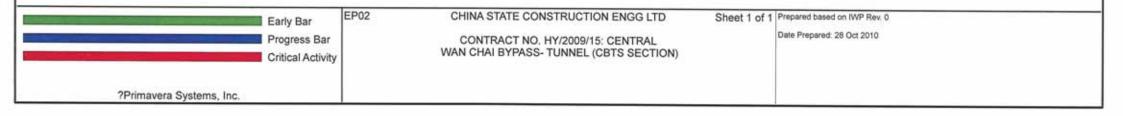
ACTIVITY	START	FINISH	2010	2011	2012	2013
ACTIVITI	SIAKI	FIMSH	Feb Mar Apr Mar Jun Jul Aur Sep Oct No De	Jan Feb MarApaMa Jun Jul Au Sep Oct No De	Jan Feb Ma ApaMa Jun Jul Au Sep Oct No De	Jan Feb Mai AprMai Jun Jul Aus Sep Oct No Dec
Submissions before Works Commencement						
Submit silt curtain deployment 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		200		
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				

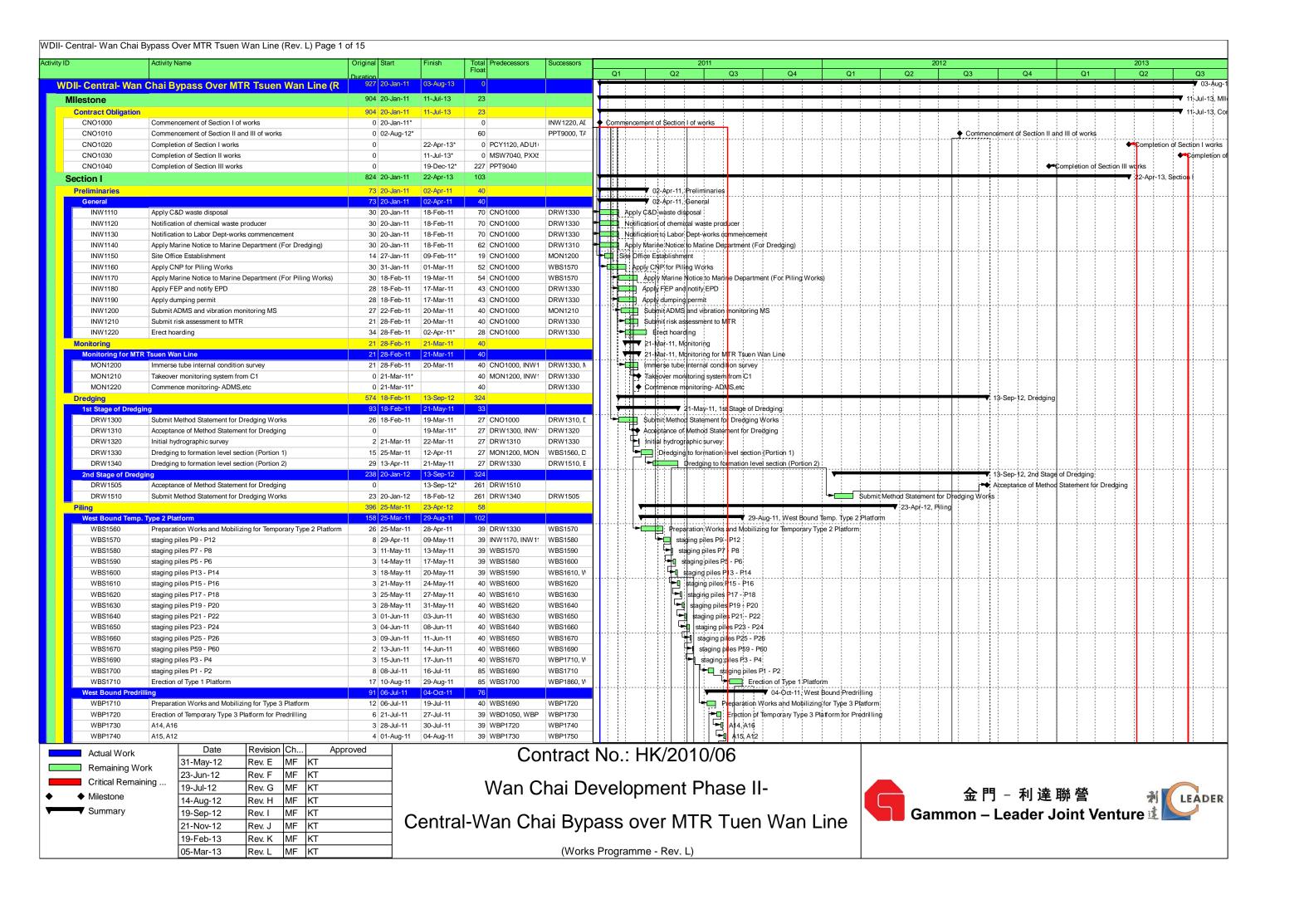
Dredging & Reclamation Works Programme Summary (based on Initial Works Programme Rev. 0)

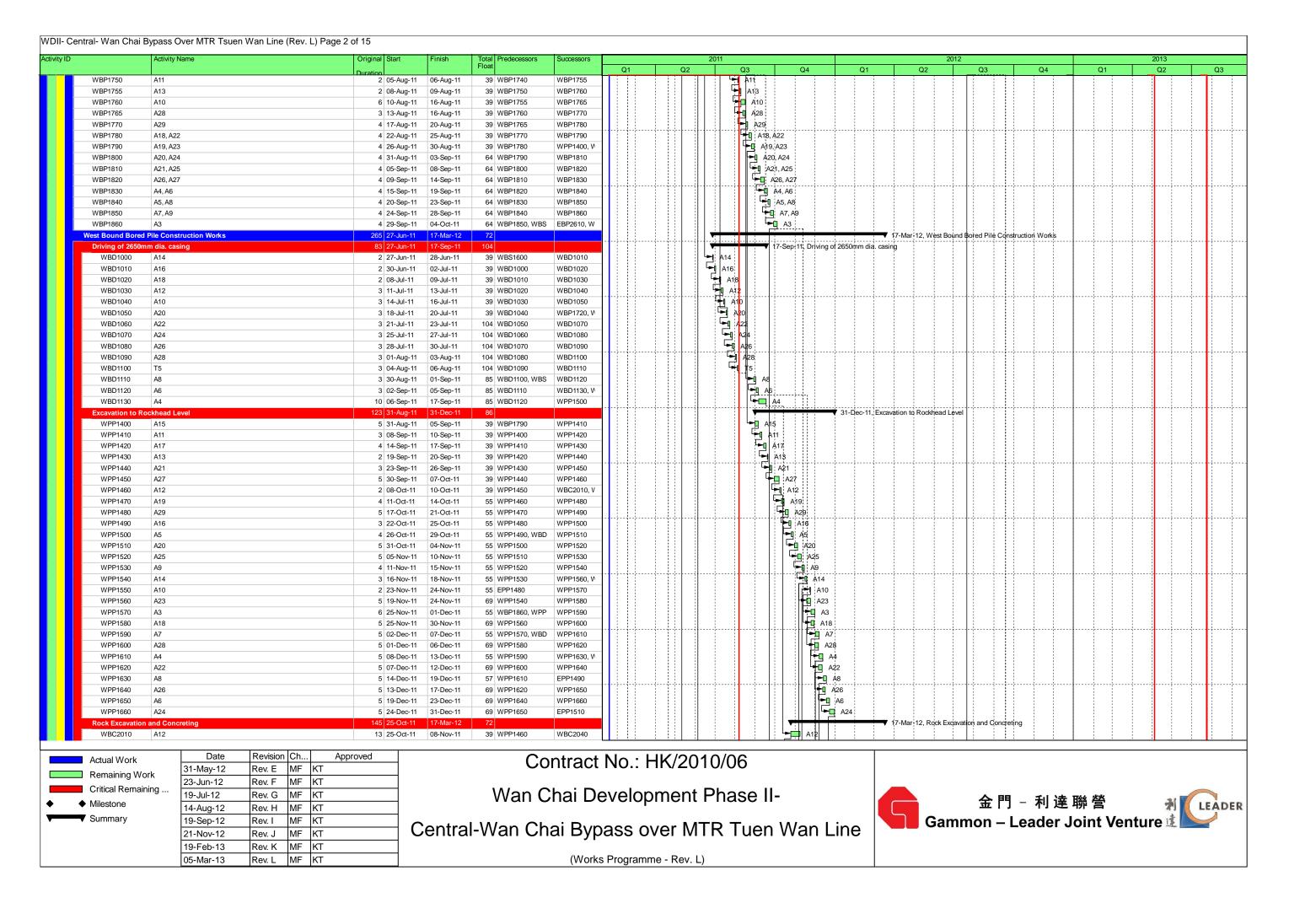


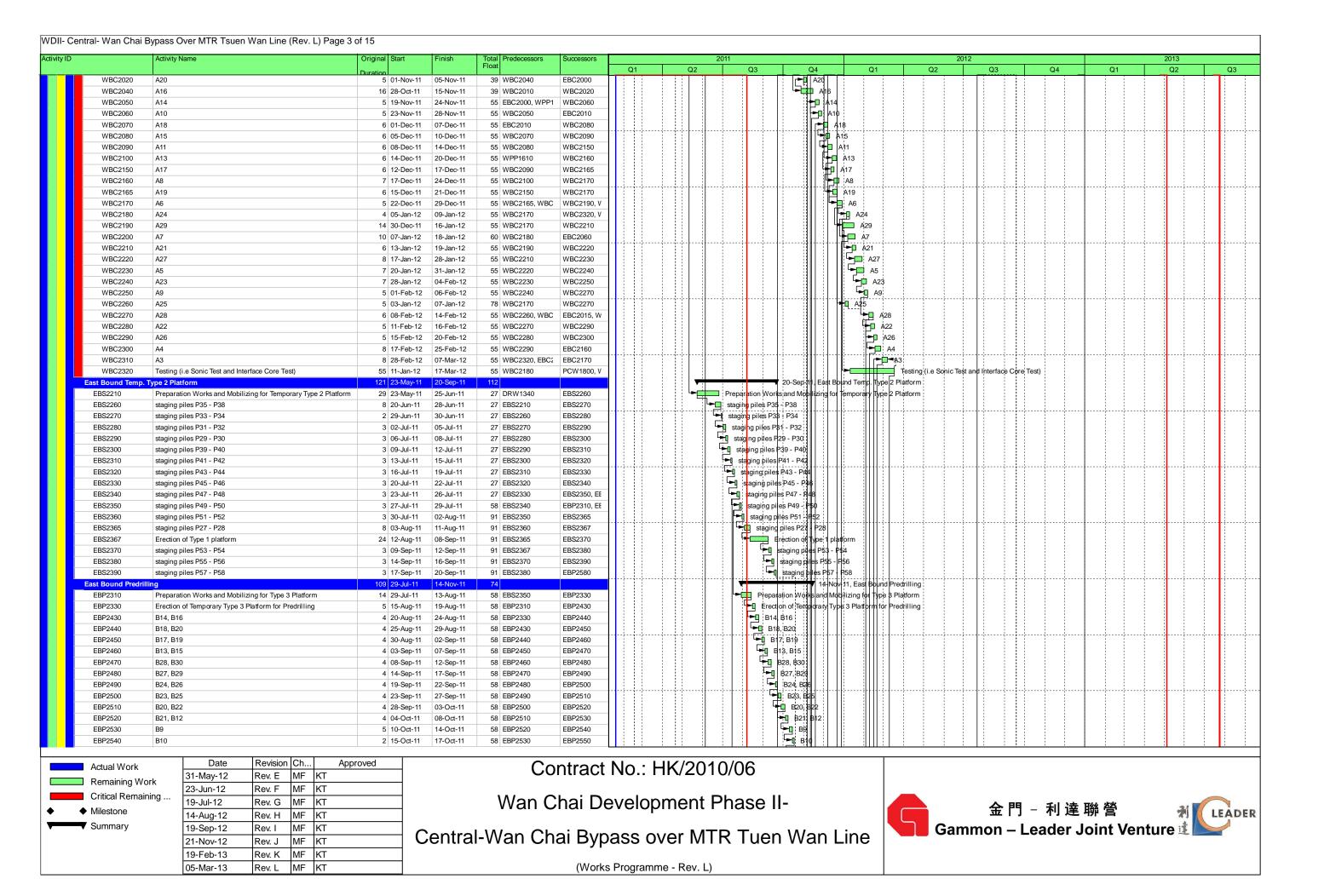


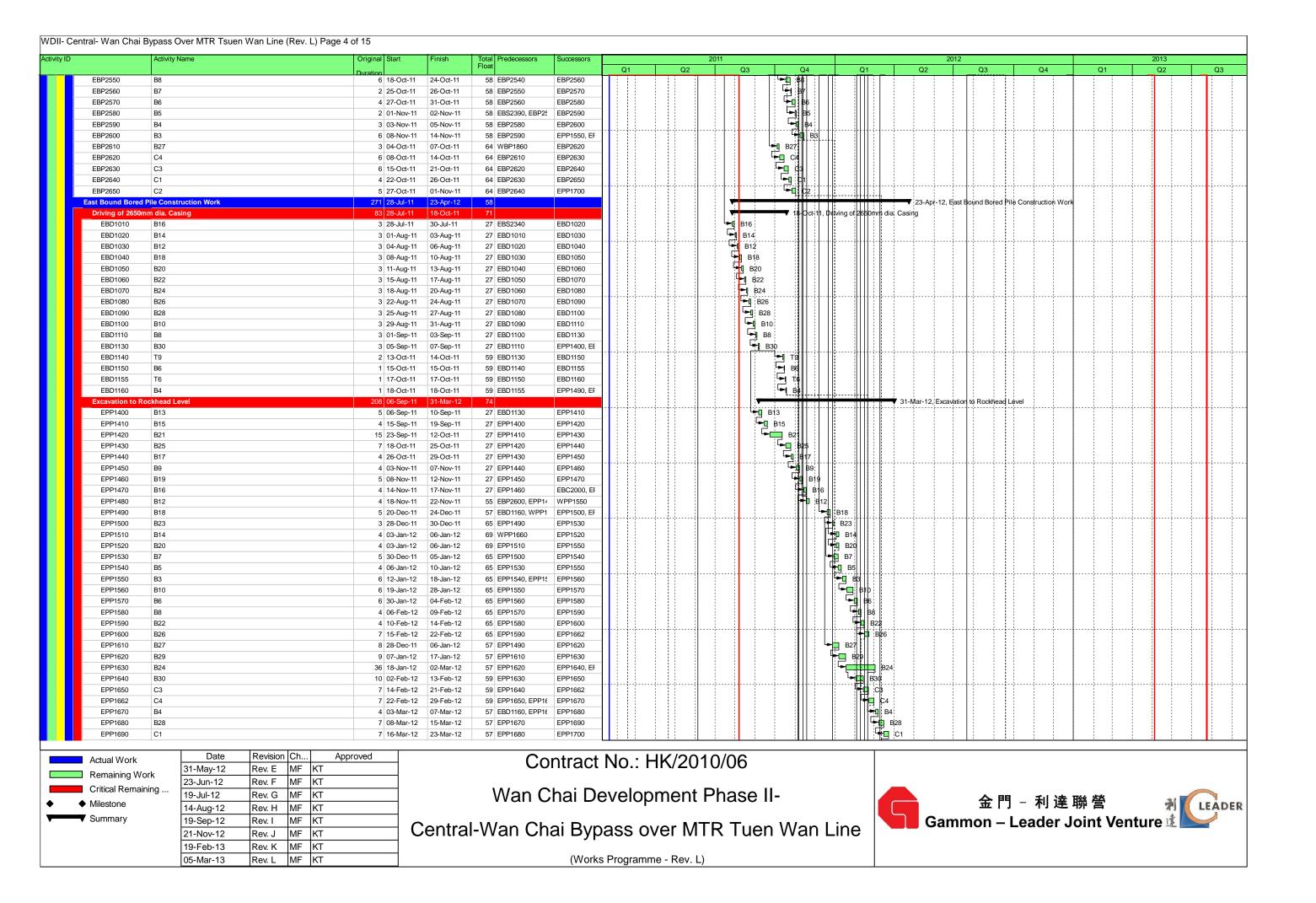
Activity ID	Cal	Activity Description	Orig	Early Start	Early Finish	2010 2011	2012	2013	2014	2015	2016	2017
CBR1E (T	S1 Area		501	Ottare	Timon							
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	86	03DEC10*	26FEB11	TCBR1E(TS	1)-dredging+rock	dill(prep. for se	awali)			
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11		TS1)-temporary r	All the second s				
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12				emporary reclama	ation		
CBR4					**		, ,	,	inportary resident			
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10	Maintenance dr	edging for naviga	tion safety for	relocation of RHK	YC mooring at	Area B	
CBR2 + TO	CBR3 (TS2 Area)								y a mooning at		
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10	TCBR2&TCBR3	TS2)- Maintenand	ce dredging for	navigation safety	at Area A for r	elocation of com	mercial ve
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12				+rockfill seabed			
120	1	TCBR2&TCBR3(TS2)temporary reclamation	115	26FEB12*	19JUN12				temporary reclam			
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	13OCT13				BR2&TCBR3(TS		orary reclamatio	n
CBR1W (T	S4 Are	a)									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CO.
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11	■TCBR1W(TS4	l)-dredging+rock	fill(prep. for sea	wall)			
130	1	TCBR1W(TS4)temporary reclamation	68	28JAN11	05APR11	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	TS4)temporary					
165	1	TCBR1W(TS4)removal temporary reclamation	26	27OCT13*	21NOV13			101	CBR1W(TS4)re	moval tempora	ry reclamation	
PCWAE									1	*	•	
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55 (03DEC10*	26JAN11	TPCWAE-dre	dging+rockfill(pre	ep. for seawall)				
140	1	TPCWAEtemporary reclamation	77	27JAN11	13APR11	TPCWAE	-temporary recla	mation				
170	1	TPCWAEremoval temporary reclamation	28	28SEP13*	25OCT13			ETT	PCWAEremoval	temporary recla	amation	
PCWAW					***							
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	28OCT13*	13DEC13				TPCWAW-dredgin	ng+rockfill(prep	o. for seawall)	
150	1	TPCWAWtemporary reclamation	83	14DEC13	06MAR14				TPCWAWte			
175	1	TPCWAWremoval temporary reclamation	50 (02JUL15*	20AUG15		TP		I temporary recla			

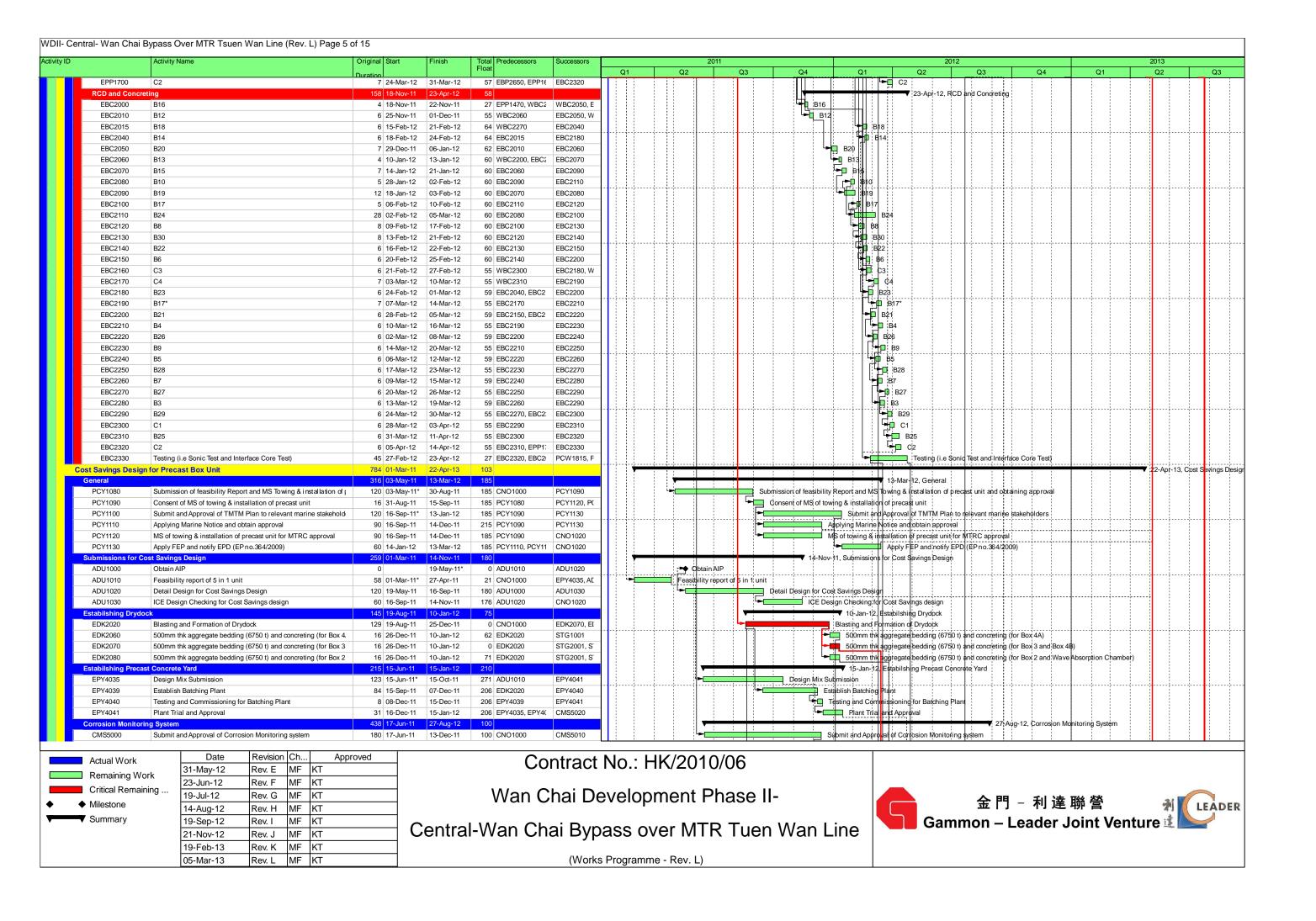


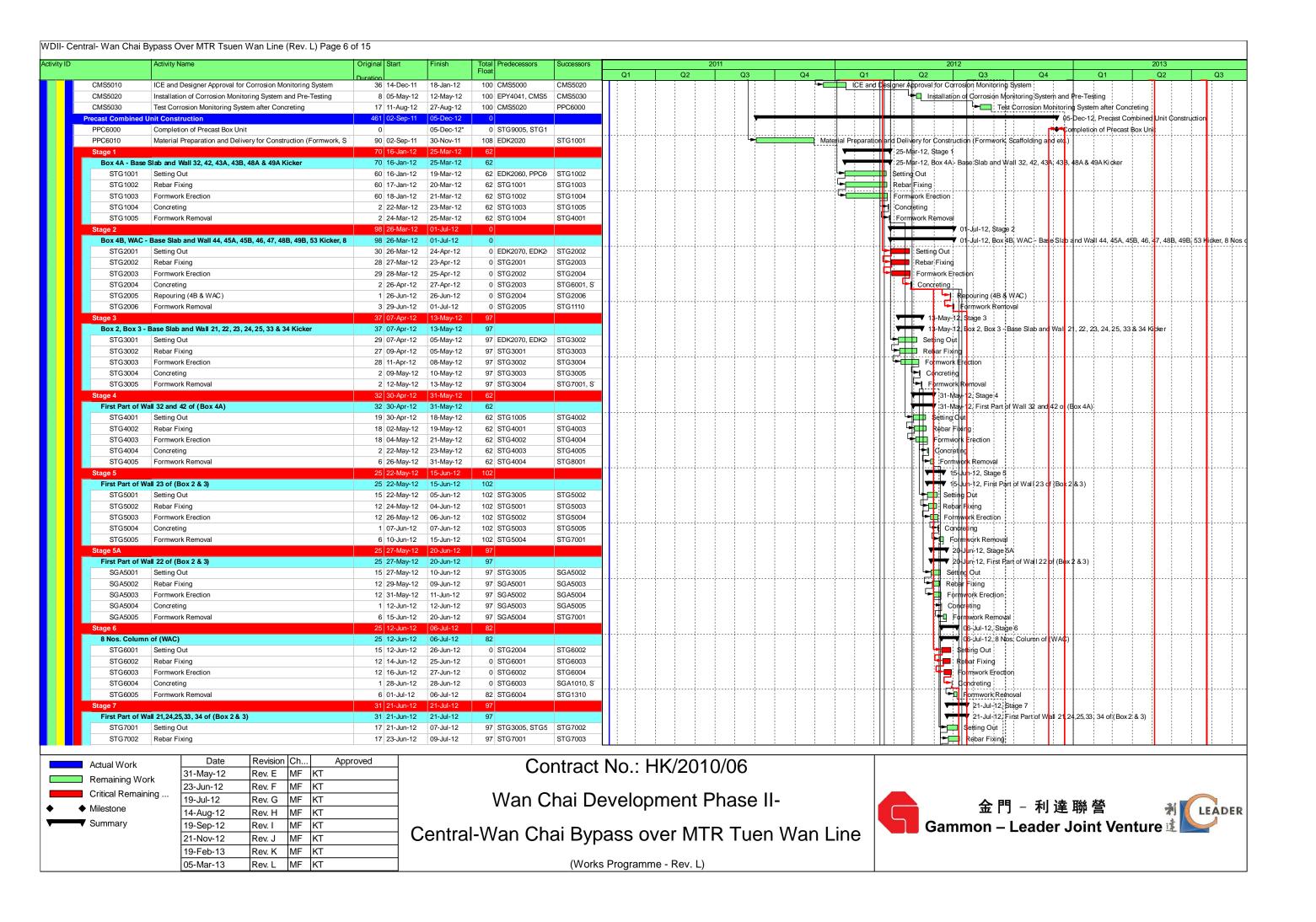


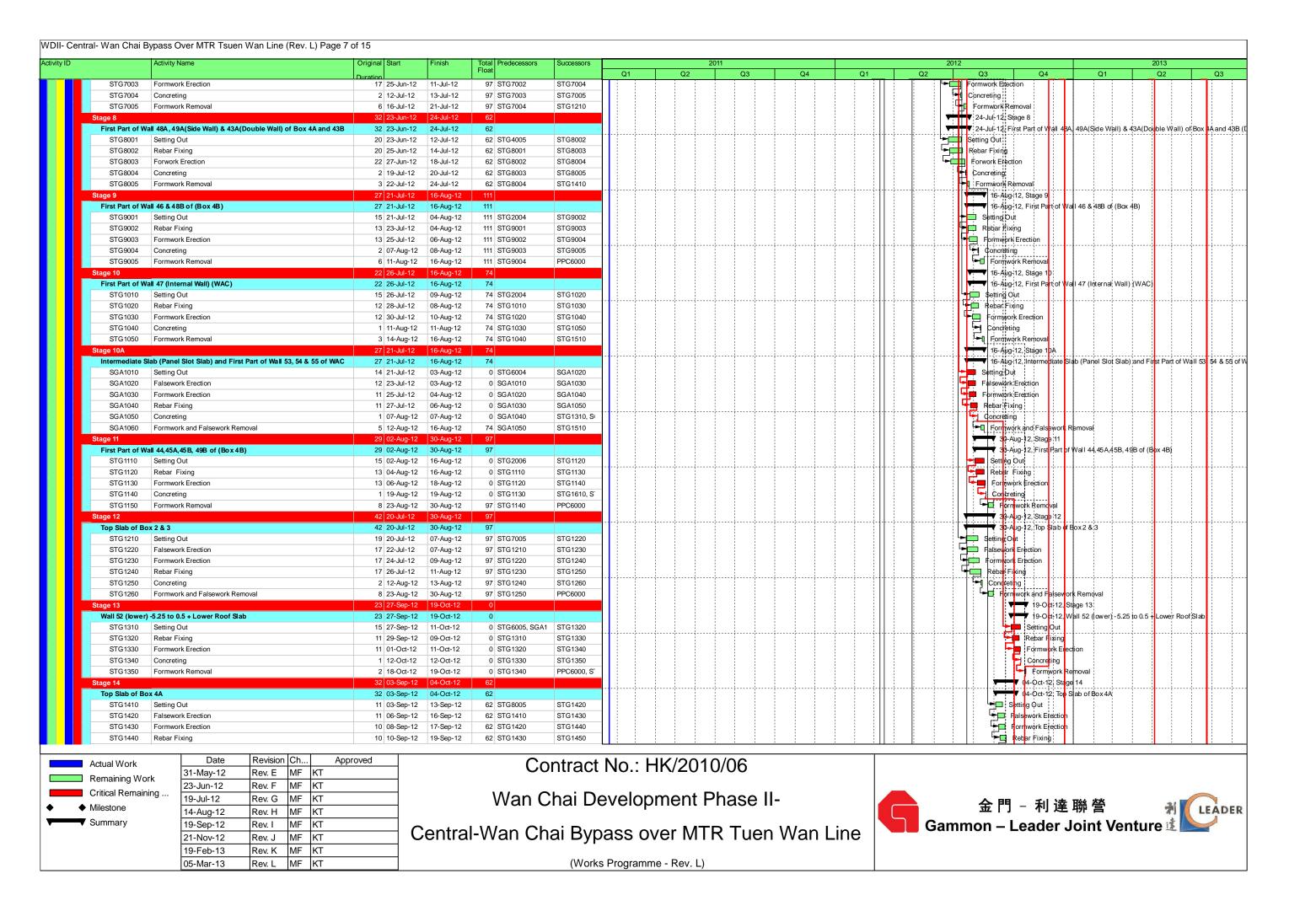


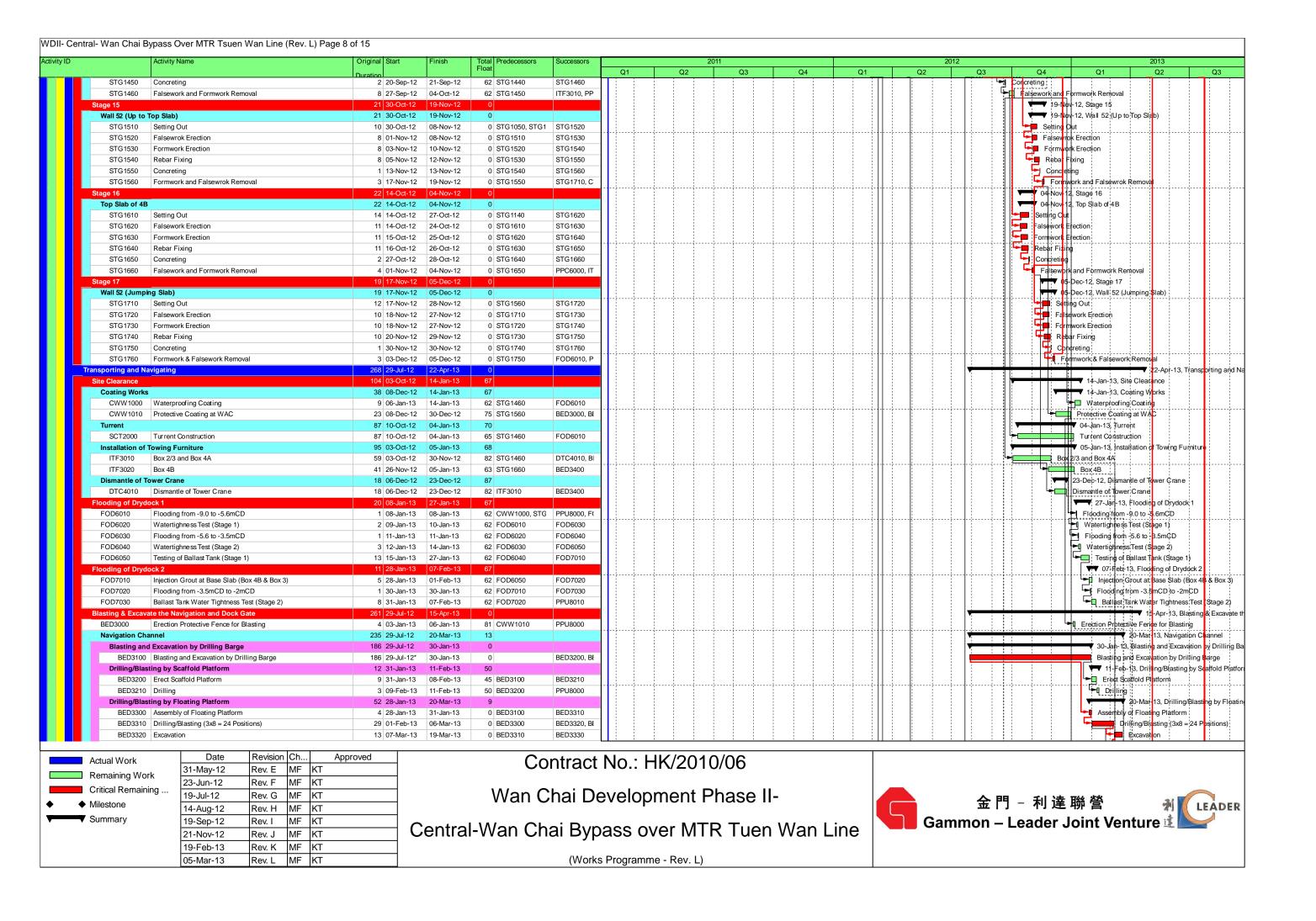


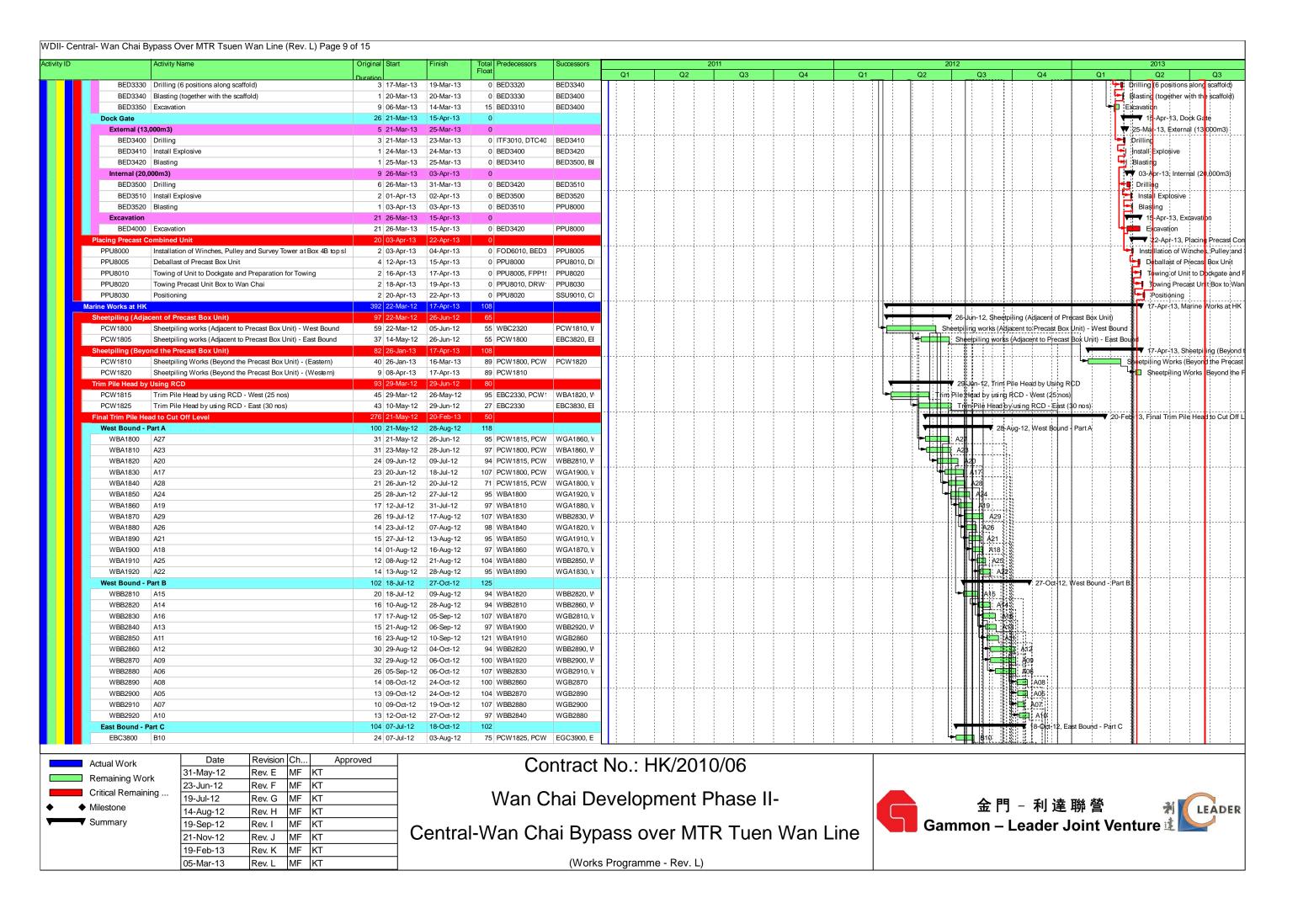


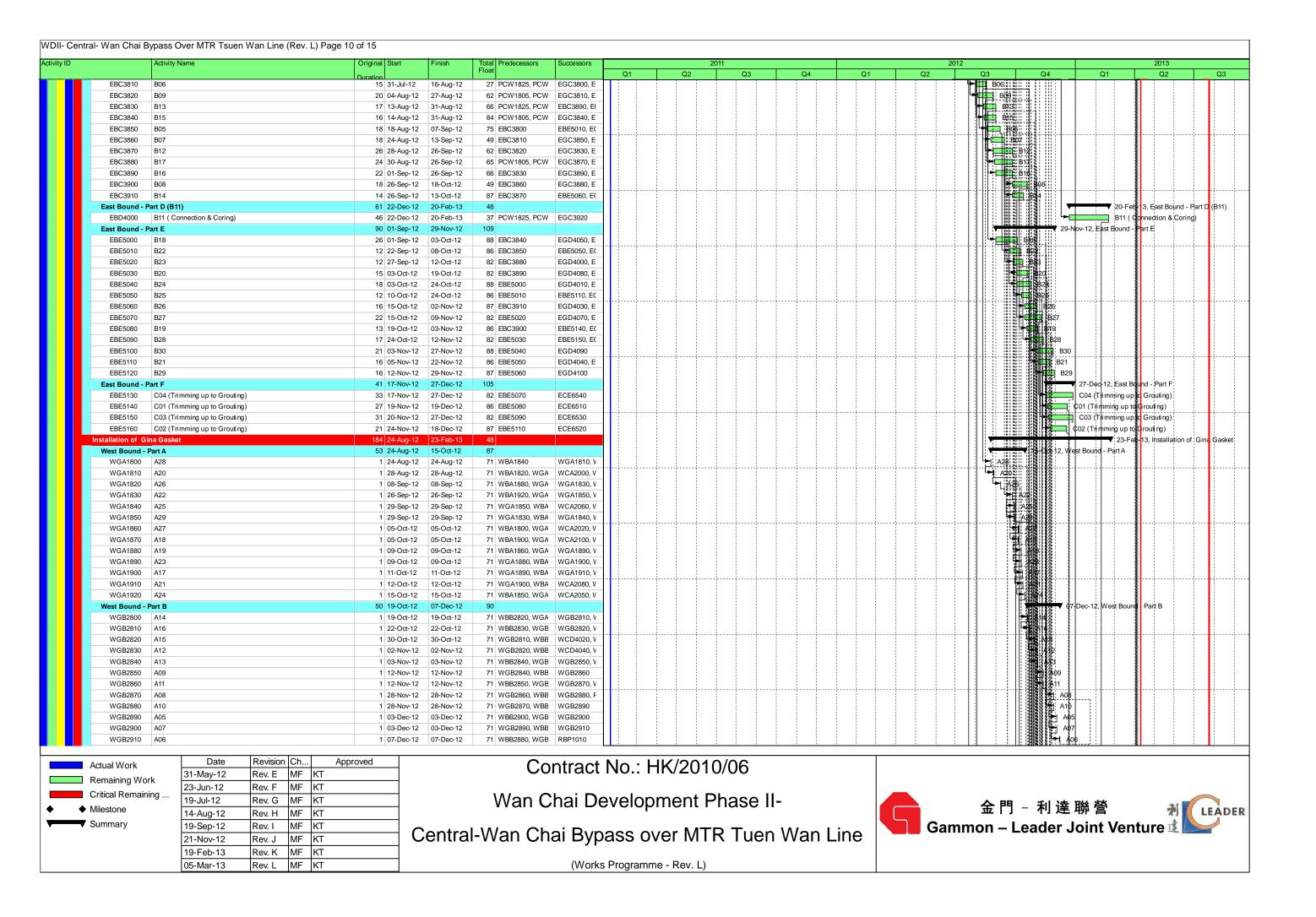


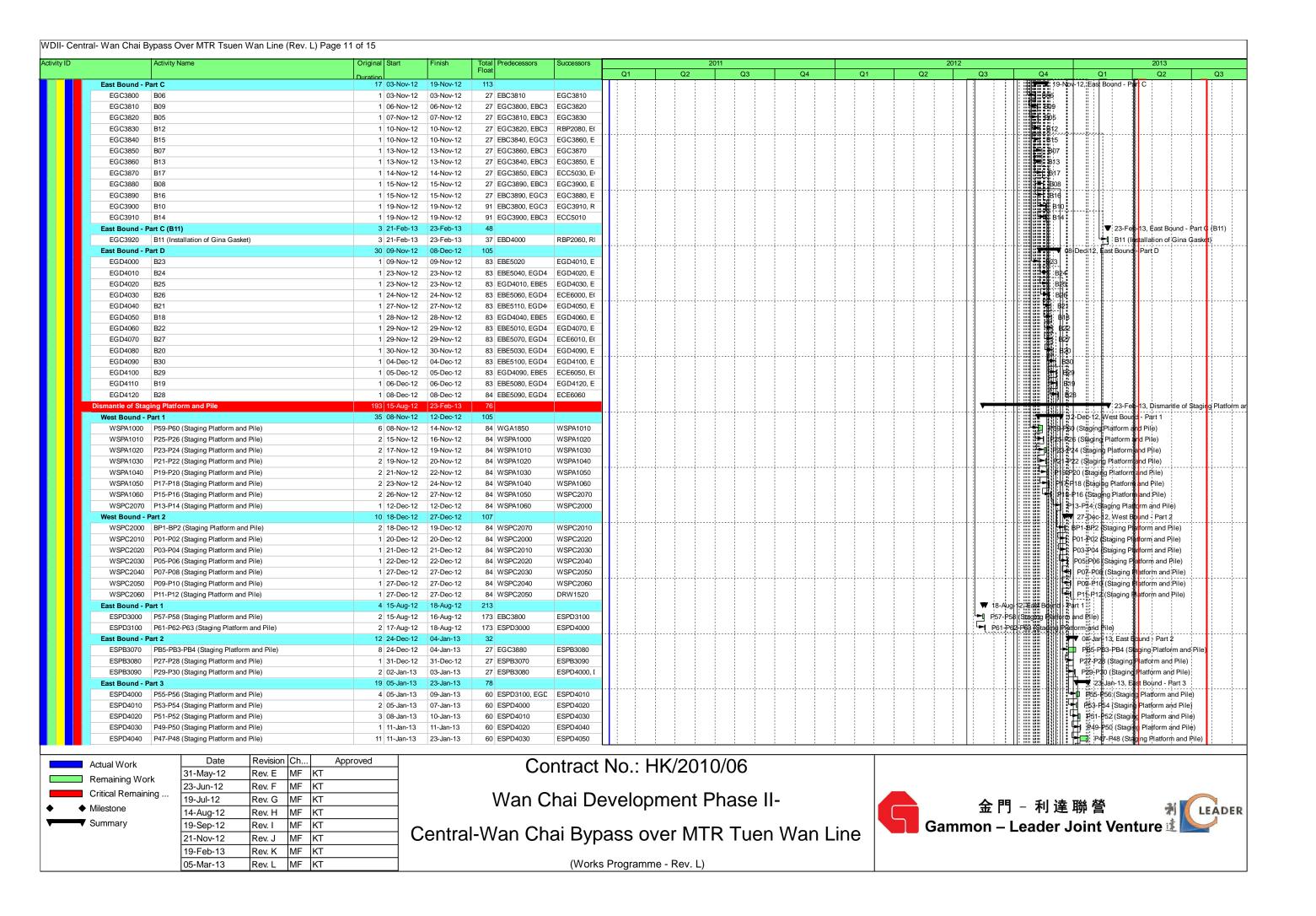


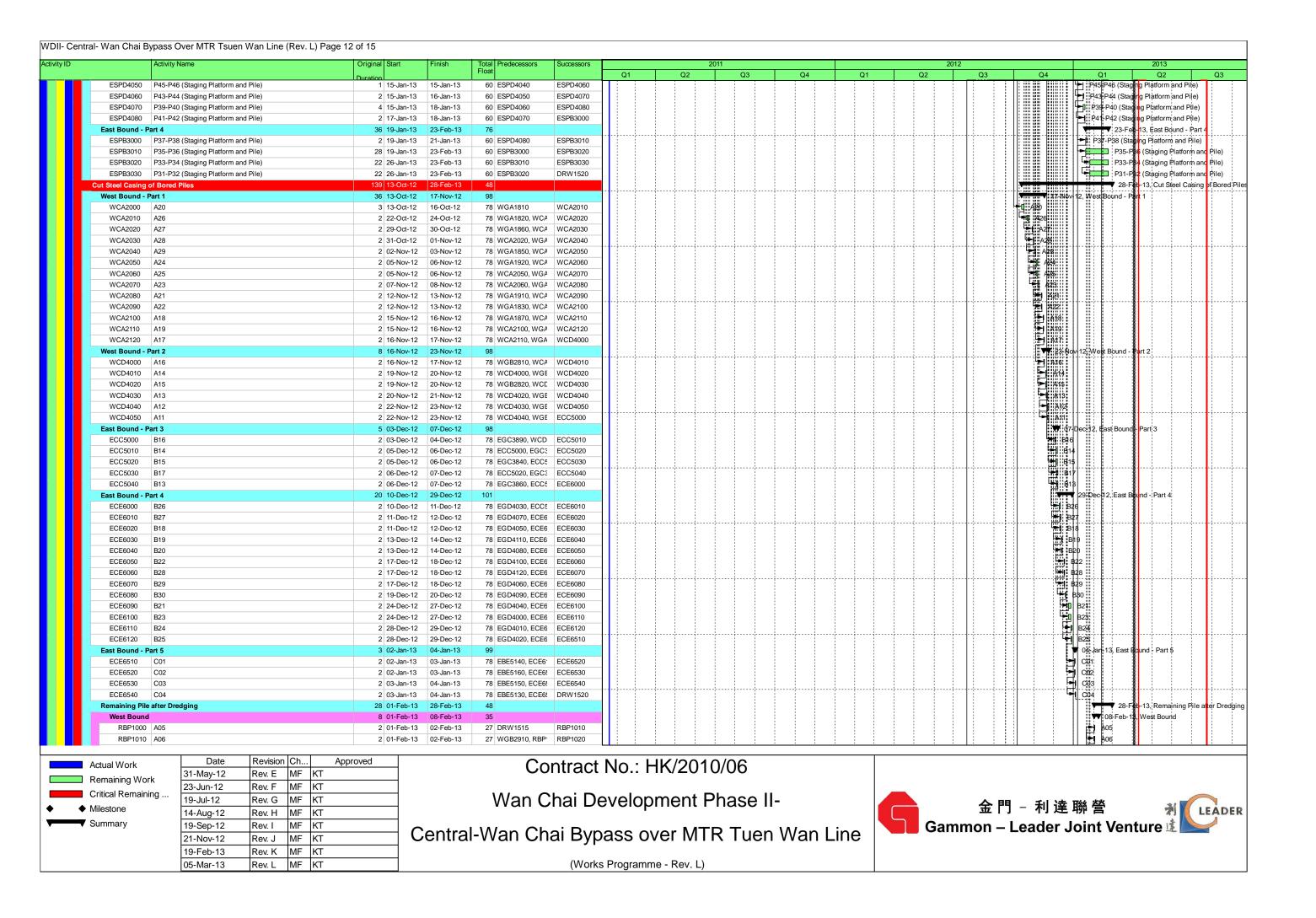


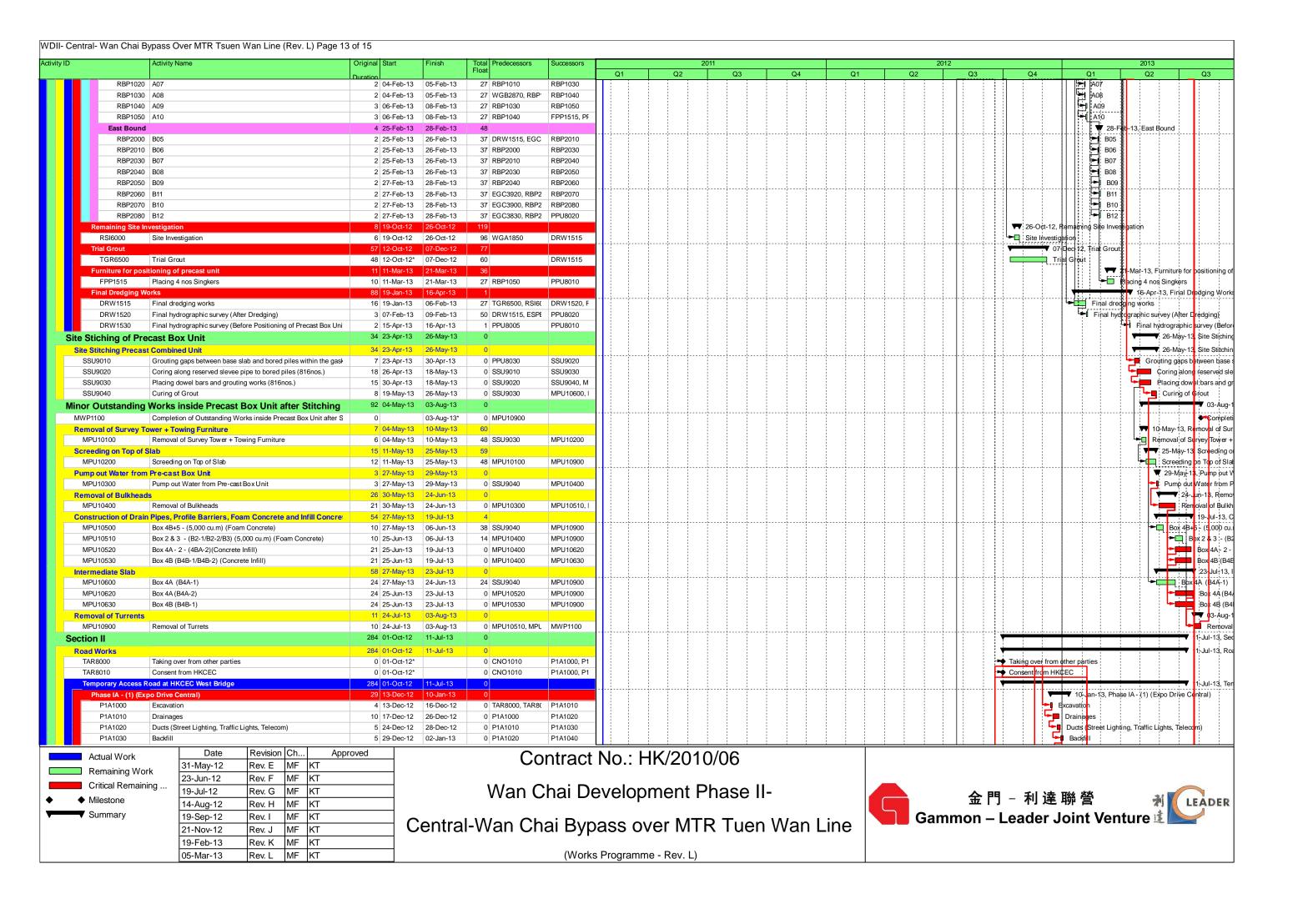


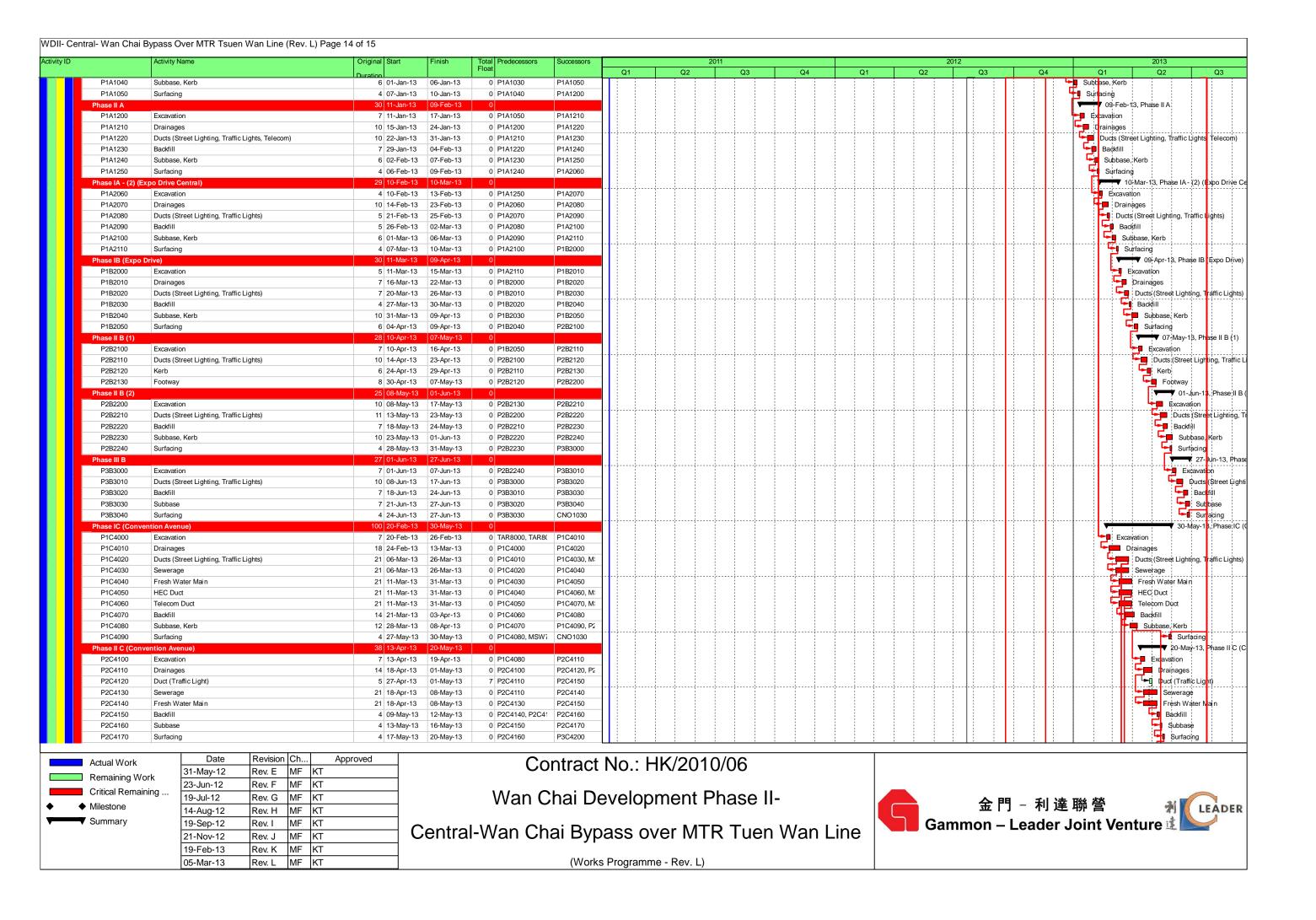


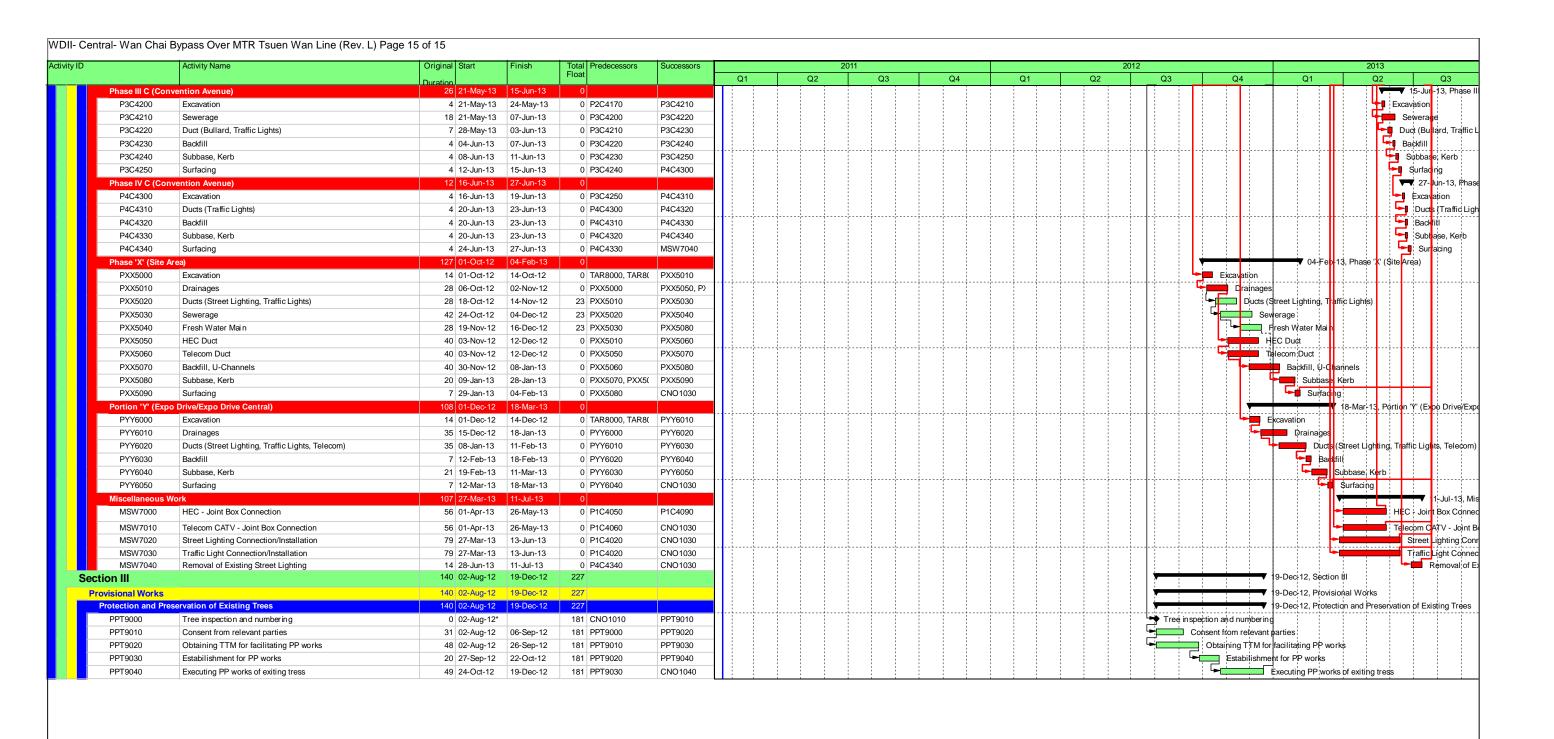












Actual Work

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-

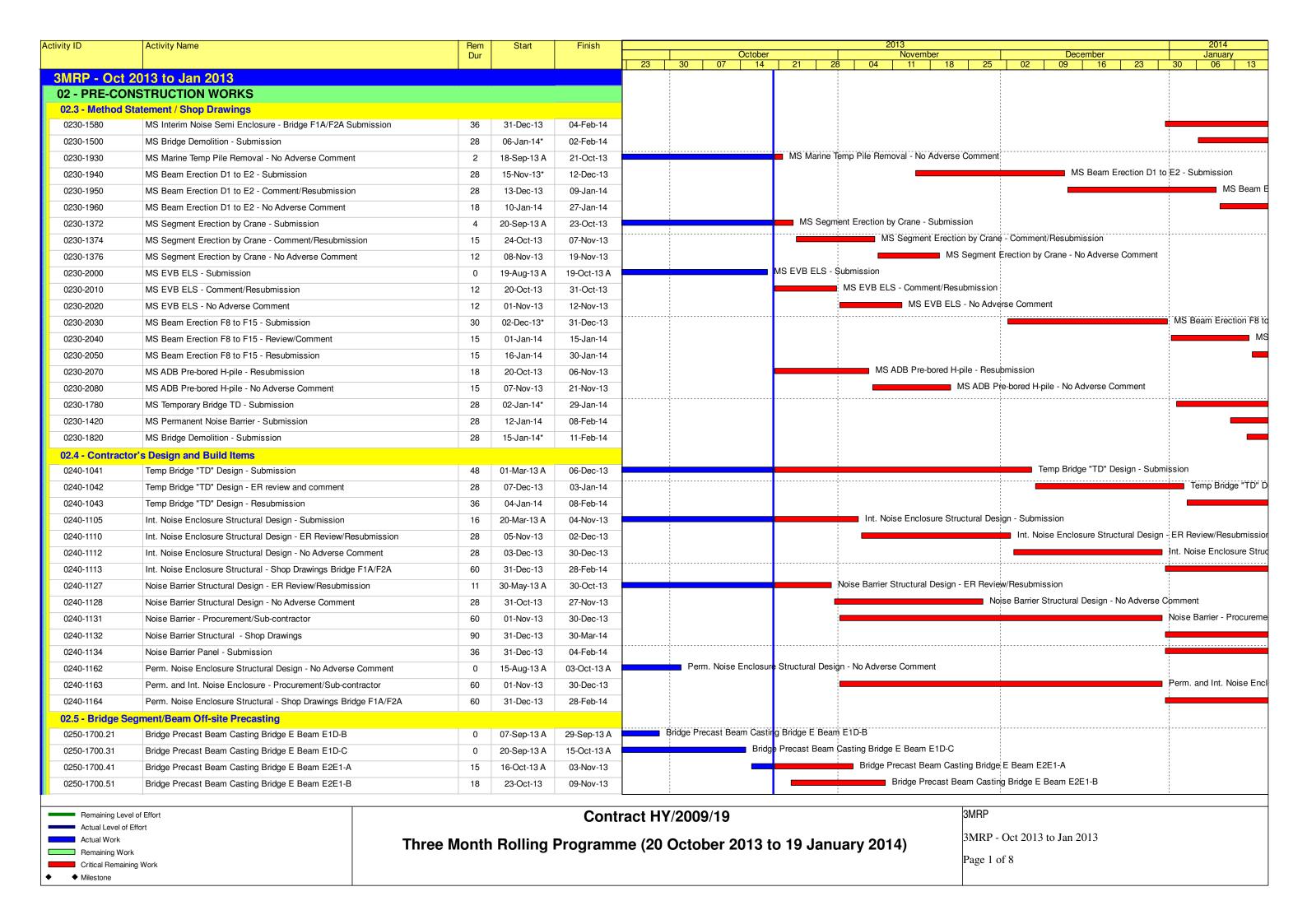
Central-Wan Chai Bypass over MTR Tuen Wan Line

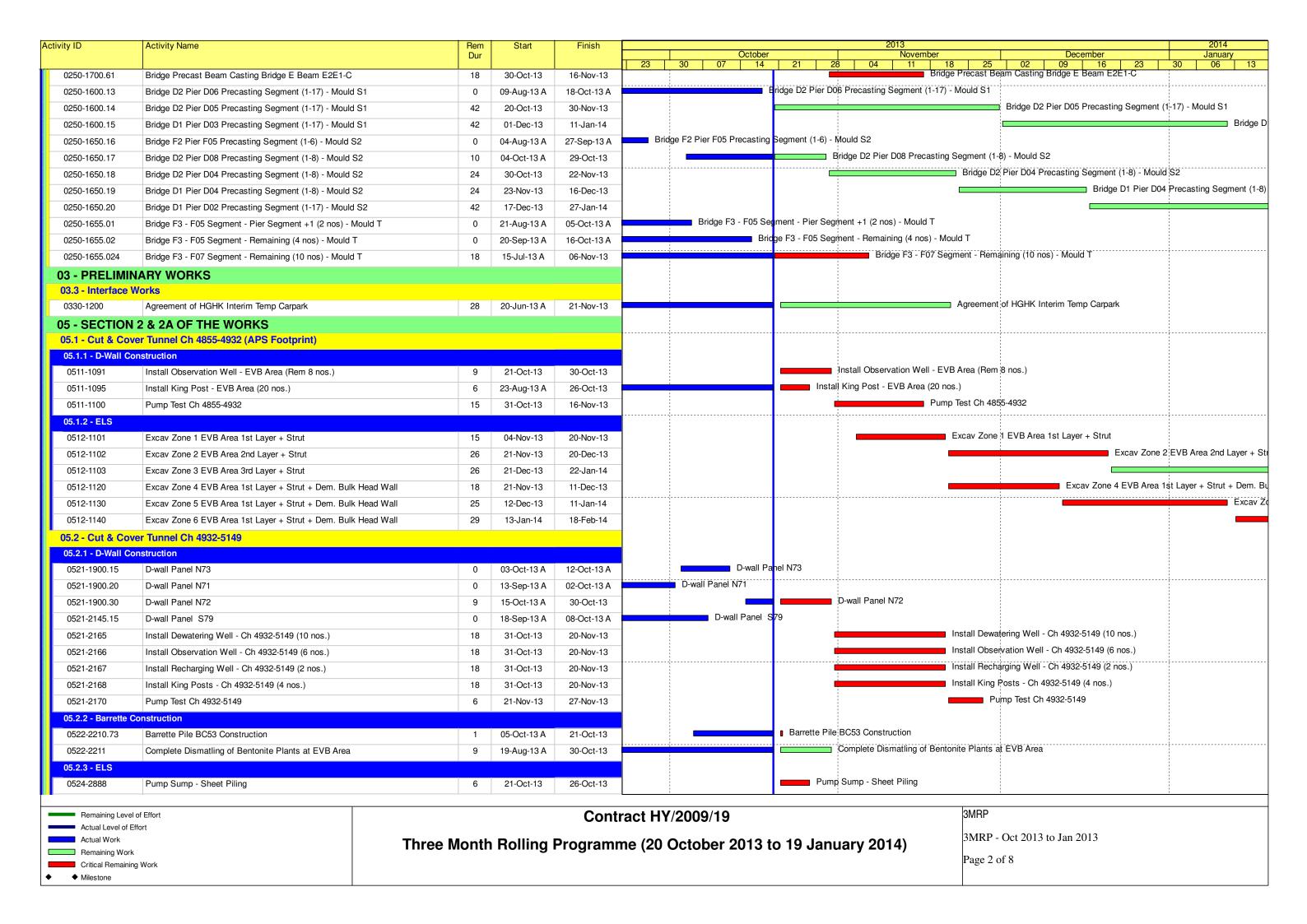
(Works Programme - Rev. L)

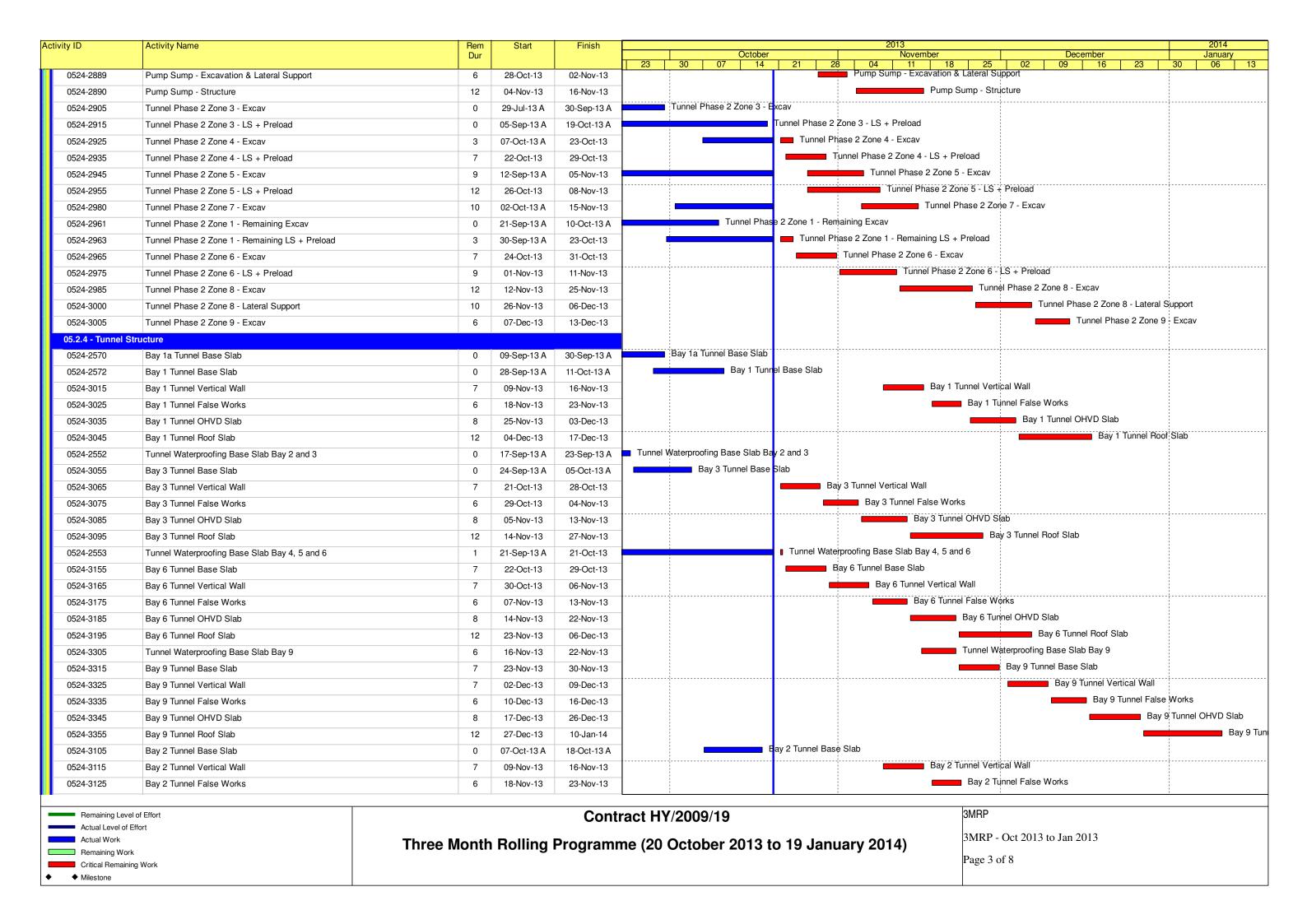


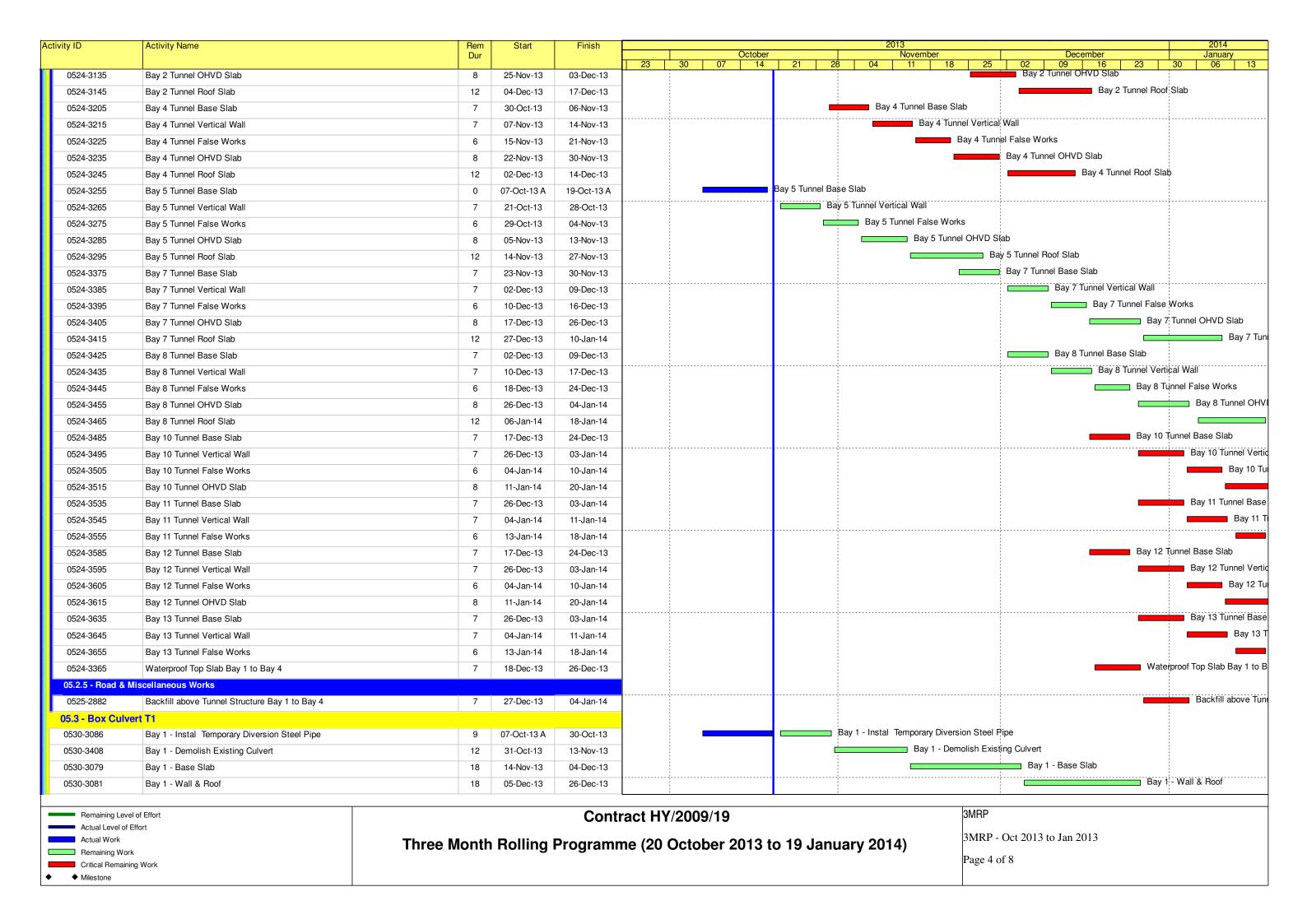
金門-利達聯營 Gammon – Leader Joint Venture ≰

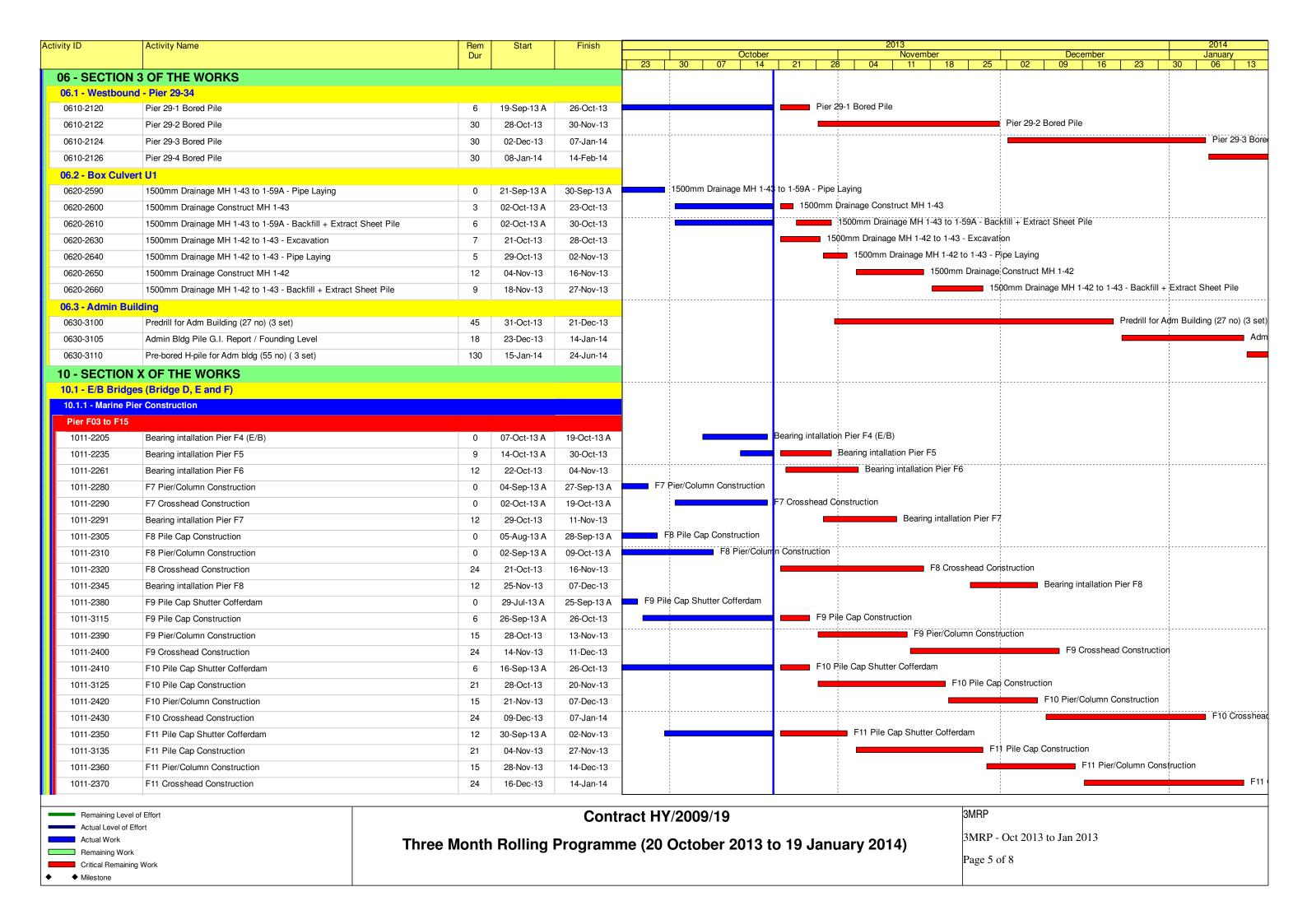


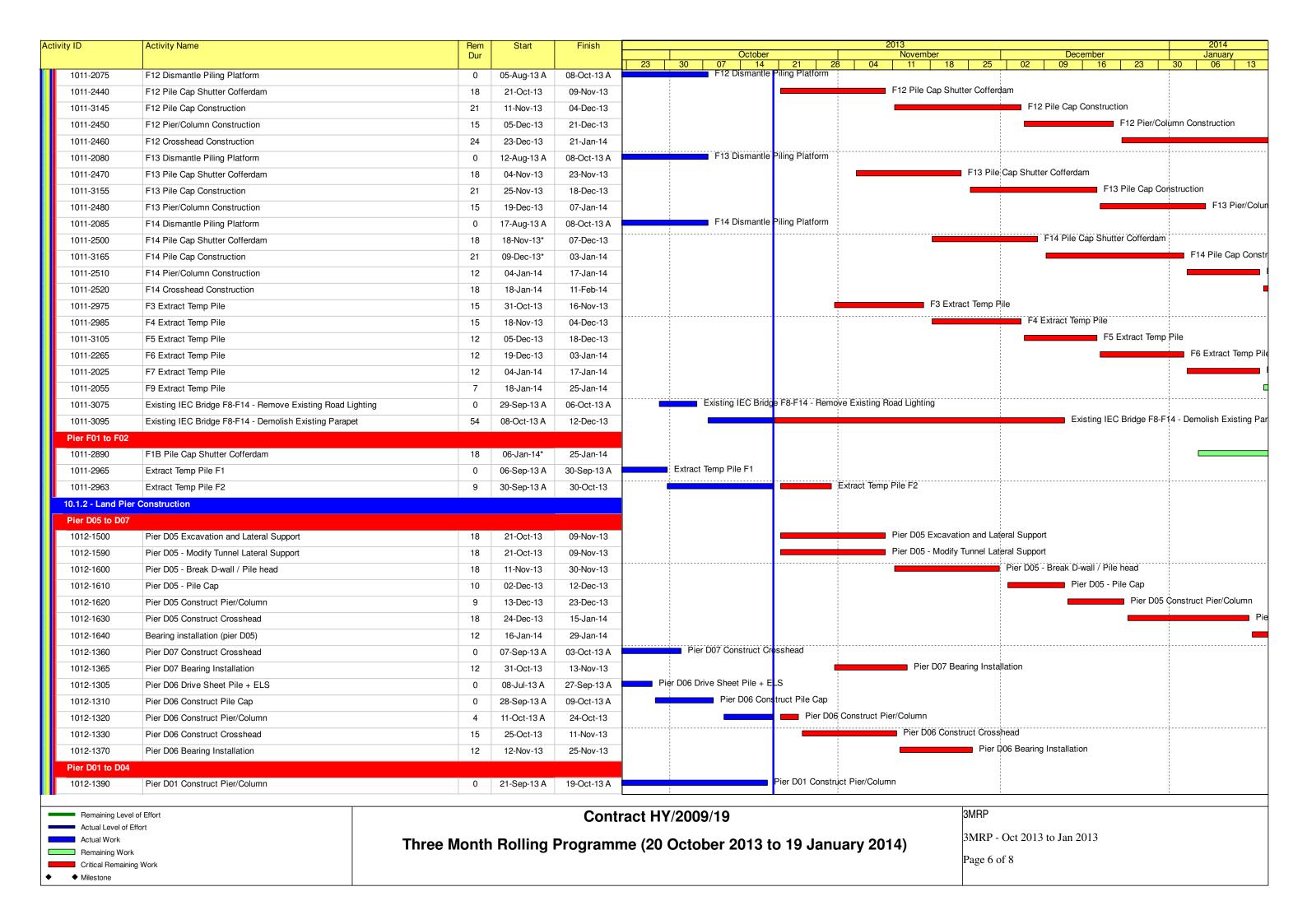


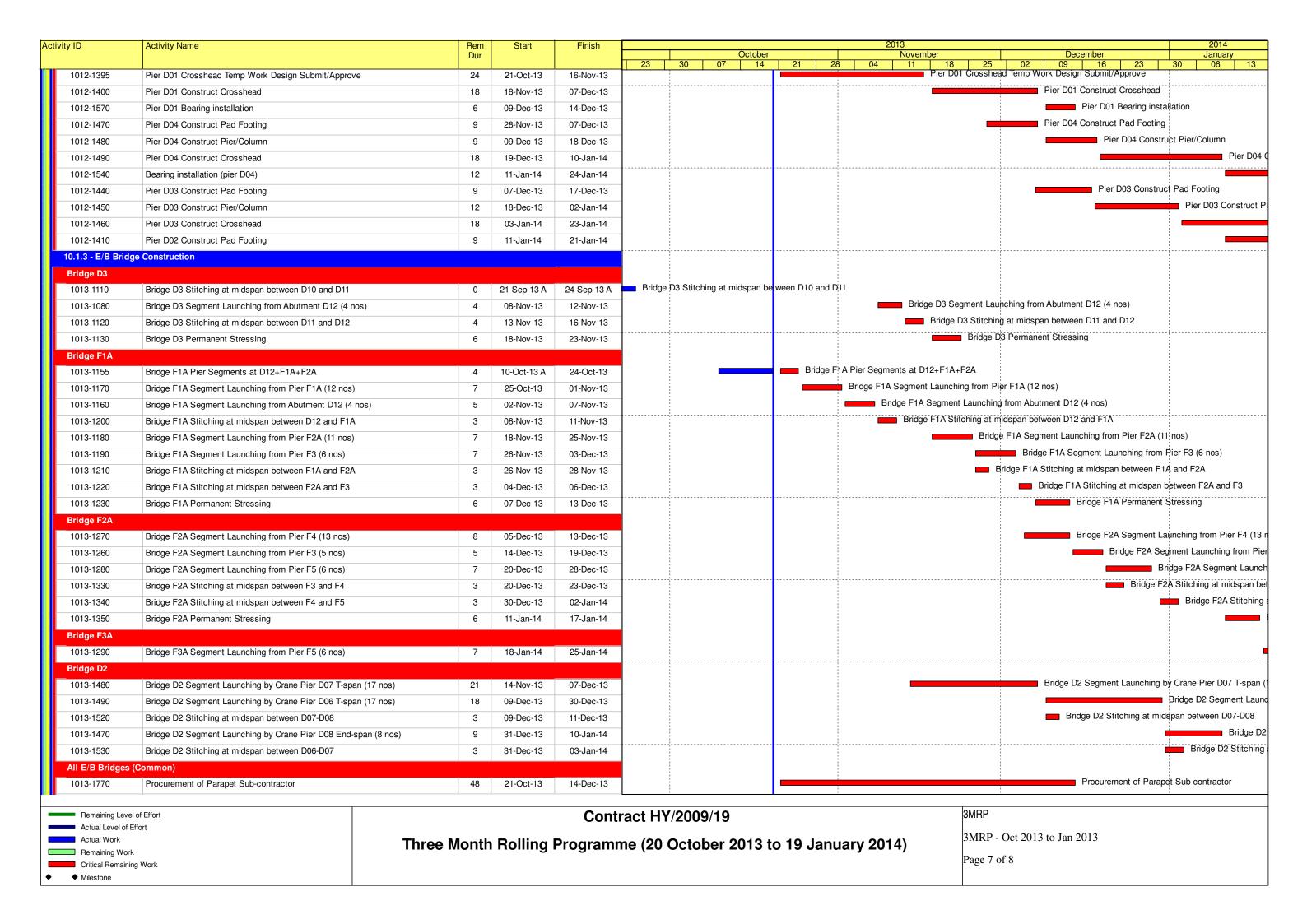


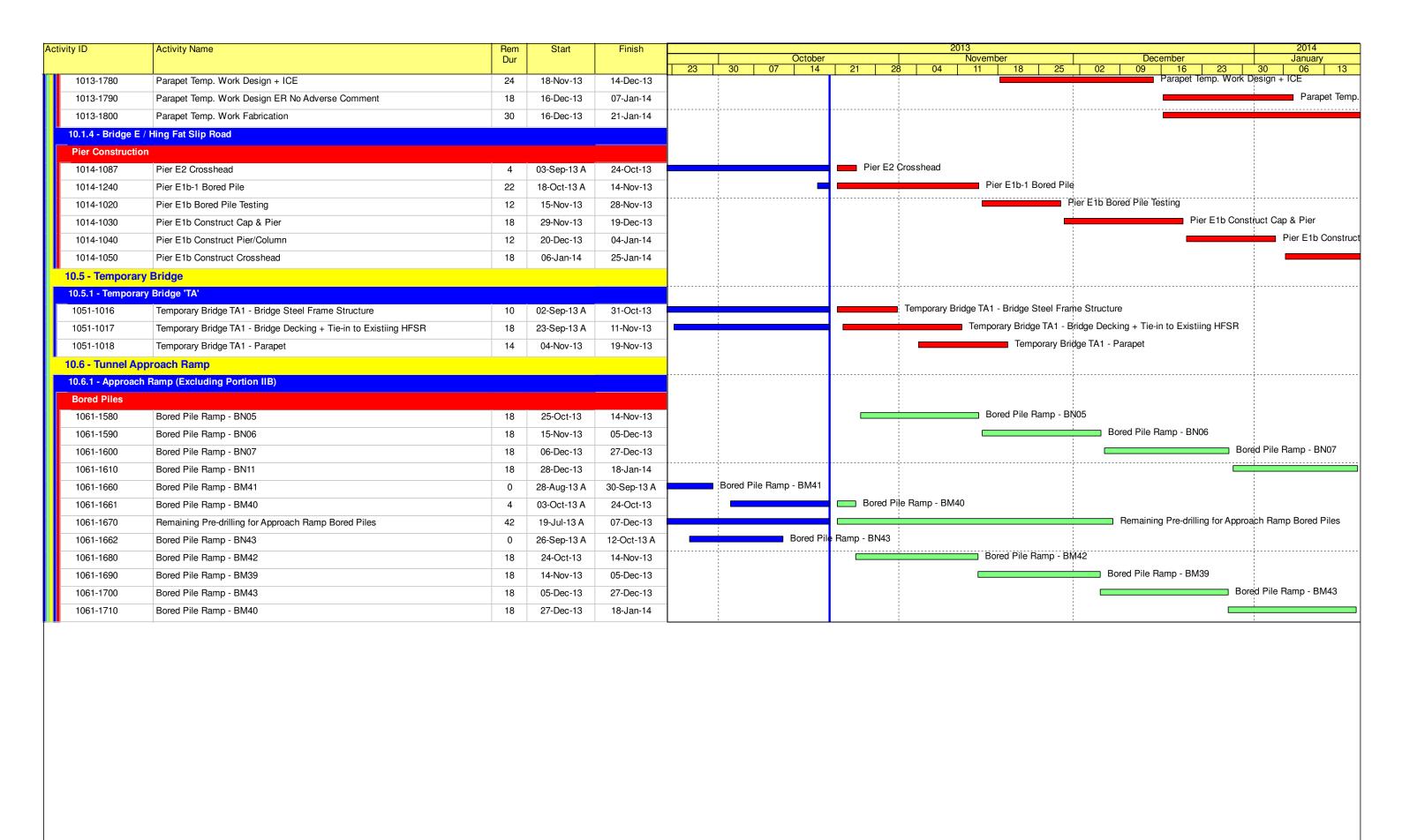
















CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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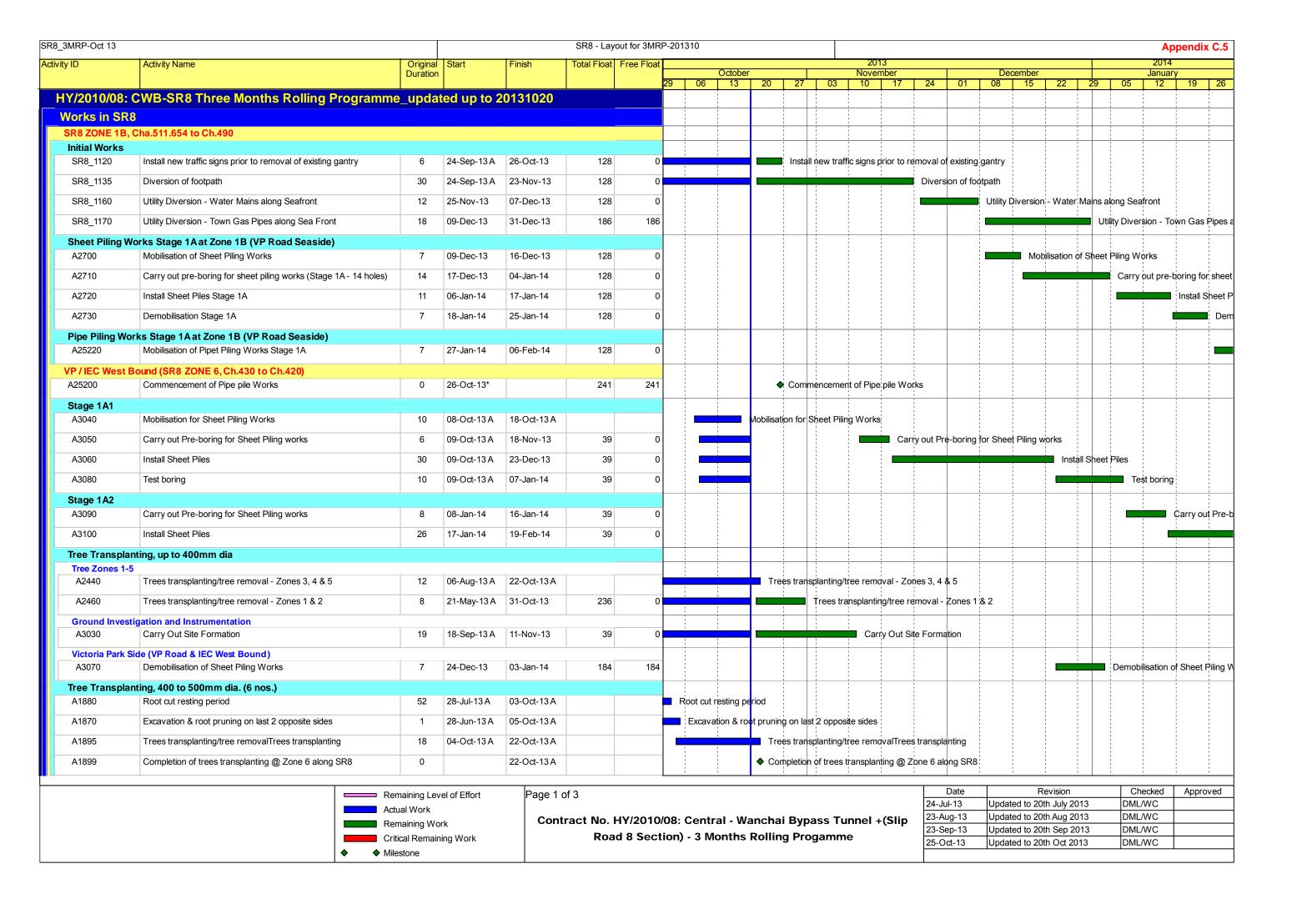
HK/2012/08 Reviewed Works Programme - (Conforming) - Rev.0/1 23 Aug 2013 Dredging and Reclamation **Marine Work Construction** Area C - Demolish Expo Drive West Bridge MAR12840 Area C - Expo Drive - saw cut and remove (Bay 3) 5 11-Aug-13 A 24-Aug-13 MAR13220 Area C - Expo Drive - saw cut and remove (Bay 4) 5 13-Aug-13 A 24-Aug-13 5 26-Aug-13 30-Aug-13 MAR13240 Area C - Expo Drive - saw cut and remove (Bay 5) MAR13260 5 31-Aug-13 Area C - Expo Drive - saw cut and remove (Bay 6) 05-Sep-13 11-Sep-13 MAR13280 Area C - Expo Drive - saw cut and remove (Bay 7) 5 06-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 MAR13520 Area C - Expo Drive - saw cut and remove ((Bay 11) 5 02-Oct-13 07-Oct-13 Dredging Dredging - Zone C Zone C - Dredging [R6, R7] (25m control zone / temp seawall) 3 30-Aug-13 02-Sep-13 MAR11340 4 03-Sep-13 MAR11350 Zone C - Dredging [R3-R5] (25m control zone) 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 4 30-Aug-13 03-Sep-13 MAR10900 Zone B - dredging [Q6-Q8] (25m control zone / seawall) 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 Zone A2 - Complete discommissioning of Submarine Sewage Outfall (conforming by 20-Aug-13 MAR10120 MAR10140 Zone A2 - Complete discommissioning of Cross Harbour Watermains (conforming by 20-Aug-13 Zone A2 - dredging [L6-L8, M6-M8] (seawall) MAR10160 11 16-Sep-13 28-Sep-13 MAR10200 Zone A2 - dredging [M1-M5] 15-Nov-13 11 04-Nov-13 MAR12440 Zone A2 - dredging [L0-L5] 21-Nov-13 5 16-Nov-13 MAR12460 Zone A2 - abandon / remove existing submarine sewage outfall [L2-L5] 52 30-Sep-13 30-Nov-13 Current Milestone 29-Aug-13 Data Date: Actual Work 3 Months Rolling Programme for Area Outside Zone CRIII 20-Aug-13 Critical Remaining Work Remaining Work Remaining Level of Effort

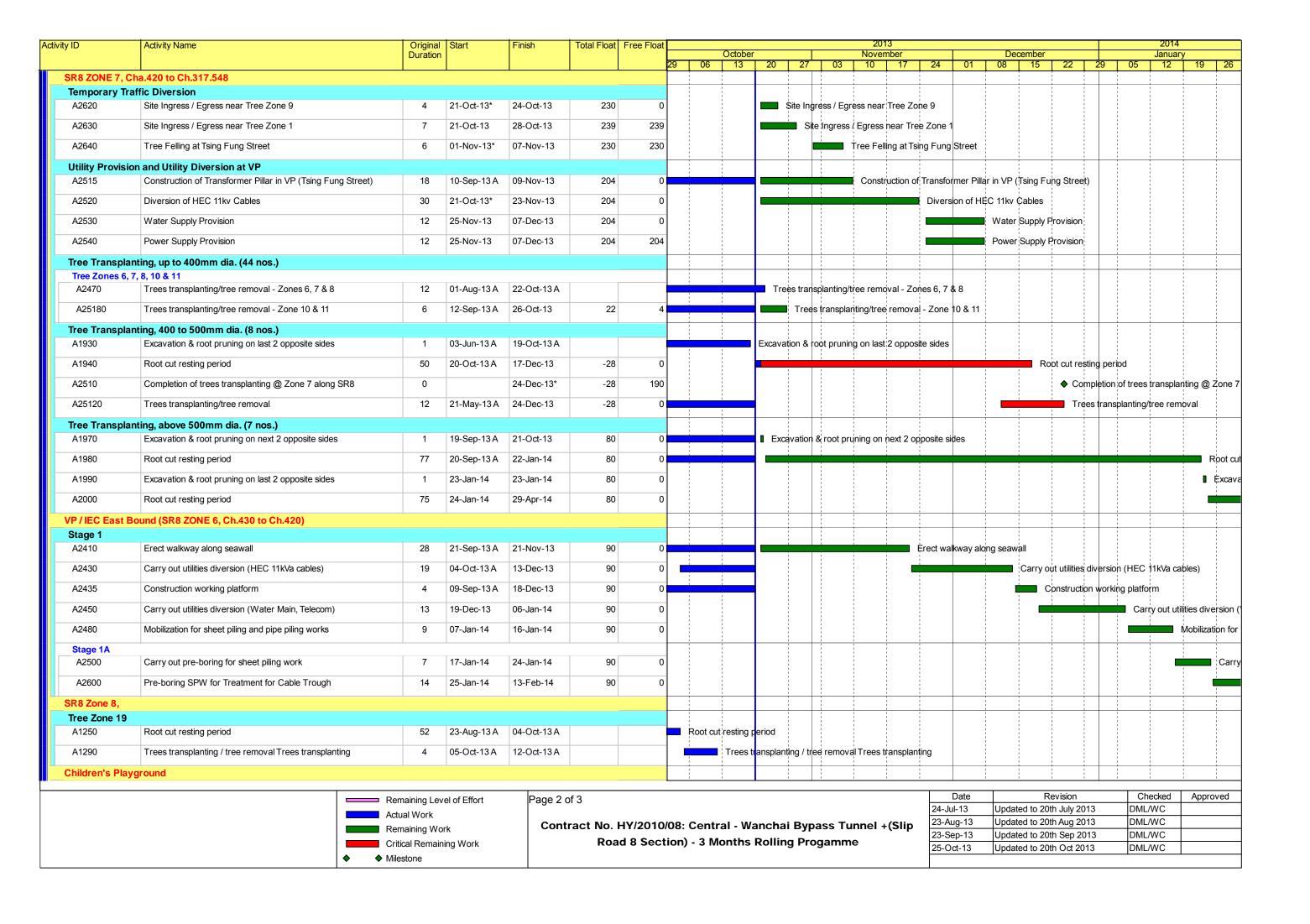


CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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Activity ID	Activity Name Origi	Dur Early Start	Early Finish		2013			201	14			2015				20	16			-	2017		$\overline{}$	 2018	_
	Tadity tand	Zuny Stant		D J F		S O N C) J F M			O N D J	F M A		A S	O N D	J F M			0 N C	J F M			S O N	D J F		I A S
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			0																			
Dredging - Zo	ne A1																								
MAR10240	Zone A1 - dredging [J4-J7, K5-K7] (seawall)	22 30-Sep-13	26-Oct-13																1 1 1						
MAR12520	Zone A1 - dredging [J1-J3, K0-K4]	11 22-Nov-13	04-Dec-13			•																			
Dredging - Zo	ine 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			0																			
Seawall Const	ruction				 													+		+				 	
Seawall Cons	truction - 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			o																			
Seawall Cons	truction - 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			0																			
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			Þ																			
MAR11210	Zone B - seawall - install caisson seawall no. 2N	3 29-Oct-13	31-Oct-13			II.																			
Seawall Cons	truction - 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			b																			
Seawall Cons	truction - Zone A1																								
MAR10290		18 05-Nov-13	25-Nov-13			_																			
Filling					 																			 	
Filling - Zone	c																								
MAR11700		28 01-Nov-13	03-Dec-13																						
	ction Completion																								
Construction																									
	, L1 & FRP-L Construction				 																			 	
	x Culvert La bay 1-3 and Roadwork																								
CUL10140		10 28-Aug-13	07-Sep-13																						
CUL10140		30 06-Sep-13	12-Oct-13																						
CUL10440		20 15-Oct-13	06-Nov-13		 																			 	1.1.1
CUL10480	Sec VI A - Area 1 - Culvert L bay 1-3 - excavation and ELS installation	36 07-Nov-13	18-Dec-13																						





ctivity ID	Activity Name	Original	Start	Finish	Total Float Fr	ee Float		2013								2014					
•		Duration						October			November			De	cember		January				
						29	06	13	20 27	03	10 1	7 24	01	08	15	22	29	05 12	2 [1	19	
A1160	Demolition of existing pond	16	14-Sep-13 A	04-Oct-13 A			Demoliti	on of exis	ting pond					1				1			
A1190	Backfill and paving of Base Slab	12	05-Oct-13 A	02-Nov-13	196	0		:		■ Backfill a	and paving o	of Base Slab	,	1 1 1			1	1 1 1 1			
A1200	Construction of Foundation	14	05-Oct-13 A	19-Nov-13	196	0						Construction	on of Fou	ındation							
A1150	Tree protection	30	05-Oct-13 A	23-Nov-13	216	15		;				Tree	protectio	n			1	! ! !			
A1210	Construction of Drainage	12	20-Nov-13	03-Dec-13	196	0					ı		C	onstructio	on of Drainag	ge		 			
A2490	Start of Reprovisioning works for CP	0	12-Dec-13*		201	201			 					•	Start of Repr	rovision	ning works	or CP			
A1220	Rubber Mat Installation	12	04-Dec-13	17-Dec-13	196	196			 			1		i	Rubbe	er Mat	Installation	 			
Works for Pu	ublic Works Regional Laboratory (North Lant	au)							1 1 1 1					1 1 1			1 1 1	1 1 1 1			
Transformer R	oom						1				1			1		1		1			
PWRL_0770	Apllication for Permanent CLP Power (900A)	1	21-Oct-13*	21-Oct-13	0	0			Apllication I	or Permane	ent CLP Pow	er (900A)						1			
PWRL_0780	CLP Vetting and Approval	30	22-Oct-13	25-Nov-13	0	0	1					CL	Vetting	and App	roval	1		 			
PWRL_0790	Construction of RC Transformer Room	80	26-Nov-13	05-Mar-14	0	0						_				i				\rightarrow	
Dangerous Go	ods Store													1				1			
PWRL_0560	Waterproofing to roof	1	15-Oct-13 A	18-Oct-13 A			1	- \	Waterproofing t	o roof				1				; ! ! !			
PWRL_0535	E&M installation (wiring, lighting fixtures, AC unit, etc.)	8	15-Oct-13 A	29-Oct-13	231	0				&M installat	ion (wiring, I	ighting fixtu	es, AC u	nit, etc.)				 			
PWRL_0540	Metal works (door, grill, grating etc.)	9	21-Oct-13 A	06-Nov-13	231	0	 			Me	tal works (de	oor, grill, gra	iting etc.)	l			1	1 1 1 1			
PWRL_0550	Finishing Works	11	15-Oct-13 A	06-Nov-13	231	0				Fin	ishing Work	s		1 1 1			1	1 1 1			

Remaining Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

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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
24-Jul-13	Updated to 20th July 2013	DML/WC	
23-Aug-13	Updated to 20th Aug 2013	DML/WC	
23-Sep-13	Updated to 20th Sep 2013	DML/WC	
25-Oct-13	Updated to 20th Oct 2013	DML/WC	