

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 (May 2013)

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 AND FEP-06/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- MAY 2013 -

CLIENTS:

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and

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CERTIFIED BY:

Raymond Dai Environmental Team Leader

DATE:

14 June 2013



Ref.: AACWBIECEM00 0 4024L.13

14 June 2013

AECOM Asia Company Limited 11/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road Shatin, New Territories Hong Kong By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (May 2013) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009 and FEP-06/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for May 2013 received by email on 14 June 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.	HyD	Mr. Jones Lai	by fax: 2714 5289
	CEDD	Mr. Patrick Keung	by fax: 2577 5040
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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report –May 2013 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009 and FEP-06/356/2009. This report presents the environmental monitoring findings and information recorded during the period April 2013 to May 2013. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

- ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included: Marine Works (at Wan Chai)
 - Rockfilling at the northern part of HKCEC3E (East of HKCEC) between CH290 and CH385.
 - Construction of mass concrete coping for new seawall.
 - Installation of ELS for construction of proposed box culvert Bay 8 and Bay 9.
 - Prefabrication of steel bridge on the top of temporary open channel along Convention Avenue.

Cross-Harbour Watermains Installation (CHA & CHB) and Marine Works (at TST)

- Defect rectification works for submarine pipeline A and pipeline B (removal of silt).
- All recorded defects inspected by WSD during final handover inspection.
- Installation of ICCP monitoring system for new provided cross harbour watermain.

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)

- Mainlaying works at Zone B6-1B, B6-2A, B6-4, B6-5B, A1-5C, A3-3C, C1-2 and X2-1.
- Reinstatement works at Zone A2-3A.
- Mainlaying works in Zone B6-1B, B6-2A, B6-4 and B6-5B at north & west of HKCEC.
- Mainlaying works in Zone A1-5C.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.

E & M

- Full commissioning test for Cooling Water Pumping Station P3.
- Handover inspection for Cooling Water Pumping Station P1.
- Handover inspection for Cooling Water Pumping Station P4.
- Full commissioning test for Cooling Water Pumping Station P5.

Application of Epoxy Lining to Existing Box Culvert M (VO No.31)



- Full commissioning test for Cooling Water Pumping Station P5.
- iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Modification work of PTI at Expo Drive East.
 - Modification of existing covered walkway along Expo Drive East.
 - Blinding layer at CP4 in front of P7 Cooling Water Pumping Station.
 - Demolition of thrust block for rectifying the P9 cooling watermains and the defeated pipe had been replaced.
 - Major E&M works and their T&C in Cooling Water Pumping Stations P7, P8 and P9.
 - Footpath reinstatement near Harbour Centre.
 - Utility diversion for the outstanding DAV Chamber for P9 intake mains at Harbour Road (CHAI425m).
 - Both jacking pit (at Bay 11) and receiving pit (at Bay 19B) for the construction of Intake Culvert.
 - Backfilling works for the Intake Culvert at Wan Shing Street and from Bay 9 to Bay 10 inside the Ex-Pet Garden.
 - Backfilling between Bay 6 to Bay 8.
 - Mainlaying works for DN800 salt watermains (CHS8A) at Ex-Pet Garden except the remaining T-section near the connection with existing system at Hung Hing Road.
 - Backfilling work at CH175 CH195. Construction of bend block between CH150 CH160 and backfilling works near Gate No.1.
 - The ABWF works in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
 - Dry tests at WSD Salt Water Pumping Station.
 - Backfilling for the receiving pit adjacent to WCE PTW at Hung Hing Road.
 - Re-construction for the DSD Pumping Station boundary wall at Hung Hing Road.
 - Re-construction for the DSD Pumping Station footpath next to the boundary wall.
 - Backfilling works between Bay 1 and the existing drainage.
 - Bracket & guard rail installation together with temporary scaffolding erection for proposed movable ramp installation.
 - The last cast roof slab was concreted and the temporary falsework had been dismantled.
 - Backfilling works for pipe trenches and the road modification works along Wan Shing Street for HHR Flyover Diversion (Stage 1).
 - Dredging at TWCR4 and WCR4.
 - Rockfilling by Grade 200 at TWCR4.
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 - Removal of eastern breakwater of CBTS



- Installation of temporary wave protection barrier at eastern breakwater
- Temporary works for EVA
- v. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
 - Sheet Piling Works
 - Road resurfacing works
 - Road opening preparatory works
 - Precast Unit Box Installation Preparation Works (mainland China)
- vi. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
 - D-wall and Barrette Construction
 - Construction works for Box Culvert T1
 - Construction works for Culvert U1
 - Removal of marine platform
 - Construction of pile cap, column & cross head (Marine)
 - D8-D9 Gantry Fabrication for precast segment
 - ELS for Cut & Cover Tunnel
 - Laying of 1500 pipe
 - Portal gantry works
 - Launching of girder
 - Launching of segments
 - Unloading segments from derrick
 - Extraction of temporary pile from marine section
- vii. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
 - Site preparation works
 - Site survey
 - Marine ground investigation

Noise Monitoring

- viii. 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.
- ix. No action and 3 limit level exceedances at M6 HK Baptist Church Henrietta Secondary School were recorded on 2, 7 and 21 May 2013 in this reporting month. The exceedances were concluded as non-project related.
- x. Due to adverse weather condition, the noise monitoring at the following stations were rescheduled:
 - M3a: from 16 May 2013 to 18 May 2013
 - M4b: from 16 May 2013 to 18 May 2013
 - M5b: from 16 May 2013 to 18 May 2013
 - M6: from 30 Apr 2013 to 2 May 2013 and from 16 May 2013 to 18 May 2013



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.

Air Quality Monitoring

- xiv. 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.
- xv. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xvi. Due to lack of electricity supply, the 24-hr TSP monitoring at the following stations were Rescheduled,

CMA3a: from 1 May 2013 to 2 May 2013

CMA4a: from 18 May 2013 to 20 May 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 the Amber Rainstorm signal was hoisted on 20 May 2013, water quality monitoring at ebb tide were cancelled.
- xix. 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.
- xx. 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.
- xxi. 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.

- xxii. 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.
- 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;
- xxiv. 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.
- xxv. 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.
- xxvi. 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.
- xxvii. 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.
- xxviii. 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.
- xxix. 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*.



	Water	Mid-flood				Mid-ebb							
Contract no.	Monitoring	DO		Turbidity		SS		DO		Turbidity		SS	
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	0	0	0	0
	C5w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on	WSD21	1	0	0	0	1	0	0	0	0	0	1	0
8 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	1	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		1	0	0	0	2	0	0	0	0	0	1	0

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

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.
- xxx. Investigation found that one SS exceedance which was works-related Contract no. HK/2009/02. The remaining exceedance was concluded as non-project-related. The details of the recorded exceedances can be referred to the Section 6.4.
- xxxi. 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	y Month

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

- xxxii. There were 1 action level exceedances and 8 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.
- xxxiii. 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.

Complaints, Notifications of Summons and Successful Prosecutions

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

Site Inspections and Audit

xxxv. 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 and HK/2012/08 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

xxxvi. 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.



- Additional pre-bored H-pile for construction of steel bridge over temporary open channel between CH220 and CH260.
- Construction of mass concrete coping for new seawall.
- Installation of ELS for construction of proposed box culvert Bay 8 and Bay 9.
 Subsequent Box Culvert construction for Bay 8 & 9 would be carried out upon completion the ELS.
- Backfilling to temporary water channel for subsequent demolition of promenade deck and pumping station at HKCEC Water Channel.
- Defect rectification works for submarine pipeline A and pipeline B (removal of silt)
- Testing and commissioning for ICCP monitoring system.
- Connection of pipeline D to existing mains at Wan Chai.
- Connection of Pipeline C to exiting mains at Wan Chai.
- Connection of Pipeline F to exiting mains at TST.
- Disconnection and capping to existing mains at TST.

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)

- Works at Zone B6-1B, B6-2A, B6-4, B6-5B, A1-5C, A3-3C, C1-2 and X2-1.
- Reinstatement works at A2-3A.
- Mainlaying works at A1-5C.
- Mainlaying works in Zone C1-2 when 2 nos. trees at the existing planter has been transplanted off site.
- Proposed sewerage system and reinstatement works at north and west of HKCEC Area.
- Mainlaying works at Zone X2-1 when instruction from the Engineer has been received.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.
- Temporary ducting and cabling works at junction between Convention Avenue and Fleming Road.
- Mainlaying works at Zone A4-1B.
- Mainlaying works at Zone A5-2.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 1B under the atrium link (from Ch80 to Ch220).
- Installation of pre-bored H-pile in CWB Stage 1B under the atrium link (from Ch120 to Ch220) would be commenced upon completion of piling works in CWB Stage 1B.
- 3rd Piling rig for pre-bored H piling works under atrium would be mobilized to Site.
- CWB diaphragm wall construction under the atrium link.



- Construction of bulkhead Wall at Ch120.
- Pre-drilling works for CWB (Stage 3).
- Demolition of the promenade deck and pumping stations at HKCEC Water Channel.

E&M Works

• Full commissioning for Cooling Water Pumping Station P5.

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

- Construction of pile caps and the subsequent mainlaying works for rectifying the subsided intake pipes for both GE/HC and SHK cooling water system.
- DN800 salt watermins (CHS8A) installation and backfilling works inside Ex-pet Garden.
- Subsequent construction of Bay 1B and Bay 2B Intake Culvert.
- All mainlaying works and prepare for connection with the existing DN600 salt watermains at Hung Hing Road.
- Leakage test for the installed stoplog at Bay 2A of Intake Culvert and bulkhead demolition works.
- Synthetic woods and façade works for the external wall of WSD Salt Water Pumping Station.
- Backfilling to Bay 6 to Bay 11 of Intake Culvert.
- Construction of Bay 4 Box Culvert N1.
- Water plug installation works at Bay5/Bay6 interface.
- ABWF in Ferry Pier, included commencement of glass curtain wall installation at Level 2.
- Installation of moveable ramp system included the commencement of ramp installation
- Canopy installation and continue waterproofing works on Observation Deck.
- Lift installation at Ferry Pier. Construction of Eastern Bulkhead wall.
- Placing temporary rock mound and leveling stone installation for temp seawall construction at WCR4 & TWCR4.
- Precast concrete seawall installation at WCR4 & TWCR4.
- All backfilling and road reinstatement works at Hung Hing Road & WSS for successful implementation of HHR Flyover Diversion (Stage 1).

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

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
- Road opening works
- Road resurfacing works

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

- D-wall and Barrette Construction
- Construction works for Box Culvert T1
- Construction works for Culvert U1
- Demolition of parapet at IEC Link
- Construction of dewatering well for Cut & Cover Tunnel
- Removal of marine platform
- Construction of pile cap, column & cross head (Marine)
- ELS for Cut & Cover Tunnel
- Laying of 1500¢ pipe
- Launching of segments
- Unloading segments from derrick
- Extraction of temporary pile from marine section

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

- Hoarding erection
- Marine ground investigation
- Dredging
- Demolition of the existing Expo Drive West Bridge



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 and FEP-06/356/2009 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 and FEP-05/356/2009 and during the period of April 2013 to May 2013. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- **Section 3** *Status of Regulatory Compliance* summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 *Cumulative Construction Impact due to the Concurrent Projects* summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.



- **Section 8** *Site Inspection* summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 *Complaints, Notification of summons and Prosecution* summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



2. Project Background

2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
 - Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
 - Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above
 - Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above



- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.
- 2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

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

 Table 2.1
 Schedule 2 Designated Projects under this Project

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*.



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 –	DP3, DP5	5 July 2010	
	Central – Wan Chai Bypass at WanChai 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 IICentral- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	March 2013	

Table 2.2 Details of Individual	Contracts under the Project

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*:

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877

Table 2.3 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
	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. Jack Chu	9775 3008	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
		Environmental Supervisor	Kwong Weng Kit	6253 3356	
Chun Wo – CRGL	Contractor under Contract no.	Deputy Project Manager	Mr. Chan Sing Cho	3658 3002	2827 9996
Joint Venture	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	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
-Leader JV	Contract no. HK/2010/06	Site Agent	Mr. Keith Tse	2529 2068	
		Environmental Officer	Clement Pang	9735 9200	
		Environmental Supervisor	Jacky Cheung	9779 2292	
Chun Wo - CRGL -	Contractor under Contract no.	Project Manager	Mr. Rayland Lee	3758 8879	



Party	Role	Post	Name	Contact No.	Contact Fax
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	Project Manager	Victor Wu	9193 8871	
	no. HK/2012/08	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	
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)
 - Rockfilling at the northern part of HKCEC3E (East of HKCEC) between CH290 and CH385.
 - Construction of mass concrete coping for new seawall.
 - Installation of ELS for construction of proposed box culvert Bay 8 and Bay 9.
 - Prefabrication of steel bridge on the top of temporary open channel along Convention Avenue.

Cross-Harbour Watermains Installation (CHA & CHB) and Marine Works (at TST)

• Defect rectification works for submarine pipeline A and pipeline B (removal of silt).



- All recorded defects inspected by WSD during final handover inspection.
- Installation of ICCP monitoring system for new provided cross harbour watermain.

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)

- Mainlaying works at Zone B6-1B, B6-2A, B6-4, B6-5B, A1-5C, A3-3C, C1-2 and X2-1.
- Reinstatement works at Zone A2-3A.
- Mainlaying works in Zone B6-1B, B6-2A, B6-4 and B6-5B at north & west of HKCEC.
- Mainlaying works in Zone A1-5C.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.

E & M

- Full commissioning test for Cooling Water Pumping Station P3.
- Handover inspection for Cooling Water Pumping Station P1.
- Handover inspection for Cooling Water Pumping Station P4.
- Full commissioning test for Cooling Water Pumping Station P5.

Application of Epoxy Lining to Existing Box Culvert M (VO No.31)

- Full commissioning test for Cooling Water Pumping Station P5.
- 2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Modification work of PTI at Expo Drive East.
 - Modification of existing covered walkway along Expo Drive East.
 - Blinding layer at CP4 in front of P7 Cooling Water Pumping Station.
 - Demolition of thrust block for rectifying the P9 cooling watermains and the defeated pipe had been replaced.
 - Major E&M works and their T&C in Cooling Water Pumping Stations P7, P8 and P9.
 - Footpath reinstatement near Harbour Centre.
 - Utility diversion for the outstanding DAV Chamber for P9 intake mains at Harbour Road (CHAI425m).
 - Both jacking pit (at Bay 11) and receiving pit (at Bay 19B) for the construction of Intake Culvert.
 - Backfilling works for the Intake Culvert at Wan Shing Street and from Bay 9 to Bay 10 inside the Ex-Pet Garden.
 - Backfilling between Bay 6 to Bay 8.
 - Mainlaying works for DN800 salt watermains (CHS8A) at Ex-Pet Garden except the remaining T-section near the connection with existing system at Hung Hing Road.



- Backfilling work at CH175 CH195. Construction of bend block between CH150 CH160 and backfilling works near Gate No.1.
- The ABWF works in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
- Dry tests at WSD Salt Water Pumping Station.
- Backfilling for the receiving pit adjacent to WCE PTW at Hung Hing Road.
- Re-construction for the DSD Pumping Station boundary wall at Hung Hing Road.
- Re-construction for the DSD Pumping Station footpath next to the boundary wall.
- Backfilling works between Bay 1 and the existing drainage.
- Bracket & guard rail installation together with temporary scaffolding erection for proposed movable ramp installation.
- The last cast roof slab was concreted and the temporary falsework had been dismantled.
- Backfilling works for pipe trenches and the road modification works along Wan Shing Street for HHR Flyover Diversion (Stage 1).
- Dredging at TWCR4 and WCR4.
- Rockfilling by Grade 200 at TWCR4.
- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - Removal of eastern breakwater of CBTS
 - Installation of temporary wave protection barrier at eastern breakwater
 - Temporary works for EVA
- 2.4.6. For Contract no. HK/2010/06, the principal work activities in this reporting month included:
 - Sheet Piling Works
 - Road resurfacing works
 - Road opening preparatory works
 - Precast Unit Box Installation Preparation Works (mainland China)
- 2.4.7. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
 - D-wall and Barrette Construction
 - Construction works for Box Culvert T1
 - Construction works for Culvert U1
 - Removal of marine platform
 - Construction of pile cap, column & cross head (Marine)
 - D8-D9 Gantry Fabrication for precast segment
 - ELS for Cut & Cover Tunnel



- Laying of 1500 \$\phi pipe
- Portal gantry works
- Launching of girder
- Launching of segments
- Unloading segments from derrick
- Extraction of temporary pile from marine section
- 2.4.8. For Contract no. HK/2012/08, the principal work activity in this reporting month included:
 - Site preparation works
 - Site survey
 - Marine ground investigation
- 2.4.9. 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.
- Additional pre-bored H-pile for construction of steel bridge over temporary open channel between CH220 and CH260.
- Construction of mass concrete coping for new seawall.
- Installation of ELS for construction of proposed box culvert Bay 8 and Bay 9.
 Subsequent Box Culvert construction for Bay 8 & 9 would be carried out upon completion the ELS.
- Backfilling to temporary water channel for subsequent demolition of promenade deck and pumping station at HKCEC Water Channel.
- Defect rectification works for submarine pipeline A and pipeline B (removal of silt)
- Testing and commissioning for ICCP monitoring system.
- Connection of pipeline D to existing mains at Wan Chai.
- Connection of Pipeline C to exiting mains at Wan Chai.
- Connection of Pipeline F to exiting mains at TST.
- Disconnection and capping to existing mains at TST.

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)

- Works at Zone B6-1B, B6-2A, B6-4, B6-5B, A1-5C, A3-3C, C1-2 and X2-1.
- Reinstatement works at A2-3A.
- Mainlaying works at A1-5C.



- Mainlaying works in Zone C1-2 when 2 nos. trees at the existing planter has been transplanted off site.
- Proposed sewerage system and reinstatement works at north and west of HKCEC Area.
- Mainlaying works at Zone X2-1 when instruction from the Engineer has been received.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.
- Temporary ducting and cabling works at junction between Convention Avenue and Fleming Road.
- Mainlaying works at Zone A4-1B.
- Mainlaying works at Zone A5-2.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 1B under the atrium link (from Ch80 to Ch220).
- Installation of pre-bored H-pile in CWB Stage 1B under the atrium link (from Ch120 to Ch220) would be commenced upon completion of piling works in CWB Stage 1B.
- 3rd Piling rig for pre-bored H piling works under atrium would be mobilized to Site.
- CWB diaphragm wall construction under the atrium link.
- Construction of bulkhead Wall at Ch120.
- Pre-drilling works for CWB (Stage 3).
- Demolition of the promenade deck and pumping stations at HKCEC Water Channel.

E&M Works

• Full commissioning for Cooling Water Pumping Station P5.

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

- Construction of pile caps and the subsequent mainlaying works for rectifying the subsided intake pipes for both GE/HC and SHK cooling water system.
- DN800 salt watermins (CHS8A) installation and backfilling works inside Ex-pet Garden.
- Subsequent construction of Bay 1B and Bay 2B Intake Culvert.
- All mainlaying works and prepare for connection with the existing DN600 salt watermains at Hung Hing Road.
- Leakage test for the installed stoplog at Bay 2A of Intake Culvert and bulkhead demolition works.
- Synthetic woods and façade works for the external wall of WSD Salt Water Pumping



Station.

- Backfilling to Bay 6 to Bay 11 of Intake Culvert.
- Construction of Bay 4 Box Culvert N1.
- Water plug installation works at Bay5/Bay6 interface.
- ABWF in Ferry Pier, included commencement of glass curtain wall installation at Level 2.
- Installation of moveable ramp system included the commencement of ramp installation
- Canopy installation and continue waterproofing works on Observation Deck.
- Lift installation at Ferry Pier. Construction of Eastern Bulkhead wall.
- Placing temporary rock mound and leveling stone installation for temp seawall construction at WCR4 & TWCR4.
- Precast concrete seawall installation at WCR4 & TWCR4.
- All backfilling and road reinstatement works at Hung Hing Road & WSS for successful implementation of HHR Flyover Diversion (Stage 1)

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

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
- Road opening works
- Road resurfacing works

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

- D-wall and Barrette Construction
- Construction works for Box Culvert T1
- Construction works for Culvert U1
- Demolition of parapet at IEC Link
- Construction of dewatering well for Cut & Cover Tunnel
- Removal of marine platform
- Construction of pile cap, column & cross head (Marine)
- ELS for Cut & Cover Tunnel
- Laying of 1500 \$\phi\$ pipe
- Launching of segments
- Unloading segments from derrick



Extraction of temporary pile from marine section

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

- Hoarding erection
- Marine ground investigation
- Dredging
- Demolition of the existing Expo Drive West Bridge



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-09/364/2009/B	5 Mar 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
	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-RS-1293-12	10 Dec 2012	10 Dec 2012 to 9 June 2013	Valid
	GW-RS0166-13	14 Feb 2013	16 Feb 2013 to 13 Aug 2013	Valid
	GW-RS0274-13	19 Mar 2013	25 Mar 2013 to 24 Sept 2013	Valid
	GW-RS0310-13	25 Mar 2013 27 Mar 2013 to 25 Sept 2013		Valid
	GW-RE0274-13	26 Mar 2013	30 Mar 2013 to 29 Sept 2013	Valid
	GW-RS1177-12	15 Nov 2012	17 Nov 2012 to 10 May 2013	Expired
	GW-RS1184-12	15 Nov 2012	17 Nov 2012 to 8 May 2013	Replaced by GW-RS0166-13
	GW-RS1185-12	19 Nov 2012	21 Nov 2012 to 8 May 2013	Expired
	GW-RS1179-12	20 Nov 2012	22 Nov 2012 to 21 May 2013	Replaced by GW-RS0310-13



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1187-12	20 Nov 2012	27 Nov 2012 to 26 May 2013	Expired
	GW-RS1199-12	20 Nov 2012	26 Nov 2012 to 25 May 2013	Replaced by GW-RS0368-13
	GW-RS-0052-13	18 Jan 2013	20 Jan 2013 to 19 July 2013	Valid
	GW-RE0371-13	9 Apr 2013	13 Arp 2013 to 12 Oct 2013	Valid
	GW-RS0368-13	11 Apr 2013	13 Apr 2013 to 7 Oct 2013	Valid
	GW-RS0372-13	12 Apr 2013	15 Apr 2013 to 7 Oct 2013	Valid
	GW-RS0470-13	29 Apr 2013	9 May 2013 to 24 Oct 2013	Valid
	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
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/13-096	3 Dec 2012	4 Dec 2012 to 3 June 2013	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 2.8	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010
Condition 2.9	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010
Conditions 2.8	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
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
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

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



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-RS1076-12	25 Oct 2012	1 Nov 2012 to 30 Apr 2013	Expired
	GW-RS1084-12	25 Oct 2012	1 Nov 2012 to 30 Apr 2013	Expired
	GW-RS1174-12	9 Nov 2012	11 Nov 2012 to 10 May 2013	Expired
	GW-RS1158-12	16 Nov 2012	18 Nov 2012 to 16 May 2013	Expired
	GW-RS1167-12	16 Nov 2012	23 Nov 2012 to 21 May 2013	Expired
	GW-RS1204-12	9 Nov 2012	29 Nov 2012 to 23 May 2013	Expired
	GW-RS1272-12	5 Dec 2012	5 Dec 2012 to 26 May 2013	Expired
	GW-RS1223-12	27 Nov 2012	7 Dec 2012 to 5 June 2013	Valid
	GW-RS1228-12	30 Nov 2012	30 Nov 2012 to 29 May 2013	Expired
	GW-RE1055-12	30 Nov 2012	3 Dec 2012 to 29 May 2013	Expired
	GW-RS1243-12	3 Dec 2012	5 Dec 2012 to 29 May 2013	Expired
	GW-RS1245-12	5 Dec 2012	6 Dec 2012 to 5 June 2013	Expired
	GW-RS1381-12	31 Dec 2012	9 Jan 2013 to 7 July 2013	Valid
	GW-RS1384-12	31 Dec 2012	17 Jan 2013 to 6 July 2013	Valid
	GW-RS0062-13	17 Jan 2013	21 Jan 2013 to 15 July 2013	Valid
	GW-RS0155-13	15 Feb 2013	16 Feb 2013 to 14 Aug 2013	Valid
	GW-RS0241-13	11 Mar 2013	13 Mar 2013 to 1o Sept 2013	Valid
	GW-RS0251-13	11 Mar 2013	26 Mar 2013 to 24 Sept 2013	Valid
	GW-RS0206-13	22 Feb 2013	24 Feb 2013 to 19 Aug 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0269-13	23 Mar 2013	23 Mar 2013 to 19 Sept 2013	Valid
	GW-RS0340-13	28 Mar 2013	10 Apr 2013 to 8 Oct 2013	Valid
	GW-RS0373-13	9 Apr 2013	19 Apr 2013 to 17 Oct 2013	Valid
	GW-RS0437-13	26 Apr 2013	1 May 2013 to 29 Oct 2013	Valid
	GW-RS0467-13	6/5/2013	17 May 2013 to 16 Nov 2013	Valid
	GW-RS0517-13	20/5/2013	27 May 2013 to 26 Nov 2013	Valid
	GW-RS0521-13	20/5/2013	22 May 2013 to 21 Nov 2013	Valid
	GW-RS0530-13	20/5/2013	28 May 2013 to 27 Nov 2013	Valid
	GW-RE0508-13	21/5/2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0525-13	21/5/2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0538-13	21/5/2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0539-13	23/5/2013	6 June 2013 to 5 Dec 2013	Valid
	GW-RS0554-13	23/5/2013	6 June 2013 to 5 Dec 2013	Valid
	GW-RS0586-13	27/5/2013	28 May 2013 to 22 Nov 2013	Valid
	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
5	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
	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 –	EP/MD/13-095	19 Nov 2012	29 Nov 2012 to 28 May 2013	Valid
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	EP/MD/13-139	27 Mar 2013	6 Apr 2013 to 5 May 2013	Valid
Sites) & Type 2 – Confined Marine disposal)	EP/MD/14-009	20 Apr 2013	6 May 2013 to 5 June 2013	Valid



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 2.18	Landscape Plan (Control of Night Time Lighting)	2 June 2010
	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011

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

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter</u> <u>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 Filling and Diaphragm Wall Works at TS4/ME4	GW-RS1191-12	26 Nov 2012	26 Nov 2012 to 11 May 2013	Cancelled
Construction Noise Permit (CNP) for breakwater removal works at Eastern Breakwater of CBTS	GW-RS0325-13	27 Mar 2013	29 Mar 2013 to 27 Sep 2013	Valid
Construction Noise Permit (CNP) for ELS and rock breaking works at TS4/ME4	GW-RS0276-13	19 Mar 2013	19 Mar 2013 to 7 Sep 2013	Cancelled
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	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	25 Mar 2013	17 Apr 2013 to 16 Jul 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/13-097	28 Nov 2012	6 Dec 2012 to 5 Jun 2013	Cancelled
	EP/MD/13-113	22 Jan 2013	24 Jan 2013 to 23 Jul 2013	Valid
Dumping Permit (Type 2 – Confined Marine Disposal)	EP/MD/14-001	16 Apr 2013	20 Apr 2013 to 19 May 2013	Valid
	EP/MD/14-012	10 May 2013	20 May 2013 to 19 Jun 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



FEP Condition	Submission	Date of Submission
	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 2.02	Noise Management Plan	20 Oct 2010
Condition 2.23	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</u> <u>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 are shown in *Table 3.10* and *Table 3.11*.

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	N/A	Valid
	FEP-08/364//2009/A	15 June 2012	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0001-13	3 Jan 2013	6 Jan 2013 to 5 Jul 2013	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0056-13	14 Jan 2013	16 Jan 2013 – 12 Jul 2013	Valid
	GW-RS0444-13	30 Apr 2013	12 May 2013– 3 Nov 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0531-13	24 May 2013	26 May 2013 – 19 Nov 2013	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 November 2011	31 July 2016	Valid`

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

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
	Full 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</u> <u>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



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Construction Noise Permit (CNP) (For D-wall construction) (Portion I, VII, VIII & IX)	GW-RS0286-13	15-Mar-12	14-Sep-13	Cancelled
	GW-RS0503-13	21-May-12	20-Nov-13	Valid
Construction Noise Permit (CNP) (For Bored pile construction at Portion III)	GW-RS0013-13	08-Jan-13	07-Jul-13	Valid
Construction Noise Permit (CNP) (For Watson Road)	GW-RS1230-12	28-Nov-12	25-May-13	Expired
	GW-RS0528-12	26-May-13	24-Nov-13	Valid
Construction Noise Permit (CNP) (For IEC)	GW-RS1210-12	29-Nov-12	28-May-13	Cancelled
	GW-RS0046-13	18-Jan-13	10-Jul-13	Valid
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS0365-13	21-Apr-13	20-Oct-13	Valid
Construction Noise Permit (CNP)	GW-RS0010-13	08-Jan-13	07-Jul-13	Cancelled
(For Portion Vi Marine)	GW-RS0337-13	05-May-13	01-Oct-13	Valid
Discharge Licence (Land)	WT00010093-2011	17 Aug 2012	30-Sept-16	Valid
Discharge Licence (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/13-101	24 Dec 2012	23 May 2013	Expired
	EP/MD/14-013	20 May 2013	29 Jun 2013	Valid

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>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	and/or Licences Reference No.		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
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) & Type 2 – Confined Marine disposal)	EP/MD/14-007	23 May 2013	24 Jun 2013	Valid

Table 3.11Summary of submission status under EP-356/2009 and FEP-06/356/2009Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan	Deposited to EPD on 13 May 2013
Condition 2.9	Silt Screen Deployment Plan	Deposited to EPD on 16 May 2013
Condition 2.23	Noise Management Plan	Deposited to EPD on 22 Apr 2013
Condition 2.24	Landscape Plan	Comments received from ET and responded by CSLJV on 11 Apr 2013. Pending certification by ET and verification by IEC.



4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

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	

Table 4.1	Noise	Monitoring	Station

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.

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

Table 4.2 Real Time Noise Monitoring Station

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}). $L_{eq (30 \text{ minutes})}$ shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time



periods, $L_{eq (5 minutes)}$ shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

- 4.1.6. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.7. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

- 4.1.8. As referred to in the Technical Memorandum [™] issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.9. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

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

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
СМАЗа	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

Table 4.3 Air Monitoring Station



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

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m3 per minute adjustable flow range;
 - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406 cm2;
 - flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - equipped with a shelter to protect the filter and sampler;
 - incorporated with an electronic mass flow rate controller or other equivalent devices;
 - equipped with a flow recorder for continuous monitoring;
 - provided with a peaked roof inlet;
 - incorporated with a manometer;
 - able to hold and seal the filter paper to the sampler housing at horizontal position;
 - easily changeable filter; and
 - capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS



- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
 - be at least 16 years of age;
 - be free from any respiratory illnesses; and
 - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
 - before and during odour patrol
- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in <u>Figure 4.1</u> 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 <u>Appendix 6.1.</u>
- 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.

Station Ref.	Location	Easting	Northing	
WSD Salt Water Int	WSD Salt Water Intake			
WSD7	Kowloon South	834150.0	818300.3	
WSD9	Tai Wan	837921.0	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	Wan Chai (Reprovision)	836188.8	815911.1	
Cooling Water Inta	Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0	

 Table 4.4
 Marine Water Quality Stations for Water Quality Monitoring



Station Ref.	Location	Easting	Northing
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
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

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.

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



Monitoring Frequency ¹	Parameters ²
Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
	Three days per week, at mid-flood and mid-ebb tides Three days per week, at

1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Turbidity should be measured in situ whereas SS should be determined by laboratory. DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
 - a temperature of 0-45 degree Celsius
- 4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

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

SAMPLER

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

SAMPLE CONTAINER AND STORAGE

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

WATER DEPTH DETECTOR

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



<u>SALINITY</u>

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* <u>4.1</u>.

 Table 4.6
 Marine Water Quality Stations for Enhanced Water Quality Monitoring

Station Location	
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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. The proposed DO monitoring stations of the Project are shown in *Table 4.7* and *Figure 4.1*.

Station	Easting	Northing
А	835468	815857
В	835572	815961
С	835659	816271

 Table 4.7
 Marine Water Quality Stations for Additional DO Monitoring

4.3.28. The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed,



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except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).



5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
 - Contract no. HK/2009/01 Wan Chai Development Phase II Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
 - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
 - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
 - Contract no. HK/2010/06 Wan Chai Development Phase II Central-Wan Chai Bypass over MTR Tsuen Wan Line
 - Contract no. HY/2009/19- Cental- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

<u>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</u>

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

Table 5.2Noise Monitoring Station for Contract nos. HK/2009/01, HK/2009/02 andHK/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*

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



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

Station	Description
M2b	Noon Gun Area
МЗа	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 <u>Appendix 5.2</u>

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.

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

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

- 5.1.7. Three limit level exceedances were recorded on 2, 7 and 21 May 2013 at M6 HK Baptist Church Henrietta Secondary School in the reporting month.
- 5.1.8. Major traffic noise observed during monitoring on 2, 7 and 21 May 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> <u>5.2.</u>

5.2 Real-time Noise Monitoring

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

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 exceedance was recorded at RTN2a-Electric Centre during restricted hours on 20 May 2013 and during daytime on 21 May 2013. After checking with contractor, no construction work was conducted 20 May 2013 at the concerned location during the recorded period and no major noisy construction work was conducted at the concerned location on 21 May 2013. The exceedances were non-continuous and considered to be contributed by near by IEC traffic.
- 5.2.5 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

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

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

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 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.
- 5.3.2. Due to lack of electricity supply, the 24hr-TSP monitoring at the following stations were rescheduled:

CMA3a: from 1 May 2013 to 2 May 2013 CMA4a: from 18 May 2013 to 20 May 2013

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

5.3.3. 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 5.7Air Monitoring Stations for Contract no. HK/2009/01



Station	Description	
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	
CMA6a	WDII PRE Site Office	

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

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

5.3.4. 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 5.8Air 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</u> <u>Shelter Section)</u>

5.3.5. 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 5.9Air Monitoring Station for Contract no. HY/2009/15

Station	Description
СМАЗа	CWB PRE Site Office

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

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

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

 Station
 Description

 CMA1b
 Oil Street Site Office

 CMA2a
 Causeway Bay Community Centre

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



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

5.4 Water Monitoring Results.

- 5.4.1. 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
- 5.4.2. 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 remain unchanged.
- 5.4.3. 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.
- 5.4.4. 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;
- 5.4.5. 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.
- 5.4.6. 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.
- 5.4.7. 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.
- 5.4.8. 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.
- 5.4.9. 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.

- 5.4.10. 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.
- 5.4.11. 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.
- 5.4.12. 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.
- 5.4.13. 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.

5		Relevant Water Monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/01	WCR3	C1 ¹	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 ¹	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 ³ , P3 ³ , P4 ³ , P5 ³	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6 ⁴ , C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring described in 4.6.3)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6 ⁴ , C7 (plus enhanced DO monitoring described in 4.6.3)	Mar 2014

 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

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.

-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.

⁻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.



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

5.4.14. 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.

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 In	ntake	·		
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	

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

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

5.4.15. 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



Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2	
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2	

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 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> <u>MTR Tsuen Wan Line</u>

5.4.16. 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.

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

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

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

- 5.4.17. 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.
- 5.4.18. 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.
- 5.4.19. 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 5.15Water Monitoring Stations for Contract no. HY/2009/15

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.

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



Eastern Corridor Link

- 5.4.20. 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.
- 5.4.21. 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.

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

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

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

- 5.4.22. 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.
- 5.4.23. 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.
- 5.4.24. 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.
- 5.4.25. 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.
- 5.4.26. 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 <u>Appendix 5.4</u>.



	Water			Mid-f	lood					Mid-	ebb		
Contract no.	Monitoring	D	0	Turb	oidity	S	S	D	0	Turb	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	0	0	0	0
	C5w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on	WSD21	1	0	0	0	1	0	0	0	0	0	1	0
8 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	1	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		1	0	0	0	2	0	0	0	0	0	1	0

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

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
- 5.4.27. Investigation found that one SS exceedance which was works-related Contract no. HK/2009/02.The remaining exceedance was concluded as non-project-related. The details of the recorded exceedances can be referred to the **Section 6.4**.
- 5.4.28. 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 5.18Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting Month

		Mid-flood		Mid-ebb	
Contract no.	Water Monitoring Station	DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0



Contract Water Monitoring		Mid-f	lood	Mid-ebb	
Contract no.	Water Monitoring Station			DO	
		AL	LL	AL	LL
	C7	0	0	0	0
	Ex-WPCWA SW	0	3	0	1
	Ex-WPCWA SE	1	3	0	1
Total		1	6	0	2

- 5.4.29. There were 1 action level exceedances and 8 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**.
- 5.4.30. 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 since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II 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 since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II 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.
- 5.5 Waste Monitoring Results

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

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.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	5427.70	27806.915	TKO137, TM38
Inert C&D materials recycled, m ³	0	5104.5	N/A
Non-inert C&D materials disposed, m ³	34.18	1314.98	SENT Landfill
Non-inert C&D materials recycled, kg	0	151143	N/A
Chemical waste disposed, kg	150	9450	N/A

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
*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 marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

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.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	1544.6	233232.78	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	36.38	898.57	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	700	7436	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	2086	184167 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	0	129320 (Bulk volume)	East of Sha Chau

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



5.5.4. There are 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.

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

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*

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), m ³	0 (Bulk Volume)	100208 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	0 (Bulk Volume)	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	1750 (Bulk Volume)	7850 (Bulk Volume)	East of Sha Chau

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

5.5.6. There was marine sediment Type 2 – Confined Marine Disposal was disposed of in this reporting month.

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

5.5.7. 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
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Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
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Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	6.4	12087.8	TM38
Inert C&D materials recycled, m ³	NIL	267	HK/2009/01
Non-inert C&D materials disposed, m ³	22.53	184.48	SENT/TKO137SF
Non-inert C&D materials recycled, T	0	60.58	Recyclers
Chemical waste disposed, L	0	2200	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 was 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 and recycled in this reporting month. Details of the waste flow table are summarized in *Table 5.23*.

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	6226.36	183323.17	TM38
Inert C&D materials recycled, m ³	21614.27	40867.72	N/A
Non-inert C&D materials disposed, m ³	28.71	343.54	N/A
Non-inert C&D materials recycled, kg	14.45	239.22	N/A
Chemical waste disposed, L	0	0.46	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	79	162	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	0	681	East Sha Chau

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

5.5.10. There was 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.



6. Compliance Audit

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

6.1 Noise Monitoring

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

6.1.1 No exceedance was recorded in the reporting month.

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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

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</u> <u>Eastern Corridor Link</u>

6.1.1. Three limit level exceedances were recorded on 2, 7 and 21 May 2013 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Investigations found that on 2, 7 and 21 May 2013, major traffic noise was contributed in the noise monitoring and exceedances were not related to the Project.

6.2 Real-time noise Monitoring

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

6.1.2. Non project related limit level exceedance was recorded at RTN2a- Electric Centre on 20 and 21 May 2013. Investigation found that exceedances were contributed by IEC traffic.

6.3 Air Monitoring

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

6.2.1. No exceedance was recorded in the reporting month.

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

6.2.2. No exceedance was recorded in the reporting month.



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

6.3.1 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 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

- 6.4.2 There were SS exceedances recorded at WSD21 on 29 April 2013 during ebb tide. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. Muddy water from a misplaced discharge pipe was accidentally discharged near sampling location WSD21 outside well A resulting in seepage of muddy water through the sheet pile wall into well A. Seepage of muddy water at the sheet pile wall into well A was unavoidably collected during monitoring. The exceedance was considered as works related.
- 6.4.3 There were DO and SS exceedances recorded at WSD21 on 21 and 22 May 2013 during flood tide. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. The exceedance was considered as natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.4 There was SS exceedance recorded at WSD17 on 9 May 2013 during flood tide. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. The exceedance was considered as natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.

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

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

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

6.4.6 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

6.4.7 No exceedance was recorded in this reporting month.

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

- 6.5.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.5.2 No project-related non-compliance from monitoring was recorded in the reporting month.

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

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



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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 (April 2013) of Central Reclamation Phase III (CRIII), Installation of cable wall at PLA berth, footpath construction and Modification to the junction of Road D8 and Road P2 were performed in the May 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 at TS4 and deep excavation at TPCWAE TCBR1W. Excavation and tunnel works at Central Interchange, ELS and box culvert construction at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activities were diaphragm wall construction at TS2, ELS work at TS4, deep excavation at TPCWAE TCBR1W, tunnel works at Central and ELS work at North Point and tunnel works at Wan Chai East in the reporting month.
- 7.0.4. The major environmental impacts generated from tunnel works at Central and tunnel works at Wan Chai East, IECL and Causeway Bay Typhoon Shelter were undertaken in the reporting month. No significant air impact from construction activities was anticipated in the reporting month. Besides, there was works-related limit level exceedance during water quality monitoring event in the reporting month and rectification measures have been implemented by contractor. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HK/2010/06, HY/2009/19 and HK/2012/08. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HK/2009/01 was carried out on 2, 8, 16 and 22 May 2013 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

ltem	Date	Observations	Action taken by Contractor	Outcome
130508_01	8-May-13	Haul road should be keep clean(Expo. Drive Central)	was cleaned.	Completion as observed on 16 May 13

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

- 8.0.3. Four site inspections for Contract no. HK/2009/02 was carried out on 2, 9, 16 and 23 May 2013 during this reporting period. No observation is found in the reporting month
- 8.0.4. Four site inspections for Contract no. HY/2009/15 was carried out on 30 April 2013, 7, 14 and 22 May 2013 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.2*.

ltem	Date	Observations	Action taken by Contractor	Outcome
130430_01	30-Apr-13	Floating up silt curtain leading to dispersion of muddy water to nearby water (Eastern Breakwater)	Silt curtain was properly deployed	Completion as observed on 7 May 2013.
130507_01	7-May-13	Clear the stagnant muddy water	Stagnant muddy water was removed.	Completion as observed on 14 May 2013.
130514_01	14-May-13	Drip tray should be provided to oil drums. (TS2)	Oil drums were removed.	Completion as observed on 22 May 2013
130522_01	22-May-13	Tarpaulin sheet should be provided for barge during transfer of mud. (TS2)	Tarpaulin sheet was provided at the transfer location.	Completion as observed on 28 May 2013

 Table 8.2
 Summary of Environmental Inspections for Contract no. HY/2009/15

8.0.5. Five site inspections for Contract no. HK/2010/06 was carried out on 29 April 2013, 6, 16 and 20 and 27 May 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. HK/2010/06

ltem	Date	Observations	Action taken by Outcome
			Contractor



ltem	Date		Action taken by Contractor	Outcome
130520_01		,	container have	Completion as observed on 27 May 2013

8.0.6. Four site inspections for Contract no. HY/2009/19 was carried out on 3, 8, 15 and 22 May 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

ltem	Date		Action taken by Contractor	Outcome
130503_01	,	Tighten the acoustic balnket surrouding marine pier works area to avoid gap	blanket was	Completion as observed on 8 May 2013

8.0.7. Four site inspections for Contract no. HK/2012/08 was carried out on 30 April 2013, 7, 14 and 21 April 2013 in this reporting period. No observation is found in the reporting month.



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
May 2013	0
Project-to-Date	28

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



10. Conclusion

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others were remains unchanged.
- 10.0.3. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 10.0.4. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 10.0.5. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 were implemented with respect to HK/2009/02 for the water quality monitoring scheduled on 8 Feb 12 onwards;
- 10.0.6. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 10.0.7. Water quality monitoring at C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013, and conclude if any water deterioration had been identified during the 4-week water quality monitoring.
- 10.0.8. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 10.0.9. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.



- 10.0.10. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 10.0.11. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui- DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.
- 10.0.12. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	Marine Works	To conform the installation and
	• Filling works up to +4.0mPD.	setting as in the silt screen deployment plan
	Additional pre-bored H-pile for	 Frequency spray water on the dry
	construction of steel bridge over	dusty road and on the surface of
	temporary open channel	concrete breaking
	between CH220 and CH260.	To cover the dusty material or stockpile by impervious sheet
	Construction of mass concrete	• To space out noisy equipment and
	coping for new seawall.	position as far as possible from sensitive receiver.
	Installation of ELS for	To well maintain the mechanical
	construction of proposed box	equipments / machineries to avoid
	culvert Bay 8 and Bay 9.	abnormal noise nuisance.
	Subsequent Box Culvert	Machines and plant that may be in intermittent use should be shut
	construction for Bay 8 & 9 would	down between work periods or
	be carried out upon completion	should be throttled down to a minimum
	the ELS.	Daily visual inspection of silt

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

- Backfilling to temporary water channel for subsequent demolition of promenade deck and pumping station at HKCEC Water Channel.
- Defect rectification works for submarine pipeline A and pipeline B (removal of silt)
 - Testing and commissioning for

screen and silt curtain to ensure its

operation properly



Contract No.	Key Construction Works	Recommended Mitigation Measures
	ICCP monitoring system.	
	Connection of pipeline D to	
	existing mains at Wan Chai.	
	Connection of Pipeline C to	
	exiting mains at Wan Chai.	
	Connection of Pipeline F to	
	exiting mains at TST.	
	Disconnection and capping to	
	existing mains at TST.	
	Fresh Watermains, Cooling	
	Watermains and Salt Watermains	
	(On Land)	
	• Works at Zone B6-1B, B6-2A,	
	B6-4, B6-5B, A1-5C, A3-3C,	
	C1-2 and X2-1.	
	• Reinstatement works at A2-3A.	
	Mainlaying works at A1-5C.	
	Mainlaying works in Zone C1-2	
	when 2 nos. trees at the existing	
	planter has been transplanted off	
	site.	
	Proposed sewerage system and	
	reinstatement works at north and	
	west of HKCEC Area.	
	Mainlaying works at Zone X2-1	
	when instruction from the	
	Engineer has been received.	
	Temporary ducting and cabling	
	works at junction between Expo	
	Drive East and Expo Drive	
	Central.	
	Temporary ducting and cabling	
	works at junction between	
	Convention Avenue and Fleming	
	Road.	
	• Mainlaying works at Zone A4-1B.	



Contract No.	Key Construction Works	Recommended Mitigation Measures
	• Mainlaying works at Zone A5-2.	
	Tunnel Works	
	Installation of pre-bored H-pile in	
	CWB Stage 1B under the atrium	
	link (from Ch80 to Ch220).	
	Installation of pre-bored H-pile in	
	CWB Stage 1B under the atrium	
	link (from Ch120 to Ch220)	
	would be commenced upon	
	completion of piling works in	
	CWB Stage 1B.	
	3rd Piling rig for pre-bored H	
	piling works under atrium would	
	be mobilized to Site.	
	CWB diaphragm wall	
	construction under the atrium	
	link.	
	Construction of bulkhead Wall at	
	Ch120.	
	Pre-drilling works for CWB	
	(Stage 3).	
	Demolition of the promenade	
	deck and pumping stations at	
	HKCEC Water Channel.	
	E&M Works	
	Full commissioning for Cooling	
	Water Pumping Station P5.	
HK/2009/02	Construction of pile caps and the	• To cover the dusty material or
	subsequent mainlaying works for	stockpile by impervious sheet;
	rectifying the subsided intake	 Frequency spray water on the dry dusty road and on the surface of
	pipes for both GE/HC and SHK	concrete breaking
	cooling water system.	To well maintain the mechanical aguinments (machinerics to avoid
	DN800 salt watermins (CHS8A)	equipments / machineries to avoid abnormal noise nuisance and dark
	installation and backfilling works	smoke emission
	inside Ex-pet Garden.	To conform the installation and setting as in the silt screen and silt



	Contract No.	Key Const	truction Works	Re	commended Mitigation Measures				
		Subse	equent construction of Bay		curtain deployment plan				
		1B an	id Bay 2B Intake Culvert.	•	Movable noise barrier shall be deployed for demolition works				
		All ma	ainlaying works and prepare	•	Daily visual inspection of silt				
		for co	nnection with the existing		screen and silt curtain to ensure its				
		DN60	0 salt watermains at Hung		operation properly				
		Hing I	Road.	•	Review silt screen deployment and silt curtain deployment and				
		• Leaka	age test for the installed		resubmit associate plans to EPD				
		stoplo	og at Bay 2A of Intake	•	Implement silt screen and silt curtain in accordance with the				
		Culve	rt and bulkhead demolition		associated plans submitted to				
		works	ð.		EPD.				
		Synth	etic woods and façade						
		works	for the external wall of						
		WSD	Salt Water Pumping						
		Statio	n.						
		Backf	illing to Bay 6 to Bay 11 of						
		Intake	e Culvert.						
		Const	truction of Bay 4 Box						
		Culve	ert N1.						
		• Water	r plug installation works at						
		Bay5/	Bay6 interface.						
		• ABWI	F in Ferry Pier, included						
		comm	nencement of glass curtain						
		wall ir	nstallation at Level 2.						
		Instal	lation of moveable ramp						
		syste	m included the						
		comm	nencement of ramp						
		install	ation						
		Cano	py installation and continue						
		water	proofing works on						
		Obse	rvation Deck.						
		Lift in:	stallation at Ferry Pier.						
		Const	truction of Eastern						
		Bulkh	ead wall.						
		Placir	ng temporary rock mound						
		and le	eveling stone installation for						
		temp	seawall construction at						
		WCR	4 & TWCR4.						



Contract No.	Key Construction Works	Recommended Mitigation Measures
	 Precast concrete seawall installation at WCR4 & TWCR4. All backfilling and road reinstatement works at Hung Hing Road & WSS for successful implementation of HHR Flyover Diversion (Stage 1) 	
HY/2009/15	Construction of EVA	 Daily visual inspection of silt screen and silt curtain to ensure its operation properly Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.
HK/2010/06	 Sheet Piling Works Road opening works Road resurfacing 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 Construction works for Box Culvert T1 Construction works for Culvert U1 Demolition of parapet at IEC Link Construction of dewatering well for Cut & Cover Tunnel Removal of marine platform Construction of pile cap, column & cross head (Marine) ELS for Cut & Cover Tunnel Laying of 1500¢ pipe Launching of segments Unloading segments from derrick Extraction of temporary pile from 	To conform the installation and setting as in the silt screen and silt curtain deployment plan

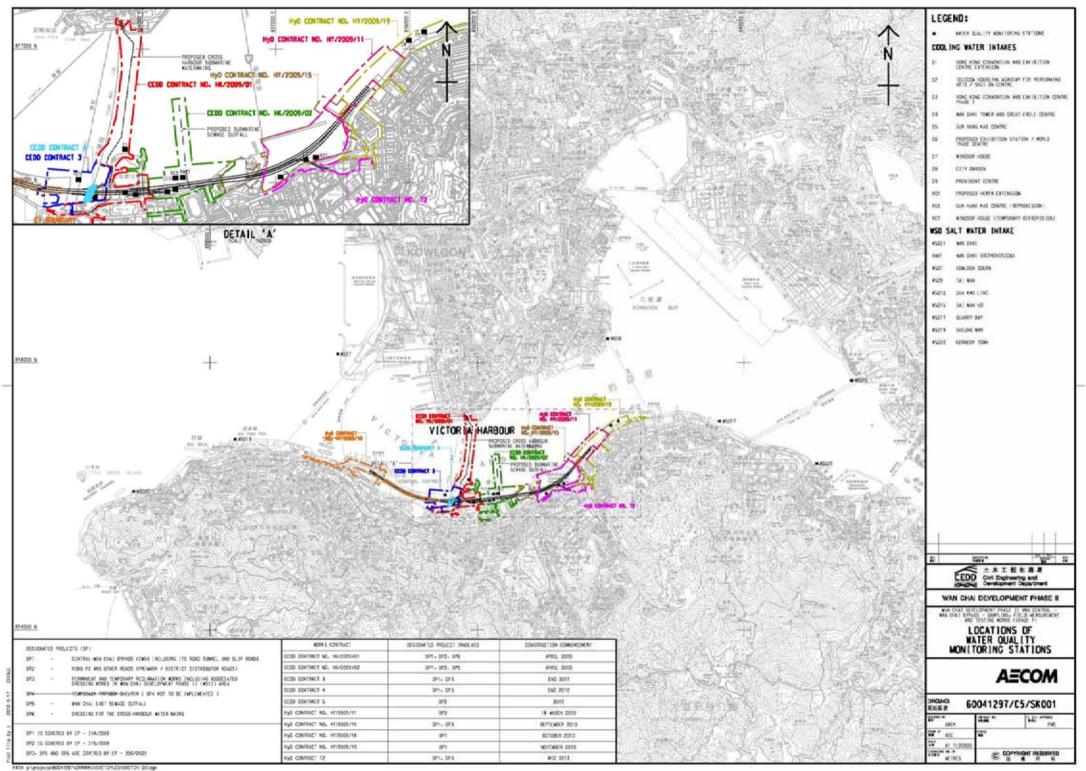


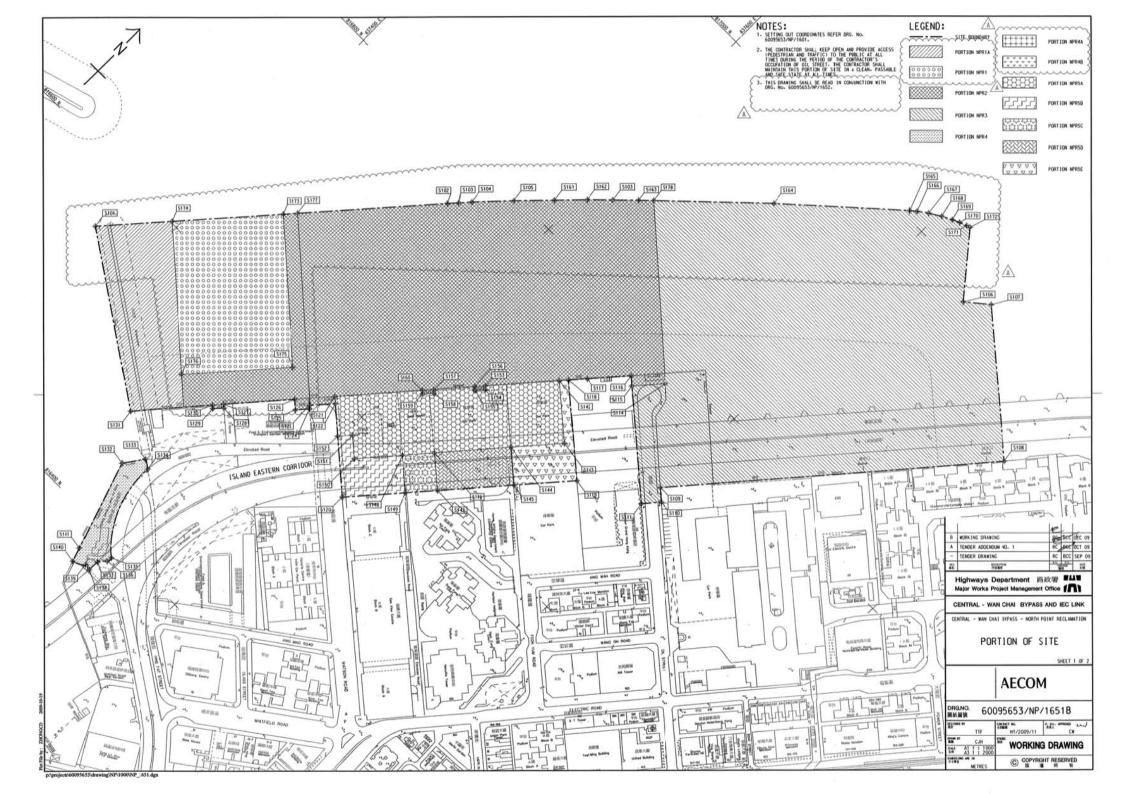
Contract No.	Key Construction Works	Recommended Mitigation Measures
	marine section	
HK/2012/08	Hoarding erectionMarine ground investigationDredging	• To conform the installation and setting as in the silt screen and silt curtain deployment plan
	Demolition of the existing Expo Drive West Bridge	

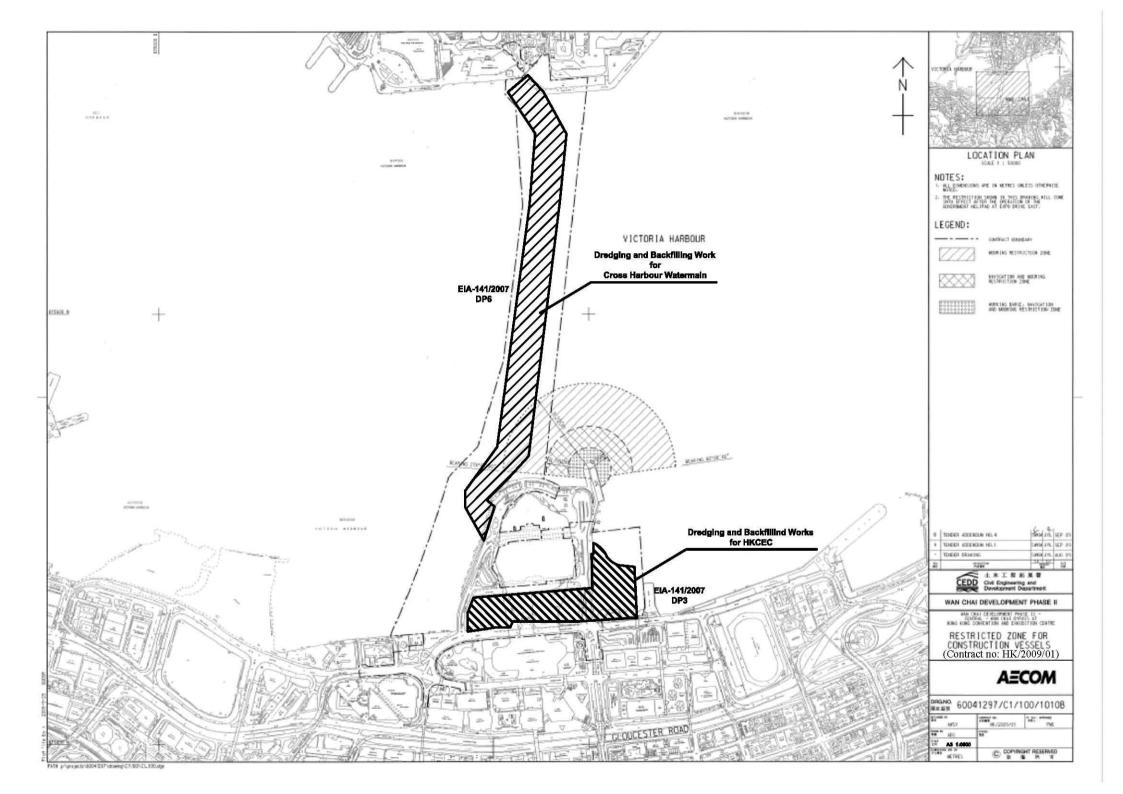


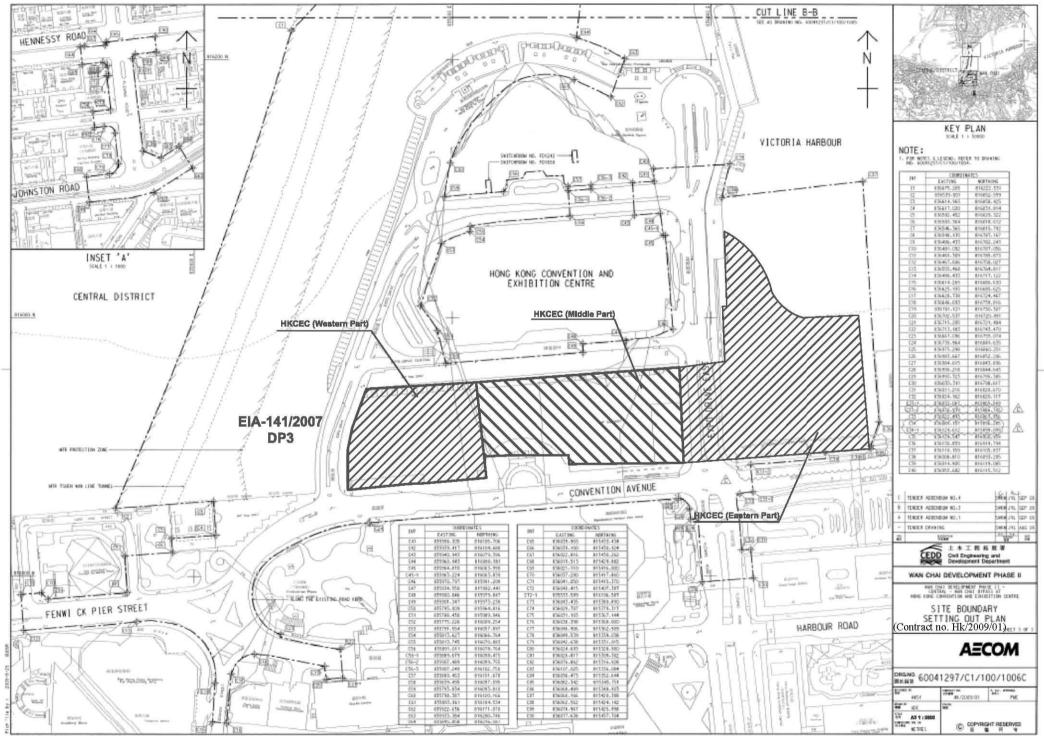
Figure 2.1

Project Layout

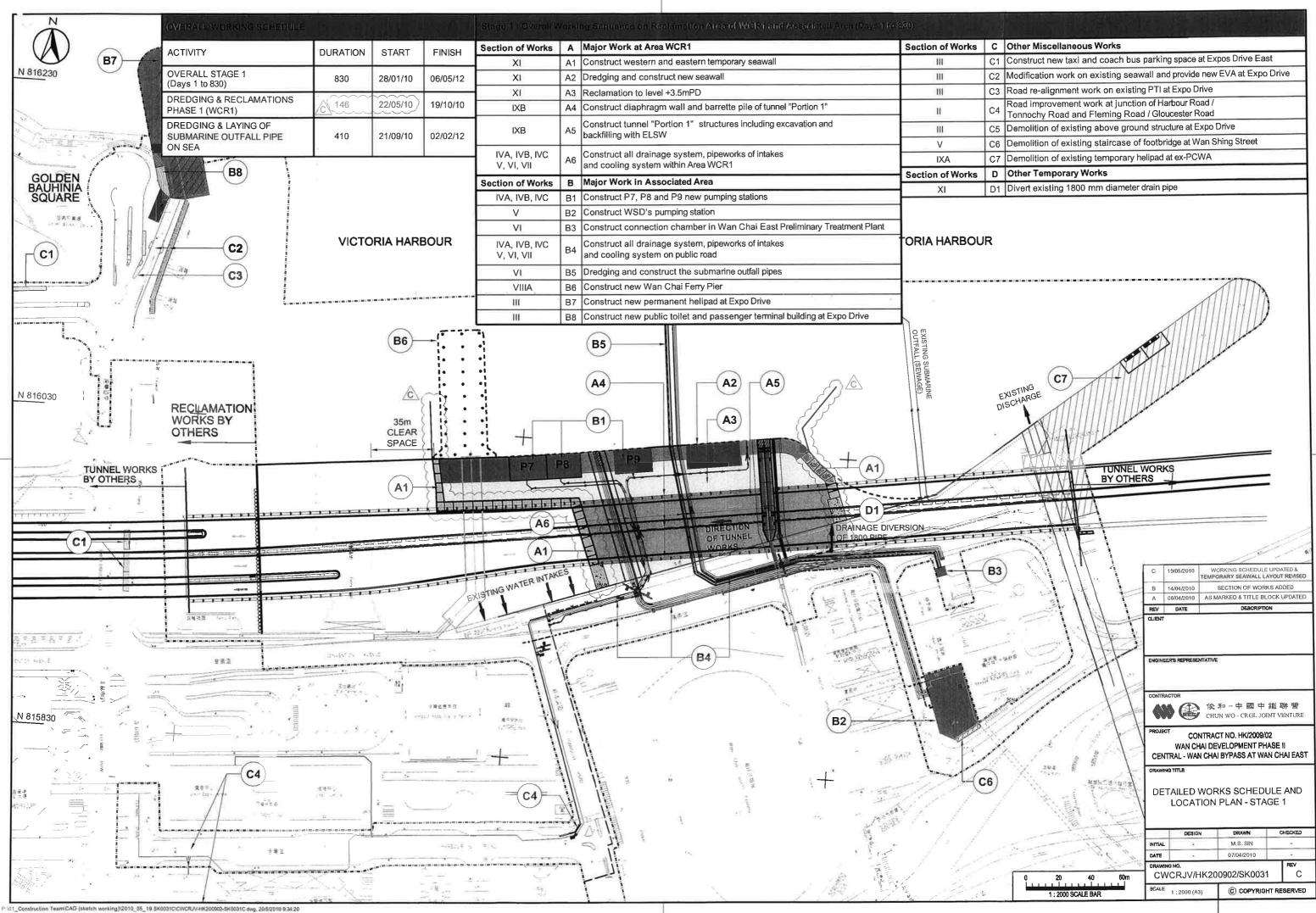




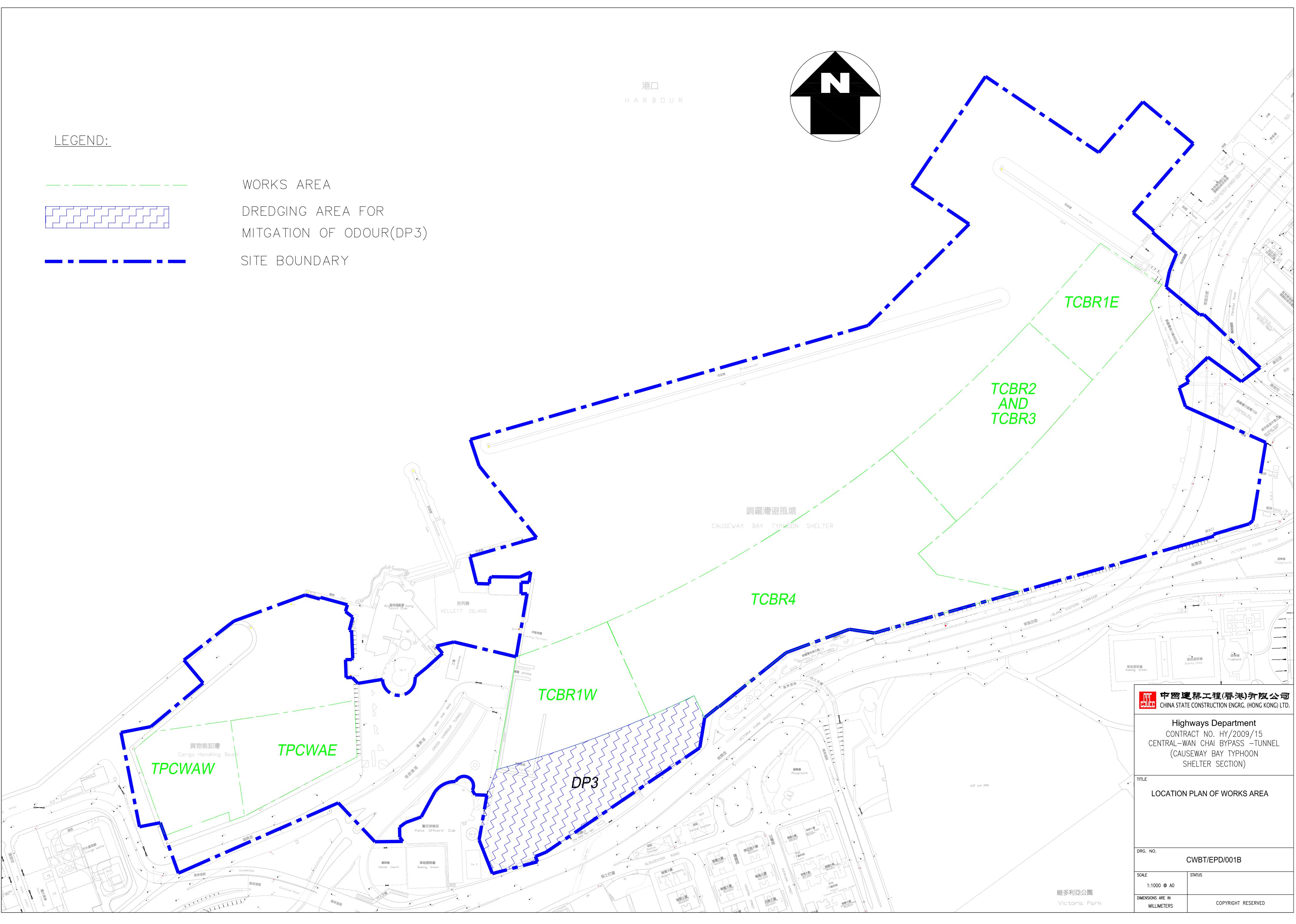


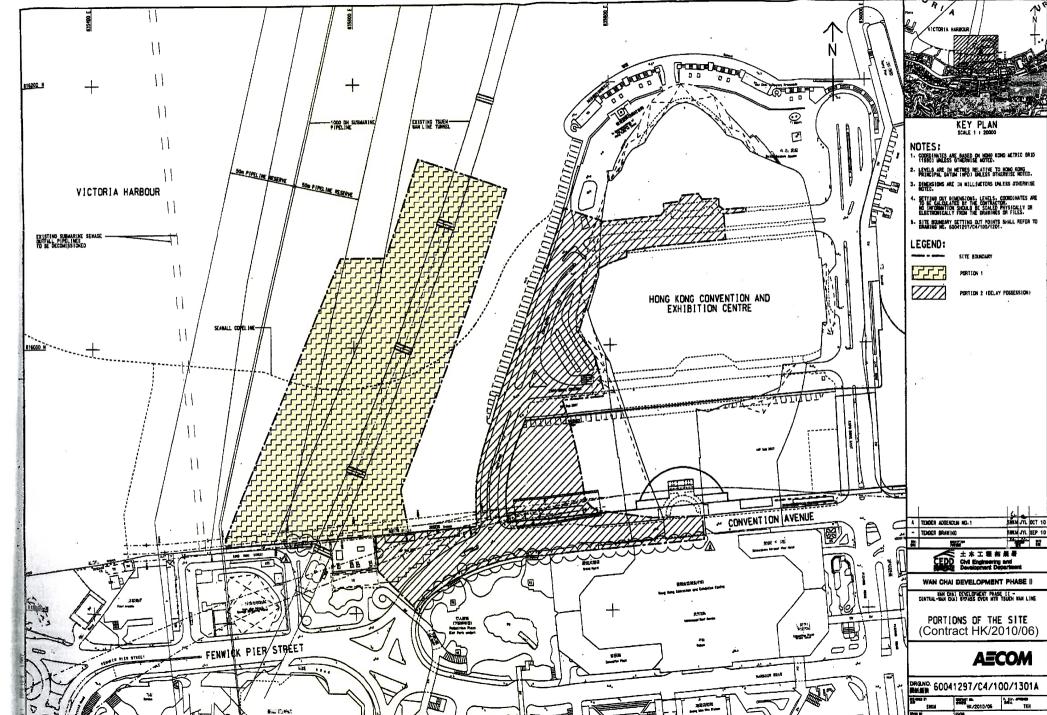


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С	Other Miscellaneous Works
C1	Construct new taxi and coach bus parking space at Expos Drive East
C2	Modification work on existing seawall and provide new EVA at Expo Drive
C3	Road re-alignment work on existing PTI at Expo Drive
C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
C5	Demolition of existing above ground structure at Expo Drive
C6	Demolition of existing staircase of footbridge at Wan Shing Street
C7	Demolition of existing temporary helipad at ex-PCWA
D	Other Temporary Works
D1	Divert existing 1800 mm diameter drain pipe





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Figure 2.2

Project Organization Chart



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

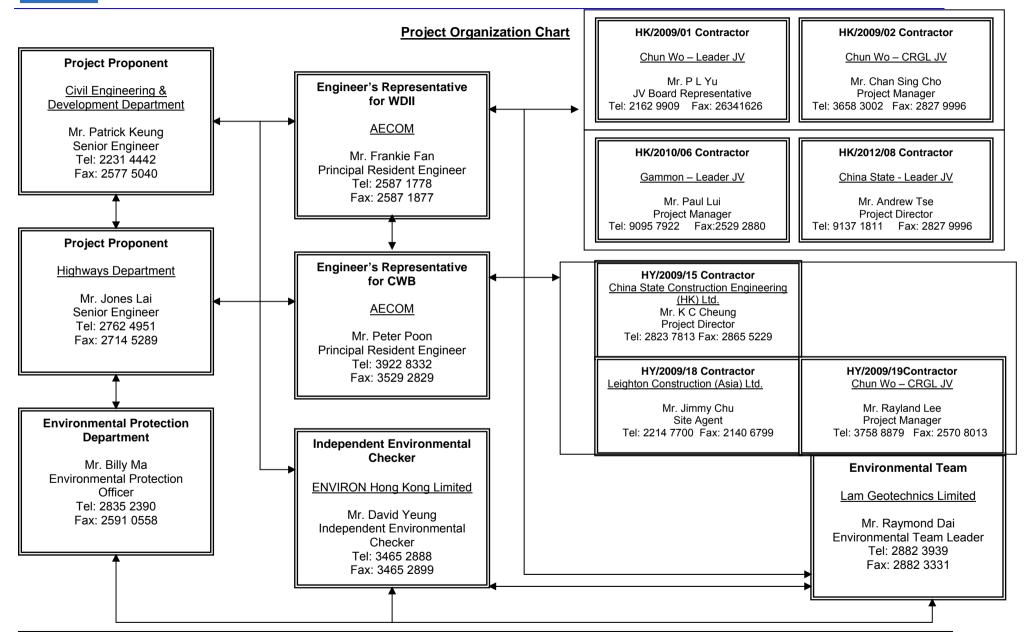
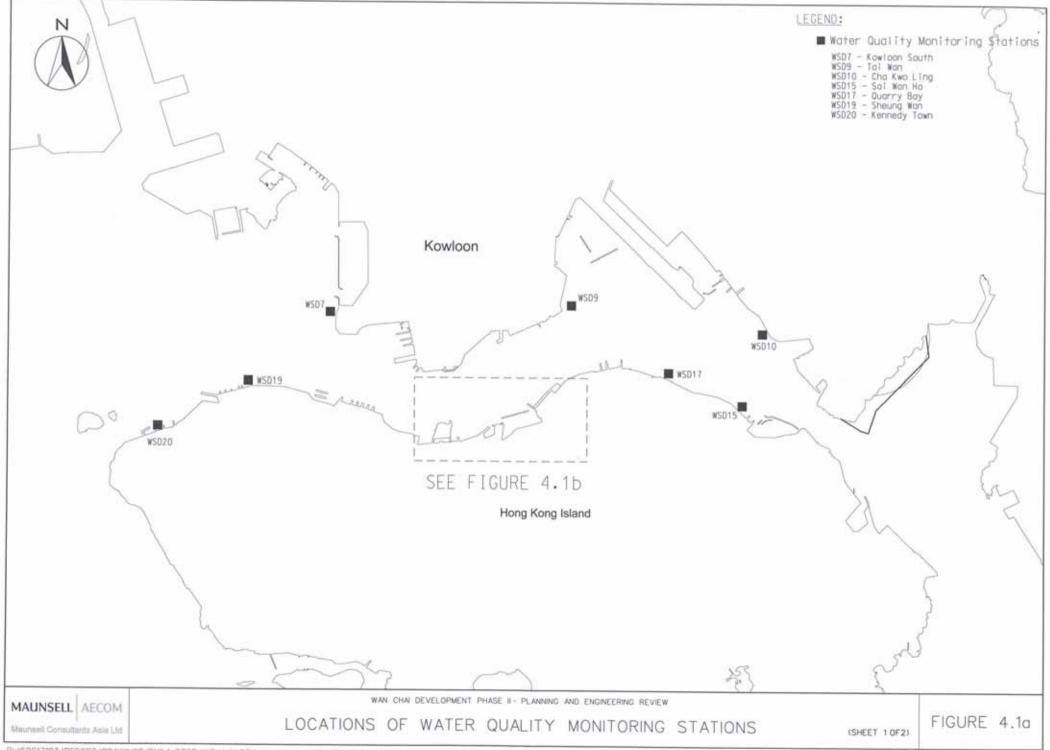




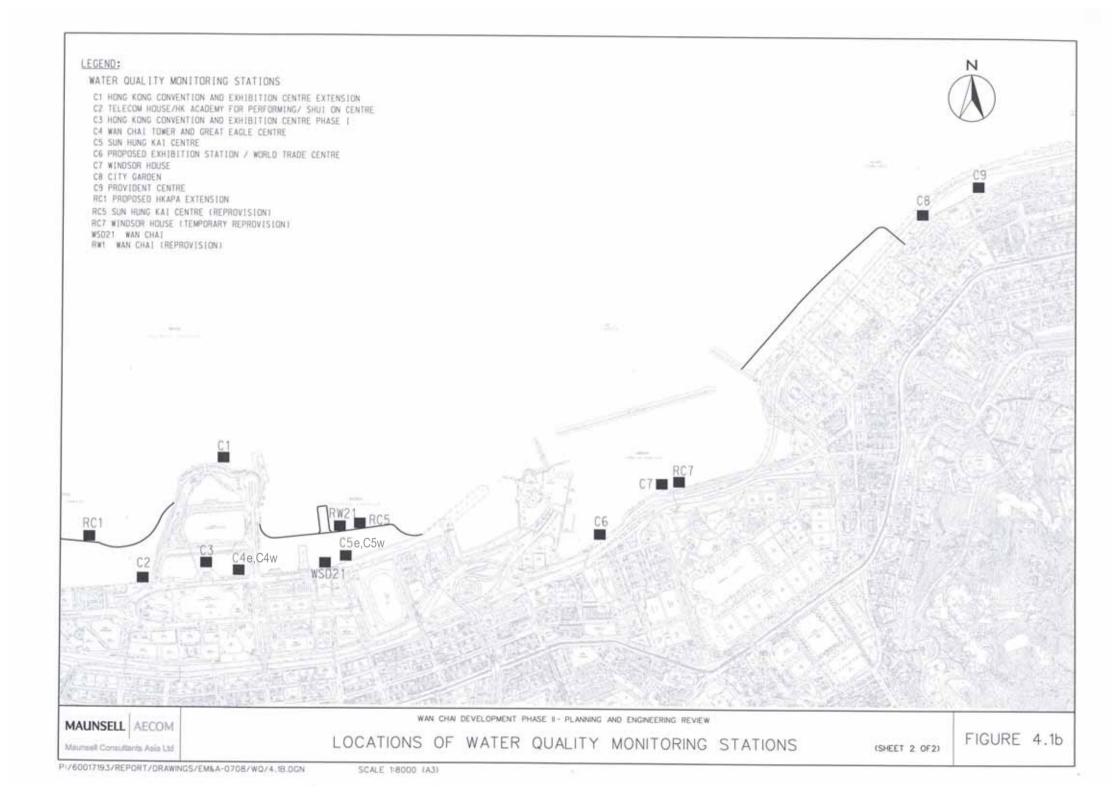
Figure 4.1

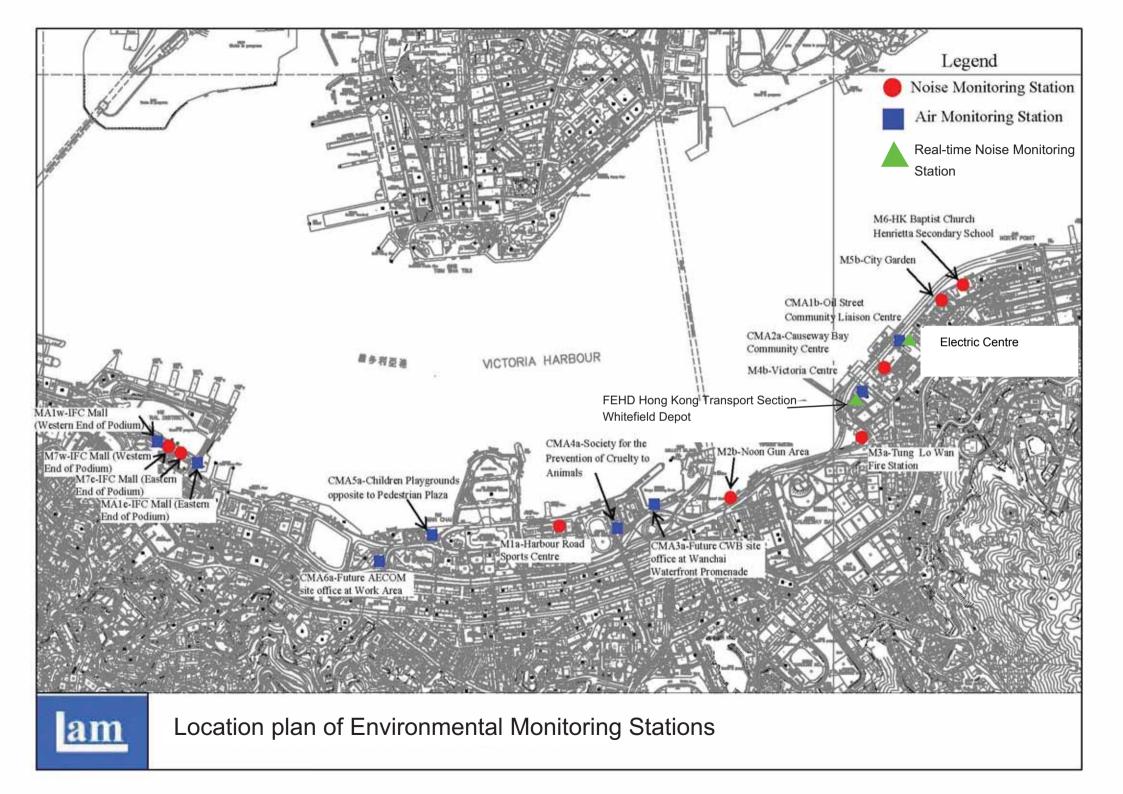
Locations of Monitoring Stations

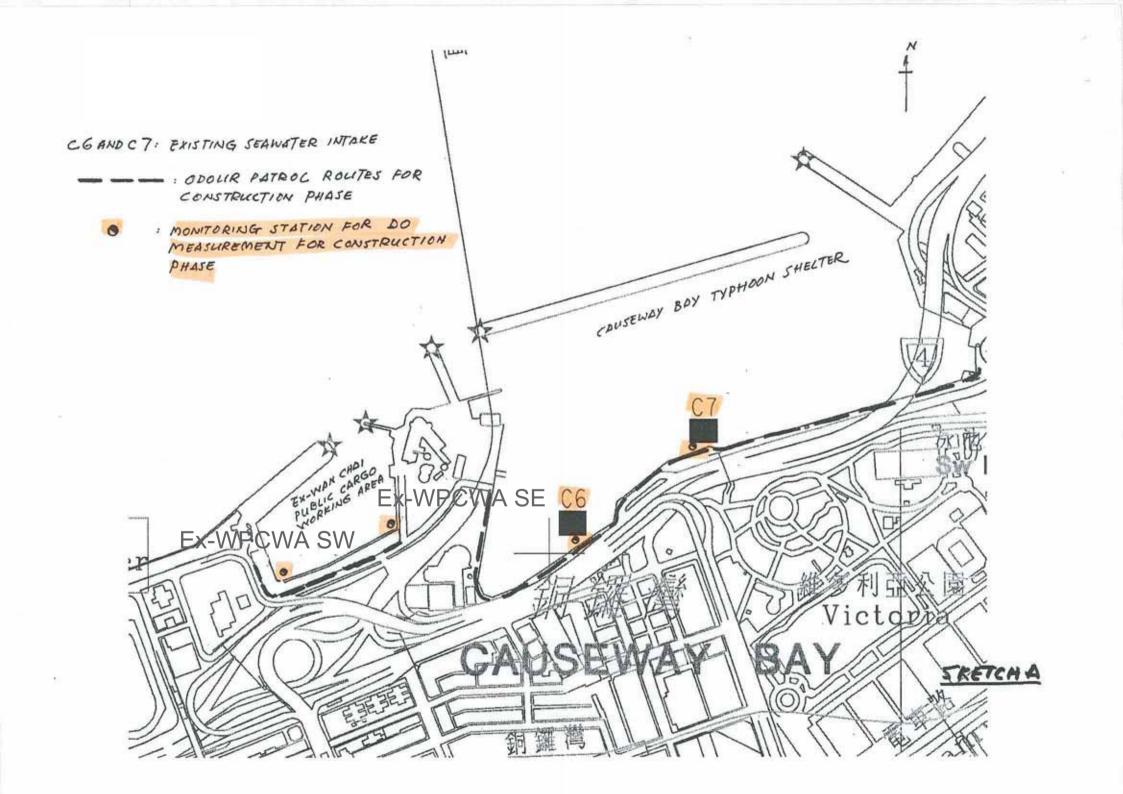


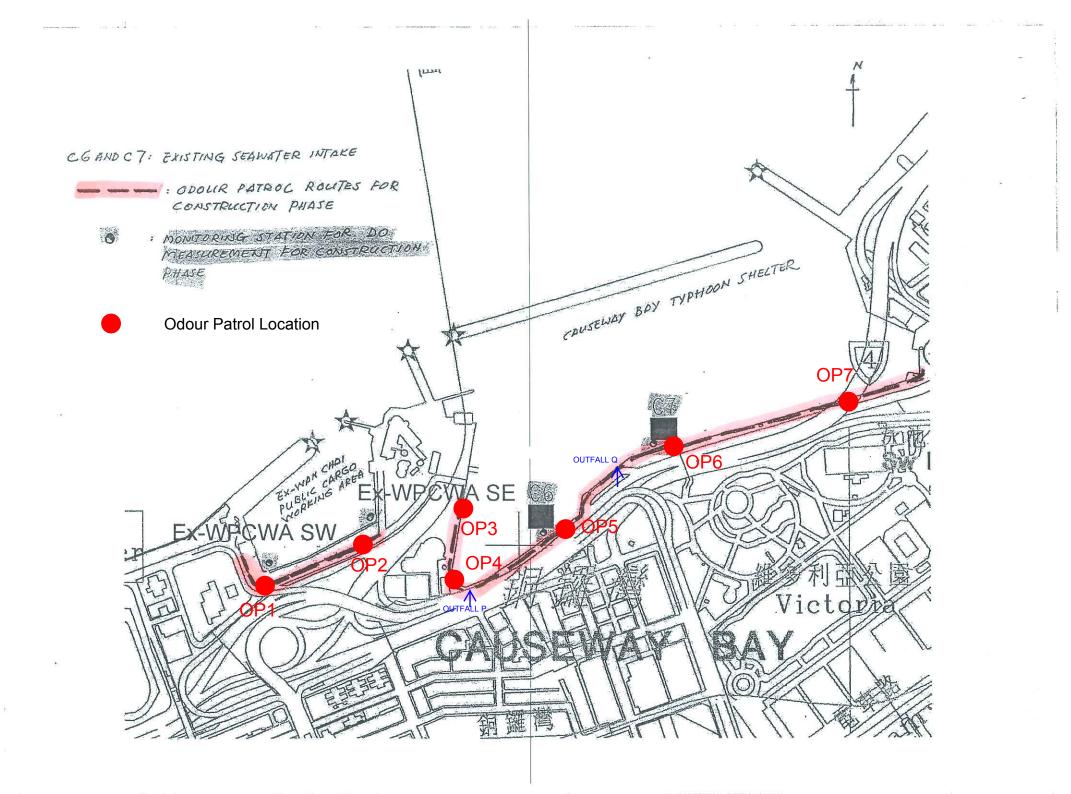
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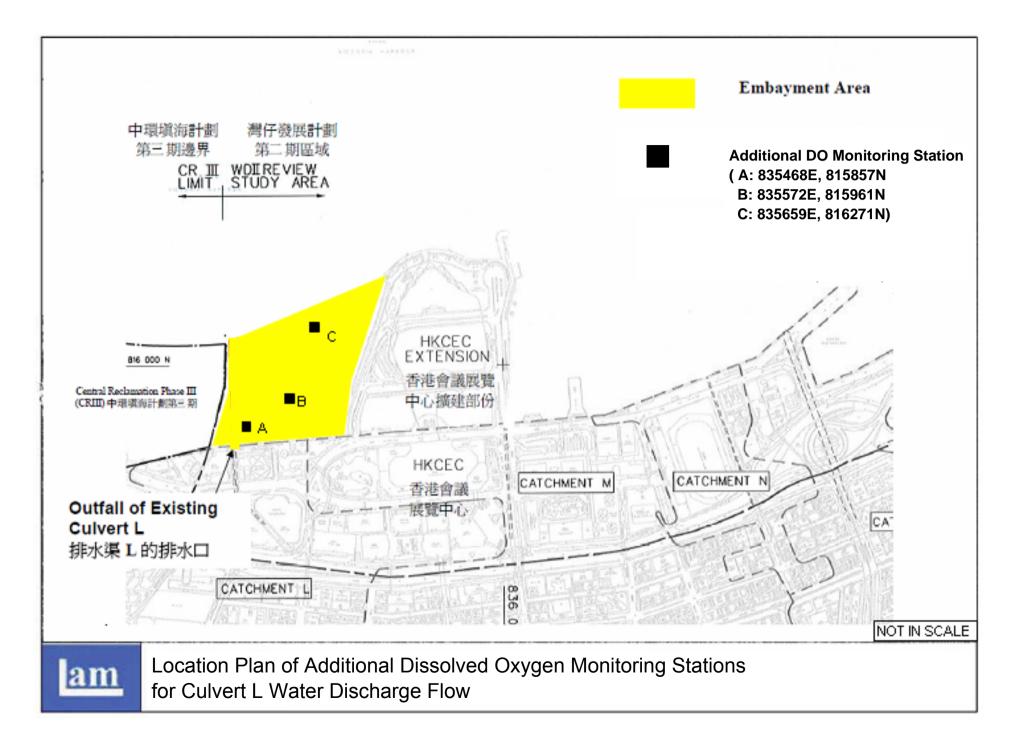
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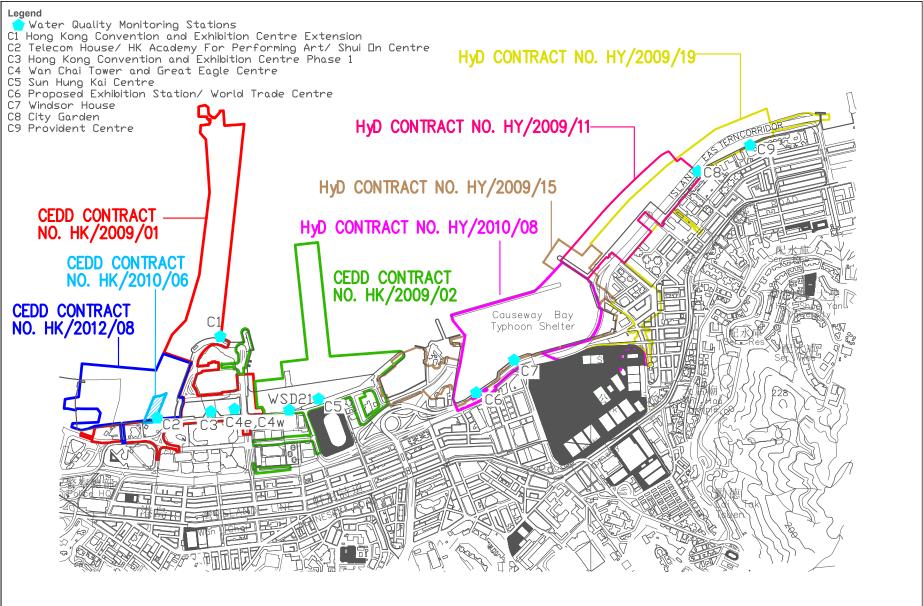




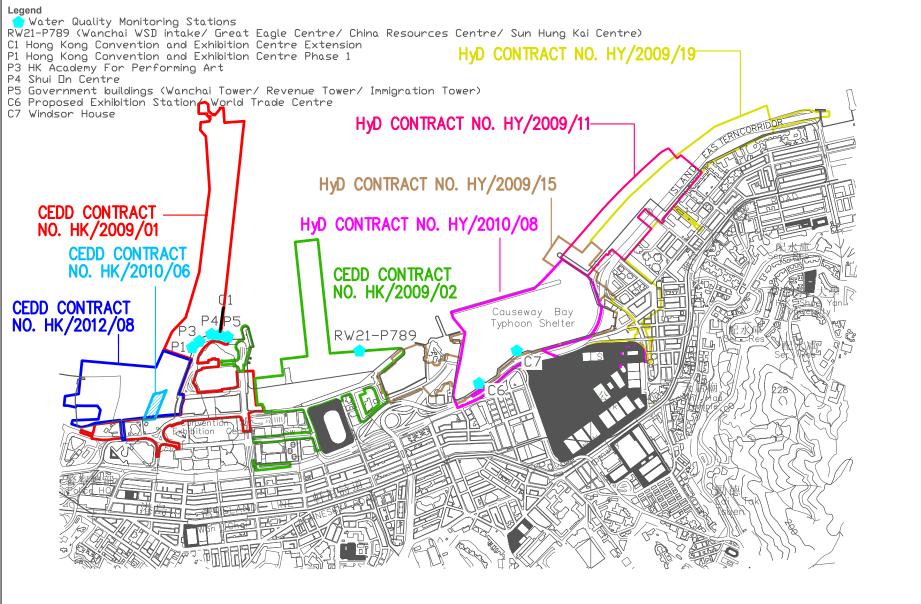




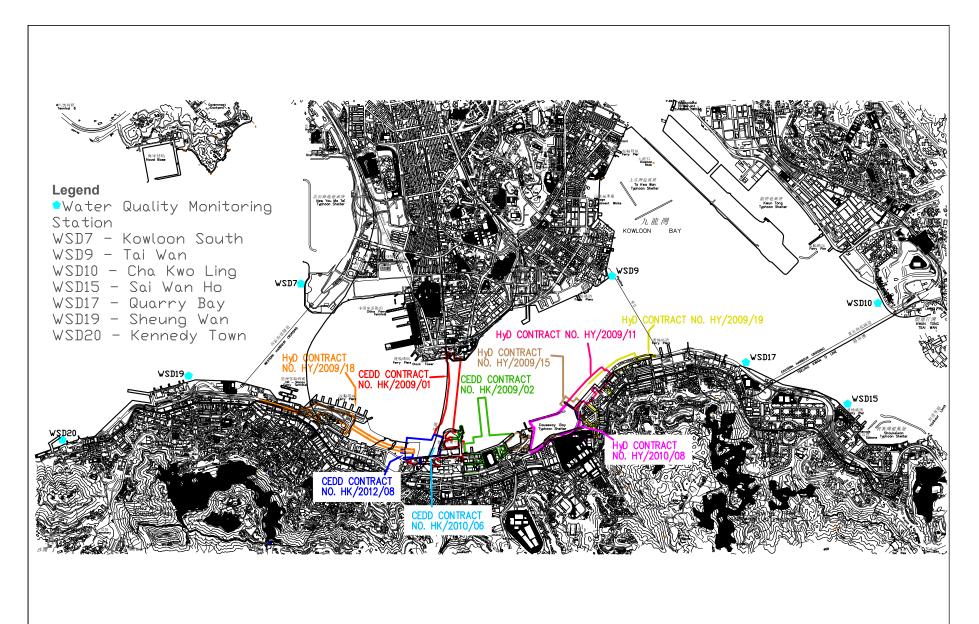




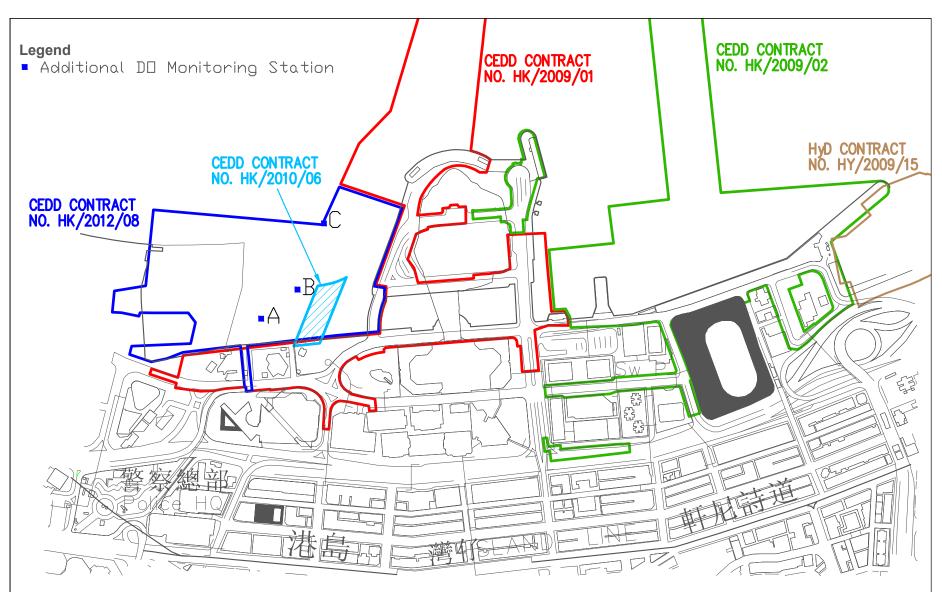
LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



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



Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Implementation	Schedule for Ai	r Quality Control
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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
				Des	С	0	Dec	and Guidelines
Constructio								
For the Wh								
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			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		V			

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	In	Implementation Stages*		on	Relevant Legislation
Environmental Protection Measures / Magadon Measures	Elocation / Thining	Agent	Des	С	0	Dec	and Guidelines	
S3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		1			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation 1	Phase	L						
For the Wh								

¹ CEDD will identify an implementation agent.

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	Implem Sta		entati ges*	on	Relevant Legislation
	Environmental Frotection (steasures / stilligation (steasures	Liotation / Thing	Agent	Des	С	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 on- going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
For DP1 -	CWB (Within the Project Boundary)							
\$3.6.53 – \$3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			V		
\$3.10.2	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			V		EIAO-TM

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

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

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	1 .	entati ges*	Relevant Legislation	
				Des	С	0	Dec	and Guidelines
Construction Phase								
For the Whe	ole Project							

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	In	nplem Sta	entati ges*	on	Relevant Legislation
Lintikei	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	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, 	Work Sites / During Construction	Contractor	Des	V	0	Dec	EIAO-TM, NCO
	 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. 							

Appendix 3.1

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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	In		entati ges*	on	Relevant Legislation
		8	Agent	Des	С	0	Dec	and Guidelines
\$4.8.3 – \$4.8.5	 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
For DP2 –	WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		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

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	In	nplem Sta	entati ges*	Relevant Legislation	
Lintitei	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	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)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor					EIAO-TM, NCO

Appendix 3.1

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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	easures Location / Timing	n / Timing	In		entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Operation	Phase							
For DP1 –	CWB (Within the Project Boundary)							

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	igation Measures Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
			Agent	Des	С	0	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 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 95m length of 3.5m high vertical noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Near North Point / Before commencement of operation of road project 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	J	√ #	V		EIAO-TM

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	Aeasures Location / Timing Implementati		In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	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.

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	•	entatio ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sh	a Tsu	i), DP.	1 - CW	B (within the Project
\$5.8	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
\$5.8	 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		\checkmark			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		V			EIAO-TM, WPCO

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2011/07

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 /	Implementation	In		entati ges*	ion	Relevant Legislation
			Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	The water body behind the temporary re typhoon shelter shall not be fully enclose	5 5	Work site / Contractor During the construction period			V			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the ac within the temporary embayment b impermeable barrier, suspended from a and extending down to the seabed, will the HKCEC1 commences. The bar discharge flows from Culvert L to th contractor will maintain this barrier HKCEC2W are carried out and the new	etween CRIII and HKCEC1, an floating boom on the water surface be erected by the contractor before rier will channel the stormwater e outside of the embayment. The until the reclamation works in	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the n than the maximum production rates stat production rates without considering the	ed in the table below. These are the	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
	Reclamation Area	Maximum Dredging Rate m ³ per day (for 16 hrs per day) Maximum Dredging Rate (m ³ per (for 16 hrs per day)							
	North Point Shoreline Zone (NPR) Causeway Bay TBW	6,000 375 42,000 1,500 94 10,500							
1	Shoreline Zone TCBR PCWA Zone	6,000 375 42,000 5,000 313 35,000							

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EIA Ref	Environmental Protection Measures /	Mitigatio	n Measures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
EIA KU	Environmental Frotection Measures /	inigano	in wreasures		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR)	6,000	375	42,000							
	HKCEC Shoreline Zone HKCEC Stage 1 & 3 (HKCEC) HKCEC Stage 2	1,500	94 375	10,500 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 m ³ per day shall be appreaded seawall of WCR1.										
S5.8, Figure 5.3	Dredging along the seawall at WCR 1,500m ³ per day for construction of th proximity of the WSD intake), followed western seawall (above high water mar much as possible from further dredging	western by partial c) to pro	seawall (wh seawall con	struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Ba partially constructed to protect the ne dredging activities. For example, at seawalls shall be constructed first (al seawater intakes at the inner water woul the remaining dredging activities along	arby seav CBR1W ove high be prote	water intake , the southe water mar ceted from th	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed aroun seawall dredging and seawall trench fil TCBR and NP.				Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
S5.8, Figure 5.3		pplicatio	ns es at Sai Wa	an Ho, Quarry	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
		r intakes	for Hong Ko	on South ong Convention Hong Kong							

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Implementation Location / Implementation **Relevant Legislation** Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Timing Agent and Guidelines Des С 0 Dec TBW, NP and Water Convention and Exhibition Centre Phase I, Telecom Mains Zone House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre **Scenario 2B** 2009/2010 in late WSD saltwater intakes at Sheung Wan, Wan Chai with Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and concurrent dredging activities Sewage Windsor House. at Zone Pipelines and TCBR. Scenario 2C in 2011 with WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. concurrent dredging activities at HKCEC and Cooling water intakes for MTR South, Excelsion Hotel & World Trade Centre and reprovisioned TCBR. Windsor House. ProPECC PN 1/94; S5.8 Work site / Contractor $\sqrt{}$ Other mitigation measures include: WPCO (TM-DSS) During the mechanical grabs, if used, shall be designed and maintained to avoid ٠ construction spillage and sealed tightly while being lifted. For dredging of any period contaminated mud, closed watertight grabs must be used; all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material; construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	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		V			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out at the seawater intakes during the dredging operations. Daily 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>3</u>					WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	ion	Relevant Legislation and Guidelines
EIA KU	Environmental Procedon Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	
For the Wh	ole Project							
S5.8	Construction Runoff and Drainage	Work site	Contractor		\checkmark			ProPECC PN 1/94;
	 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						WPCO (TM-DSS)
	• 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;	1						
	 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 							

³ CEDD will identify an implementation agent.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	-	Implementation	In		entati ges*	on	Relevant Legislation
LIITIKI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	С	0	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.							
\$5.8	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		V			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<i>Floating Debris and Refuse</i> 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		\checkmark			WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
LINKI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO
Operation	Phase							
	B (within the Project Boundary)				r		T	
S5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. 	CWB/During design and operational period	HyD/TD ³	V		V		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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EIA Ref	Environmental Protection Measures / Mitigation Measures	trap		on	Relevant Legislation			
		Timing	Agent	Des	С	0	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 if employ Management, Operation and Maintenance (MOM) Contract

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Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
2		Docution / Thining	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 –	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			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.							
86.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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Implementation Implementation **Relevant Legislation** Stages* Environmental Protection Measures / Mitigation Measures EIA Ref Location / Timing and Guidelines Agent Des С 0 Dec S6.7.5 It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered 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 S6.7.6 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	In	Implementation Stages*			Relevant Legislation
		Lookidon / Thining	Agent	Des	С	0	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. 							
\$6.6.12	<i>Floating Refuse</i> 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		V			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	Za in omnentar i i occorton i renou co / ringation renou co	Lookton, Thing	Agent	Des	С	0	Dec	and Guidelines
S6.7.7	 Good Site Practices Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor					Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent Des C O Dec Contractor $$ $$ $$ $$	Relevant Legislation				
Lintiter	Environmental Protection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	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; 	Work site / During planning and design stage, and construction stage	Contractor	V	V			
	 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. 							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
21111101		Lioution / Timing	Agent	Des	С	0	Dec	and Guidelines
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)
\$6.7.11	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		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	Implementation Stages*		Relevant Legislatio and Guidelines ETWB TCW No. 31/2004 ProPECC PN 1/94	
Lint Kei	Environmental Protection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	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		V			
S6.7.14	 Bentonite Shurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be writed the used after the marine. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	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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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	Implementation Stages*		on	Relevant Legislation
Lint Kei	Environmental Protection Steasanes/ Shitigation Steasanes	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	nole 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	In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	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: 							

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Implementation Implementation **Relevant Legislation** Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Location / Timing and Guidelines Agent Des С 0 Dec Air Quality Mitigation Measures The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations. Noise Mitigation Measures The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. Simultaneous operation of mixing facilities and other equipment shall be avoided. Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation
	BBB			Des	С	0	Dec	and Guidelines
	 <u>Water Quality Mitigation Measures</u> Stockpile of untreated soil shall be covered as far as 							
	practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following							
	the requirements of WPCO.							
	Waste Mitigation Measures							
	• Treated oversize materials will be used as filling material							
	for backfilling within the site. Sorted materials of size							
	smaller than 5 cm will be collected and transferred to the							
	mixing plant for further decontamination treatment.							
	• Stabilized soils shall be broken into suitable size for backfilling or reuse on site.							
	• A high standard of housekeeping shall be maintained within the mixing plant area.							
	 If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials. 							

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

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
	g			Des	С	0	Dec	and Guidelines
Constructio	Construction Phase							
For the Wh	ole Project - Schedule 3 DP							
8.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 –	Reclamation Works							
\$.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	V				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	•	entati ges*	on	Relevant Legislation
		Liotation, Thing	Agent	Des	С	0	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		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	Adoption of multiple-phase construction schedule							

Appendix 3.1

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Implementation **Relevant Legislation** Implementation Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Location / Timing and Guidelines Agent Des С 0 Dec S.9.7.6 To minimize potential disturbance impacts on the foraging Work site during Contractor EIAO TM Annex 16 ardeid population in the CBTS, particularly in the area near the construction phase (Section 8.4) & EIAO A King Shipyard, appropriate mitigation measures shall be Guidance Note No. adopted particularly during the construction phase. The 3/2002 following measures are recommended: • Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible. Adoption of multiple-phase construction schedule. • General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented. S.9.7.7 Seawalls shall be constructed in advance around the Work site during EIAO TM Annex 16 Contractor $\sqrt{}$ reclamation areas within the area of the CBTS to screen (Section 8.4) & EIAO construction phase adjacent feeding ground from construction phase activities, Guidance Note No. reduce noise disturbance to the associated seabirds and also to 3/2002. restrict access to this habitat adjacent to works areas by ship traffic. S.9.7.8 Work site / during EIAO TM Annex 16 Loss of artificial seawall habitats shall be reinstated by the Contractor $\sqrt{}$ construction of about 1 km vertical wave absorbing seawall (Section 8.4) & EIAO construction phase along the coastlines of the new reclamation around the HKCEC Guidance Note No. and at North Point. The new seawalls are expected to provide 3/2002. large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.

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

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

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				0	Des	С	0	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	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	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	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 DP1 - CV	VB (With	in the Project Boundary)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		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	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

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EIA Ref **Environmental Protection Measures / Mitigation Measures** Location / Timing Implementation Implementation **Relevant Legislation** and Guidelines Agent Stages³ Des С 0 Dec Table 10.5 CM6 Erection of decorative screen hoarding compatible with Work site / During Contractor EIAO TM the surrounding setting Construction Phase For DP2 – WDII Major Roads (Road P2) CM1 Topsoil, where identified, shall be stripped and stored for Work site / During EIAO TM Table 10.5 Contractor $\sqrt{}$ $\sqrt{}$ re-use in the construction of the soft landscape works, Construction Phase where practical. Work site / During EIAO TM Table 10.5 CM2 Existing trees to be retained on site shall be carefully Contractor $\sqrt{}$ $\sqrt{}$ protected during construction Construction Phase Table 10.5 CM3 Trees unavoidably affected by the works shall be $\sqrt{}$ $\sqrt{}$ EIAO TM Work site / During Contractor transplanted where practical. Construction Phase Table 10.5 CM4 Compensatory tree planting V EIAO TM shall be provided to Work site / During Contractor $\sqrt{}$ compensate for felled trees. Construction Phase Table 10.5 CM5 Control of night-time lighting. EIAO TM Work site / During Contractor $\sqrt{}$ Construction Phase Table 10.5 Erection of decorative screen hoarding compatible with $\sqrt{}$ EIAO TM CM6 Work site / During Contractor the surrounding setting. Construction Phase For DP3 – Reclamation Works EIAO TM Table 10.5 CM5 Control of night-time lighting. Work site / During Contractor V Construction Phase Table 10.5 CM6 Erection of decorative screen hoarding compatible with Work site / During Contractor $\sqrt{}$ EIAO TM the surrounding setting Construction Phase For DP5 – Wan Chai East Sewage Outfall Refer to EIA-CM2 Minimisation of works areas Work site / During Contractor V EIAO TM 058/2001 Construction Phase Table 10.13 Refer to EIA-CM3 Erection of decorative hoardings. Work site / During Contractor V EIAO TM 058/2001 Construction Phase Table 10.13

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 Agent	Stages*				Relevant Legislation and Guidelines
				Des	С	0	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		V			EIAO TM
For DP6 - Cros	ss-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			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							
	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	\checkmark	V	\checkmark		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	V	V		ETWB TCW 2/2004

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Image: Constraint of the section of	EIA Ref	Enviro	ronmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	Sta	entati ges*	ion	Relevant Legislation and Guidelines
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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_	Figure 10.5.1-		and associated structures.	Design Stage and						
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10.5.5 Operation Phases Operation Phases Image: CEDD/HyD operation Phases V V Table 10.6, Figure 10.5.1- 10.5.5 OM6 Aesthetic streetscape design. Work site / During Design Stage and Operation Phases CEDD/HyD V V V 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 V V 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 V V Table 10.6, Figure 10.5.1- 10.5.5 OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure. Work site / During Design Stage and Operation Phases HyD √ √ Table 10.6, Figure 10.5.1- 10.5.5 OM3 Buffer Tree and Shrub Planting to screen proposed structures Work site / During Design Stage and Operation Phases HyD √ √ √ Table 10.6, Figure 10.5.1- 10.5.5 OM3 Buffer Tree and Shrub Planting to screen proposed roads Work site / During Design Stage and Operation Phases HyD √ √ √ 10.5	Гable 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	CEDD ⁴	\checkmark				ETWB TCW 2/2004
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10.5.5 Operation Phases Image: Constraint of the sector	Гable 10.6,	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
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Table 10.6, Figure 10.5.1- 10.5.5 OM5 Aesthetic streetscape design. Work site / During Design Stage and Operation Phases HyD $\sqrt{1}$ Table 10.6, OM6 Aesthetic design of roadside amenity areas. Work site / During HyD $\sqrt{1}$			and associated structures.							
Figure 10.5.1- 10.5.5 Design Stage and Operation Phases Table 10.6, OM6 Aesthetic design of roadside amenity areas. Work site / During HyD $-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt$				1						
10.5.5 Operation Phases Table 10.6, OM6 Aesthetic design of roadside amenity areas. Work site / During HyD $-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt$	Гable 10.6,	OM5	Aesthetic streetscape design.	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Table 10.6, OM6 Aesthetic design of roadside amenity areas. Work site / During HyD $-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt$									1	
		OM6	Aesthetic design of roadside amenity areas.		HyD	\checkmark			1	ETWB TCW 2/2004
Figure 10.5.1- Design Stage and				Design Stage and					1	
10.5.5 Operation Phases Operation Phases				Operation Phases						

⁴ 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	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Stages*				Relevant Legislation and Guidelines
				_	Des	С	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		V	V		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		V	V		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	V		ETWB TCW 2/2004
For DP3 - Rec	lamation	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	CEDD ⁵	V	V	V		ETWB TCW 2/2004

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

⁵ CEDD will identify an implementation agent

Appendix 3.1



Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Note 1:

70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Lev	el in μ g/m ³	24-hour TSP Le	24-hour TSP Level 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 S	eason	Wet S	eason
Falameter 5	Action	Limit	Action	Limit
WSD Salt Water Inta	ake			
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 Intak	(e			
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.

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.

Action and Limit Levels for Odour Patrol



Appendix 4.2

Copies of Calibration Certificates



Certificate No. 23551	Page	1	of	4 Pages			
Customer: Lam Geotechnics Limited							
Address : 11/F, Centre Point, 181-185 Gloucester Road, Wand	hai, Hong Kong.						
Order No. : Q21462	Date of receipt	:		11-Jun-12			
Item Tested							
Description : Digital Sound Level Meter							
Manufacturer : B&K							
Model : Type 2236	Serial No.	:	2100	736			
Test Conditions							
Date of Test: 12-Jun-12	Supply Voltage	; ;					
Ambient Temperature : (23 ± 3)°C	Relative Humic	dity :	(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 equip	ment used:	
Equipment No.	Description	

Equipment No.	Description	<u>Cert. No.</u>	Traceable to
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	15136	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.

n marine su terres

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

Calibrated by :

P. F. Wong

Approved by : Dorothy Che

Dorothy Cheuk

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. 23551

Page 2 of 4 Pages

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		93.9
		dBL	F		93.9
		1 kHz	F		93.9
40 - 120	SPL	dBA	F	94.0	93.9
		1 kHz	F		94.0
	SPL	dBA	F	114.0	114.0
			S		114.0
		dBC	F		114.0
		dBL	F		114.1
		1 kHz	F]	114.0

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

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

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.8	-0.1	± 0.7 dB
130	104.0	103.9	0.0	-
120	94.0	93.9 (Ref.)		
110	84.0	83.9	0.0	
100	74.0	73.9	0.0	
90	64.0	63.9	0.0	
90	54.0	53.9	0.0	

Uncertainty : ± 0.1 dB

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Certificate No. 23551

Page 3 of 4 Pages

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	94.8	-0.1	$\pm 0.2 \text{ dB}$

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

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.4	- 39.4 dB, ± 1.5 dB
63 Hz	-26.1	- 26.2 dB, ± 1.5 dB
125 Hz	-16.1	- 16.1 dB, ± 1 dB
250 Hz	-8.6	- $8.6 \text{ dB}, \pm 1 \text{ dB}$
500 Hz	-3.2	- $3.2 dB, \pm 1 dB$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.3	$+ 1.2 \text{ dB}, \pm 1 \text{ dB}$
4 kHz	+1.0	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.1	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-6.7	$- 6.6 \text{ dB}, + 3 \text{ dB} \sim -\infty$

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

5. Time Averaging

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

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

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Certificate No. 23551

Page 4 of 4 Pages

6. Filter Response

Filter	Setting		Attenuation (d	B)	IEC 1260 Class 1 Spec.
125	Hz		-63.5		<- 61
250	Hz		-44.7		<- 42
500	Hz		-20.8		< - 17.5
707	Hz		-3.5		- 2~- 5
1	kHz	(Ref.)	0.0	(Ref.)	
1.41	4 kHz		-3.9		- 2~- 5
2	kHz		-21.2		<- 17.5
4	kHz		-44.9		<- 42
8	kHz		-63.7		<- 61

Uncertainty : $\pm 0.2 \text{ dB}$

Remark : 1. UUT : Unit-Under-Test

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

3. Atmospheric Pressure : 992 hPa

----- END -----



Certificate No.	25144		Page	1	of	2	Pages
Customer :	Lam Geotechnics Limited						
Address :	11/F, Centre Point, 181-185 Glou	icester Road, Wand	chai, Hong Kong.				
Order No. :	Q22033		Date of receipt	:			2-Aug-12
Item Tested							
Description :	Sound Level Calibrator						
Manufacturer :	В&К						
Modei :	Туре 4230		Serial No.	:	141	1076	
Test Conditi	ons						
Date of Test :	10-Aug-12		Supply Voltage	:			
Ambient Temp	erature : (23 ± 3)°C		Relative Humid	lity:	(50 :	± 25) %
Test Specifi	cations						
Calibration chec Ref. Document/	k. Procedure: F21, Z02.						
Test Results	•						
	within the IEC 942 Class 1 specif shown in the attached page(s).	ïcation.					
Main Test equip	oment used:						
Equipment No.	<u>Description</u>	<u>Cert. No.</u>			ceab		
S014	Spectrum Analyzer	13535		NIM	I-PR	C & S	SCL-HKSAR
S024	Sound Level Calibrator	15136		NIN	1-PR	C & 3	SCL-HKSAR
S041	Universal Counter	15610		SCI	HK	SAR	, ,
S191	61/2 dgt. Multimeter	20033		NIN	I-PR	С	

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 :

This Certificate is issued by:

Stephen Chu

Approved by : _ Dorothy Cheuk

Date: 10-Aug-12

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. 25144

Page 2 of 2 Pages

Results :

1. Level Accuracy

ſ	UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
	94	93.96	$\pm 0.3 \text{ dB}$

Uncertainty : $\pm 0.2 \text{ dB}$

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	1.000 kHz	± 2 %

Uncertainty : \pm 3.6 x 10⁻⁶

- Level Stability : 0.0 dB
 IEC 942 Class 1 Spec. : ± 0.1 dB
 Uncertainty : ± 0.01 dB
- 4. Total Harmonic Distortion : < 1.5 % IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The above measured values are the mean of 3 measurement.
- 3. The uncertainty claimed is for a confidence probability of not less than 95%.
- 4. Atmospheric Pressure : 995 hPa.

----- END -----



CONTACT: MS EMILY KONG CLIENT: LAM GEOTECHNICS LIMITED ADDRESS: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG ---

WORK ORDER:	HK1303067
AMENDMENT NO .:	1
LABORATORY:	HONG KONG
DATE RECEIVED:	04/02/2013
DATE OF ISSUE:	14/02/2013

PROJECT:

COMMENTS

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

Scope of Test:	Turbidity
Description:	Turbidimeter
Brand Name:	XINRUI
Model No.:	WGZ-3B
Serial No.:	1203006
Equipment No.:	55534 66 56 11 14 14
Date of Calibration:	05 February, 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 11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG

Phone: Fax: Email:

852-2610 1044 852-2610 2021 hongkong@alsglobal.com

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

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BIGHT SOLUTIONS BIGHT PARTNER

Work Order: Amendment No.: Date of Issue: Client: HK1303067 1 14/02/2013 LAM GEOTECHNICS LIMITED



Description:	Turbidimeter		
Brand Name:	XINRUI		
Model No.:	WGZ-3B		
Serial No.:	1203006		
Equipment No.:			
Date of Calibration:	05 February, 2013	Date of next Calibration:	05 May, 2013

Parameters:

Turbidity

Method Ref: APHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0	
4	3.89	-2.8
40	40.84	2.1
80	74.15	-7.3
400	380.2	-5.0
800	805.2	0.7
	Tolerance Limit (±%)	10.0

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





CONTACT: MS EMILY KONG CLIENT: LAM GEOTECHNICS LIMITED ADDRESS: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

WORK ORDER:	HK1305626
LABORATORY:	HONG KONG
DATE RECEIVED:	01/03/2013
DATE OF ISSUE:	08/03/2013

PROJECT:

COMMENTS

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

Scope of Test:	Turbidity
Description:	Turbidimeter
Brand Name:	WTW
Model No.:	TURB 430T
Serial No.:	12110692
Equipment No.:	
Date of Calibration:	08 March, 2013

NOTES

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ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG Phone: Fax: Email: 852-2610 1044 852-2610 2021 <u>hongkong@alsglobal.com</u>

Richard

Mr. Fung Lim Cheer Richard General Manager Greater China & Hong Kong

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Work Order: Date of Issue: Client:

HK1305626 08/03/2013 LAM GEOTECHNICS LIMITED

80

400 800



-1.4 -5.3

-5.5

10.0

Description: Brand Name: Model No.: Serial No.: Equipment No.: Date of Calibration:	Turbidimeter WTW TURB 430T 12110692 08 March, 2013	Date of next Calibration:	08 June, 2013
Parameters:			
Turbidity	Method Ref: APHA 21st Ed. 22	L30B	
	Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
	0	0.06	
	4	4.20	5.0
	40	38.00	-5.0

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

78.90

379

756

Tolerance Limit (±%)

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





CONTACT: MS EMILY KONG CLIENT: LAM GEOTECHNICS LIMITED ADDRESS: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD. WAN CHAI, HONG KONG ---

WORK ORDER:	HK1306339
LABORATORY:	HONG KONG
DATE RECEIVED:	08/03/2013
DATE OF ISSUE:	15/03/2013

PROJECT:

COMMENTS

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

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	WTW
Model No.:	TURB 430T
Serial No.:	12220419
Equipment No.:	
Date of Calibration:	15 March, 2013

NOTES

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ISSUING LABORATORY: HONG KONG

Address

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11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG

Phone: Fax: Email:

852-2610 1044 852-2610 2021 hongkong@alsglobal.com

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

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Work Order: Date of Issue: Client: HK1306339 15/03/2013 LAM GEOTECHNICS LIMITED



Equipment Type:	Turbidimeter		
Brand Name:	WTW		
Model No.:	TURB 430T		
Serial No.:	12220419		
Equipment No.:			
Date of Calibration:	15 March, 2013	Date of next Calibration:	15 June, 2013
Development			

Parameters:

Turbidity

Method Ref: APHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.20	
4	4.05	1.3
40	37.8	-5.5
80	75.4	-5.7
400	380	-5.0
800	772	-3.5
10		
	Tolerance Limit (±%)	10.0

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**



CONTACT: MS EMILY KONG CLIENT: LAM GEOTECHNICS LIMITED ADDRESS: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

WORK ORDER:	HK1303923
LABORATORY:	HONG KONG
DATE RECEIVED:	14/02/2013
DATE OF ISSUE:	21/02/2013

PROJECT:

COMMENTS

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

Scope of Test:	Turbidity
Description:	Turbidimeter
Brand Name:	HACH
Model No.:	2100P HACH
Serial No.:	93100000 3861
Equipment No.:	
Date of Calibration:	21 February, 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

11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG Phone: Fax: Email: 852-2610 1044 852-2610 2021 hongkong@alsglobal.com

Mr Chan Godfrey Kwok Fai, Laboratory Manager Hong Kong

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Work Order: Date of Issue: Client: HK1303923 21/02/2013 LAM GEOTECHNICS LIMITED



Description: Brand Name: Model No.: Serial No.: Equipment No.: Date of Calibration:	Turbidimeter HACH 2100P HACH 93100000 3861 21 February, 2013	Date of next Calibration:	21 May, 2013
Parameters:			
Turbidity	Method Ref: APHA 21st Ed. 2		
	Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
	0	0	
	4	3.8	-5.0
	40	39.9	-0.3
	80	75.4	-5.7
	400	373	-6.8
	800	814	1.8
		Tolerance Limit (±%)	10.0

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

Mr Chan Kwok Fai, Godfrey Laborator Manager - 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

WORK ORDER:	HK1303068
LABORATORY:	HONG KONG
DATE RECEIVED:	04/02/2013
DATE OF ISSUE:	14/02/2013

PROJECT:

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory. Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the

internal aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Description:	YSI SONDE
Brand Name:	YSI
Model No.:	YSI Professional Plus
Serial No.:	11F100420
Equipment No.:	
Date of Calibration:	05 February, 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

11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG Phone: Fax: Email: 852-2610 1044 852-2610 2021 <u>hongkong@alsglobal.com</u>

Mr Chan Kwok Fai, Godfrey Laborator Manager - Hong Kong

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Work Order: Date of Issue: Client: HK1303068 14/02/2013 LAM GEOTECHNICS LIMITED



Description: Brand Name:	YSI SONDE YSI			
Model No.: Serial No.:	YSI Professional Plus 11F100420			
Equipment No.: Date of Calibration:	 05 February, 2013	Date of next Calibration:	05 May, 2013	

Parameters:

Method Ref: APHA (21st edition), 45000: G		
Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.57	2.47	-0.10
4.14	4.08	-0.06
8.21	8.23	0.02
	Tolerance Limit (±mg/L)	0.20
	Expected Reading (mg/L) 2.57 4.14	Expected Reading (mg/L)Displayed Reading (mg/L)2.572.474.144.088.218.23

pH Value

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

nethou ken / i h/ (mist cuition), isoonis			
Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)	
4.0	4.01	0.01	
7.0 10.0	7.08 9.95	0.08 -0.05	
10.0	Tolerance Limit (± pH unit)	0.20	
	rolerance Emit (2 pri unit)	0.20	

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0	
10	9.66	-3.4
20	19.19	-4.0
30	28.36	-5.5
	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)		
12.0 21.0	11.6 21.6	-0.4 0.6		
40.0	40.5	0.5		
	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 Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental



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 ---

WORK ORDER:	HK1304562
LABORATORY:	HONG KONG
DATE RECEIVED:	20/02/2013
DATE OF ISSUE:	11/03/2013

PROJECT:

COMMENTS

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

Scope of Test:	Dissolved Oxygen, Salinity and Temperature
Equipment Type:	Sonde Environmental Monitoring System
Brand Name:	YSI
Model No.:	YSI Professional plus
Serial No.:	11F100597
Equipment No.:	
Date of Calibration:	27 February, 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

11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG

Phone: Fax: Email:

852-2610 1044 852-2610 2021 hongkong@alsglobal.com

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

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Work Order: Date of Issue: Client: HK1304562 11/03/2013 LAM GEOTECHNICS LIMITED



Equipment Type:	Sonde Environmental Monit	oring System	
Brand Name:	YSI		
Model No.:	YSI Professional plus		
Serial No.:	11F100597		
Equipment No.:			
Date of Calibration:	27 February, 2013	Date of next Calibration:	27 May, 2013

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.47 5.86	3.44 5.82	-0.03 -0.04
7.74	7.89	0.15
	Tolerance Limit (±mg/L)	0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)							
0	0								
10	9.55	-4.5							
20	19.88	-0.6							
30	29.42	-1.9							
	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	8.3 22.2	-1.7 -0.8
39.0	39.3	0.3
	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 Page 2 of 2

ALS Technichem (HK) Pty Ltd **ALS Environmental**



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 - Ju	1 19, 2012	Rootsmeter	D / 1	138320	Ta (K) -	298
Operator	Tisch	Orifice I.I)005	Pa (mm) -	751.84
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3840	3.2	2.00
2	NA	NA	1.00	0.9760	6.4	4.00
3	NA	NA	1.00	0.8730	7.9	5.00
4	NA	NA	1.00	0.8340	8.8	5.50
5	NA	NA	1.00	0.6890	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9850 0.9809 0.9788 0.9777 0.9725	0.7117 1.0050 1.1212 1.1723 1.4115	1.4066 1.9892 2.2240 2.3326 2.8132		0.9957 0.9915 0.9894 0.9883 0.9831	0.7194 1.0159 1.1333 1.1850 1.4268	0.8903 1.2591 1.4078 1.4765 1.7807
Qstd sloj intercep coeffici	t (b) =	2.01145 -0.02803 0.99995		Qa slop intercep coeffici	t (b) =	1.25953 -0.01774 0.99995
v axis =	SQRT [H20 ()	Pa/760) (298/	'y axis =	SQRT [H20 (1	[a/Pa)]	

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	Calbration Date	6-Apr-13
Equipment no.	:	EL452	Calbration Due Dat :	 6-Jun-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition										
Temperature, T _a		294		Kelvin	Pressure, P	a		1008 m		
			Orifice Tra	nsfer Stan	dard Inform	ation				
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	-0.02	803	
Last Calibration Date		19-Jul-12	2		(HxI	P _a / 10 ⁻	13.3 x 298	/T _a) ^{1/2}		
Next Calibration Date		19-Jul-1:	3		=	m _c x	$Q_{std} + b_{c}$;		
Calibration of RSP										
Calibration	Mar	nometer R	eading	G	l _{std}	Contin	uous Flow	IC		
Point	H (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	(CFM)		Y-axi	S		
1	5.9	5.9	11.8	1.	7288	60		60.248	36	
2	5.1	5.1	10.2	1.	6083		54	54.223	37	
3	4.0	4.0	8.0	1.4	4259		46	46.190)6	
4	2.5	2.5	5.0	1.	1302		33	33.136	37	
5	1.4	1.4	2.8	0.	0.8493 2		22	22.091	12	
By Linear Regression of	Y on X									
Slope, m = 43.3			289	Int	ercept, b	=	15.2509	_		
Correlation Coefficient* = 0.99			994							
Calibration Accepted = Yes/			Yes/	No**						

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

** Delete as appropriate.

Remarks :					
Calibrated by	:	Sam	Checked by	:	Derek Lo
Date	:	6-Apr-13	 Date	:	6-Apr-13

am

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date	6-Apr-13
Equipment no.	:	EL449	Calbration Due Dat :	6-Jun-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		294		Kelvin	Pressure, P	a		1008	mmHg
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	-0.02	2803
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 10	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_{c}$;	
Calibration of RSP									
Calibration	Mar	nometer R	eading	c	l _{std}	Contin	uous Flow	IC	
Point	H (inches of water)		water)	(m ³	/ min.) Record		order, W	(W(P _a /1013.3x29	8/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(0	CFM)	Y-ax	is
1	6.1	6.1	12.2	1.1	7576		57	57.23	62
2	5.0	5.0	10.0	1.	5926		50	50.20	72
3	4.1	4.1	8.2	1.4	4435		43	43.17	82
4	2.5	2.5	5.0	1.1	1302		28	28.11	60
5	1.5	1.5	3.0	0.8	0.8786 17		17	17.07	04
By Linear Regression of	Y on X								
Slope, m = 46.1			851	Int	ercept, b	=	23.6731		
Correlation Coefficient* = 0.99			998						
Calibration Accepted = Yes/			No**						

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

** Delete as appropriate.											
Remarks :											
Calibrated by	:	Sam		Checked by	:	Derek Lo					
Date	:	6-Apr-13	_	Date	:	6-Apr-13					
Date		•			_	•					

am

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАЗа	Calbration Date	:	6-Apr-13
Equipment no.	:	EL888	Calbration Due Dat	:	6-Jun-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		294		Kelvin	Pressure, P	a		1008	mmHg
			Orifice Tra	nsfer Stan	dard Informa	ation			
Equipment No.	EL086			Slope, m _c	2.011	45	Intercept, b	-0.02803	
Last Calibration Date		19-Jul-12	2		(HxH	P _a / 101	3.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		19-Jul-13	3		=	m _c x	$Q_{std} + b_{c}$;	
Calibration of RSP									
Calibration	Manometer Reading			c	std	Continu	ious Flow	l.	C
Point	H (inches of water)			(m ³	/ min.)	Reco	rder, W	(W(P _a /1013.3x2	298/T _a) ^{1/2} /35.31)
	(up)	(up) (down) (difference)		X-	axis	(C	FM)	Y-a	ixis
1	6.1	6.1	12.2	1.1	7576		55	55.2	279
2	5.0	5.0	10.0	1.5	5926		47	47 .1	947
3	4.0	4.0	8.0	1.4	1259		40	40.1	657
4	2.4	2.4	4.8	1.1	1077	:	26	26.1	077
5	1.3	1.3	2.6	0.8	3189		15	15.0	0622
By Linear Regression of	Y on X								
	Slope, m	=	42.7	628	Inte	ercept, b	=	20.5735	
Correlation Co	pefficient*	=	0.99	93					
Calibration	Accepted	=	Yes/	\o **					

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

** Delete as appropriate.

Remarks :					
Calibrated by	:	Sam	Checked by	:	Derek Lo
Date	6-Apr-13	 Date	:	6-Apr-13	



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Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date	6-Apr-13
Equipment no.	:	EL390	Calbration Due Dat :	6-Jun-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		294		Kelvin	Pressure, P	a		1008 mmHg	
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.	EL086			Slope, m _c	2.011	45	Intercept, b	c -0.02	2803
Last Calibration Date		19-Jul-12	2		(HxI	P _a / 101	3.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		19-Jul-13	3		=	m _c x	$Q_{std} + b_{c}$;	
Calibration of RSP									
Calibration	Manometer Reading			G) _{std}	Continu	ous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	rder, W	(W(P _a /1013.3x298	8/T _a) ^{1/2} /35.31)
	(up) (down) (difference)		X-	axis	(C	FM)	Y-axi	s	
1	6.1	6.1	12.2	1.1	7576	(61	61.25	27
2	5.0	5.0	10.0	1.	5926	Į	52	52.21	55
3	4.1	4.1	8.2	1.4	4435	4	44	44.18	23
4	2.5	2.5	5.0	1.1	1302	:	29	29.12	02
5	1.5	1.5	3.0	0.8	3786		19	19.07	37
By Linear Regression of	Y on X								
	Slope, m	=	48.0	621	Int	ercept, b =	-2	24.2184	_
Correlation Co	pefficient*	=	0.99	983					
Calibration	Accepted	=	Yes/	\o **					

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

** Delete as appro	priate.				
Remarks :					
Calibrated by	:	Sam	Checked by	:	Derek Lo
Date	:	6-Apr-13	Date	:	6-Apr-13



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	Calbration Date	:	6-Apr-13
Equipment no.	:	EL380	Calbration Due Dat	:	6-Jun-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		294		Kelvin	Pressure, P	a		1008	mmHg
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.	EL086			Slope, m _c	2.011	45	Intercept, b	ntercept, bc -0.02803	
Last Calibration Date		19-Jul-12	2		(HxI	P _a / 101	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		19-Jul-13	3		=	m _c x	$Q_{std} + b_{c}$:	
Calibration of RSP									
Calibration	Manometer Reading			c	l _{std}	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x29	8/T _a) ^{1/2} /35.31)
	(up)	(up) (down) (difference)		X-	axis	(0	CFM)	Y-ax	is
1	6.1	6.1	12.2	1.1	7576		60	60.24	86
2	5.1	5.1	10.2	1.0	6083		52	52.21	55
3	4.0	4.0	8.0	1.4	4259		44	44.18	23
4	2.5	2.5	5.0	1.1	1302		32	32.13	26
5	1.5	1.5	3.0	0.8	3786		22	22.09)12
By Linear Regression of	Y on X								
	Slope, m	=	42.8	348	Int	ercept, b	=	16.0869	_
Correlation Co	pefficient*	=	0.99	987					
Calibration	Accepted	=	Yes/	\o **					

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

** Delete as appropriate.

Remarks :			 			_
Calibrated by	:	Sam	Checked by	:	Derek Lo	
Date	:	6-Apr-13	 Date	:	6-Apr-13	_



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	Calbration Date	:	6-Apr-13
Equipment no.	:	EL448	Calbration Due Dat	:	6-Jun-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition										
Temperature, T _a		294		Kelvin	Kelvin Pressure, P a			1008	mmHg	
Orifice Transfer Standard Information										
Equipment No.	EL086			Slope, m _c	2.011	45	Intercept, b	ntercept, bc -0.028		
Last Calibration Date		19-Jul-12	2		(HxI	P _a / 10 ⁻	13.3 x 298	$/T_{a})^{1/2}$		
Next Calibration Date		19-Jul-13	3		=	m _c x	$Q_{std} + b_{c}$;		
	Calibration of RSP									
Calibration	Manometer Reading			c	l _{std}	Contin	uous Flow		IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3)	(298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(0	CFM)	Y-	axis	
1	6.1	6.1	12.2	1.1	7576		60	60.	2486	
2	5.0	5.0	10.0	1.5	5926		52	52.	2155	
3	4.1	4.1	8.2	1.4	4435		44	44.	1823	
4	2.5	2.5	5.0	1.1	1302		30	30.	1243	
5	1.5	1.5	3.0	0.8	3786		20	20.	0829	
By Linear Regression of	Y on X									
	Slope, m	=	45.8	507	Int	ercept, b	=	21.0090		
Correlation Co	pefficient*	=	0.99	988						
Calibration	Accepted	=	Yes/	\o **						

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

** Delete as appropriate.

Remarks :						
						-
Calibrated by	:	Sam	Checked by	:	Derek Lo	
Date	:	6-Apr-13	Date	:	6-Apr-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 Mor May 2			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Apr	29-A	pr 30-A	pr 1-N	ay 2-Ma	y 3-May	4-May
		Noise (Daytime)	24hr TSP	1hr TSP Noise (Daytime)(M6)		
	Impact WQM			Impact WQM		Impact WQM
	Mid-flood: 8:	06		Mid-flood: 10:4	7	Mid-flood: 13:52
	Mid-ebb: 14:			Mid-ebb: 18:0		Mid-ebb: 20:23
5-May	6-M	ау 7-М	ay 8-M	ay 9-Ma	y 10-May	11-May
		24hr TSP				
		2 111 101	1hr TSP			
		Noise (Daytime)			#REF!	
	Impact WQM			Impact WQM		Impact WQM
	Mid-ebb: 10:			Mid-ebb 12:0		Mid-ebb 13:11
	Mid-flood: 16:			Mid-flood: 18:3		Mid-flood: 19:52
12-May	13-M	ay 14-M	ay 15-M	ау 16-Ма	y 17-May	18-May
	24hr TSP					24hr TSP
		1hr TSP				
				Noise (Daytime)		
	Impact WQM		Impact WQM			Impact WQM
	Mid-flood: 21:	11	Mid-flood: 22	52		Mid-flood: 0:50
	Mid-ebb 14:		Mid-ebb 15			Mid-ebb 17:49
19-May	20-M	ay 21-M	ay 22-N	ay 23-Ma	y 24-May	25-May
					24hr TSP	
	24hr TSP(CMA4a) 1hr TSP				24nr 15P	1hr TSP
		Noise (Daytime)				
	Impact WQM	Impact WQM	Impact WQM Mid-flood: 16	22	Impact WQM Mid-ebb 11:29	
	Mid-ebb: 20:	26 Mid-flood: 2:	58 Mid-ebb: 22		Mid-flood: 18:20	
	20.	2.	22.	- 1	10.20	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

						ne 20 [.]		ov Fridov				
Sunday	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
26-May		27-May		28-May		29-May		30-May		31-May		1-Ju
							24hr TSP					
							2411 101		1hr TSP			
			Noise (Daytime)									
	Impact WQM				Impact WQM				Impact WQM			
	Mid-flood:	7:03			Mid-flood:	8:40			Mid-flood:	10:38		
	Mid-ebb	13:52			Mid-ebb	15:36			Mid-ebb	17:31		
2-Jun		3-Jun		4-Jun		5-Jun		6-Jun		7-Jun		8-Ju
					24hr TSP (with CRIII							
							1hr TSP (with CRIII)					
	Noise (Daytime)											
			Impost WOM				Impost WOM				Impact WQM	
			Impact WQM Mid-ebb:	9:50			Impact WQM Mid-ebb	11:11			Mid-ebb	12:19
			Mid-flood:	16:01			Mid-flood:	17:48			Mid-flood:	19:11
9-Jun		10-Jun	inid-liood.	11-Jun		12-Jun	wid-nood.	13-Jun		14-Jun	wid-libbd.	15-Jur
o oun		10 0011				12 000		10 0011		11001		10 001
	24hr TSP (with CRIII										24hr TSP (with CRIII	
			1hr TSP (with CRIII)									
			Noise (Daytime)									
	Impact WQM						Impact WQM				Impact WQM	
	Mid-ebb	13:26					Mid-ebb	14:54			Mid-ebb	16:13
	Mid-flood:	20:22					Mid-flood:	22:19			Mid-flood	23:49
16-Jun		17-Jun		18-Jun		19-Jun		20-Jun		21-Jun		22-Jur
									Athe TOD (1) the ODU			
	1hr TSP (with CRIII)								24hr TSP (with CRIII		1hr TSP (with CRIII)	
					Noise (Daytime)							
					Noise (Daytine)							
			Impact WQM				Impact WQM				Impact WQM	
			Mid-flood:	1:19			Mid-ebb	9:35			Mid-ebb	11:12
			Mid-ebb	7:47			Mid-flood:	16:22			Mid-flood:	18:20
23-Jun		24-Jun		25-Jun		26-Jun		27-Jun		28-Jun		29-Jur
							24hr TSP (with CRIII					
									1hr TSP (with CRIII)			
			Noise (Daytime)									
	Impact WQM				Impact WQM				Impact WQM			
	Mid-ebb	12:53			Mid-ebb	14:30			Mid-ebb:	16:03		
	Mid-flood:	20:01			Mid-flood:	21:35			Mid-Flood:	23:05		



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	Time Weather		L10	L90	Leq	Leq	Leq
						Unit: dB	(A), (30-min)	
30/04/13	10:25	Fine	72.7 75.5 68.0		72	63	75	
07/05/13	8:42	Cloudy	74.3	74.3 76.5 70.0 72		72	70	75
16/05/13	11:18	Cloudy	73.1 75.5 68.0		72	66	75	
21/05/13	15:40	Fine	71.6 73.5 68.5		72	72	75	

Location: M2b - Noon-day gun area

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level	
Date	Time	Weather	er Leq L10 L90 Leq Leq		Leq	Leq			
						Unit: dB	A), (30-min)		
30/04/13	10:50	Fine	71.0	71.0 72.0 69.0		68	68	75	
07/05/13	9:44	Cloudy	73.5	76.0	70.0	68	72	75	
16/05/13	13:00	Cloudy	69.5	69.5 70.5 68.0		68	65	75	
21/05/13	16:15	Fine	74.5	78.0	70.0	68	74	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	
						Unit: dB	B(A), (30-min)		
30/04/13	13:40	Fine	67.3 69.0 64.5		69	67	75		
07/05/13	13:00	Cloudy	66.7	68.0	64.5	69	67	75	
18/05/13	9:56	Cloudy	67.3	69.0	64.5	69	67	75	
21/05/13	8:00	Fine	68.4	68.4 69.0 64.5		69	68	75	

* Due to adverse weather condition, daytime noise monitoring at M3a was rescheduled from 16 May 2013 to 18 May 2013.

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB	(A), (30min)	
30/04/13	13:00	Fine	70.5 72.0 67.5		67	68	75	
07/05/13	10:41	Cloudy	68.9 70.0 67.0		67	64	75	
18/05/13	10:45	Cloudy	69.0 70.0 67.5		67	64	75	
21/05/13	9:00	Fine	68.8 70.0 67.0		67	63	75	

* Due to adverse weather condition, daytime noise monitoring at M4b was rescheduled from 16 May 2013 to 18 May 2013.

Location: M5b - City Garden

		Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Time	Weather	Leq L10 L90 Leq		Leq	Leq		
					Unit: dE	B(A), (30min)	
14:35	Fine	73.0	74.0	70.5	68	71	75
11:30	Fine	67.6	68.5	64.0	68	68	75
11:28	Cloudy	70.1	70.5	69.0	68	66	75
9:45	Cloudy	73.4 75.0 70		70.5	68	72	75
	14:35 11:30 11:28	14:35 Fine 11:30 Fine 11:28 Cloudy	Time Weather Leq 14:35 Fine 73.0 11:30 Fine 67.6 11:28 Cloudy 70.1	Time Weather Leq L10 14:35 Fine 73.0 74.0 11:30 Fine 67.6 68.5 11:28 Cloudy 70.1 70.5	14:35 Fine 73.0 74.0 70.5 11:30 Fine 67.6 68.5 64.0 11:28 Cloudy 70.1 70.5 69.0	Time Weather Leq L10 L90 Leq 14:35 Fine 73.0 74.0 70.5 68 11:30 Fine 67.6 68.5 64.0 68 11:28 Cloudy 70.1 70.5 69.0 68	Time Weather Leq L10 L90 Leq Leq Leq 14:35 Fine 73.0 74.0 70.5 68 71 11:30 Fine 67.6 68.5 64.0 68 68 11:28 Cloudy 70.1 70.5 69.0 68 66

* Due to adverse weather condition, daytime noise monitoring at M5b was rescheduled from 16 May 2013 to 18 May 2013.

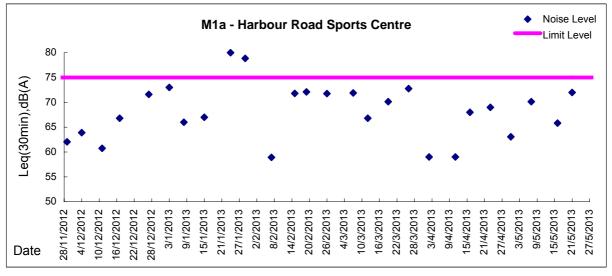
Location:	M6 - HK Baptist Church Henrietta Secondary School
Location.	NO - TIX Daptist Church Hernetta Secondary School

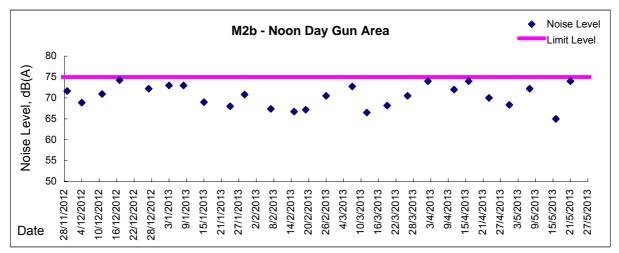
				ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB	(A), (30-min)	
02/05/13	15:05	Fine	74.9	74.9 76.0		71	73	70
07/05/13	14:04	Cloudy	74.0	75.0	72.0	71	71	70
18/05/13	14:13	Cloudy	72.9	74.0	70.5	71	69	70
21/05/13	10:30	Fine	74.6 76.0 72.0		71	72	70	

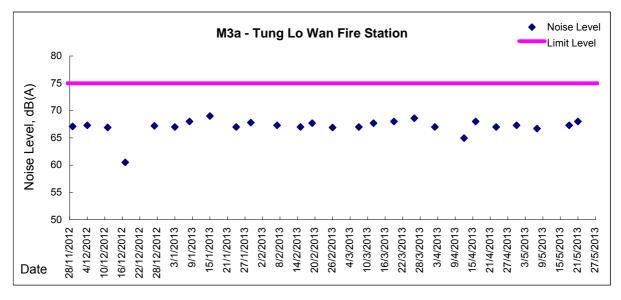
* Due to adverse weather condition, daytime noise monitoring at M6 was rescheduled from 16 May 2013 to 18 May 2013.



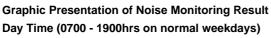
Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

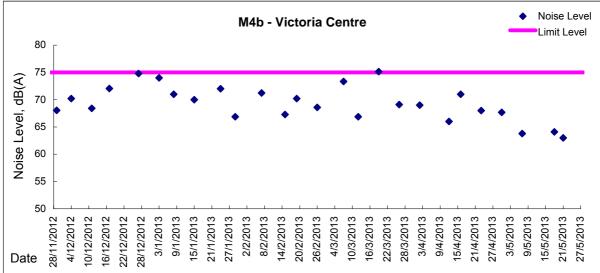


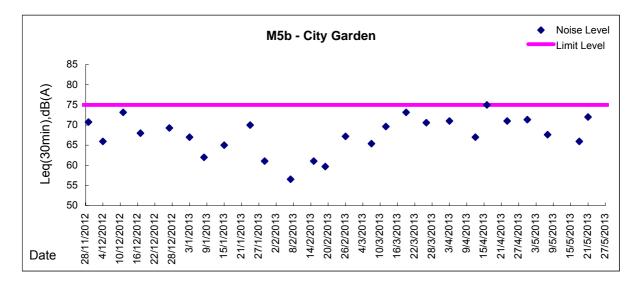


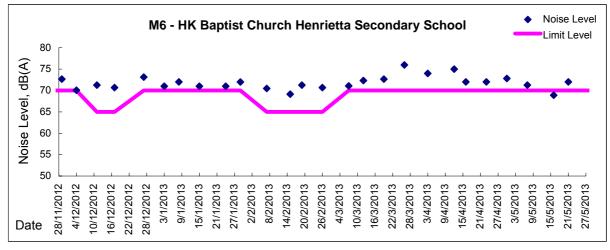














Appendix 5.3

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

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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, g		Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μ g/m ³
1-May-13	8:00	Cloudy	004686	2.6912	2.7527	2758.18	2782.18	24.00	1.24	1.25	1.24	1791	34
7-May-13	8:00	Cloudy	006142	2.6387	2.6954	2785.18	2809.18	24.00	1.24	1.24	1.24	1787	32
13-May-13	8:00	Cloudy	006177	2.6477	2.7991	2812.18	2836.18	24.00	1.24	1.23	1.23	1778	85
18-May-13	8:00	Cloudy	005595	2.8764	2.9555	2839.18	2863.18	24.00	1.23	1.23	1.23	1772	45
24-May-13	8:00	Cloudy	005615	2.7458	2.8424	2869.07	2893.07	24.00	1.23	1.23	1.23	1776	54

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	ie, 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	μ g/m ³
2-May-13	8:02	Cloudy	006159	2.6640	2.6745	2782.18	2783.18	1.00	1.29	1.29	1.29	77	136
2-May-13	9:25	Cloudy	006161	2.6612	2.6738	2783.18	2784.18	1.00	1.29	1.29	1.29	77	163
2-May-13	13:00	Cloudy	006162	2.6585	2.6733	2784.18	2785.18	1.00	1.29	1.29	1.29	77	191
8-May-13	8:03	Cloudy	006155	2.6538	2.6656	2809.18	2810.18	1.00	1.20	1.20	1.20	72	164
8-May-13	9:05	Cloudy	006153	2.6769	2.6860	2810.18	2811.18	1.00	1.24	1.24	1.24	74	122
8-May-13	10:10	Cloudy	006151	2.6504	2.6591	2811.18	2812.18	1.00	1.24	1.24	1.24	74	117
14-May-13	8:10	Cloudy	005587	2.8678	2.8806	2836.18	2837.18	1.00	1.23	1.23	1.23	74	173
14-May-13	9:20	Cloudy	005590	2.8726	2.8830	2837.18	2838.18	1.00	1.23	1.23	1.23	74	140
14-May-13	10:30	Cloudy	005593	2.8735	2.8824	2838.18	2839.18	1.00	1.23	1.23	1.23	74	120
20-May-13	8:05	Cloudy	005621	2.7355	2.7400	2863.18	2864.18	1.00	1.23	1.23	1.23	74	61
20-May-13	13:10	Cloudy	005619	2.7254	2.7315	2864.18	2865.18	1.00	1.23	1.23	1.23	74	83
20-May-13	15:15	Cloudy	005603	2.8759	2.8814	2865.18	2866.18	1.00	1.23	1.23	1.23	74	75
25-May-13	8:15	Hazy	005693	2.7374	2.7434	2893.07	2894.07	1.00	1.24	1.24	1.24	74	81
25-May-13	9:25	Hazy	005695	2.7720	2.7761	2894.07	2895.07	1.00	1.24	1.24	1.24	74	55
25-May-13	10:30	Hazy	005697	2.7342	2.7394	2895.07	2896.07	1.00	1.24	1.24	1.24	74	70

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, 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/m ³
1-May-13	8:00	Cloudy	004778	2.8198	2.9706	12497.67	12521.67	24.00	1.45	1.46	1.45	2093	72
7-May-13	8:00	Cloudy	006147	2.6531	2.7829	12524.67	12548.67	24.00	1.39	1.39	1.39	1999	65
13-May-13	8:00	Cloudy	006176	2.6551	2.7822	12551.66	12575.66	24.00	1.38	1.38	1.38	1990	64
18-May-13	8:00	Cloudy	005596	2.8875	2.9994	12578.66	12602.67	24.01	1.38	1.38	1.38	1985	56
24-May-13	8:00	Cloudy	005614	2.8438	2.9184	12605.69	12629.69	24.00	1.30	1.30	1.30	1869	40

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, 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/m ³
2-May-13	8:16	Cloudy	006156	2.6642	2.6739	12521.67	12522.67	1.00	1.44	1.44	1.44	86	113
2-May-13	9:50	Cloudy	006160	2.6685	2.6782	12522.67	12523.67	1.00	1.41	1.41	1.41	85	114
2-May-13	13:00	Cloudy	006157	2.6634	2.6719	12523.67	12524.67	1.00	1.27	1.27	1.27	76	112
8-May-13	8:04	Cloudy	006154	2.6443	2.6548	12548.66	12549.67	1.01	1.43	1.43	1.43	87	121
8-May-13	9:07	Cloudy	006152	2.6608	2.6701	12549.67	12550.67	1.00	1.37	1.37	1.37	82	113
8-May-13	10:10	Cloudy	002585	2.7349	2.7473	12550.67	12551.67	1.00	1.41	1.41	1.41	85	147
14-May-13	8:05	Cloudy	005586	2.8806	2.8874	12575.67	12576.67	1.00	1.38	1.38	1.38	83	82
14-May-13	9:10	Cloudy	005589	2.8599	2.8684	12576.67	12577.67	1.00	1.38	1.38	1.38	83	103
14-May-13	10:20	Cloudy	005592	2.8692	2.8761	12577.67	12578.67	1.00	1.38	1.38	1.38	83	83
20-May-13	8:10	Cloudy	005624	2.7402	2.7483	12602.69	12603.68	0.99	1.34	1.34	1.34	79	102
20-May-13	14:05	Cloudy	005618	2.7395	2.7436	12603.68	12604.68	1.00	1.34	1.34	1.34	80	51
20-May-13	13:10	Cloudy	005620	2.7297	2.7340	12604.68	12605.68	1.00	1.34	1.34	1.34	80	54
25-May-13	8:05	Hazy	005697	2.7440	2.7504	12629.69	12630.69	1.00	1.34	1.34	1.34	81	79
25-May-13	9:15	Hazy	005694	2.7506	2.7556	12630.69	12631.69	1.00	1.22	1.22	1.22	73	68
25-May-13	10:25	Hazy	005696	2.7487	2.7530	12631.69	12632.69	1.00	1.34	1.34	1.34	81	53



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 paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	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
2-May-13	14:30	Cloudy	003718	2.7647	2.9433	13335.88	13359.88	24.00	1.63	1.64	1.63	2352	76
7-May-13	8:00	Cloudy	006148	2.6268	2.8688	13359.83	13383.83	24.00	1.52	1.52	1.52	2184	111
13-May-13	8:00	Cloudy	006171	2.6742	2.8444	13387.29	13411.29	24.00	1.60	1.60	1.60	2303	74
18-May-13	8:00	Cloudy	003711	2.7602	2.8591	13414.67	13438.61	23.94	1.60	1.59	1.59	2290	43
24-May-13	8:00	Cloudy	005052	2.7482	2.8756	13441.66	13465.65	23.99	1.60	1.60	1.60	2299	55

*Due to lack of electricity supply, the 24hr-TSP monitoring was rescheduled from 01 May 2013 to 02 May 2013.

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	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
2-May-13	8:00	Cloudy	004945	2.7766	2.7885	13332.88	13333.88	1.00	1.57	1.57	1.57	94	126
2-May-13	9:03	Cloudy	004942	2.7773	2.7909	13333.88	13334.88	1.00	1.59	1.59	1.59	95	142
2-May-13	13:00	Cloudy	004941	2.7915	2.8043	13334.88	13335.88	1.00	1.52	1.52	1.52	91	140
8-May-13	9:35	Cloudy	006093	2.6288	2.6460	13383.73	13384.73	1.00	1.52	1.52	1.52	91	189
8-May-13	10:56	Cloudy	006137	2.6409	2.6607	13384.73	13385.73	1.00	1.52	1.52	1.52	91	218
8-May-13	13:00	Cloudy	006170	2.6810	2.6974	13385.73	13386.73	1.00	1.52	1.52	1.52	91	180
14-May-13	11:00	Cloudy	006130	2.6438	2.6564	13411.62	13412.62	1.00	1.69	1.69	1.69	101	124
14-May-13	13:15	Cloudy	004271	2.6866	2.6974	13412.62	13413.62	1.00	1.67	1.67	1.67	100	108
14-May-13	14:30	Cloudy	005599	2.8848	2.8946	13413.62	13414.62	1.00	1.51	1.51	1.51	91	108
20-May-13	8:30	Cloudy	005657	2.7501	2.7591	13438.61	13439.61	1.00	1.50	1.50	1.50	90	100
20-May-13	9:35	Cloudy	005656	2.7423	2.7513	13440.61	13441.61	1.00	1.50	1.50	1.50	90	100
20-May-13	10:42	Cloudy	005655	2.7496	2.7592	13441.61	13442.61	1.00	1.50	1.50	1.50	90	106
25-May-13	9:00	Hazy	006872	2.6170	2.6253	13465.65	13466.65	1.00	1.47	1.47	1.47	88	94
25-May-13	10:50	Hazy	006874	2.6331	2.6362	13466.65	13467.65	1.00	1.47	1.47	1.47	88	35
25-May-13	13:00	Hazy	006876	2.6200	2.6257	13467.65	13468.65	1.00	1.47	1.47	1.47	88	65

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

 Action Level (μg/m3) 171.2

 Limit Level (μg/m3) 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /ı	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/m ³
1-May-13	8:00	Cloudy	004689	2.7239	2.8645	16647.58	16671.58	24.00	1.35	1.35	1.35	1941	72
7-May-13	8:00	Cloudy	004937	2.7830	2.9463	16674.58	16698.58	24.00	1.35	1.34	1.35	1937	84
13-May-13	8:00	Cloudy	006139	2.6434	2.7520	16701.58	16725.58	24.00	1.30	1.30	1.30	1872	58
20-May-13	15:12	Cloudy	005651	2.7545	2.8303	16731.59	16755.59	24.00	1.30	1.30	1.30	1869	41
24-May-13	8:00	Cloudy	005646	2.7520	2.8251	16755.60	16779.59	23.99	1.26	1.26	1.26	1812	40

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

Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w 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/m ³
2-May-13	8:20	Cloudy	004949	2.7781	2.7861	16671.58	16672.58	1.00	1.31	1.31	1.31	79	102
2-May-13	9:25	Cloudy	004943	2.8048	2.8144	16672.58	16673.58	1.00	1.31	1.31	1.31	79	122
2-May-13	13:00	Cloudy	004940	2.8050	2.8121	16673.58	16674.58	1.00	1.37	1.37	1.37	82	86
8-May-13	8:45	Cloudy	006092	2.6222	2.6303	16648.58	16649.58	1.00	1.34	1.34	1.34	81	100
8-May-13	9:50	Cloudy	006135	2.6533	2.6642	16649.58	16650.58	1.00	1.34	1.34	1.34	81	135
8-May-13	10:55	Cloudy	006138	2.6507	2.6631	16650.58	16651.58	1.00	1.34	1.34	1.34	81	154
14-May-13	8 8:10	Cloudy	006126	2.6809	2.6883	16725.58	16726.58	1.00	1.32	1.32	1.32	79	93
14-May-13	9:30	Cloudy	006128	2.6737	2.6813	16726.58	16727.59	1.01	1.22	1.26	1.24	75	101
14-May-13	3 13:00	Cloudy	006129	2.6580	2.6643	16727.58	16728.59	1.01	1.14	1.14	1.14	69	91
20-May-13	3 10:01	Cloudy	004272	2.6911	2.7037	16728.59	16729.59	1.00	1.26	1.26	1.26	75	167
20-May-13	13:00	Cloudy	005654	2.7346	2.7393	16729.59	16730.59	1.00	1.14	1.14	1.14	68	69
20-May-13	3 14:09	Cloudy	005653	2.7302	2.7373	16730.59	16731.59	1.00	1.26	1.26	1.26	75	94
25-May-13	9:05	Hazy	005616	2.7203	2.7243	16779.59	16780.59	1.00	1.22	1.22	1.22	73	55
25-May-13	8 10:40	Hazy	006873	2.6286	2.6314	16780.59	16781.59	1.00	1.18	1.18	1.18	71	40
25-May-13	3 13:00	Hazy	006875	2.6409	2.6441	16781.59	16782.59	1.00	1.22	1.28	1.25	75	43

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level (µg/m3) -Limit Level (µg/m3) -181 260

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/m³
1-May-13	8:00	Cloudy	006143	2.6775	2.7871	17646.57	17670.57	24.00	1.39	1.39	1.39	2002	55
7-May-13	8:00	Cloudy	006105	2.6222	2.7151	17673.57	17697.57	24.00	1.32	1.32	1.32	1900	49
13-May-13	8:00	Cloudy	006124	2.6813	2.7793	17700.57	17724.57	24.00	1.36	1.36	1.36	1955	50
18-May-13	8:00	Cloudy	005685	2.7308	2.8015	17727.57	17751.57	24.00	1.33	1.33	1.33	1917	37
24-May-13	8:00	Cloudy	005690	2.7566	2.8512	17754.57	17778.57	24.00	1.33	1.33	1.33	1921	49

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

Limit Level (µg/m3) -500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w 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
2-May-13	13:00	Cloudy	006168	2.6669	2.6731	17670.57	17671.57	1.00	1.23	1.23	1.23	74	84
2-May-13	14:13	Cloudy	006101	2.6095	2.6139	17671.57	17672.57	1.00	1.39	1.39	1.39	84	53
2-May-13	15:16	Cloudy	006103	2.6094	2.6150	17672.57	17673.57	1.00	1.42	1.42	1.42	85	66
8-May-13	8:20	Cloudy	006119	2.6784	2.6860	17697.57	17698.57	1.00	1.36	1.36	1.36	82	93
8-May-13	9:25	Cloudy	006121	2.6717	2.6791	17698.57	17699.57	1.00	1.36	1.36	1.36	82	90
8-May-13	10:30	Cloudy	006125	2.6739	2.6833	17699.57	17700.57	1.00	1.36	1.36	1.36	82	115
14-May-13	8 8:45	Cloudy	006173	2.6740	2.6936	17724.57	17725.57	1.00	1.36	1.36	1.36	81	241
14-May-13	9:50	Cloudy	005658	2.7456	2.7519	17725.57	17726.57	1.00	1.36	1.36	1.36	81	77
14-May-13	3 13:00	Cloudy	005660	2.7379	2.7466	17726.57	17727.57	1.00	1.36	1.36	1.36	81	107
20-May-13	8 8:25	Cloudy	005186	2.7169	2.7242	17751.57	17752.57	1.00	1.33	1.33	1.33	80	91
20-May-13	9:30	Cloudy	005688	2.7571	2.7630	17752.57	17753.57	1.00	1.33	1.33	1.33	80	74
20-May-13	10:55	Cloudy	005689	2.7541	2.7600	17753.57	17754.57	1.00	1.33	1.33	1.33	80	74
25-May-13	8 8:05	Hazy	005606	2.8883	2.8940	17778.57	17779.57	1.00	1.31	1.31	1.31	79	72
25-May-13	9:08	Hazy	005682	2.7396	2.7439	17779.57	17780.57	1.00	1.31	1.31	1.31	79	55
25-May-13	8 10:11	Hazy	005733	2.8574	2.8617	17780.57	17781.57	1.00	1.31	1.31	1.31	79	55

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

		0	
Action Level -	187.3	µg/m3	
Limit Level -	260	µg/m3	

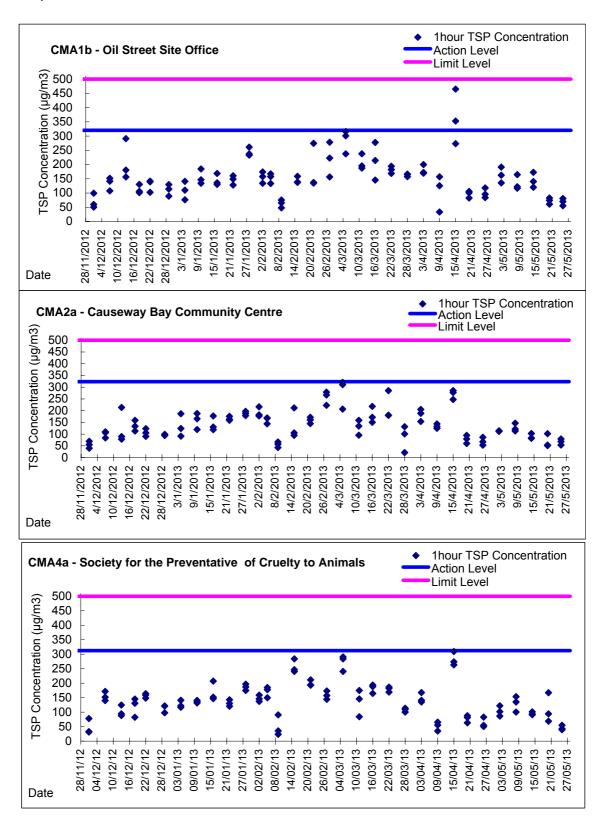
Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
1-May-13	8:00	Cloudy	006146	2.6586	2.7558	15960.78	15984.78	24.00	1.34	1.35	1.34	1934	50
7-May-13	8:00	Cloudy	006104	2.5966	2.6861	15987.78	16011.78	24.00	1.26	1.26	1.26	1809	49
13-May-13	8:00	Cloudy	006131	2.6650	2.7544	16014.78	16038.78	24.00	1.29	1.29	1.29	1861	48
18-May-13	8:00	Cloudy	005721	2.8616	2.9897	16041.78	16065.78	24.00	1.33	1.33	1.33	1915	67
24-May-13	8:00	Cloudy	005691	2.7393	2.8210	16068.78	16092.78	24.00	1.50	1.50	1.50	2159	38

Report on 1-hour TSP monitoring Action Level - 300.1 μ g/m³ Limit Level - 500 μ g/m3

Date	Sampling	Weather	Filter paper	Filter Weigh	it, 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/m³
2-May-13	13:00	Cloudy	006167	2.6856	2.6960	15984.78	15985.78	1.00	1.32	1.32	1.32	79	131
2-May-13	14:03	Cloudy	006169	2.6672	2.6745	15985.78	15986.78	1.00	1.26	1.26	1.26	76	96
2-May-13	15:07	Cloudy	006102	2.6296	2.6336	15987.78	15988.78	1.00	1.30	1.30	1.30	78	51
8-May-13	8:10	Cloudy	006118	2.6720	2.6769	16011.78	16012.78	1.00	1.21	1.21	1.21	73	67
8-May-13	9:13	Cloudy	006120	2.7049	2.7099	16012.78	16013.78	1.00	1.19	1.19	1.19	72	70
8-May-13	10:15	Cloudy	006122	2.6632	2.6689	16013.78	16014.78	1.00	1.19	1.19	1.19	72	80
14-May-13	8:35	Cloudy	006172	2.6942	2.7035	16038.78	16039.78	1.00	1.29	1.29	1.29	78	120
14-May-13	9:50	Cloudy	006174	2.6614	2.6697	16039.78	16040.78	1.00	1.29	1.29	1.29	78	107
14-May-13	13:00	Cloudy	005659	2.7314	2.7413	16040.78	16041.78	1.00	1.29	1.29	1.29	78	128
20-May-13	8:15	Cloudy	003713	2.7434	2.7492	16065.78	16066.78	1.00	1.29	1.29	1.29	77	75
20-May-13	9:17	Cloudy	005687	2.7428	2.7493	16066.78	16067.78	1.00	1.29	1.29	1.29	77	84
20-May-13	10:40	Cloudy	005622	2.7321	2.7430	16067.78	16068.78	1.00	1.29	1.29	1.29	77	141
25-May-13	8:11	Hazy	005670	2.7561	2.7612	16092.78	16093.78	1.00	1.29	1.29	1.29	78	66
25-May-13	9:15	Hazy	005683	2.7309	2.7360	16093.78	16094.78	1.00	1.29	1.29	1.29	78	66
25-May-13	10:30	Hazy	005735	2.8699	2.8754	16094.78	16095.78	1.00	1.29	1.29	1.29	78	71

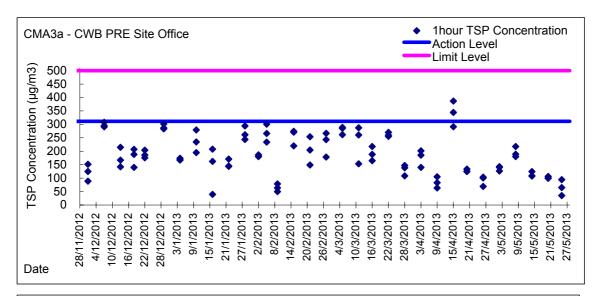


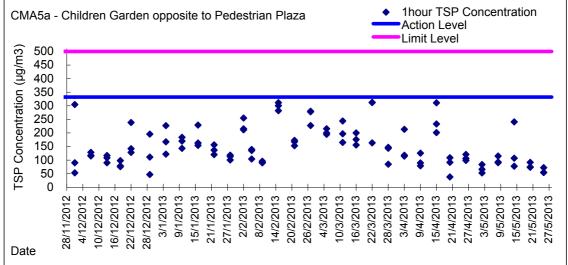
Graphic Presentation of 1 hour TSP Result

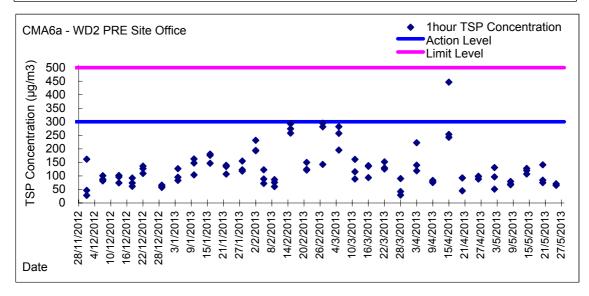




Graphic Presentation of 1 hour TSP Result

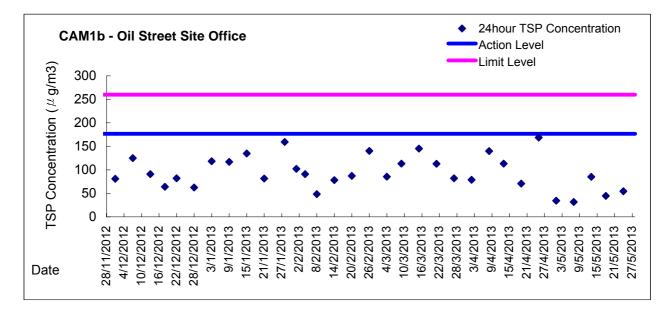


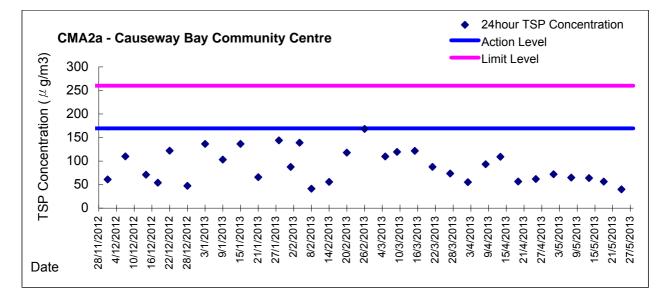


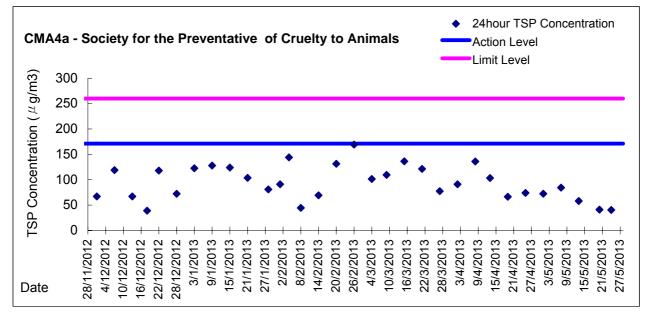




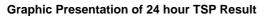
Graphic Presentation of 24 hour TSP Result

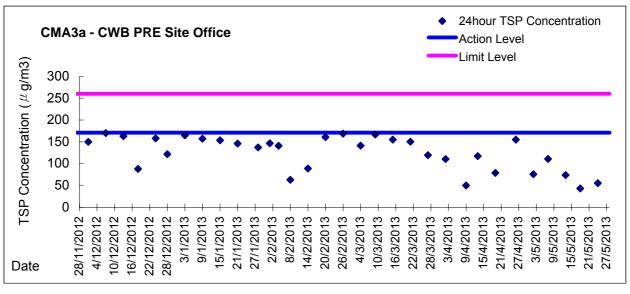


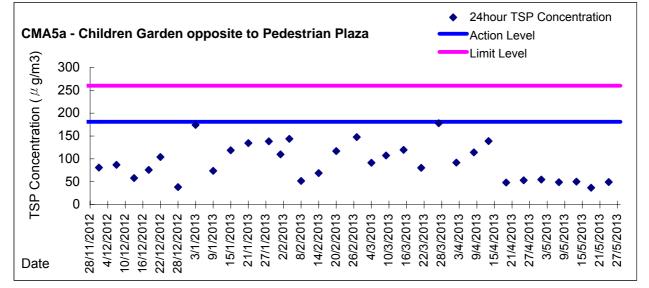


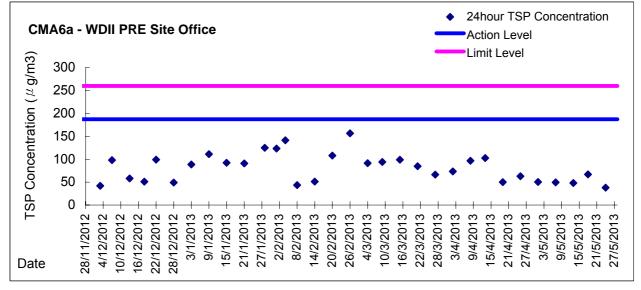














Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	g/∟ Average
00/4/0040	6:35	Olaudu	Middle	2.5	22.20	22.20	00.00	8.14	8.14	0.11	33.73	33.73	00.70	76.3	76.3	70.4	5.46	5.46	E 47	2.73	2.73	0.75	3	
29/4/2013	6:37	Cloudy	Middle	2.5	22.20	22.20	22.20	8.14	8.14	8.14	33.73	33.73	33.73	76.2	76.7	76.4	5.46	5.48	5.47	2.79	2.74	2.75	3	3.00
2/5/2013	7:35	Fine	Middle	2.5	20.10	20.10	20.10	8.26	8.26	8.26	33.40	33.40	33.41	75.5	75.8	75.8	5.66	5.67	5.67	3.22	3.24	3.25	4	3.50
213/2013	7:37	TINC	Middle	2.5	20.10	20.10	20.10	8.26	8.26	0.20	33.42	33.42	55.41	75.7	76.2	75.0	5.64	5.72	5.67	3.24	3.31	0.20	3	5.50
4/5/2013	11:30	Cloudy	Middle	3.0	21.60	21.60	21.60	8.25	8.25	8.25	33.20	33.20	33.22	79.9	80.6	79.5	5.81	5.86	5.78	2.56	2.56	2.60	5	4.50
	11:32		Middle	3.0	21.60	21.60		8.24	8.24		33.23	33.23		78.8	78.7		5.73	5.72		2.62	2.65		4	
6/5/2013	18:36	Cloudy	Middle	3.0	22.46	22.46	22.47	8.03	8.03	8.03	34.53	34.53	34.53	66.9	66.5	66.3	4.74	4.71	4.70	7.39	7.50	7.48	8	7.00
0/0/2010	18:38	cloudy	Middle	3.0	22.47	22.47	22.47	8.03	8.03	0.00	34.52	34.52	04.00	66.2	65.6	00.0	4.69	4.65	4.70	7.50	7.54	1.40	6	1.00
9/5/2013	20:52	Sunny	Middle	2.5	23.40	23.40	23.50	8.06	8.06	8.06	32.86	32.86	32.68	83.9	84.8	84.0	5.89	5.95	5.88	4.00	4.17	4.08	5	5.50
	20:53	,	Middle	2.5	23.60	23.60		8.06	8.06		32.49	32.49		84.5	82.7		5.89	5.80		3.92	4.22		6	
11/5/2013	17:57	Fine	Middle	2.0	24.50	24.50	24.55	7.99	7.99	7.99	31.95	31.95	31.96	85.0	86.0	84.2	5.89	5.96	5.83	4.03	3.87	4.00	3	3.50
	17:58		Middle	2.0	24.60	24.60		7.99	7.99		31.97	31.97		82.1	83.5		5.69	5.79		3.95	4.16		4	
13/5/2013	19:17	Fine	Middle	2.0	26.40	26.40	26.40	7.95	7.95	7.96	31.64	31.64	31.64	85.6	86.9	85.9	5.77	5.85	5.79	2.33	2.59	2.38	4	4.00
	19:18		Middle	2.0	26.40	26.40		7.96	7.96		31.64	31.64		86.2	84.8		5.81	5.71		2.21	2.37		4	
15/5/2013	22:25	Fine	Middle	2.5	25.70	25.70	25.75	8.00	8.00	8.00	31.29	31.29	31.29	86.7	87.4	86.8	5.91	5.96	5.90	2.89	2.93	2.92	4	3.50
	22:26		Middle	2.5	25.80	25.80		8.00	8.00		31.28	31.28		87.6	85.3		5.92	5.82		2.99	2.88	-	3	
18/5/2013	0:25	Cloudy	Middle	2.5	25.00	25.00	25.00	8.02	8.02	8.02	31.00	31.00	31.02	84.4	82.6	83.7	5.84	5.93	5.85	2.41	2.50	2.33	3	3.00
	0:26		Middle	2.5	25.00	25.00		8.01	8.01		31.03	31.03		84.6	83.2		5.85	5.76		2.21	2.18		3	
21/5/2013	2:25	Cloudy	Middle	2.5	26.00	26.00	26.00	8.03	8.03	8.06	28.71	28.71	28.74	90.4	90.9	90.1	6.24	6.26	6.22	2.37	2.34	2.34	5	5.00
	2:26		Middle	2.5	26.00	26.00		8.09	8.09		28.76	28.76		90.3	88.9		6.23	6.13		2.30	2.36		5	
22/5/2013	13:55	Cloudy	Middle	3.0	24.81	24.81	24.81	8.15	8.15	8.15	29.46	29.46	29.46	78.5	78.4	78.2	5.50	5.48	5.47	2.56	2.54	2.54	6	5.50
	13:57		Middle	3.0	24.81	24.81		8.15	8.15		29.46	29.46		78.1	77.9		5.46	5.45		2.52	2.53		5	
24/5/2013	17:57	Cloudy	Middle	2.0	25.90	25.90	25.90	8.18	8.18	8.18	30.26	30.26	30.26	96.6	95.7	95.7	6.61	6.55	6.55	2.98	3.00	2.99	6	6.50
	17:58		Middle	2.0	25.90	25.90		8.18	8.18		30.26	30.27		95.5	94.8		6.54	6.49		2.94	3.04		7	
27/5/2013	5:05	Cloudy	Middle	2.5	26.00	26.00	26.00	8.11	8.11	8.11	28.98	28.98	28.98	88.4	89.3	88.3	6.07	6.14	6.06	1.33	1.35	1.30	3	3.50
	5:06		Middle	2.5	26.00	26.00		8.11	8.11		28.98	28.98		87.8	87.5		6.03	6.01		1.29	1.23		4	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU			ed Solids
		Condition	n	n	Va		Average	Va	lue	Average	Va		Average	Va		Average	Va	lue	Average	Va		Average		Average
29/4/2013	8:00	Cloudy	Middle	4.0	22.30	22.30	22.30	8.16	8.16	8.17	33.68	33.68	33.68	75.9	76.8	76.1	5.42	5.48	5.43	7.81	7.82	7.82	9	8.50
	8:02		Middle	4.0	22.30	22.30		8.17	8.17		33.68	33.68		75.9	75.7		5.42	5.41		7.83	7.83		8	
2/5/2013	12:25	Fine	Middle	3.5	21.40	21.40	21.35	8.23	8.23	8.23	34.07	34.07	34.07	80.6	80.9	80.6	5.85	5.87	5.85	6.37	6.35	6.35	5	5.50
	12:27		Middle	3.5	21.30	21.30		8.23	8.23		34.07	34.07		80.5	80.3		5.85	5.84		6.35	6.34		6	<u> </u>
4/5/2013	12:36	Cloudy	Middle	3.5	22.00	22.00	22.00	8.22	8.22	8.22	33.72	33.72	33.72	78.2	77.7	77.8	5.62	5.58	5.59	5.81	5.74	5.71	3	3.50
	12:38		Middle	3.5	22.00	22.00		8.22	8.22		33.72	33.72		77.7	77.4		5.59	5.57		5.65	5.62		4	
6/5/2013	16:15	Cloudy	Middle	3.0	22.65	22.65	22.66	8.04	8.04	8.04	35.06	35.06	35.06	68.4	68.7	68.7	4.82	4.84	4.84	5.50	5.49	5.47	5	5.50
	16:17		Middle	3.0	22.66	22.66		8.04	8.04		35.06	35.06		68.6	68.9		4.84	4.86		5.45	5.43		6	
9/5/2013	18:20	Sunny	Middle	2.5	23.70	23.70	23.70	8.06	8.06	8.06	31.54	31.54	31.52	77.7	82.7	80.1	5.48	5.80	5.62	9.19	9.39	9.08	17	<u>17.50</u>
	18:21		Middle	2.5	23.70	23.70		8.06	8.06		31.50	31.50		81.3	78.7		5.69	5.52		8.92	8.82		18	
11/5/2013	18:56	Fine	Middle	2.5	24.20	24.20	24.30	8.01	8.01	8.01	32.02	32.02	32.02	77.5	79.0	78.3	5.39	5.49	5.44	9.62	9.54	9.29	10	9.50
	18:57		Middle	2.5	24.40	24.40		8.01	8.01		32.02	32.02		79.0	77.7		5.48	5.40		9.02	8.96		9	
13/5/2013	20:15	Fine	Middle	2.5	26.30	26.30	26.30	8.01	8.01	8.02	32.19	32.19	32.19	81.4	81.1	81.2	5.48	5.46	5.46	8.21	8.14	8.06	16	16.00
	20:16		Middle	2.5	26.30	26.30		8.02	8.02		32.19	32.19		80.2	81.9		5.38	5.51		7.89	7.98		16	
15/5/2013	0:13	Fine	Middle	2.5	24.70	24.70	24.75	8.03	8.03	8.04	32.00	32.00	32.00	80.4	80.0	79.7	5.55	5.50	5.50	3.03	3.04	2.92	4	3.50
	0:14		Middle	2.5	24.80	24.80		8.04	8.04		32.00	32.00		78.8	79.4		5.47	5.48		2.87	2.74		3	
18/5/2013	2:11	Cloudy	Middle	2.5	24.50	24.50	24.50	8.06	8.06	8.06	32.07	32.07	32.07	83.3	83.4	83.6	5.79	5.80	5.81	3.00	3.10	2.98	<2	2.00
	2:12		Middle Middle	2.5	24.50	24.50		8.06	8.06		32.07	32.07 28.17		83.5	84.0		5.80	5.83		2.95	2.86		2	
21/5/2013	3:53 3:54	Cloudy	Middle	3.0 3.0	25.60 25.70	25.60 25.70	25.65	8.16 8.16	8.16 8.16	8.16	28.17 28.17	28.17	28.17	93.3 91.4	94.9 91.3	92.7	6.49 6.36	6.60 6.35	6.45	2.80 2.72	2.85 2.69	2.77	6	5.00
	14:25		Middle	3.5	24.99	24.99		8.07	8.07		27.34	27.34		88.0	87.5		6.23	6.15		4.71	4.71		7	
22/5/2013	14:27	Cloudy	Middle	3.5	25.90	25.00	25.22	8.07	8.07	8.07	27.34	27.34	27.34	87.3	86.9	87.4	6.18	6.15	6.18	4.70	4.68	4.70	8	7.50
	18:55		Middle	2.5	24.90	24.90		8.16	8.16		32.24	32.24		90.4	91.9		6.23	6.37		3.27	3.25		5	$\left \right $
24/5/2013	18:56	Cloudy	Middle	2.5	24.90	24.90	24.90	8.16	8.16	8.16	32.24	32.24	32.24	90.3	90.0	90.7	6.22	6.20	6.26	3.11	3.15	3.20	5	5.00
	6:45		Middle	3.0	25.80	25.80		8.12	8.12		29.14	29.14	l	87.1	87.5		6.00	6.02		1.96	1.91		6	<u> </u>
27/5/2013	6:46	Cloudy	Middle	3.0	25.00	26.00	25.65	8.12	8.12	8.12	29.15	29.15	29.15	87.6	86.8	87.3	6.03	5.98	6.01	1.83	1.85	1.89	6	6.00

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	
		Condition	r	n	Va		Average	Va	lue	Average	Va	ppt lue	Average	Va		Average	Va	5	Average	Va		Average		Average
29/4/2013	9:28	Claudy	Middle	1.5	23.20	23.20	23.25	7.96	7.96	7.97	32.66	32.66	32.66	59.5	60.5	60.1	4.20	4.28	4.24	2.83	2.84	2.83	<2	<2
29/4/2013	9:30	Cloudy	Middle	1.5	23.30	23.30	23.25	7.97	7.97	7.97	32.66	32.66	52.00	60.3	60.2	00.1	4.24	4.22	4.24	2.83	2.83	2.03	<2	~2
2/5/2013	11:26	Fine	Middle	1.5	21.80	21.80	21.75	8.06	8.06	8.06	32.96	32.96	32.96	66.3	66.6	66.8	4.80	4.83	4.84	3.24	3.23	3.23	<2	<2
2/3/2013	11:28	1 line	Middle	1.5	21.70	21.70	21.75	8.06	8.06	0.00	32.96	32.96	32.90	67.0	67.1	00.0	4.86	4.87	4.04	3.23	3.22	5.25	<2	~2
4/5/2013	14:06	Cloudy	Middle	1.5	21.90	21.90	21.90	8.12	8.12	8.12	32.71	32.71	32.71	59.8	59.5	59.3	4.33	4.31	4.30	3.47	3.47	3.50	3	3.00
	14:08		Middle	1.5	21.90	21.90		8.12	8.12		32.71	32.71		59.3	58.6		4.29	4.25		3.47	3.58		3	
6/5/2013	15:52	Cloudy	Middle	1.5	22.98	22.98	22.98	7.93	7.93	7.93	33.93	33.93	33.93	57.8	57.7	57.9	4.07	4.07	4.08	2.72	2.68	2.68	10	9.50
	15:54	,	Middle	1.5	22.98	22.98		7.93	7.93		33.92	33.92		58.1	58.0		4.10	4.09		2.66	2.66		9	
9/5/2013	17:40	Sunny	Middle	1.0	25.80	25.80	25.80	7.89	7.89	7.90	31.20	31.20	31.21	85.5	87.4	85.6	5.83	5.96	5.84	2.93	2.99	2.94	2	2.50
	17:41		Middle	1.0	25.80	25.80		7.91	7.91		31.21	31.21		84.4	84.9		5.75	5.80		2.97	2.86		3	
11/5/2013	18:30	Fine	Middle	1.0	25.60	25.60	25.65	7.86	7.86	7.87	30.27	30.27	30.27	81.2	79.4	78.2	5.49	5.35	5.28	3.07	3.18	3.05	2	3.00
	18:31		Middle	1.0	25.70	25.70		7.87	7.87		30.27	30.27		76.2	76.1		5.15	5.14		2.95	2.99		4	
13/5/2013	19:40	Fine	Middle	1.0	26.30	26.30	26.30	7.84	7.84	7.84	30.88	30.88	30.88	84.6	88.9	86.4	5.74	6.03	5.86	2.09	2.14	2.15	3	3.00
	19:41		Middle	1.0	26.30	26.30		7.84	7.84		30.88	30.88		85.3	86.7		5.78	5.88		2.17	2.19		3	
15/5/2013	23:47	Fine	Middle	1.0	25.50	25.50	25.50	7.83	7.83	7.83	30.61	30.61	30.62	64.2	66.0	65.4	4.41	4.54	4.50	2.02	1.89	1.87	3	3.00
	23:48		Middle	1.0	25.50	25.50		7.83	7.83		30.62	30.62		66.1	65.1		4.55	4.48		1.81	1.76		3	
18/5/2013	1:40	Cloudy	Middle	1.0	25.00	25.00	25.05	7.72	7.72	7.72	29.19	29.19	29.20	56.4	56.8	56.5	3.94	3.98	3.95	1.41	1.32	1.35	4	3.50
	1:41		Middle	1.0	25.10	25.10		7.71	7.71		29.20	29.20		57.0	55.6		3.98	3.89		1.30	1.37		3	
21/5/2013	3:26	Cloudy	Middle	1.5	26.00	26.00	26.00	7.81	7.81	7.82	24.09	24.09	24.10	63.9	64.7	64.1	4.53	4.58	4.54	2.11	2.03	2.05	4	4.00
	3:27		Middle	1.5	26.00	26.00		7.82	7.82		24.10	24.10		64.0	63.7		4.53	4.51		2.01	2.05		4	
22/5/2013	16:49 16:52	Cloudy	Middle Middle	1.5 1.5	25.00 25.01	25.00 25.01	25.01	7.82 7.81	7.82 7.81	7.82	22.98 22.98	22.98 22.98	22.98	67.0 65.5	66.9 65.4	66.2	4.86 4.75	4.85 4.74	4.80	2.24	2.24 2.23	2.24	6 5	5.50
	16:52		Middle	1.5	25.01	25.01		7.81	7.81		22.98	22.98		81.5	81.2		4.75 5.60	4.74 5.58		1.58	1.59		3	
24/5/2013	18:31	Cloudy	Middle	1.0	26.10	26.10	26.10	7.97	7.97	7.97	28.79	28.79	28.79	80.0	79.3	80.5	5.60	5.56	5.53	1.56	1.59	1.55	3	3.50
	6:18		Middle	1.5	26.10	26.10		7.97	7.97		25.62	25.62		81.6	79.3 81.2		5.49	5.45 5.62		1.35	1.30		4 5	
27/5/2013	6:19	Cloudy	Middle	1.5	26.20	26.20	26.15	7.86	7.86	7.89	25.62	25.62	25.62	80.6	78.8	80.6	5.63	5.50	5.61	1.30	1.32	1.33	6	5.50
	0.19		wildule	1.5	20.20	20.20		00.1	1.00		20.02	20.02		0.00	10.0		0.00	5.50		1.30	1.33		U	

Remarks:

Single underline denotes exceedance over Action Level.

am Water Monitoring Result at C1 - HKCEC Extension

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		A
29/4/2013	10:10	Cloudy	Middle	2.5	22.30	22.30	22.40	8.38	8.38	8.37	34.88	34.88	34.88	70.4	69.5	68.9	4.99	4.93	
29/4/2013	10:12	Cloudy	Middle	2.5	22.50	22.50	22.40	8.35	8.35	0.57	34.88	34.88	34.00	68.3	67.2	00.9	4.84	4.76	
2/5/2013	9:50	Fine	Middle	2.5	21.30	21.30	21.20	8.42	8.41	8.42	34.70	34.70	34.71	68.1	68.4	67.9	4.93	4.96	
2/3/2013	9:52	Fille	Middle	2.5	21.10	21.10	21.20	8.43	8.43	0.42	34.72	34.72	54.71	68.0	67.2	07.9	4.93	4.87	
4/5/2013	14:25	Cloudy	Middle	2.5	21.60	21.60	21.60	8.26	8.26	8.26	33.84	33.84	33.84	67.4	67.8	67.9	4.87	4.91	
4/3/2013	14:27	Cloudy	Middle	2.5	21.60	21.60	21.00	8.26	8.26	0.20	33.84	33.84	55.64	68.3	68.0	07.9	5.05	4.92	
6/5/2013	15:59	Cloudy	Middle	2.5	22.30	22.30	22.20	8.11	8.11	8.11	33.32	33.32	33.32	58.6	59.5	58.4	4.22	4.28	
0/3/2013	16:01	Cloudy	Middle	2.5	22.10	22.10	22.20	8.10	8.10	0.11	33.32	33.32	33.32	58.0	57.4	50.4	4.18	4.13	
9/5/2013	17:55	Sunny	Middle	2.0	24.70	24.70	24.55	8.08	8.08	8.08	33.07	33.07	33.07	65.2	64.9	64.8	4.51	4.48	
9/5/2015	17:57	Sulliny	Middle	2.0	24.40	24.40	24.55	8.07	8.07	0.00	33.06	33.06	55.07	64.6	64.4	04.0	4.46	4.45	l
11/5/2013	19:01	Fine	Middle	2.0	23.70	23.70	00.75	8.07	8.07	0.07	32.31	32.31	22.22	68.1	67.9	67.7	4.77	4.76	
11/5/2013	19:03	Fine	Middle	2.0	23.80	23.80	23.75	8.07	8.07	8.07	32.35	32.35	32.33	67.4	67.2	67.7	4.73	4.72	
12/5/2012	20:42	Fine	Middle	2.5	23.60	23.60	00.65	8.10	8.10	8.10	32.45	32.45	22.45	72.9	72.6	70.7	5.11	5.09	
13/5/2013	20:44	Fine	Middle	2.5	23.70	23.70	23.65	8.10	8.10	0.10	32.45	32.45	32.45	72.7	72.4	72.7	5.10	5.08	
45/5/0040	21:10	Circ e	Middle	2.0	24.50	24.50	04.55	8.09	8.09	0.00	32.12	32.12	00.44	59.2	60.3	00.0	4.11	4.19	
15/5/2013	21:12	Fine	Middle	2.0	24.60	24.60	24.55	8.08	8.08	8.09	32.10	32.10	32.11	61.8	60.9	60.6	4.28	4.23	l
18/5/2013	0:28	Claudu	Middle	2.0	24.20	24.20	24.25	8.09	8.09	8.09	31.75	31.75	31.74	65.5	66.5	66.0	4.58	4.66	
16/5/2013	0:30	Cloudy	Middle	2.0	24.30	24.30	24.20	8.09	8.09	6.09	31.73	31.73	31.74	65.9	65.9	00.0	4.61	4.61	l
04/5/0040	0:18	Olavata	Middle	2.5	26.10	26.10	00.40	8.25	8.25	0.05	26.60	26.60	00.00	87.1	87.3	00.0	6.12	6.08	
21/5/2013	0:20	Cloudy	Middle	2.5	26.10	26.10	26.10	8.25	8.25	8.25	26.60	26.60	26.60	87.0	86.3	86.9	6.07	6.02	
22/5/2012	15:45	Claude	Middle	2.5	24.70	24.70	24.70	8.17	8.17	0.17	28.10	28.10	28.40	73.2	73.5	70.4	5.17	5.20	
22/5/2013		Cloudy					24.70			8.17			28.10			73.4			1

8.17

8.15

8.14

8.19

8.19

25.30

25.10

8.17

8.15

8.14

8.19

8.19

8.15

8.19

28.10 28.10

31.14 31.14

31.08 31.08

29.43

29.43

29.43

29.43

73.2

68.5

69.7

73.4

73.7

31.11

29.43

73.5

69.4

69.4

73.6

73.7

Turbidity

NTU

3.28

2.76

2.59

1.08

1.26

1.92

1.79

3.11

3.07

4.01

3.97

2.71

2.68

4.72

4.60

3.32

3.57

2.38

4.52

4.56

1.80

1.74

3.16

3.17

Average

3.30

2.79

1.18

1.95

3.10

4.00

2.71

4.62

3.38

2.42

4.53

1.81

3.15

Value

3.43 3.24

3.23

2.89

2.90

1.18

1.18

2.20

1.89

3.15

3.08

4.04

3.99

2.76

2.70

4.53

4.63

3.31

3.32

2.37

4.51

4.54

1.94

1.75

3.15

3.13

2.42 2.49

Average

4.88

4.92

4.94

4.20

4.48

4.75

5.10

4.20

4.62

6.07

5.18

4.77

5.12

5.16

4.72

4.80

5.11

5.13

69.3

73.6

5.19

4.77

4.77

5.13

5.12

Suspended Solids

mg/L

5

5

4

4

8

7

9

10

4

4

6

6

5

3

5

4

5

5

4

3

6

7

4

4

4

2

Value Average

5.00

4.00

7.50

9.50

4.00

6.00

4.00

4.50

5.00

3.50

6.50

4.00

3.00

Mid-Flood Tide

1

Remarks:

24/5/2013

27/5/2013

Single underline denotes exceedance over Action Level.

15:47

16:40

16:42

8:35

8:37

Cloudy

Cloudy

Middle

Middle

Middle

Middle

Middle

2.5

2.0

2.0

2.5

2.5

24.70 24.70

25.10 25.10

25.50 25.50

25.10 25.10

25.10 25.10

Water Monitoring Result at P3 - APA Mid-Flood Tide

DO Saturation Time Weater Sampling Depth Water Temperature pН Salinity DO Turbidity Suspended Solids Date Condition mg/L NTU ppt mg/L m Value Average Middle 2.0 22.20 22.20 8.37 34.76 70.4 9:40 8.37 34.76 70.2 5.04 5.01 4.17 4.34 6 29/4/2013 22.25 8.36 34.76 70.0 4.99 4.18 5.50 Cloudy 9:42 2.0 8.34 34.76 34.76 69.3 4.98 4.32 Middle 22.30 22.30 8.34 70.0 4.93 3.89 5 10:20 Middle 3.0 20.90 20.90 8.27 8.27 35.17 35.17 73.0 72.9 5.32 5.32 2.94 2.81 5 8.27 20.75 2/5/2013 Fine 35.17 72.4 5.28 2.96 4.50 10:22 Middle 3.0 20.60 20.60 8.26 8.26 35.16 35.16 72.2 71.3 5.27 5.20 3.13 2.97 4 14:00 Middle 2.5 21.60 21.60 8.78 8.78 34.11 34.11 73.5 73.7 5.39 5.31 2.12 2.16 4 8.78 4/5/2013 Cloudy 21.60 34.11 73.7 5.33 2.10 4.00 14:02 2.5 21.60 21.60 8.78 8.78 34.11 34.11 73.6 73.8 5.30 5.32 1.96 2.15 Middle 4 2.5 8.12 33.37 60.3 3.43 15:26 Middle 22.10 22.10 8.12 33.37 60.0 4.32 4.34 3.54 11 8.12 33.37 6/5/2013 Cloudy 22.10 60.9 4.38 3.38 10.00 15:28 Middle 2.5 22.10 22.10 8.12 8.12 33.36 33.36 61.4 61.8 4.42 4.45 3.28 3.26 9 18:34 Middle 2.5 24.20 24.20 8.07 8.07 33.08 33.08 66.9 66.6 4.64 4.61 2.67 2.63 5 24.00 8.07 66.4 4.60 9/5/2013 Sunnv 33.09 2.61 5.00 18:36 Middle 2.5 23.80 23.80 8.07 8.07 33.09 33.09 66.2 65.8 4.59 4.56 2.59 2.56 5 19:34 Middle 2.5 23.60 23.60 8.09 8.09 32.25 32.25 68.7 68.3 4.82 4.80 3.63 3.62 9 11/5/2013 Fine 23.60 8.09 32.25 68.3 4.80 3.59 9.00 19:36 Middle 2.5 23.60 23.60 8.08 8.08 32.25 32.25 68.1 67.9 4.79 4.78 3.57 3.55 9 21:05 Middle 2.5 23.60 23.60 8.10 8.10 32.42 32.42 63.6 64.3 4.47 4.52 2.74 2.88 5 13/5/2013 Fine 23.60 8.10 32.42 64.5 4.51 2.83 5.00 21:07 2.5 23.60 23.60 8.10 8.10 32.42 32.42 65.7 64.2 4.53 4.51 2.86 2.85 Middle 5 20:42 Middle 2.0 24.70 24.70 8.11 8.11 31.97 31.97 64.4 64.1 4.45 4.43 3.51 3.57 4 15/5/2013 Fine 24.80 8.11 31.96 63.3 4.38 3.57 4.00 20:44 Middle 2.0 24.90 24.90 8.10 8.10 31.94 31.94 63.1 61.7 4.37 4.27 3.58 3.61 4 23:53 Middle 2.0 24.30 24.30 8.07 8.07 31.73 31.73 59.7 59.2 4.17 4.13 3.27 3.23 8 24.30 8.07 18/5/2013 Cloudy 31.73 59.4 4.15 3.26 9.00 23:55 Middle 59.5 3.29 2.0 24.30 24.30 8.07 8.07 31.72 31.72 59.2 4.13 4.15 3.24 10 0:42 Middle 2.5 25.70 25.70 8.29 8.29 26.31 26.31 88.2 88.2 6.27 6.19 1.77 1.81 3 21/5/2013 Cloudy 25.70 8.29 26.31 88.3 6.22 1.81 2.50 0:44 2.5 25.70 25.70 8.29 8.29 26.31 26.31 88.6 88.1 6.22 6.19 1.82 1.85 2 Middle 2.5 24.70 24.70 8.19 63.0 63.1 4.47 4.47 3.82 16:20 Middle 8.19 28.14 28.14 3.83 6 22/5/2013 Cloudy 24.70 8.19 28.14 63.9 4.51 3.83 6.00 16:22 24.70 24.70 8.19 64.2 65.2 4.52 4.58 3.80 Middle 2.5 8.19 28.14 28.14 3.86 6 17:20 2.0 25.80 25.80 8.13 8.13 30.90 30.90 73.3 73.6 5.02 5.06 2.13 2.24 Middle 6 24/5/2013 Cloudy 25.80 8.13 30.90 73.4 5.04 2.16 5.00 17:22 73.4 73.2 2.12 2.0 25.80 25.80 8.13 8.13 30.90 5.03 5.03 2.16 Middle 30.90 4 25.20 69.8 8:14 Middle 2.5 25.20 8.15 8.15 29.22 29.22 69.3 4.83 4.84 3.17 3.19 3 27/5/2013 Cloudy 25.20 8.15 29.22 69.5 4.83 3.20 4.00 8:16 Middle 2.5 25.20 8.15 8.15 29.22 29.22 69.6 69.2 4.85 4.81 3.20 3.22 5 25.20

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbic NTU		Suspend	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	ilue	Average	Va	alue	Average	Value	Average
29/4/2013	9:30	Claudu	Middle	2.0	22.20	22.20	22.25	8.37	8.37	8.36	34.75	34.75	04 7E	77.8	76.4	75.0	5.54	5.44	E 40	2.98	3.30	2.07	6	6.00
29/4/2013	9:32	Cloudy	Middle	2.0	22.30	22.30	22.20	8.34	8.34	0.30	34.74	34.74	34.75	75.1	74.2	75.9	5.35	5.28	5.40	2.99	2.99	3.07	6	0.00
2/5/2013	10:32	Fine	Middle	2.5	21.50	21.50	21.35	8.31	8.31	8.29	35.04	35.04	35.04	66.8	66.8	66.1	4.81	4.81	4.77	2.88	2.69	2.66	4	4.00
2/3/2013	10:34	1 IIIC	Middle	2.5	21.20	21.20	21.55	8.27	8.27	0.29	35.04	35.04	33.04	65.1	65.8	00.1	4.70	4.75	4.77	2.49	2.56	2.00	4	4.00
4/5/2013	13:50	Cloudy	Middle	3.0	21.80	21.00	21.60	8.50	8.50	8.50	34.72	34.72	34.72	70.0	70.1	70.2	5.01	5.02	5.04	2.26	2.21	2.24	7	7.00
410/2010	13:52	cloudy	Middle	3.0	21.80	21.80	21.00	8.50	8.50	0.00	34.72	34.72	04.72	70.3	70.5	10.2	5.04	5.07	0.04	2.16	2.33	2.24	7	1.00
6/5/2013	15:14	Cloudy	Middle	2.5	22.10	22.10	22.10	8.13	8.13	8.12	33.39	33.39	33.41	62.3	60.6	62.0	4.46	4.35	4.45	2.48	2.63	2.49	7	7.50
010/2010	15:16	cloudy	Middle	2.5	22.10	22.10	22.10	8.11	8.11	0.12	33.42	33.42	00.41	60.6	64.5	02.0	4.36	4.64	-1.10	2.47	2.36	2.40	8	1.00
9/5/2013	18:54	Sunnv	Middle	2.5	24.00	24.00	23.95	8.09	8.09	8.09	33.04	33.04	33.05	66.1	65.9	65.8	4.60	4.59	4.59	2.64	2.61	2.59	9	8.50
	18:56		Middle	2.5	23.90	23.90		8.09	8.09		33.05	33.05		65.8	65.5		4.59	4.57		2.56	2.54		8	
11/5/2013	20:13	Fine	Middle	2.5	23.90	23.90	23.80	8.09	8.09	8.09	32.14	32.14	32.17	69.5	69.1	69.0	4.85	4.82	4.81	2.67	2.64	2.62	5	4.50
1.10,2010	20:15		Middle	2.5	23.70	23.70	20.00	8.09	8.09	0.00	32.19	32.19	02.11	68.8	68.5	00.0	4.80	4.78		2.60	2.58	2.02	4	
13/5/2013	21:15	Fine	Middle	2.5	23.60	23.60	23.60	8.10	8.10	8.10	32.37	32.37	32.37	67.0	66.9	66.8	4.71	4.70	4.69	2.16	2.11	2.08	3	- 3.50
	21:17		Middle	2.5	23.60	23.60		8.10	8.10		32.37	32.37		66.2	67.1		4.65	4.71		2.07	1.99		4	
15/5/2013	20:29	Fine	Middle	2.0	24.90	24.90	24.90	8.13	8.13	8.13	31.47	31.47	31.47	75.5	75.6	75.0	5.22	5.23	5.19	3.12	3.13	3.08	6	6.50
	20:31		Middle	2.0	24.90	24.90		8.12	8.12		31.46	31.46		75.0	74.0		5.19	5.12		3.09	2.96		7	
18/5/2013	23:43	Cloudy	Middle	2.0	24.30	24.30	24.35	8.05	8.05	8.06	31.61	31.61	24.61	66.2	65.9	65.5	4.62	4.60	4.57	3.19	3.22	3.23	3	- 3.50
	23:45		Middle	2.0	24.40	24.40		8.06	8.06		31.60	3.60		64.7	65.1		4.52	4.54		3.25	3.27		4	
21/5/2013	0:49	Cloudy	Middle	2.5	25.70	25.70	25.70	8.29	8.29	8.29	26.45	26.45	26.45	87.6	87.8	87.7	6.15	6.16	6.16	2.14	2.13	2.16	2	2.50
	0:51		Middle	2.5	25.70	25.70		8.29	8.29		26.45	26.45		88.2	87.3		6.19	6.13		2.17	2.18		3	<u> </u>
22/5/2013	16:30	Cloudy	Middle	2.5	24.90	24.90	24.90	8.17	8.17	8.17	27.86	27.86	27.86	66.3	68.4	67.8	4.68	4.89	4.84	2.74	2.73	3.22	4	5.00
	16:32		Middle	2.5	24.90	24.90		8.17	8.17		27.86	27.86		69.6	67.0		4.91	4.88		3.71	3.68		6	
24/5/2013	17:05	Cloudy	Middle	2.0	25.60	25.60	25.60	8.15	8.15	8.15	30.89	30.89	30.89	74.3	74.1	74.1	5.13	5.12	5.11	2.00	2.01	2.02	4	4.00
	17:07		Middle	2.0	25.60	25.60		8.15	8.15		30.89	30.89		74.0	73.9		5.10	5.09		2.03	2.03		4	<u> </u>
27/5/2013	8:07	Cloudy	Middle	3.0	25.30	25.30	25.30	8.16	8.16	8.16	29.10	29.10	29.10	69.2	69.8	69.2	4.82	4.83	4.80	3.35	3.36	3.37	4	4.50
	8:09		Middle	3.0	25.30	25.30		8.16	8.16		29.10	29.10		68.9	68.7		4.79	4.77		3.38	3.39		5	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	r	n	Va	0	Average	Va	lue	Average	Va	lue ppt	Average	Va	lue	Average	Va		Average	Va		Average	Value	Average
29/4/2013	10:00	Cloudy	Middle	1.5	22.50	22.50	22.55	8.33	8.33	8.32	34.72	34.72	34.72	50.5	51.0	50.6	3.56	3.61	3.58	3.67	3.57	3.63	6	6.50
29/4/2013	10:02	Cloudy	Middle	1.5	22.60	22.60	22.00	8.30	8.30	0.32	34.71	34.71	34.72	50.8	50.2	50.0	3.59	3.55	3.36	3.69	3.58	3.03	7	0.50
2/5/2013	10:00	Fine	Middle	1.5	21.30	21.30	21.15	8.47	8.47	8.45	34.84	34.84	34.83	67.2	67.7	67.9	4.87	4.91	4.92	3.65	3.72	3.57	8	8.00
2/3/2013	10:02	1 me	Middle	1.5	21.00	21.00	21.15	8.42	8.42	0.45	34.82	34.82	34.05	68.3	68.4	07.9	4.95	4.96	4.92	3.57	3.35	3.57	8	0.00
4/5/2013	14:18	Cloudy	Middle	2.5	21.60	21.60	21.60	8.39	8.39	8.39	35.05	35.05	35.05	76.0	75.7	75.6	5.47	5.45	5.44	1.14	1.34	1.27	7	7.50
4/0/2010	14:20	Cloudy	Middle	2.5	21.60	21.60	21.00	8.39	8.39	0.00	35.05	35.05	00.00	75.5	75.0	10.0	5.43	5.40	0.44	1.21	1.39	1.27	8	1.00
6/5/2013	15:47	Cloudy	Middle	2.0	22.10	22.10	22.10	8.10	8.10	8.10	33.44	33.44	33.44	65.4	65.2	65.1	4.70	4.69	4.68	2.18	2.06	2.10	7	8.00
0/0/2010	15:49	Cloudy	Middle	2.0	22.10	22.10	22.10	8.09	8.09	0.10	33.43	33.43	00.11	65.1	64.8	00.1	4.68	4.66	4.00	2.18	1.96	2.10	9	0.00
9/5/2013	18:05	Sunny	Middle	2.0	24.30	24.30	24.25	8.06	8.06	8.06	33.06	33.06	33.06	70.3	70.1	70.1	4.86	4.85	4.85	3.57	3.54	3.53	3	3.00
0,0,2010	18:07	ounny	Middle	2.0	24.20	24.20	21.20	8.06	8.06	0.00	33.06	33.06	00.00	70.0	69.8		4.85	4.84	1.00	3.51	3.48	0.00	3	0.00
11/5/2013	19:12	Fine	Middle	2.0	23.80	23.80	23.75	8.06	8.06	8.06	32.22	32.22	32.22	69.1	68.8	68.8	4.85	4.83	4.83	2.83	2.80	2.79	8	7.50
	19:14		Middle	2.0	23.70	23.70	20.10	8.06	8.06	0.00	32.22	32.22	02.22	68.7	68.5	00.0	4.83	4.82		2.77	2.76	20	7	
13/5/2013	20:55	Fine	Middle	2.5	23.80	23.80	23.80	8.10	8.10	8.10	32.49	32.49	32.49	72.7	73.0	72.7	5.07	5.10	5.08	3.22	3.43	3.31	4	3.50
	20:57		Middle	2.5	23.80	23.80		8.10	8.10		32.49	32.49		72.4	72.6		5.06	5.07		3.31	3.26		3	
15/5/2013	21:01	Fine	Middle	2.0	24.60	24.60	24.75	8.09	8.09	8.09	32.14	32.14	32.12	71.9	70.0	71.3	4.97	4.84	4.93	6.48	6.47	6.45	6	6.50
	21:03		Middle	2.0	24.90	24.90		8.09	8.09		32.10	32.10		70.2	73.2	-	4.85	5.05		6.44	6.42		7	
18/5/2013	0:18	Cloudy	Middle	2.0	24.20	24.20	24.25	8.07	8.07	8.07	31.72	31.72	31.71	61.0	60.8	61.2	4.26	4.25	4.27	2.62	2.69	2.67	3	3.00
	0:20	,	Middle	2.0	24.30	24.30		8.07	8.07		31.69	31.69		60.4	62.5	-	4.22	4.36		2.71	2.67		3	
21/5/2013	0:28	Cloudy	Middle	2.5	26.10	26.10	26.10	8.27	8.27	8.27	26.62	26.62	26.62	85.5	84.9	84.9	5.96	5.92	5.91	2.10	2.04	2.02	3	2.50
	0:30	,	Middle	2.5	26.10	26.10		8.27	8.27		26.62	26.62		84.7	84.3		5.90	5.87		1.97	1.96		2	
22/5/2013	16:15	Cloudy	Middle	2.5	24.80	24.80	24.80	8.16	8.16	8.16	27.81	27.81	27.83	70.2	71.0	70.7	4.97	5.00	4.99	4.27	4.29	4.30	6	6.00
	16:17	,	Middle	2.5	24.80	24.80		8.16	8.16		27.84	27.84		70.9	70.6		5.01	4.98		4.31	4.33		6	
24/5/2013	16:50	Cloudy	Middle	2.0	25.70	25.70	25.70	8.13	8.13	8.13	30.81	30.81	30.81	74.6	74.9	74.7	5.10	5.12	5.10	2.37	2.39	2.39	11	11.00
	16:52	,	Middle	2.0	25.70	25.70		8.13	8.13		30.81	30.81		75.0	74.4		5.11	5.08		2.40	2.40		11	
27/5/2013	8:30	Cloudy	Middle	2.5	25.30	25.30	25.30	8.18	8.18	8.18	29.49	29.49	29.49	70.2	70.4	70.4	4.87	4.88	4.89	3.48	3.49	3.50	6	6.00
2.7.5.20.15	8:32	cically	Middle	2.5	25.30	25.30	20.00	8.18	8.18	0.10	29.49	29.49	20.10	70.4	70.7		4.89	4.90		3.50	3.51	0.00	6	0.00

Remarks:

Single underline denotes exceedance over Action Level.

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
29/4/2013	9:50	Cloudy	Middle	1.5	22.20	22.20	22.30	8.46	8.46	8.46	34.81	34.81	34.81	72.2	68.2	68.7	5.13	4.85	4.89	4.28	4.05	4.00	6	6.50
29/4/2013	9:52	Cloudy	Middle	1.5	22.40	22.40	22.30	8.45	8.45	0.40	34.80	34.80	34.01	67.4	67.1	00.7	4.79	4.77	4.09	4.01	3.67	4.00	7	0.50
0/5/0010	10:09	Fine	Middle	2.5	21.00	21.00	21.00	8.25	8.25	0.05	34.98	34.98	25.00	66.8	67.3	67 E	4.87	4.91	4.02	2.64	2.70	2.60	5	4.50
2/5/2013	10:11	Fine	Middle	2.5	21.00	21.00	21.00	8.24	8.24	8.25	35.02	35.02	35.00	67.6	68.4	67.5	4.94	4.99	4.93	2.39	2.67	2.60	4	4.50
4/5/2013	14:10	Cloudy	Middle	2.5	21.60	21.60	21.60	8.53	8.53	8.53	35.04	35.04	35.04	76.8	75.9	76.3	5.52	5.46	5.49	1.11	1.16	1.25	4	4.50
4/3/2013	14:12	Cloudy	Middle	2.5	21.60	21.60	21.00	8.53	8.53	0.55	35.04	35.04	33.04	76.1	76.3	70.5	5.48	5.50	5.45	1.32	1.41	1.25	5	4.50
6/5/2013	15:38	Cloudy	Middle	2.5	22.10	22.10	22.10	8.11	8.11	8.11	33.34	33.34	33.34	66.6	65.9	65.5	4.78	4.74	4.71	3.23	3.27	3.23	12	11.50
0/5/2015	15:40	Cloudy	Middle	2.5	22.10	22.10	22.10	8.11	8.11	0.11	33.34	33.34	55.54	64.7	64.6	05.5	4.65	4.65	4.71	3.37	3.06	5.25	11	11.50
9/5/2013	18:17	Sunny	Middle	2.0	24.40	24.40	24.40	8.08	8.08	8.08	33.05	33.05	33.06	72.1	72.1	72.0	5.00	5.00	4.99	3.28	3.26	3.24	8	8.50
9/3/2013	18:19	Sunny	Middle	2.0	24.40	24.40	24.40	8.08	8.08	0.00	33.07	33.07	33.00	71.9	71.7	72.0	4.98	4.97	4.55	3.23	3.18	5.24	9	0.50
11/5/2013	19:21	Fine	Middle	2.0	23.50	23.50	23.45	8.08	8.08	8.08	32.25	32.25	32.25	68.4	68.3	68.2	4.80	4.80	4.79	3.54	3.52	3.50	10	10.00
11/3/2013	19:23	1 IIIC	Middle	2.0	23.40	23.40	23.43	8.08	8.08	0.00	32.24	32.24	52.25	68.1	68.0	00.2	4.78	4.78	4.73	3.49	3.44	5.50	10	10.00
13/5/2013	21:00	Fine	Middle	2.5	23.60	23.60	23.60	8.11	8.11	8.11	32.46	32.46	32.46	67.4	67.8	67.9	4.73	4.76	4.74	2.85	2.73	2.94	6	6.00
10/0/2010	21:02	TINC	Middle	2.5	23.60	23.60	23.00	8.11	8.11	0.11	32.46	32.46	32.40	68.4	67.8	07.5	4.70	4.75	4.74	2.99	3.18	2.04	6	0.00
15/5/2013	20:52	Fine	Middle	2.0	24.60	24.60	24.70	8.11	8.11	8.11	32.00	32.00	31.98	73.7	73.9	72.6	5.11	5.05	5.01	3.97	3.94	3.89	4	4.00
10/0/2010	20:54		Middle	2.0	24.80	24.80	24.70	8.10	8.10	0.11	31.96	31.96	01.00	72.2	70.7	12.0	5.00	4.89	0.01	3.85	3.80	0.00	4	4.00
18/5/2013	0:03	Cloudy	Middle	2.0	24.20	84.20	39.25	8.08	8.08	8.08	31.71	31.71	31.70	61.9	63.1	62.6	4.33	4.41	4.38	2.19	2.24	2.27	6	6.50
10/0/2010	0:05	cloudy	Middle	2.0	24.30	24.30	00.20	8.07	8.07	0.00	31.69	31.69	01.70	63.4	62.0	02.0	4.43	4.33	4.00	2.30	2.33	2.21	7	0.00
21/5/2013	0:36	Cloudy	Middle	2.5	26.30	26.30	26.30	8.28	8.28	8.28	26.51	26.51	26.51	82.9	82.7	83.5	5.75	5.75	5.81	1.89	1.90	1.89	3	3.00
2110/2010	0:38	cloudy	Middle	2.5	26.30	26.30	20.00	8.28	8.28	0.20	26.51	26.51	20.01	84.1	84.3	66.6	5.86	5.87	0.01	1.88	1.87	1.00	3	0.00
22/5/2013	16:10	Cloudy	Middle	2.5	25.00	25.00	25.10	8.16	8.16	8.16	27.42	27.42	27.42	57.6	57.5	57.4	4.07	4.04	4.18	5.26	5.27	5.26	6	5.50
	16:12	0.0003	Middle	2.5	25.40	25.00	20.10	8.16	8.16	0.10	27.42	27.42	272	57.3	57.1		4.62	4.00		5.29	5.23	0.20	5	0.00
24/5/2013	16:57	Cloudy	Middle	2.0	25.00	25.00	25.00	8.14	8.14	8.14	30.91	30.91	30.91	74.0	74.5	74.4	5.10	5.13	5.12	2.29	2.30	2.33	3	3.50
24/0/2010	16:59	Cioudy	Middle	2.0	25.00	25.00	20.00	8.14	8.14	0.14	30.91	30.91	00.01	74.5	74.5	17.7	5.13	5.13	0.12	2.30	2.41	2.00	4	0.00
27/5/2013	8:21	Cloudy	Middle	2.5	25.10	25.10	25.10	8.18	8.18	8.18	29.52	29.52	29.52	68.5	68.8	68.4	4.76	4.77	4.75	2.78	2.79	2.80	8	7.00
2110/2010	8:23	Cloudy	Middle	2.5	25.10	25.10	20.10	8.18	8.18	0.10	29.52	29.52	20.02	68.2	68.0	00.7	4.73	4.72	7.75	2.80	2.82	2.00	6	1.00

Remarks:

Single underline denotes exceedance over Action Level.

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Water Monitoring Result at C5e - Sun Hung Kai Centre Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbid NTL			ed Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va	lue	Average	Va	lue	Average		Average
00///00/0	8:47		Middle	1.5	22.50	22.50	00.50	8.03	8.03	0.00	32.95	32.95	00.05	64.8	65.1		4.64	4.66	1.05	3.85	3.84	0.00	3	0.00
29/4/2013	8:49	Cloudy	Middle	1.5	22.50	22.50	22.50	8.03	8.03	8.03	32.95	32.95	32.95	64.8	65.0	64.9	4.63	4.65	4.65	3.75	3.74	3.80	3	3.00
2/5/2013	10:41	Fine	Middle	1.5	21.20	21.20	21.20	8.13	8.13	8.13	33.47	33.47	33.48	66.0	66.3	66.3	4.82	4.85	4.85	9.57	9.49	9.50	11	11.50
2/3/2013	10:43	Fille	Middle	1.5	21.20	21.20	21.20	8.13	8.13	0.13	33.48	33.48	33.40	66.5	66.5	00.3	4.86	4.86	4.00	9.47	9.46	9.50	12	11.50
4/5/2013	13:20	Cloudy	Middle	1.5	21.90	21.90	21.90	8.07	8.07	8.06	33.32	33.32	33.33	55.0	54.7	54.8	3.97	3.95	3.96	2.82	2.75	2.74	4	4.50
	13:22	cloudy	Middle	1.5	21.90	21.90	21.00	8.05	8.05	0.00	33.33	33.33	00.00	54.8	54.6	0110	3.96	3.94	0.00	2.71	2.69		5	
6/5/2013	15:07	Cloudy	Middle	1.5	22.61	22.61	22.62	7.82	7.82	7.82	33.93	33.93	33.93	55.2	53.6	53.7	3.92	3.81	3.81	2.26	2.28	2.22	7	6.50
	15:09		Middle	1.5	22.63	22.63		7.81	7.81		33.92	33.92		53.3	52.5		3.79	3.73		2.19	2.14		6	
9/5/2013	16:08	Sunny	Middle	1.0	25.30	25.30	25.35	7.81	7.81	7.81	30.96	30.96	30.96	70.2	70.2	70.2	4.83	4.83	4.83	5.27	5.34	5.17	11	10.50
	16:09		Middle	1.0	25.40	25.40		7.81	7.81		30.95	30.95		70.2	70.0		4.83	4.81		5.08	4.97		10	
11/5/2013	19:50	Fine	Middle	1.0	24.50	24.50	24.55	7.93	7.93	7.93	31.29	31.29	31.28	66.2	68.0	67.4	4.61	4.74	4.69	4.85	4.81	4.87	5	5.00
	19:51		Middle	1.0	24.60	24.60		7.93	7.93		31.27	31.27		66.7	68.5		4.64	4.77		5.05	4.78		5	
13/5/2013	20:50	Fine	Middle	1.0	26.30	26.30	26.30	7.86	7.86	7.86	31.15	31.15	31.20	79.0	81.0	80.6	5.34	5.48	5.46	2.90	2.61	2.67	6	6.00
	20:51		Middle	1.0	26.30	26.30		7.85	7.85		31.24	31.24		81.2	81.1		5.51	5.49		2.57	2.59		6	<u> </u>
15/5/2013	23:00	Fine	Middle	1.0	26.00	26.00	26.00	7.91	7.91	7.91	31.14	31.14	31.14	67.8	67.0	67.1	4.62	4.57	4.57	3.26	3.24	3.34	3	3.50
	23:01		Middle	1.0	26.00	26.00		7.90	7.90		31.14	31.14		66.7	66.7		4.54	4.54		3.45	3.39		4	<u> </u>
18/5/2013	1:05	Cloudy	Middle	1.0	25.10	25.10	25.15	7.79	7.79	7.79	30.39	3.39	23.64	57.3	58.0	57.2	3.97	4.02	3.96	3.01	3.03	2.94	2	2.00
	1:06		Middle	1.0	25.20	25.20		7.79	7.79		30.39	30.39		57.5	55.9		3.98	3.87		2.88	2.84		2	<u> </u>
21/5/2013	2:48	Cloudy	Middle	1.5	26.00	26.00	26.00	7.95	7.95	7.96	28.09	28.09	28.09	70.0	71.9	70.8	4.82	4.97	4.89	2.81	3.11	2.87	3	3.50
	2:49		Middle	1.5	26.00	26.00		7.96	7.96		28.09	28.09		70.6	70.8		4.89	4.89		2.86	2.68		4	<u> </u>
22/5/2013	15:57	Cloudy	Middle	1.5	25.45	25.45	25.45	7.90	7.90	7.90	28.64	28.64	28.64	71.6	71.0	71.0	4.99	4.95	4.94	3.55	3.55	3.56	8	8.50
	15:59		Middle	1.5	25.45	25.45		7.90	7.90		28.64	28.64		70.8	70.4		4.93	4.90		3.57	3.56		9	
24/5/2013	19:50	Cloudy	Middle	1.0	25.30	25.30	25.45	8.06	8.06	8.06	30.42	30.42	30.41	74.3	76.8	75.5	5.11	5.28	5.19	1.60	1.52	1.59	5	5.00
	19:51		Middle	1.0	25.60	25.60		8.05	8.05		30.40	30.40		75.7	75.2		5.21	5.17		1.57	1.66		5	
27/5/2013	5:50	Cloudy	Middle	1.0	26.30	26.30	26.30	7.98	7.98	7.99	27.74	27.74	27.74	87.0	85.4	85.8	6.00	5.89	5.91	1.20	1.23	1.21	2	2.00
	5:51		Middle	1.0	26.30	26.30		7.99	7.99		27.74	27.74		85.2	85.6		5.88	5.88		1.22	1.17		2	

Remarks:

Single underline denotes exceedance over Action Level.

Water Monitoring Result at C5w - Sun Hung Kai Centre Mid-Flood Tide

Date	Time	Weater Condition		ig Depth	Wat	er Temp	erature		pH			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTU	ity	Suspend	ed Solids
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/4/2013	8:50	Cloudy	Middle	1.5	22.40	22.40	22.40	8.04	8.04	8.04	32.97	32.97	32.97	66.4	66.8	66.6	4.75	4.78	4.77	1.32	1.32	1.32	2	2.50
	8:52		Middle	1.5	22.40	22.40		8.04	8.04		32.97	32.97		66.5	66.8		4.76	4.78		1.32	1.32		3	
2/5/2013	10:45	Fine	Middle	1.5	21.60	21.60	21.60	8.12	8.12	8.12	33.46	33.46	33.46	71.1	70.8	70.8	5.16	5.12	5.14	3.07	3.07	3.06	4	3.50
	10:47		Middle	1.5	21.60	21.60		8.12	8.12		33.46	33.46		70.8	70.6		5.14	5.13		3.07	3.04		3	
4/5/2013	13:24	Cloudy	Middle	1.5	22.10	22.10	22.15	8.11	8.11	8.11	33.40	33.40	33.40	64.6	64.3	64.1	4.64	4.62	4.61	5.27	5.25	5.29	4	4.00
	13:26		Middle	1.5	22.20	22.20		8.11	8.11		33.39	33.39		64.2	63.4		4.62	4.55		5.28	5.37		4	
6/5/2013	15:10	Cloudy	Middle	1.5	22.76	22.76	22.80	7.96	7.96	7.96	34.52	34.52	34.50	68.4	67.3	67.1	4.82	4.75	4.75	3.76	3.76	3.76	7	7.00
	15:12		Middle	1.5	22.84	22.84		7.95	7.95		34.47	34.47		66.4	66.4		4.71	4.70		3.76	3.75		7	
9/5/2013	16:18	Sunny	Middle	1.0	24.90	24.90	24.90	7.86	7.86	7.87	31.50	31.50	31.49	69.2	70.4	69.6	4.79	4.86	4.81	3.54	3.36	3.41	3	3.00
	16:19		Middle	1.0	24.90	24.90		7.87	7.87		31.48	31.48		70.0	68.6		4.84	4.74		3.48	3.26		3	
11/5/2013	19:56	Fine	Middle	1.0	24.30	24.30	24.35	7.89	7.89	7.90	31.00	31.00	31.00	71.8	72.8	72.5	5.02	5.10	5.07	3.66	3.78	3.52	4	4.50
	19:57		Middle	1.0	24.40	24.40		7.90	7.90		31.00	31.00		72.6	72.6		5.08	5.08		3.48	3.15		5	
13/5/2013	20:56	Fine	Middle	1.0	26.30	26.30	26.30	7.88	7.88	7.88	31.31	31.31	31.32	72.0	73.1	74.1	4.86	4.94	5.02	5.13	5.30	5.14	5	5.50
	20:57		Middle	1.0	26.30	26.30		7.88	7.88		31.33	31.33		75.9	75.5		5.13	5.14		5.16	4.96		6	<u> </u>
15/5/2013	23:10	Fine	Middle	1.0	26.10	26.10	26.10	7.88	7.88	7.88	31.09	31.09	31.11	71.6	71.1	71.9	4.87	4.83	4.88	2.33	2.37	2.27	3	3.00
	23:11		Middle	1.0	26.10	26.10		7.88	7.88		31.12	31.12		73.0	71.7		4.96	4.87		2.18	2.20		3	
18/5/2013	1:15	Cloudy	Middle	1.0	24.90	24.90	24.90	7.78	7.78	7.82	30.52	30.52	30.52	74.6	76.5	76.0	5.19	5.32	5.29	2.55	2.67	2.65	5	4.50
	1:16		Middle	1.0	24.90	24.90		7.85	7.85		30.52	30.52		76.3	76.7		5.30	5.35		2.62	2.77		4	<u> </u>
21/5/2013	2:54	Cloudy	Middle	1.5	26.20	26.20	26.20	7.95	7.95	7.95	27.82	27.82	27.82	70.6	71.1	70.9	4.88	4.91	4.90	2.94	2.88	2.66	3	3.50
	2:55		Middle	1.5	26.20	26.20		7.95	7.95		27.82	27.82		71.3	70.7		4.93	4.88		2.42	2.40		4	
22/5/2013	16:00 16:02	Cloudy	Middle Middle	1.5	25.53	25.53	25.54	7.91 7.91	7.91	7.91	28.71 28.71	28.71	28.71	75.8 74.7	75.1	75.0	5.27 5.20	5.22 5.17	5.22	5.97 5.99	5.99	5.98	5	5.00
				1.5	25.55	25.55		-	7.91		-	28.71			74.4			-			5.98		-	<u> </u>
24/5/2013	19:56	Cloudy	Middle	1.0	25.00	25.00	25.05	8.05	8.05	8.05	30.40	30.40	30.43	79.5	80.4	78.8	5.57	5.57	5.47	2.61	2.68	2.62	5	4.50
	19:57		Middle	1.0	25.10	25.10		8.05	8.05		30.46	30.46		78.0	77.4		5.38	5.36		2.60	2.57		4	<u> </u>
27/5/2013	5:57	Cloudy	Middle	1.0	26.30	26.30	26.30	8.00	8.00	8.00	27.87	27.87	27.87	75.5	75.3	74.4	5.18	5.18	5.13	2.94	3.01	2.90	3	3.00
	5:58		Middle	1.0	26.30	26.30		8.00	8.00		27.87	27.87		74.0	72.9		5.10	5.07		2.89	2.76		3	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition		ig Depth	Wat	er Temp °C	perature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/4/2013	10:31	Cloudy	Middle	2.0	22.40	22.40	22.45	8.48	8.48	8.47	34.82	34.82	34.81	65.4	66.1	64.5	4.63	4.68	4.56	2.09	2.13	2.10	4	4.00
23/4/2013	10:33	Cloudy	Middle	2.0	22.50	22.50	22.45	8.46	8.46	0.47	34.79	34.79	54.01	63.6	62.7	04.5	4.50	4.44	4.50	2.05	2.12	2.10	4	4.00
2/5/2013	10:55	Fine	Middle	1.5	21.40	21.40	21.35	8.44	8.44	8.45	35.02	35.02	35.02	65.4	65.3	65.0	4.72	4.71	4.69	2.79	2.82	2.87	4	4.50
213/2013	10:57	TINC	Middle	1.5	21.30	21.30	21.00	8.45	8.45	0.40	35.01	35.01	33.02	64.7	64.4	03.0	4.67	4.66	4.00	2.95	2.91	2.07	5	4.50
4/5/2013	14:50	Cloudy	Middle	1.5	21.90	21.90	21.90	8.33	8.33	8.33	34.98	34.98	34.98	66.6	66.7	66.2	4.76	4.77	4.73	1.76	1.74	1.68	3	3.50
4/0/2010	14:52	Cloudy	Middle	1.5	21.90	21.90	21.00	8.33	8.33	0.00	34.98	34.98	04.00	65.9	65.6	00.2	4.71	4.69	4.70	1.59	1.61	1.00	4	0.00
6/5/2013	16:18	Cloudy	Middle	2.0	22.30	22.30	22.30	8.09	8.09	8.09	33.33	33.33	33.32	52.3	51.6	51.5	3.75	3.70	3.69	2.10	2.14	2.02	7	7.50
0/0/2010	16:20	Cloudy	Middle	2.0	22.30	22.30	22.00	8.09	8.09	0.00	33.31	33.31	00.02	50.8	51.1	01.0	3.64	3.66	0.00	1.96	1.86	2.02	8	1.00
9/5/2013	17:31	Sunnv	Middle	2.0	24.10	24.10	24.05	8.02	8.02	8.02	32.97	32.97	32.98	55.4	55.3	55.2	3.84	3.84	3.83	2.21	2.19	2.17	8	8.50
	17:33		Middle	2.0	24.00	24.00		8.02	8.02		32.98	32.98		55.1	54.8		3.83	3.81		2.15	2.11		9	
11/5/2013	18:39	Fine	Middle	2.0	23.90	23.90	23.90	8.00	8.00	8.00	32.11	32.11	32.12	58.0	57.6	57.6	4.06	4.05	4.05	4.60	4.57	4.56	6	6.00
	18:41		Middle	2.0	23.90	23.90		7.99	7.99		32.13	32.13		57.5	57.3		4.05	4.04		4.55	4.52		6	
13/5/2013	20:15	Fine	Middle	1.5	24.30	24.30	24.30	8.00	8.00	8.00	32.22	32.22	32.22	60.6	59.4	59.0	4.20	4.12	4.09	4.03	4.19	4.00	4	3.50
	20:17		Middle	1.5	24.30	24.30		8.00	8.00		32.22	32.22		56.8	59.3		3.94	4.11		3.94	3.84		3	
15/5/2013	21:35	Fine	Middle	1.5	25.40	25.40	25.50	7.98	7.98	7.98	32.02	32.02	32.01	48.2	48.1	47.9	3.29	3.28	3.27	3.46	3.46	3.48	3	3.50
	21:37		Middle	1.5	25.60	25.60		7.97	7.97		32.00	32.00		47.6	47.6		3.25	3.25		3.50	3.48		4	<u> </u>
18/5/2013	0:48	Cloudy	Middle	1.5	24.60	24.60	24.60	7.95	7.95	7.95	31.52	31.52	31.53	46.2	46.3	46.0	3.21	3.22	3.20	4.04	4.41	4.23	3	3.00
	0:50		Middle	1.5	24.60	24.60		7.94	7.94		31.53	31.53		45.8	45.7		3.18	3.18		4.38	4.10		3	<u> </u>
21/5/2013	23:58	Cloudy	Middle	1.0	26.10	26.10	26.10	7.98	7.98	7.98	25.30	25.30	25.30	44.6	44.7	44.8	3.12	3.14	<u>3.14</u>	5.85	5.84	5.84	5	5.00
	0:00		Middle	1.0	26.10	26.10		7.98	7.98		25.30	25.30		44.9	45.1		3.15	3.16		5.79	5.87		5	<u> </u>
22/5/2013	15:15	Cloudy	Middle	1.0	26.00	26.00	26.00	8.06	8.06	8.06	27.94	27.94	27.94	59.4	59.1	59.2	4.12	4.10	4.11	7.28	7.26	7.11	19	<u>19.50</u>
	15:17		Middle	1.0	26.00	26.00		8.06	8.06		27.94	27.94		59.2	59.0		4.11	4.09		6.95	6.94		20	<u> </u>
24/5/2013	16:20	Cloudy	Middle	2.0	25.80	25.80	25.90	8.08	8.08	8.08	30.68	30.68	30.68	57.2	57.4	57.3	3.92	3.93	3.92	3.72	3.94	3.91	13	12.50
	16:22		Middle	2.0	26.00	26.00		8.08	8.08		30.67	30.67		57.3	57.2		3.91	3.90		3.91	4.08		12	<u> </u>
27/5/2013	8:55	Cloudy	Middle	2.0	25.20	25.20	25.20	8.15	8.15	8.15	29.27	29.27	29.27	65.3	65.8	65.8	4.54	4.58	4.58	3.05	3.07	3.07	5	4.50
	8:57		Middle	2.0	25.20	25.20		8.15	8.15		29.27	29.27		66.0	66.2		4.59	4.60		3.04	3.12		4	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU			led Solids a/L
		Condition	n	n	Va		Average	Va	lue	Average	Va		Average	Va		Average	Va	lue	Average	Va		Average		Average
29/4/2013	8:20	Cloudy	Middle	2.5	22.40	22.40	22.40	8.10	8.10	8.10	33.10	33.10	33.10	72.7	72.7	72.4	5.19	5.19	5.17	9.59	9.58	9.51	11	11.50
	8:22	ciculy	Middle	2.5	22.40	22.40	22.10	8.10	8.10	0.10	33.10	33.10	00.10	72.1	72.2		5.14	5.15	0.11	9.44	9.43	0.01	12	11.00
2/5/2013	10:10	Fine	Middle	3.0	20.90	20.90	20.80	8.15	8.15	8.15	33.42	33.42	33.43	74.6	74.5	74.7	5.48	5.48	5.50	9.37	9.40	9.38	9	10.00
	10:12		Middle	3.0	20.70	20.70		8.15	8.15		33.43	33.43		74.6	75.1		5.49	5.53		9.38	9.38		11	
4/5/2013	13:04	Cloudy	Middle	3.0	22.20	22.20	22.25	8.17	8.17	8.19	33.36	33.36	33.35	74.9	75.6	75.1	5.33	5.42	5.38	9.11	9.18	9.16	7	7.00
1	13:06		Middle	3.0	22.30	22.30		8.20	8.20		33.33	33.33		75.4	74.6		5.41	5.35		9.17	9.16		7	
6/5/2013	14:45	Cloudy	Middle	3.5	22.94	22.94	22.95	8.01	8.01	8.01	34.14	34.14	34.14	67.3	68.0	67.9	4.75	4.79	4.80	6.36	6.32	6.34	8	8.00
1	14:47	-	Middle	3.5	22.95	22.95		8.01	8.01		34.14	34.14		68.1	68.3		4.83	4.81		6.33	6.34		8	
9/5/2013	19:31	Sunny	Middle	1.5	23.90	23.90	23.90	8.02	8.02	8.02	32.09	32.09	32.09	82.2	83.4	83.2	5.74	5.83	5.81	5.86	5.79	5.76	8	8.00
1	19:32		Middle	1.5	23.90	23.90		8.02	8.02		32.09	32.09		83.6	83.4		5.84	5.83		5.71	5.69		8	
2 11/5/2013	20:55	Fine	Middle	2.0	24.30	24.30	24.40	8.01	8.01	8.01	31.51	31.51	31.51	78.7	77.0	77.8	5.48	5.38	5.42	6.57	6.38	6.33	9	8.50
	20:56		Middle	2.0	24.50	24.50		8.00	8.00		31.51	31.51		78.3	77.1		5.45	5.37		6.26	6.12		8	<u> </u>
13/5/2013	21:33	Fine	Middle	2.0	26.10	26.10	26.15	7.99	7.99	7.99	31.53	31.53	31.53	82.4	83.0	82.6	5.58	5.66	5.61	6.02	5.95	5.93	8	8.00
	21:34		Middle	2.0	26.20	26.20		7.99	7.99		31.53	31.53		81.9	83.0		5.55	5.63		5.61	6.14		8	<u> </u>
15/5/2013	1:20	Fine	Middle	2.0	25.20	25.20	25.20	8.01	8.01	8.01	30.92	30.91	30.92	81.1	81.0	82.4	5.60	5.61	5.69	3.96	4.00	3.87	3	3.50
	1:21		Middle	2.0	25.20	25.20		8.01	8.01		30.92	30.92		83.2	84.2		5.74	5.80		3.77	3.76		4	<u> </u>
18/5/2013	3:25	Cloudy	Middle	2.0	24.50	24.50	24.55	7.98	7.98	8.00	31.02	31.02	31.02	84.4	85.0	84.0	5.88	5.92	5.85	4.27	4.23	4.18	5	5.00
	3:26		Middle	2.0	24.60	24.60		8.01	8.01		31.02	31.02		83.4	83.0		5.81	5.78		4.11	4.09		5	<u> </u>
21/5/2013	5:10 5:11	Cloudy	Middle Middle	2.0	25.60 25.70	25.60 25.70	25.65	8.17 8.17	8.17 8.17	8.17	27.00 26.99	27.00 26.98	26.99	94.5 96.2	96.9 95.5	95.8	6.61 6.74	6.78 6.69	6.71	2.41 2.12	2.34 2.17	2.26	3	3.00
	15:25		Middle	4.0	25.14	25.14		8.05	8.05		28.77	28.77		92.5	92.3		6.27	6.44		4.59	4.59		6	+
22/5/2013	15:27	Cloudy	Middle	4.0	25.14	25.14	25.15	8.05	8.05	8.05	28.78	28.78	28.78	91.9	91.7	92.1	6.43	6.42	6.39	4.59	4.60	4.59	5	5.50
	20:45		Middle	2.0	25.00	25.00		8.07	8.07		29.83	29.83		83.9	83.0		5.84	5.76		4.63	4.45		6	+
24/5/2013	20:46	Cloudy	Middle	2.0	25.20	25.20	25.10	8.09	8.09	8.08	29.85	29.85	29.84	81.8	83.3	83.0	5.67	5.75	5.76	4.37	4.49	4.49	7	6.50
	5:30		Middle	2.0	25.90	25.90		8.08	8.08		26.28	26.28	l	85.1	86.1		5.95	6.02		3.04	2.81		4	+
27/5/2013	5:31	Cloudy	Middle	2.0	25.90	25.90	25.90	8.07	8.07	8.08	26.28	26.28	26.28	84.3	82.5	84.5	5.89	5.74	5.90	2.87	2.94	2.92	3	3.50

Remarks:

Single underline denotes exceedance over Action Level.



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

Date	Time	Weater	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid NTU		Suspende	
Duto		Condition	r	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	% Ilue	Average	Va	mg/L lue	Average	Va	ilue	Average	mg Value	J/L Average
29/4/2013	17:49	Cloudy	Middle	2.5	22.80	22.80	22.85	8.10	8.10	8.10	33.13	33.13	33.13	72.3	72.3	72.0	5.14	5.14	5.12	5.92	5.98	5.88	6	5.50
	17:51	,	Middle	2.5	22.90	22.90		8.10	8.10		33.13	33.13		72.0	71.4		5.12	5.08		5.84	5.79		5	
2/5/2013	17:38	Cloudy	Middle	2.0	20.80	20.80	20.80	8.13	8.13	8.13	32.72	32.72	32.72	93.6	93.6	93.3	6.92	6.92	6.89	1.90	1.87	1.85	4	3.50
	17:39		Middle	2.0	20.80	20.80		8.13	8.13		32.72	32.72		93.1	92.7		6.88	6.85		1.83	1.80		3	<u> </u>
4/5/2013	18:20	Cloudy	Middle	2.5	21.90	21.90	21.90	8.08	8.08	8.09	32.46	32.46	32.46	90.5	90.8	90.2	6.56	6.58	6.57	2.52	2.56	2.56	8	8.50
	18:21		Middle	2.5	21.90	21.90		8.10	8.10		32.46	32.47		90.7	88.8		6.58	6.54		2.55	2.60		9	<u> </u>
6/5/2013	8:00	Cloudy	Middle	2.0	22.00	22.00	22.00	8.21	8.21	8.21	33.93	33.93	33.94	78.8	79.2	79.0	5.66	5.69	5.67	3.37	3.35	3.34	3	2.50
	8:02		Middle	2.0	22.00	22.00		8.21	8.21		33.94	33.94		79.1	78.9		5.67	5.66		3.34	3.31		2	<u> </u>
9/5/2013	9:50	Fine	Middle	2.5	23.49	23.49	23.63	7.99	7.99	7.97	34.65	34.65	34.75	78.4	80.3	78.9	5.42	5.55	5.45	3.12	3.14	3.08	3	3.50
	9:52		Middle	2.5	23.77	23.77		7.94	7.94		34.84	34.84		78.8	78.0		5.44	5.39		3.06	3.00		4	ļ
11/5/2013	10:50	Fine	Middle	3.5	24.19	24.19	24.19	7.92	7.92	7.92	34.68	34.68	34.67	69.7	70.0	70.0	4.75	4.78	4.77	2.03	1.95	1.95	9	9.00
	10:52		Middle	3.5	24.19	24.19		7.92	7.92		34.66	34.66		70.1	70.1		4.78	4.78		1.92	1.91		9	<u> </u>
13/5/2013	11:35	Fine	Middle	3.5	24.89	24.89	24.96	7.89	7.89	7.88	34.46	34.46	34.45	79.7	79.6	79.4	5.42	5.41	5.40	1.77	1.73	1.72	2	3.00
	11:37		Middle	3.5	25.02	25.02		7.87	7.87		34.43	34.43		79.3	79.1		5.39	5.38		1.70	1.69		4	<u> </u>
15/5/2013	11:35	Fine	Middle	3.0	25.37	25.37	25.38	7.94	7.94	7.94	34.41	34.41	34.41	83.7	83.5	83.4	5.65	5.64	5.63	3.55	3.55	3.50	3	3.50
	11:37		Middle	3.0	25.38	25.38		7.93	7.93		34.41	34.41		83.4	83.1		5.63	5.61		3.44	3.44		4	<u> </u>
18/5/2013	18:01	Fine	Middle	2.0	26.78 26.78	26.78 26.78	26.78	7.87	7.87 7.87	7.87	34.00	34.00 34.00	34.00	95.4 91.9	95.1	93.6	6.30 6.07	6.28 6.06	6.18	1.76	1.86 1.87	1.84	3	3.50
	18:03		Middle	2.0	20.78	-		7.87	7.07		34.00	34.00		91.9	91.9		0.07	0.00		1.87	1.07		4	<u> </u>
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-	-	-	-	-	-
	22:00		Middle	2.0	25.10	25.10		8.06	8.06		27.80	27.80		83.4	84.7		5.87	5.96		1.76	1.70		3	
22/5/2013	22:00	Cloudy	Middle	2.0	25.10	25.10	25.10	8.09	8.09	8.08	27.81	27.81	27.81	84.1	84.0	84.1	5.91	5.91	5.91	1.98	1.90	1.84	2	2.50
	9:40		Middle	3.5	25.66	25.66		7.78	7.78		33.33	33.33		78.1	78.0		5.27	5.27		1.45	1.46		2	
24/5/2013	9:45	Fine	Middle	3.5	25.82	25.82	25.74	7.77	7.77	7.78	33.29	33.29	33.31	77.8	77.8	77.9	5.26	5.25	5.26	1.46	1.45	1.46	2	2.00
	10:45		Middle	3.0	25.87	25.87		7.89	7.89		32.25	32.25		95.3	95.2		6.45	6.45		1.77	1.84		5	
27/5/2013	10:47	Fine	Middle	3.0	25.93	25.93	25.90	7.88	7.88	7.89	32.24	32.24	32.25	95.1	95.1	95.2	6.44	6.44	6.45	1.87	1.87	1.84	4	4.50

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Amber Rainstorm signal was hoisted on 20 May 2013, water quality monitoring at ebb tide were cancelled.



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

Date	Time	Weater Condition		g Depth	Wate	er Temp	erature		pН			Salini ppt	ty.	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspende	ed Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
29/4/2013	15:45	Cloudy	Middle	3	22.90	22.90	22.90	8.09	8.09	8.09	33.16	33.16	33.16	73.4	73.4	72.8	5.19	5.19	5.15	7.51	7.35	7.42	11	11.50
29/4/2013	15:47	Cloudy	Middle	3	22.90	22.90	22.90	8.09	8.09	8.09	33.16	33.16	55.10	72.1	72.3	72.0	5.10	5.11	5.15	7.40	7.40	7.42	12	11.50
2/5/2013	18:42	Cloudy	Middle	3	20.90	20.90	20.88	8.12	8.12	8.12	32.38	32.38	32.41	82.0	85.8	84.7	6.40	6.36	6.35	6.14	5.68	5.89	5	5.00
2/3/2013	18:43	Cloudy	Middle	3	20.90	20.80	20.00	8.12	8.12	0.12	32.43	32.43	32.41	84.9	85.9	04.7	6.28	6.36	0.55	5.92	5.81	5.65	5	5.00
4/5/2013	19:16	Cloudy	Middle	3	21.70	21.70	21.65	8.18	8.18	8.18	32.76	32.76	32.76	88.9	88.6	88.9	6.45	6.45	6.46	3.43	3.40	3.26	8	7.50
4/3/2013	19:17	Cloudy	Middle	3	21.60	21.60	21.00	8.17	8.17	0.10	32.76	32.76	52.70	89.2	88.8	00.0	6.49	6.46	0.40	3.12	3.10	0.20	7	1.50
6/5/2013	9:40	Cloudy	Middle	3	21.80	21.80	21.80	8.21	8.21	8.21	33.69	33.69	33.69	75.5	75.4	75.3	5.44	5.43	5.43	5.08	5.08	5.10	9	9.00
0/0/2010	9:42	Cloudy	Middle	3	21.80	21.80	21.00	8.21	8.21	0.21	33.69	33.69	55.05	75.4	75.0	70.0	5.44	5.41	0.40	5.10	5.12	0.10	9	5.00
9/5/2013	11:13	Fine	Middle	3	23.29	23.29	23.30	7.80	7.80	7.80	34.94	34.94	34.94	82.3	82.1	81.8	5.74	5.73	5.76	5.52	5.43	5.50	8	8.00
0.0.2010	11:15		Middle	3	23.30	23.30	20.00	7.80	7.80	1.00	34.94	34.94	01.01	81.5	81.3	0110	5.68	5.87	0.10	5.50	5.55	0.00	8	0.00
11/5/2013	12:00	Fine	Middle	4	24.13	24.13	24.14	7.89	7.89	7.89	34.18	34.18	34.18	72.7	72.5	72.3	5.02	5.00	4.99	4.11	4.10	4.10	7	6.50
	12:01		Middle	4	24.15	24.15		7.88	7.88		34.18	34.18	00	72.2	71.8	12.0	4.99	4.96		4.09	4.08		6	0.00
13/5/2013	12:45	Fine	Middle	4	24.37	24.37	24.41	7.92	7.92	7.92	34.31	34.31	34.33	89.7	89.1	89.0	6.17	6.12	6.12	4.11	4.00	4.05	4	4.00
	12:47		Middle	4	24.44	24.44		7.91	7.91		34.34	34.34		88.8	88.5		6.10	6.08		4.07	4.02		4	
15/5/2013	16:00	Fine	Middle	4	25.41	25.41	25.47	7.72	7.72	7.72	33.72	33.72	33.70	76.9	76.8	76.7	5.21	5.20	5.19	3.89	3.67	3.69	4	4.50
	16:02	-	Middle	4	25.53	25.53	-	7.72	7.72		33.68	33.68		76.5	76.4	-	5.18	5.17		3.62	3.58		5	
18/5/2013	14:30	Fine	Middle	3	26.72	26.72	26.72	7.83	7.83	7.83	32.98	32.98	32.98	88.2	87.7	87.7	5.86	5.82	5.82	1.71	1.84	1.83	<2	2.00
	14:32		Middle	3	26.72	26.72		7.83	7.83		32.98	32.98		87.8	86.9		5.82	5.78		1.87	1.88		2	
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	Rainstonn	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
22/5/2013	0:25	Cloudy	Middle	3	24.80	24.80	24.80	8.12	8.12	8.12	27.32	27.32	27.32	86.3	86.8	86.2	6.13	6.16	6.12	2.24	2.57	2.30	3	3.00
	0:26	-	Middle	3	24.80	24.80		8.12	8.12		27.32	27.32		86.8	84.9		6.16	6.03		2.21	2.19		3	<u> </u>
24/5/2013	11:00	Fine	Middle	4	25.55	25.55	25.57	7.76	7.76	7.76	31.30	31.30	31.31	79.5	79.3	79.2	5.45	5.43	5.43	3.56	3.55	3.55	2	2.00
	11:05		Middle	4	25.59	25.59		7.76	7.76		31.31	31.31		79.2	78.9		5.42	5.41		3.55	3.55		2	<u> </u>
27/5/2013	12:00	Fine	Middle	4	26.02	26.02	26.05	7.89	7.89	7.89	31.11	31.11	31.13	87.5	87.1	87.0	5.95	5.92	5.92	2.49	2.45	2.44	7	6.50
	12:02		Middle	4	26.08	26.08		7.88	7.88		31.14	31.14		86.9	86.5		5.91	5.88		2.42	2.40		6	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbic NTU			led Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	alue %	Average	Va	mg/L lue	Average	Va	alue	Average	mı Value	g/L Average
20/4/2012	15:20	Claudy	Middle	2	23.70	23.70	23.75	8.03	8.03	8.04	32.73	32.73	32.73	70.0	70.7	70.5	4.91	4.95	4.94	3.96	3.98	3.94	<2	<2
29/4/2013	15:22	Cloudy	Middle	2	23.80	23.80	23.75	8.04	8.04	0.04	32.72	32.72	32.73	70.7	70.4	70.5	4.95	4.93	4.94	3.92	3.90	3.94	<2	~2
2/5/2013	18:13	Cloudy	Middle	1	21.00	21.00	21.00	7.99	7.99	7.99	31.73	31.73	31.73	82.1	81.4	80.9	6.08	6.03	5.99	1.76	1.74	1.68	2	3.00
2/5/2015	18:14	Cloudy	Middle	1	21.00	21.00	21.00	7.99	7.99	7.99	31.73	31.73	31.73	79.7	80.5	80.9	5.90	5.96	5.99	1.59	1.63	1.00	4	3.00
4/5/2013	18:50	Cloudy	Middle	2	21.90	21.90	21.90	8.01	8.01	8.01	31.12	31.12	31.12	85.6	85.0	84.4	6.26	6.21	6.17	2.60	2.63	2.59	2	3.00
4/3/2013	18:51	Cloudy	Middle	2	21.90	21.90	21.30	8.01	8.01	0.01	31.12	31.12	01.12	84.0	82.8	04.4	6.14	6.06	0.17	2.58	2.56	2.55	4	3.00
6/5/2013	11:25	Cloudy	Middle	2	22.41	22.41	22.42	7.88	7.88	7.88	33.16	33.16	33.16	65.5	64.7	65.3	4.69	4.65	4.68	1.91	1.74	1.82	3	3.50
0,0,2010	11:27	cloudy	Middle	2	22.43	22.43		7.88	7.88	1.00	33.16	33.16	00.10	65.5	65.6	00.0	4.69	4.70		1.80	1.81	1.02	4	0.00
9/5/2013	12:40	Fine	Middle	2	24.13	24.13	24.18	7.61	7.61	7.61	32.29	32.29	32.29	77.5	76.7	76.8	5.41	5.35	5.36	3.97	3.95	3.98	4	4.00
	12:41		Middle	2	24.22	24.22		7.61	7.61		32.29	32.29		77.1	75.7		5.38	5.28		3.99	4.00		4	
11/5/2013	13:27	Fine	Middle	2	24.43	24.43	24.50	7.62	7.62	7.61	31.95	31.95	31.94	73.2	72.7	72.5	5.09	5.06	5.04	1.89	1.89	1.89	3	3.00
	13:29	-	Middle	2	24.56	24.56		7.59	7.59		31.92	31.92		72.2	71.7		5.02	4.99		1.88	1.89		3	
13/5/2013	12:27	Fine	Middle	2	25.48	25.48	25.54	7.69	7.69	7.68	31.78	31.78	31.80	80.1	79.7	79.3	5.47	5.45	5.42	2.38	2.49	2.45	<2	<2
	12:29		Middle	2	25.59	25.59		7.67	7.67		31.81	31.81		78.9	78.5		5.39	5.37		2.48	2.43		<2	
15/5/2013	15:25	Fine	Middle	2	25.91	25.91	25.92	7.67	7.67	7.67	32.59	32.59	32.61	67.1	65.7	65.9	4.53	4.42	4.44	1.63	1.64	1.64	5	4.50
	15:27		Middle	2	25.93	25.93		7.66	7.66		32.63	32.63		65.5	65.4		4.41	4.40		1.63	1.65	-	4	
18/5/2013	16:28	Fine	Middle	2	26.64	26.64	26.66	7.56	7.56	7.56	30.07	30.07	30.10	69.0	68.9	68.9	4.67	4.66	4.71	1.77	1.70	1.70	2	2.00
	16:30		Middle	2	26.67	26.67		7.55	7.55		30.12	30.12		68.8	68.7		4.66	4.86		1.68	1.66		2	
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	
	-	Nailistonii	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/5/2013	0:10	Cloudy	Middle	1	24.90	24.90	24.90	7.89	7.89	7.87	24.74	24.74	24.74	57.4	58.4	58.1	4.12	4.20	4.18	1.63	1.71	1.64	3	3.50
	0:11		Middle	1	24.90	24.90		7.85	7.85		24.74	24.73		58.3	58.4		4.19	4.20		1.59	1.62		4	<u> </u>
24/5/2013	12:57	Fine	Middle	2	25.62	25.62	25.66	7.59	7.59	7.58	30.03	30.03	30.03	74.0	73.4	73.1	5.10	5.06	5.03	2.84	2.82	2.77	4	4.00
	12:59		Middle	2	25.70	25.70		7.57	7.57		30.02	30.02		72.9	71.9		5.02	4.95		2.72	2.71		4	
27/5/2013	14:39	Fine	Middle	2	26.11	26.11	26.11	7.72	7.72	7.72	28.99	28.99	28.99	70.7	70.5	70.4	4.86	4.85	4.84	2.69	2.81	2.79	6	6.50
	14:41		Middle	2	26.11	26.11		7.72	7.72		28.99	28.99		70.2	70.0		4.82	4.81		2.82	2.83		7	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

am	
CUIII	Water Monitoring Result at C1 - HKCEC

Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit ppt	ty	D	O Satu	ation		DO ma/L			Turbid			led Solids a/L
		Condition	n	า	Va	lue	Average	Va	lue -	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average		Average
00///00/10	15:10	a	Middle	2.5	22.70	22.60	00.70	8.34	8.34		34.86	34.86	04.05	80.2	79.8	70.5	5.65	5.62	5.00	3.74	3.77	0.00	8	
29/4/2013	15:12	Cloudy	Middle	2.5	22.80	22.80	22.73	8.34	8.34	8.34	34.84	34.84	34.85	79.0	78.8	79.5	5.57	5.55	5.60	3.97	3.97	3.86	8	8.00
2/5/2013	19:07	Cloudy	Middle	2.5	20.90	20.90	20.75	8.26	8.26	8.26	34.47	34.47	34.48	77.6	77.4	77.3	5.72	5.71	5.71	3.58	3.55	3.54	6	6.50
2/0/2010	19:09	oloudy	Middle	2.5	20.60	20.60	20.10	8.26	8.26	0.20	34.48	34.48	00	77.2	77.1		5.70	5.70	0.11	3.53	3.49	0.01	7	0.00
4/5/2013	19:05	Cloudy	Middle	2.5	21.60	21.60	21.55	8.09	8.09	8.09	35.35	35.35	35.34	73.0	72.9	72.8	5.25	5.25	5.24	2.13	2.11	2.10	4	4.00
	19:07		Middle	2.5	21.50	21.50		8.09	8.09		35.33	35.33		72.7	72.4		5.24	5.22		2.09	2.05		4	
6/5/2013	11:35	Cloudy	Middle	2.0	22.10	22.10	22.10	8.11	8.11	8.11	33.50	33.50	33.50	60.8	59.4	58.9	4.37	4.27	4.23	2.72	2.50	2.55	8	8.00
	11:37		Middle	2.0	22.10	22.10		8.11	8.11		33.50	33.50		58.0	57.3		4.17	4.12		2.50	2.47		8	
9/5/2013	10:59	Fine	Middle	2.5	22.90	22.90	23.00	8.08	8.08	8.08	33.49	33.49	33.49	62.7	62.2	62.0	4.43	4.40	4.38	2.83	2.74	2.73	4	4.00
	11:01		Middle	2.5	23.10	23.10		8.08	8.08		33.48	33.48		61.7	61.4		4.36	4.33		2.74	2.59		4	
11/5/2013	11:54	Fine	Middle	2.0	23.60	23.60	23.70	8.10	8.10	8.10	32.48	32.48	32.49	63.5	63.2	63.1	4.46	4.49	4.44	2.33	2.26	2.31	6	5.50
	11:56		Middle	2.0	23.80	23.80		8.10	8.10		32.49	32.49		63.5	62.0		4.46	4.35		2.44	2.21		5	
13/5/2013	14:55	Fine	Middle	2.0	24.60	24.60	24.85	8.15	8.15	8.15	32.22	32.22	32.21	78.5	77.9	78.2	5.41	5.36	5.38	5.74	5.93	5.65	5	4.50
	14:57		Middle	2.0	25.10	25.10		8.14	8.14		32.20	32.20		78.7	77.6		5.41	5.34		5.36	5.57		4	
15/5/2013	15:10	Fine	Middle	2.5	25.00	25.00	25.10	8.10	8.10	8.10	31.97	31.97	31.97	68.8	69.1	68.7	4.73	4.75	4.72	3.04	3.05	3.05	5	5.50
	15:12		Middle	2.5	25.20	25.20		8.10	8.10		31.97	31.97		69.0	67.7		4.74	4.65		3.02	3.07		6	
18/5/2013	15:42	Fine	Middle	2.5	26.00	26.00	26.00	8.06	8.06	8.06	31.63	31.63	31.63	73.3	73.7	73.4	4.93	4.96	4.94	2.81	2.82	2.89	5	5.50
	15:44		Middle	2.5	26.00	26.00		8.06	8.06		31.63	31.63		72.9	73.8		4.90	4.96		3.07	2.87		6	<u> </u>
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/5/2013	20:59	Cloudy	Middle	1.5	24.60	24.60	24.60	8.15	8.15	8.16	29.26	29.26	29.26	73.1	73.5	73.5	5.15	5.18	5.18	4.08	4.06	4.10	4	4.00
	21:02		Middle	1.5	24.60	24.60		8.16	8.16		29.26	29.26		73.6	73.7		5.19	5.19		4.13	4.12		4	\vdash
24/5/2013	11:43	Fine	Middle	2.5	25.10	25.10	25.10	8.17	8.17	8.17	30.62	30.62	30.62	75.5	76.5	76.0	5.21	5.29	5.26	3.42	3.58	3.49	10	9.50
	11:45		Middle	2.5	25.10	25.10		8.17	8.17		30.62	30.62		76.0	75.8		5.25	5.29		3.51	3.46		9	<u> </u>
27/5/2013	14:47	Fine	Middle	2.0	25.90	25.90	26.00	8.13	8.13	8.13	27.56	27.56	27.56	80.6	80.2	80.3	5.60	5.57	5.58	4.47	4.47	4.47	6	5.50
	14:49		Middle	2.0	26.10	26.10		8.12	8.12		27.56	27.56		80.3	80.0		5.58	5.55		4.47	4.47		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

am	Water Monitoring Result at P3 - APA

Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/4/2013	14:40	Cloudy	Middle	1.5	22.40	22.40	22.50	8.18	8.18	8.19	34.85	34.85	34.83	80.0	78.7	77.3	5.66	5.57	5.47	3.68	3.69	3.64	9	8.50
29/4/2013	14:42	Cloudy	Middle	1.5	22.60	22.60	22.50	8.19	8.19	0.19	34.81	34.81	34.03	75.9	74.4	11.5	5.37	5.26	5.47	3.63	3.56	5.04	8	0.50
2/5/2013	18:27	Cloudy	Middle	2.5	20.90	20.90	20.65	8.28	8.28	8.28	35.16	35.16	35.15	80.5	80.4	80.3	5.89	5.88	5.88	3.03	2.98	2.98	5	5.00
210/2010	18:29	oloudy	Middle	2.5	20.40	20.40	20.00	8.28	8.28	0.20	35.13	35.13	00.10	80.3	80.0	00.0	5.88	5.86	0.00	2.96	2.94	2.00	5	0.00
4/5/2013	18:31	Cloudy	Middle	3.0	21.60	21.60	21.55	8.06	8.06	8.06	35.32	35.32	35.30	75.3	75.1	74.9	5.42	5.41	5.40	1.53	1.51	1.49	3	3.50
	18:33	,	Middle	3.0	21.50	21.50		8.06	8.06		35.28	35.28		74.8	74.5		5.39	5.36		1.48	1.45		4	
6/5/2013	12:07	Cloudy	Middle	2.0	21.90	21.90	21.90	8.12	8.12	8.12	33.43	33.43	33.43	61.4	61.2	61.0	4.43	4.42	4.40	3.42	3.42	3.42	9	9.00
	12:09	,	Middle	2.0	21.90	21.90		8.12	8.13		33.43	33.43		60.8	60.5		4.39	4.36		3.43	3.39		9	
9/5/2013	10:11	Fine	Middle	3.0	22.80	22.80	22.85	8.12	8.12	8.12	33.57	3.57	26.07	63.5	63.5	62.2	4.50	4.49	4.40	3.99	3.69	3.83	6	5.50
	10:13		Middle	3.0	22.90	22.90		8.11	8.11		33.56	33.56		61.0	60.7		4.32	4.28		3.98	3.64		5	
11/5/2013	12:20	Fine	Middle	2.0	23.70	23.70	23.80	8.09	8.09	8.09	32.47	32.47	32.49	69.3	68.7	68.6	4.86	4.81	4.81	2.99	2.87	2.95	3	3.00
	12:22		Middle	2.0	23.90	23.90		8.09	8.09		32.50	32.50		68.0	68.2		4.77	4.78		3.03	2.90		3	
13/5/2013	14:27	Fine	Middle	2.5	24.40	24.40	24.55	8.15	8.15	8.15	32.35	32.34	32.35	72.7	71.5	72.6	5.04	4.95	5.02	4.18	4.26	4.24	8	8.50
	14:29		Middle	2.5	24.70	24.70		8.15	8.15		32.36	32.36		72.8	73.5		5.03	5.07		4.32	4.18		9	
15/5/2013	14:37	Fine	Middle	2.5	24.90	24.90	24.90	8.11	8.11	8.11	32.19	32.19	32.18	75.1	72.1	74.9	5.15	4.94	5.13	2.66	2.62	2.58	3	3.00
	14:39		Middle	2.5	24.90	24.90		8.10	8.10		32.17	32.17		74.8	77.4		5.13	5.30		2.52	2.50		3	
18/5/2013	16:05	Fine	Middle	2.5	25.50	25.50	25.50	8.12	8.12	8.12	31.39	31.39	31.39	79.4	79.7	79.6	5.40	5.42	5.41	2.42	2.39	2.41	5	5.00
	16:07		Middle	2.5	25.50	25.50		8.12	8.12		31.39	31.39		80.1	79.2		5.45	5.38		2.43	2.40		5	
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-	-	-	-	
	-	Rainstonn	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/5/2013	21:27	Cloudy	Middle	2.0	24.80	24.80	24.80	8.17	8.17	8.17	29.22	29.22	29.22	75.9	76.8	76.4	5.33	5.36	5.36	4.06	3.97	4.06	5	4.00
	21:29		Middle	2.0	24.80	24.80		8.17	8.17		29.22	29.22		76.4	76.4		5.37	5.36		4.11	4.08		3	
24/5/2013	12:06	Fine	Middle	2.5	24.80	24.80	24.80	8.18	8.18	8.18	31.22	31.22	31.22	73.3	74.3	74.0	5.07	5.14	5.12	3.03	3.06	3.07	4	4.00
	12:08		Middle	2.5	24.80	24.80		8.18	8.18		31.22	31.22		74.0	74.4		5.12	5.14		3.08	3.11		4	
27/5/2013	15:07	Fine	Middle	2.0	25.20	25.20	25.35	8.14	8.14	8.13	27.95	27.95	27.96	71.7	71.8	72.4	5.00	5.01	5.07	2.79	2.80	2.80	2	2.50
	15:09		Middle	2.0	25.50	25.50		8.12	8.12		27.96	27.96		72.2	74.0		5.06	5.19		2.80	2.80		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/4/2013	14:27	Cloudy	Middle	2.0	22.50	22.50	22.60	7.80	7.80	7.80	34.84	34.84	34.85	76.6	74.4	74.2	5.42	5.26	5.25	4.05	4.13	4.18	7	7.50
23/4/2013	14:29	Cloudy	Middle	2.0	22.70	22.70	22.00	7.80	7.80	7.00	34.85	34.85	34.05	73.1	72.7	74.2	5.17	5.14	5.25	4.16	4.36	4.10	8	7.50
2/5/2013	18:15	Cloudy	Middle	3.0	20.90	20.90	20.80	8.38	8.38	8.35	34.99	34.99	35.09	81.7	81.3	81.3	5.94	5.92	5.92	4.28	4.24	4.23	6	6.00
2/3/2013	18:17	Cloudy	Middle	3.0	20.70	20.70	20.00	8.31	8.31	0.55	35.18	35.18	35.09	81.2	80.9	01.5	5.92	5.90	5.52	4.22	4.18	4.23	6	0.00
4/5/2013	18:19	Cloudy	Middle	3.0	21.60	21.60	21.60	7.96	7.96	7.98	35.33	35.33	35.33	76.8	76.6	76.5	5.51	5.50	5.49	3.08	3.04	3.03	10	9.50
4/0/2010	18:21	oloudy	Middle	3.0	21.60	21.60	21.00	7.99	7.99	1.00	35.33	35.33	00.00	76.3	76.1	70.0	5.48	5.46	0.40	3.00	2.98	0.00	9	0.00
6/5/2013	12:16	Cloudy	Middle	2.0	21.90	21.90	21.95	8.13	8.13	8.13	33.44	33.44	33.44	64.1	63.6	63.4	4.62	4.59	4.57	2.99	2.80	2.85	11	10.50
0,0,2010	12:18	cloudy	Middle	2.0	22.00	22.00	21.00	8.13	8.13	0.10	33.44	33.44		63.2	62.8	0011	4.55	4.52		2.83	2.77	2.00	10	10.00
9/5/2013	10:06	Fine	Middle	2.5	22.70	22.70	22.70	8.10	8.11	8.11	33.47	33.47	33.47	65.3	64.8	64.8	4.63	4.59	4.59	3.92	3.76	3.83	5	4.50
	10:08	-	Middle	2.5	22.70	22.70		8.11	8.11	_	33.46	33.46		64.9	64.0		4.59	4.54		3.84	3.81		4	
11/5/2013	12:28	Fine	Middle	2.0	23.80	23.80	23.95	8.10	8.10	8.10	32.61	32.61	32.62	67.2	68.5	67.3	4.70	4.79	4.71	2.82	2.91	2.84	6	5.50
	12:30		Middle	2.0	24.10	24.10		8.10	8.10		32.62	32.62		67.0	66.6		4.68	4.65		2.80	2.82		5	
13/5/2013	14:15	Fine	Middle	2.5	24.40	24.40	24.45	8.13	8.13	8.13	32.46	32.46	32.46	66.3	66.3	66.3	4.59	4.59	4.59	3.85	3.61	3.71	4	4.00
	14:17	-	Middle	2.5	24.50	24.50		8.13	8.13		32.45	32.45		66.3	66.1		4.59	4.57		3.71	3.68		4	
15/5/2013	14:23	Fine	Middle	2.5	24.90	24.90	24.95	8.12	8.12	8.11	32.30	32.30	32.27	73.6	73.6	73.1	5.07	5.07	5.03	2.40	2.45	2.44	3	3.50
	14:25		Middle	2.5	25.00	25.00		8.10	8.10		32.24	32.24		73.0	72.0		5.02	4.95		2.46	2.44		4	<u> </u>
18/5/2013	16:14	Fine	Middle	2.5	25.50	25.50	25.50	8.13	8.13	8.13	31.30	31.30	31.30	79.9	80.7	80.1	5.45	5.50	5.46	2.72	2.71	2.76	7	6.50
	16:16		Middle	2.5	25.50	25.50		8.13	8.13		31.30	31.30		80.4	79.4		5.48	5.40		2.79	2.82		6	<u> </u>
20/5/2013	-	Amber	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
22/5/2013	21:20	Cloudy	Middle	1.5	24.80	24.80	24.80	8.17	8.17	8.17	29.22	29.22	29.22	71.5	71.1	72.6	5.03	5.14	5.14	4.11	4.17	4.14	4	4.50
	21:22	-	Middle	1.5	24.80	24.80		8.17	8.17		29.22	29.22		73.6	74.0		5.17	5.20		4.17	4.10		5	<u> </u>
24/5/2013	12:16	Fine	Middle	2.5	24.80	24.80	24.80	8.18	8.18	8.18	31.15	31.15	31.15	76.0	75.6	75.8	5.27	5.24	5.25	3.15	3.17	3.20	3	2.50
	12:18		Middle	2.5	24.80	24.80		8.18	8.18		31.15	31.15		75.9	75.8		5.26	5.24		3.23	3.24		2	<u> </u>
27/5/2013	15:16	Fine	Middle	2.5	25.40	25.40	25.50	8.14	8.14	8.13	27.90	27.90	27.87	77.3	76.2	77.5	5.42	5.35	5.43	4.17	4.12	4.09	5	4.50
	15:19		Middle	2.5	25.60	25.60		8.12	8.12		27.84	27.84		78.7	77.6		5.50	5.43		4.02	4.06		4	

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			Salinit ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average		Average
29/4/2013	14:50	Cloudy	Middle	2.0	22.60	22.60	22.75	8.36	8.36	8.36	34.56	34.56	34.57	67.9	68.1	67.7	4.73	4.80	4.76	2.76	2.56	2.63	7	6.50
29/4/2013	14:52	Cloudy	Middle	2.0	22.90	22.90	22.15	8.35	8.35	0.50	34.58	34.58	34.37	68.1	66.8	07.7	4.80	4.70	4.70	2.60	2.61	2.05	6	0.50
2/5/2013	18:39	Cloudy	Middle	2.5	21.00	21.00	20.85	8.27	8.27	8.27	35.18	35.18	35.16	80.0	79.9	79.8	5.86	5.86	5.86	3.72	3.70	3.68	9	8.50
210/2010	18:41	Cloudy	Middle	2.5	20.70	20.70	20.00	8.26	8.26	0.27	35.14	35.14	00.10	79.6	79.5	10.0	5.85	5.85	0.00	3.67	3.64	0.00	8	0.00
4/5/2013	18:43	Cloudy	Middle	2.5	21.50	21.50	21.45	7.84	7.84	7.85	35.29	35.29	35.29	75.5	75.3	75.3	5.44	5.43	5.43	1.44	1.40	1.39	3	3.50
	18:45		Middle	2.5	21.40	21.40		7.86	7.86		35.29	35.29		75.2	75.0		5.43	5.42		1.38	1.35		4	
6/5/2013	11:56	Cloudy	Middle	2.0	22.00	22.00	22.00	8.11	8.11	8.11	33.44	33.44	33.44	62.7	62.1	62.0	4.52	4.48	4.47	2.49	2.30	2.52	13	13.50
	11:58	,	Middle	2.0	22.00	22.00		8.11	8.11		33.43	33.43		61.6	61.5		4.44	4.43		2.69	2.58		14	
9/5/2013	10:24	Fine	Middle	2.5	22.70	22.70	22.70	8.09	8.09	8.09	33.48	33.48	33.47	64.8	64.7	64.0	4.60	4.60	4.54	3.12	2.97	3.11	4	4.50
	10:26		Middle	2.5	22.70	22.70		8.08	8.08		33.45	33.45		64.1	62.4		4.54	4.42		3.22	3.11		5	
11/5/2013	12:10	Fine	Middle	2.0	23.80	23.80	23.90	8.10	8.10	8.10	32.42	32.42	32.42	68.1	67.4	66.6	4.77	4.72	4.66	2.80	2.65	2.74	4	4.00
	12:12		Middle	2.0	24.00	24.00		8.10	8.10		32.42	32.42		65.2	65.5		4.56	4.58		2.72	2.79		4	<u> </u>
13/5/2013	14:34	Fine	Middle	2.5	24.70	24.70	24.80	8.14	8.14	8.14	32.22	32.22	32.22	68.9	68.8	67.8	4.75	4.75	4.68	4.94	5.31	5.14	4	4.50
	14:36		Middle	2.5	24.90	24.90		8.14	8.14		32.21	32.21		67.4	66.1		4.65	4.56		5.08	5.21		5	
15/5/2013	14:49	Fine	Middle	2.5	25.20	25.20	25.35	8.11	8.11	8.11	31.94	31.94	31.92	75.0	75.7	75.5	5.14	5.18	5.17	2.34	2.33	2.37	3	3.50
	14:51		Middle	2.5	25.50	25.50		8.11	8.11		31.90	31.90		76.5	74.9		5.23	5.12		2.35	2.45		4	
18/5/2013	16:00	Fine	Middle	2.5	25.50	25.50	25.50	8.11	8.11	8.11	31.42	31.42	31.42	77.6	77.5	77.4	5.31	5.29	5.29	2.84	2.73	2.71	3	3.50
	16:02		Middle	2.5	25.50	25.50		8.11	8.11		31.42	31.42		77.4	77.2		5.28	5.27		2.60	2.68		4	<u> </u>
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
	-	Runstonn	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/5/2013	21:13	Cloudy	Middle	1.5	24.90	24.90	24.90	8.17	8.17	8.17	28.57	28.57	28.57	75.4	75.6	75.5	5.30	5.32	5.30	4.21	4.21	4.21	4	3.50
	21:15		Middle	1.5	24.90	24.90		8.17	8.17		28.57	28.57		75.4	75.4		5.28	5.31		4.22	4.21		3	<u> </u>
24/5/2013	11:56	Fine	Middle	2.5	25.30	25.30	25.30	8.14	8.14	8.14	30.52	30.52	30.52	69.5	69.3	69.4	4.79	4.78	4.78	2.81	2.80	2.82	5	5.00
	11:58		Middle	2.5	25.30	25.30		8.14	8.14		30.52	30.52		69.1	69.5		4.76	4.78		2.83	2.85		5	<u> </u>
27/5/2013	14:59	Fine	Middle	2.0	25.80	25.80	25.90	8.13	8.13	8.13	27.46	27.46	27.46	80.2	78.9	79.6	5.59	5.49	5.54	3.02	3.02	3.02	6	5.50
	15:01		Middle	2.0	26.00	26.00		8.13	8.13		27.45	27.45		78.8	80.3		5.48	5.58		3.03	3.01		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salinit ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU			led Solids q/L
		Condition	r	n	Va	-	Average	Va	lue -	Average	Va		Average	Va	lue	Average	Va		Average	Va		Average	Value	g/∟ Average
29/4/2013	14:59	Cloudy	Middle	2.0	22.80	22.80	22.85	8.27	8.27	8.26	34.51	34.51	34.51	51.4	51.9	51.6	3.63	3.66	3.64	2.63	2.70	2.64	4	4.00
29/4/2013	15:01	Cloudy	Middle	2.0	22.90	22.90	22.00	8.25	8.25	8.20	34.50	34.50	34.31	51.8	51.1	51.0	3.65	3.60	3.04	2.62	2.62	2.04	4	4.00
2/5/2013	18:54	Cloudy	Middle	2.5	21.00	21.00	20.95	8.27	8.27	8.27	35.08	35.08	35.10	78.2	78.0	78.0	5.72	5.71	5.71	3.63	3.61	3.59	6	6.50
2/0/2010	18:56	Cloudy	Middle	2.5	20.90	20.90	20.33	8.27	8.27	0.27	35.11	35.11	55.10	77.9	77.7	70.0	5.71	5.69	5.71	3.57	3.55	0.00	7	0.00
4/5/2013	18:53	Cloudy	Middle	2.5	21.60	21.60	21.55	8.04	8.04	8.05	35.26	35.26	35.26	71.6	71.4	71.3	5.13	5.12	5.12	1.25	1.24	1.22	4	3.50
	18:55		Middle	2.5	21.50	21.50		8.05	8.05		35.26	35.26		71.2	71.1		5.11	5.11		1.21	1.19		3	
6/5/2013	11:46	Cloudy	Middle	2.0	22.00	22.00	22.00	8.07	8.07	8.07	33.46	33.46	33.46	64.1	64.8	64.9	4.61	4.67	4.68	3.85	3.62	3.62	11	10.50
	11:48		Middle	2.0	22.00	22.00		8.07	8.07		33.46	33.46		65.4	65.4		4.71	4.71		3.41	3.59		10	
9/5/2013	10:32	Fine	Middle	2.5	22.70	22.70	22.80	8.08	8.07	8.07	33.45	33.45	33.44	60.9	60.1	60.5	4.32	4.26	4.29	2.83	2.90	2.94	3	3.50
	10:34		Middle	2.5	22.90	22.90		8.07	8.07		33.43	33.43		60.4	60.4		4.28	4.29		3.06	2.97		4	
11/5/2013	12:03	Fine	Middle	2.0	23.70	23.70	23.80	8.10	8.10	8.10	32.45	32.45	32.43	71.1	70.4	69.6	4.99	4.94	4.88	2.06	2.14	2.23	4	4.50
	12:05		Middle	2.0	23.90	23.90		8.10	8.10		32.41	32.41		68.4	68.4		4.80	4.80		2.32	2.38		5	
13/5/2013	14:45	Fine	Middle	2.5	24.60	24.60	24.75	8.11	8.11	8.11	32.35	32.35	32.36	68.2	68.4	68.2	4.72	4.73	4.71	6.10	6.05	6.06	4	3.50
	14:47		Middle	2.5	24.90	24.90		8.11	8.11		32.36	32.36		68.2	68.0		4.71	4.69		6.09	6.00		3	
15/5/2013	14:59	Fine	Middle	2.5	25.10	25.10	25.20	8.11	8.11	8.10	32.06	32.06	32.05	74.7	73.1	72.9	5.14	5.01	5.00	3.12	3.09	3.02	3	3.00
	15:01		Middle	2.5	25.30	25.30		8.09	8.09		32.04	32.04		72.0	71.6		4.94	4.92		2.94	2.94		3	<u> </u>
18/5/2013	15:52	Fine	Middle	2.5	25.40	25.40	25.40	8.10	8.10	8.10	31.48	31.48	31.48	72.9	73.1	73.3	4.98	4.99	5.01	2.87	2.90	2.85	2	2.50
	15:54		Middle	2.5	25.40	25.40		8.10	8.10		31.48	31.48		73.9	73.4		5.04	5.01		2.80	2.83		3	<u> </u>
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	- 21:06		Middle	- 1.5	- 24.60	- 24.60		- 8.16	- 8.16		- 28.50	- 28.50		- 69.5	- 72.9		- 4.96	- 5.16		- 4.13	- 4.16		5	<u> </u>
22/5/2013	21:08	Cloudy	Middle	1.5	24.60	24.60	24.60	8.18	8.18	8.17	28.50	28.50	28.51	72.8	72.9	72.4	5.15	5.27	5.14	4.13	4.10	4.16	4	4.50
	11:50		Middle	2.5	24.00	25.10		8.14	8.14		30.49	30.49		69.3	68.9		4.80	4.78		2.88	2.90		3	<u> </u>
24/5/2013	11:52	Fine	Middle	2.5	25.10	25.10	25.10	8.14	8.14	8.14	30.49	30.49	30.49	69.4	69.9	69.4	4.81	4.83	4.81	2.93	2.96	2.92	3	3.00
	14:55		Middle	2.0	25.70	25.70		8.13	8.13	l	27.47	27.47		82.1	82.2	l	5.71	5.71		3.59	3.58	l	6	<u> </u>
27/5/2013	14:57	Fine	Middle	2.0	25.80	25.80	25.75	8.12	8.12	8.13	27.46	27.46	27.47	83.6	83.6	82.9	5.81	5.80	5.76	3.58	3.52	3.57	5	5.50

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



Water Monitoring Result at C5e - Sun Hung Kai Centre Mid-Ebb Tide

Date	Time	Weater	Samplin	g Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid		Suspende	
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	NTU lue	Average	mg Value	J/L Average
00/4/0040	14:31	Olevato	Middle	1.5	24.80	24.80	04.00	7.99	7.99	7.00	32.16	32.16	00.40	62.7	63.8	00.4	4.33	4.11	4.00	2.73	2.69	0.70	3	2.00
29/4/2013	14:33	Cloudy	Middle	1.5	24.80	24.80	24.80	7.99	7.99	7.99	32.15	32.15	32.16	63.0	62.9	63.1	4.34	4.34	4.28	2.68	2.69	2.70	3	3.00
2/5/2013	19:42	Cloudy	Middle	1.0	21.90	21.90	21.85	7.88	7.88	7.89	30.69	30.69	30.69	73.5	74.6	75.2	5.39	5.47	5.52	2.71	2.69	2.74	7	7.00
2/5/2015	19:43	Cloudy	Middle	1.0	21.80	21.80	21.05	7.89	7.89	7.09	30.69	30.69	30.09	76.1	76.4	75.2	5.60	5.62	5.52	2.81	2.76	2.74	7	7.00
4/5/2013	19:50	Cloudy	Middle	1.0	22.00	22.00	22.00	7.99	7.99	7.99	31.63	31.63	31.65	72.0	72.4	71.3	5.23	5.27	5.20	3.93	4.00	3.77	4	4.50
	19:51	cloudy	Middle	1.0	22.00	22.00	22.00	7.99	7.99	1.00	31.66	31.66	01.00	70.8	69.9	1.1.0	5.15	5.14	0.20	3.59	3.56	0	5	
6/5/2013	10:50	Cloudy	Middle	1.5	22.60	22.60	22.63	8.19	8.19	8.19	34.01	34.01	34.11	65.3	64.5	65.0	4.61	4.58	4.60	2.84	2.84	2.84	8	7.50
0/3/2013	10:52	Cloudy	Middle	1.5	22.66	22.66	22.00	8.18	8.18	0.15	34.21	34.21	04.11	65.2	64.9	00.0	4.60	4.59	4.00	2.83	2.83	2.04	7	1.50
9/5/2013	12:05	Fine	Middle	1.5	24.67	24.67	24.71	7.65	7.65	7.64	33.78	33.78	33.78	67.8	67.2	67.3	4.65	4.60	4.61	0.77	0.81	0.78	5	5.00
0/0/2010	12:06	Tillo	Middle	1.5	24.75	24.75	24.71	7.63	7.63	1.04	33.77	33.77	00.70	67.4	66.9	01.0	4.61	4.58	4.01	0.79	0.74	0.10	5	0.00
11/5/2013	12:55	Fine	Middle	1.5	25.25	25.25	25.24	7.73	7.73	7.73	33.23	33.23	33.25	65.1	64.7	64.4	4.44	4.41	4.39	1.43	1.42	1.39	3	3.50
11/3/2013	12:57	Tine	Middle	1.5	25.23	25.23	20.24	7.72	7.72	1.15	33.26	33.26	00.20	64.2	63.6	04.4	4.37	4.33	4.55	1.38	1.32	1.00	4	0.00
13/5/2013	13:30	Fine	Middle	1.5	25.52	25.52	25.53	7.78	7.78	7.78	33.60	33.60	33.61	72.6	72.4	72.2	4.91	4.90	4.89	2.41	2.37	2.37	3	2.50
10/0/2010	13:32	Tine	Middle	1.5	25.54	25.54	20.00	7.77	7.77	1.10	33.62	33.62	55.01	72.0	71.8	12.2	4.87	4.86	4.05	2.34	2.36	2.07	2	2.00
15/5/2013	14:37	Fine	Middle	2.0	26.71	26.71	26.75	7.66	7.66	7.66	33.70	33.70	33.70	74.7	74.5	74.4	4.94	4.93	4.92	2.75	2.73	2.73	3	3.50
10/0/2010	14:39	Tine	Middle	2.0	26.78	26.78	20.75	7.66	7.66	7.00	33.69	33.69	33.70	74.3	74.0	74.4	4.92	4.90	4.52	2.72	2.72	2.15	4	0.00
18/5/2013	15:46	Fine	Middle	1.5	26.98	26.98	26.99	7.68	7.68	7.68	32.32	32.32	32.34	70.6	70.4	70.3	4.69	4.68	4.68	1.64	1.65	1.65	2	3.00
10/0/2010	15:48		Middle	1.5	26.99	26.99	20.00	7.67	7.67	1.00	32.35	32.35	02.04	70.2	70.1	70.0	4.67	4.66	4.00	1.66	1.66	1.00	4	0.00
20/5/2013	-	Amber	Middle	-	-	-	_	-	-	_	-	-	_	-	-		-	-		÷	ì	_	-	
20/3/2013	-	Rainstorm	Middle	-	-	-		-	-	_	-	-	_	-	-		-	-		-	-		-	_
22/5/2013	23:30	Cloudy	Middle	1.0	25.30	25.30	25.30	7.89	7.89	7.89	26.78	26.78	26.78	61.1	61.5	60.9	4.31	4.34	4.30	1.31	1.40	1.33	3	2.50
	23:31	Cioudy	Middle	1.0	25.30	25.30	20.00	7.88	7.88	1.00	26.78	26.78	20.10	60.5	60.5	00.0	4.27	4.27	7.50	1.39	1.23	1.00	2	2.00
24/5/2013	11:05	Fine	Middle	1.5	26.40	26.40	26.42	7.75	7.75	7.74	31.09	31.09	31.09	85.6	83.6	83.3	5.79	5.65	5.63	2.34	2.33	2.29	3	3.00
241012010	11:07		Middle	1.5	26.44	26.44	20.72	7.73	7.73	1.17	31.08	31.08	01.00	82.7	81.1	00.0	5.59	5.48	0.00	2.25	2.25	2.20	3	0.00
27/5/2013	13:45	Fine	Middle	1.5	27.12	27.12	27.14	7.70	7.70	7.70	29.49	29.49	29.49	82.2	82.2	82.2	5.54	5.54	5.54	1.78	1.79	1.78	3	3.00
2110/2010	13:47	T IIIC	Middle	1.5	27.16	27.16	21.17	7.70	7.70	1.70	29.48	29.48	20.70	82.3	82.2	02.2	5.55	5.54	0.04	1.78	1.78	1.70	3	0.00

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



Water Monitoring Result at C5w - Sun Hung Kai Centre Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
00/4/0040	14:35	Olevetia	Middle	1.5	24.20	24.20	04.05	7.91	7.91	7.04	32.16	32.16	00.40	53.3	53.2	50.4	3.72	3.71	0.00	3.00	2.97	0.00	4	4.50
29/4/2013	14:37	Cloudy	Middle	1.5	24.30	24.30	24.25	7.91	7.91	7.91	32.16	32.16	32.16	52.7	53.2	53.1	3.57	3.71	3.68	2.90	2.84	2.93	5	4.50
2/5/2013	19:51	Cloudy	Middle	1.0	21.50	21.50	21.50	7.86	7.86	7.86	31.14	31.14	31.15	71.6	71.7	71.7	5.25	5.28	5.28	3.49	3.55	3.37	4	4.00
2/5/2013	19:52	Cloudy	Middle	1.0	21.50	21.50	21.50	7.85	7.85	7.00	31.15	31.15	31.15	72.3	71.3	71.7	5.33	5.25	5.20	3.34	3.08	3.37	4	4.00
4/5/2013	19:56	Cloudy	Middle	1.0	22.30	22.30	22.30	7.90	7.90	7.90	31.71	31.71	31.71	78.5	77.7	78.2	5.68	5.62	5.66	2.57	2.31	2.39	4	4.00
4/5/2013	19:57	Cloudy	Middle	1.0	22.30	22.30	22.00	7.90	7.90	7.50	31.71	31.71	51.71	78.0	78.6	70.2	5.64	5.69	5.00	2.44	2.24	2.00	4	4.00
6/5/2013	10:55	Cloudy	Middle	1.5	22.56	22.56	22.56	8.15	8.15	8.16	34.22	34.22	34.23	74.4	74.4	74.7	5.28	5.28	5.30	3.16	3.11	3.11	6	5.50
0,0,2010	10:57	oloudy	Middle	1.5	22.56	22.56	22.00	8.16	8.16	0.10	34.23	34.23	04.20	74.8	75.0	74.7	5.31	5.32	0.00	3.09	3.08	0.11	5	0.00
9/5/2013	12:11	Fine	Middle	1.5	24.65	24.60	24.63	7.66	7.66	7.66	33.81	33.81	33.81	74.4	74.2	74.2	5.10	5.09	5.09	3.59	3.63	3.60	4	4.00
0,0,2010	12:12		Middle	1.5	24.64	24.64	2	7.66	7.66		33.81	33.81	00.01	74.1	73.9		5.09	5.07	0.00	3.60	3.57	0.00	4	
11/5/2013	13:00	Fine	Middle	1.5	25.26	25.26	25.24	7.81	7.81	7.80	33.25	33.25	33.27	83.3	81.5	81.2	5.68	5.55	5.52	3.12	3.10	3.07	3	3.00
1.10,2010	13:02		Middle	1.5	25.22	25.22	20.21	7.79	7.79		33.28	33.28	00.21	80.7	79.3	0.1.2	5.45	5.40	0.02	3.09	2.97	0.01	3	0.00
13/5/2013	13:35	Fine	Middle	1.5	25.81	25.81	25.75	7.83	7.83	7.82	33.53	33.53	33.58	86.2	84.7	84.5	5.81	5.71	5.70	2.82	2.83	2.90	4	4.00
	13:37		Middle	1.5	25.68	25.68		7.80	7.80		33.63	33.63		84.1	82.9		5.67	5.59		2.95	3.01		4	
15/5/2013	14:40	Fine	Middle	2.0	27.02	27.02	27.00	7.70	7.70	7.69	33.64	33.64	33.65	82.7	82.1	81.7	5.46	5.42	5.39	1.83	1.85	1.79	6	5.50
	14:42		Middle	2.0	26.97	26.97		7.68	7.68		33.65	33.65		81.1	80.7		5.36	5.33		1.80	1.68		5	
18/5/2013	15:49	Fine	Middle	1.5	26.46	26.46	26.46	7.73	7.73	7.72	32.51	32.51	32.50	81.8	80.2	79.6	5.48	5.37	5.33	3.16	3.11	3.07	5	5.50
	15:50		Middle	1.5	26.46	26.46		7.71	7.71		32.48	32.48		78.8	77.5		5.27	5.19		3.02	2.97		6	
20/5/2013	-	Amber	Middle	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		-	
	-	Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/5/2013	23:42	Cloudy	Middle	1.0	25.20	25.20	25.25	7.93	7.93	7.92	24.63	24.63	24.63	63.5	65.0	63.7	4.54	4.65	4.55	1.20	1.22	1.22	4	4.00
	23:43		Middle	1.0	25.30	25.30		7.91	7.91		24.62	24.62		63.4	62.7		4.53	4.48		1.27	1.17		4	
24/5/2013	11:09	Fine	Middle	1.5	26.45	26.45	26.49	7.71	7.71	7.71	31.08	31.08	31.09	74.0	73.7	73.4	5.00	4.97	4.96	2.37	2.25	2.27	4	4.00
	11:11		Middle	1.5	26.52	26.52		7.71	7.71		31.09	31.09		73.3	72.7		4.95	4.91		2.23	2.21		4	
27/5/2013	13:55	Fine	Middle	1.5	27.24	27.24	27.26	7.72	7.72	7.72	29.69	29.69	29.71	85.2	84.7	84.2	5.72	5.66	5.65	3.84	3.82	3.74	5	4.50
	13:57		Middle	1.5	27.27	27.27		7.71	7.71		29.73	29.73		83.5	83.2		5.61	5.59		3.65	3.65		4	

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	• .	Water Temperature			pH			Salinity ppt			D	O Satur	ation		DO mg/L		Turbidity NTU			Suspended Solids	
		Condition	m		Value Average		Va	Value Average		Va	Value Average		Value Average		Average			Average	Value Average		Value	Average		
29/4/2013	15:30	Cloudy	Middle	1.5	23.90	23.90	23.90	8.42	8.42	8.41	33.04	33.04	33.04	62.6	64.6	63.0	4.37	4.50	4.40	4.19	4.53	4.25	18	<u>18.50</u>
2314/2013	15:32	Cloudy	Middle	1.5	23.90	23.90	20.00	8.40	8.40	0.41	33.03	33.03	33.04	63.6	61.3	00.0	4.44	4.27	+0	4.25	4.02	4.23	19	10.30
2/5/2013	19:53	Cloudy	Middle	2.0	22.00	22.00	21.80	8.17	8.17	8.17	33.46	33.46	33.34	53.3	53.1	.1 53.1	3.82	3.81	3.81	3.01	2.99	2.98	7	6.50
2.0.2010	19:55		Middle	2.0	21.60	21.60	21.00	8.17	8.17	0.11	33.21	33.21	00.01	53.0	52.8		3.80	3.79	0.01	2.97	2.96	2.00	6	0.00
4/5/2013	19:48	Cloudy	Middle	2.0	22.40	22.40	22.25	7.73	7.73	7.73	34.43	34.43	34.42	58.7	58.5	58.4	4.19	4.18	4.18	2.36	2.31	2.29	8	8.50
	19:50	,	Middle	2.0	22.10	22.10		7.72	7.72		34.41	34.41		58.3	58.2		4.17	4.17		2.25	2.22		9	
6/5/2013	11:11	Cloudy	Middle	1.5	22.30	22.30	22.30	8.05	8.05	8.05	33.00	33.00	33.00	50.5	49.8	49.4	3.62	3.57	3.54	1.83	1.71	1.69	10	9.50
	11:13	-	Middle	1.5	22.30	22.30		8.05	8.05		33.00	33.00		48.8	48.5		3.50	3.48		1.63	1.57		9	
9/5/2013	11:00	Fine	Middle	2.0	23.60	23.60	23.65	8.07	8.07	8.07	33.01	33.01	33.01	58.4	57.8	57.4	4.09	4.05	4.02	3.83	3.74	3.70	4	4.00
	11:02		Middle	2.0	23.70	23.70		8.06	8.06		33.00	33.00		56.4	56.9		3.94	3.99		3.59	3.64		4	
11/5/2013		Fine	Middle	2.0	23.70	23.70	23.75	8.04	8.04	8.04	32.73	32.73	32.72	50.5	52.1	51.0	3.54	3.65	3.57	2.42	2.44	2.44	4	4.50
	11:25		Middle	2.0	23.80	23.80		8.04	8.04		32.71	32.71		50.9	50.4		3.57	3.53		2.58	2.32		5	1
13/5/2013	15:13	Fine	Middle	2.0	25.00	25.00	25.05	8.04	8.04	8.03	32.32	32.32	32.30	56.1	56.5	56.4	3.83	3.86	3.85	3.96	4.01	4.01	4	4.00
	15:15		Middle	2.0	25.10	25.10		8.02	8.02		32.28	32.28		56.7	56.2		3.87	3.83		3.94	4.11			
15/5/2013	15:33	Fine	Middle	2.0	26.50	26.50	26.65	8.00	8.00	8.00	32.03	32.03	32.02	56.5	57.1	57.1	3.78	3.82	3.82	3.61	3.60	3.60		6.50
	15:35		Middle	2.0	26.80	26.80		7.99	7.99		32.00	32.00		56.9	57.8		3.81	3.87		3.59	3.60			
18/5/2013	15:10 15:12	Fine	Middle	2.0	26.00 26.00	26.00 26.00	26.00	7.99	7.99 7.99	7.99	31.00	31.00 31.00	31.00	53.7	54.1 53.5	53.7	3.64 3.62	3.63 3.63	3.63	4.02	4.04 3.97	4.02		5.00
	-		Middle	-	20.00	-		7.99	7.99		31.00	31.00		53.3	53.5		3.02	3.03		4.05	3.97		-	
20/5/2013		Amber Rainstorm	Middle	-		-	-			-			-		-	-	_		-			-		
	21:00		Middle	2.0	24.50	24.50		8.08	8.08		30.63	30.63		59.3	59.8		4.15	4.18		4.05	4.14			
22/5/2013	21:02	Cloudy	Middle	2.0	24.50	24.50	24.50	8.08	8.08	8.08	30.63	30.63	30.63	60.1	60.9	60.0	4.20	4.26	4.20	4.11	4.14	4.11	6	5.50
	11:15		Middle	1.5	25.60	25.60	<u> </u>	8.07	8.07		30.78	30.78		56.4	56.4		3.87	3.86		5.34	5.36		6	
24/5/2013	11:17	Fine	Middle	1.5	25.60	25.60	25.60	8.07	8.07	8.07	30.78	30.78	30.78	57.1	56.7	56.7	3.91	3.88	3.88	5.39	5.40	5.37	mg/l Value 1 18 1 19 7 6 8 9 10 9 4 4 4 5 6 5 5 5 5 - 5 6 6	7.00
	14:21		Middle	1.5	27.30	27.30		7.98	7.98	<u> </u>	27.03	27.03		55.4	54.7	<u> </u>	3.77	3.72		2.72	2.65		6	
27/5/2013	14:23	Fine	Middle	1.5	27.30	27.30	27.30	7.98	7.98	7.98	27.04	27.04	27.04	53.3	52.9	54.1	3.63	3.60	3.68	2.73	2.76	2.72	19 7 6 8 9 10 9 4 4 5 6 5 5 6 5 6	6.00

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	

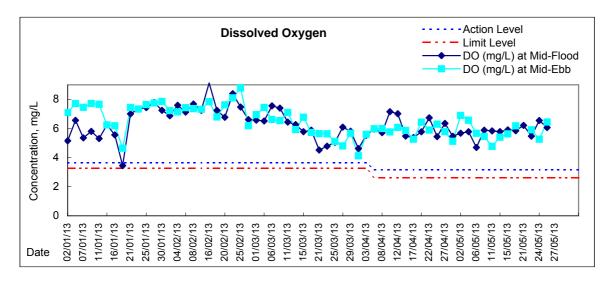
Date	Time	Weater Condition	Samplin	ig Depth	Water Temperature			pH			Salinity ppt			D	O Satur %	ation		DO ma/L		Turbidity NTU			Suspended Solids	
		Condition	m		-		Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	3	Average	Va		Average		Average
20///2013	14:00	Cloudy	Middle	2.5	23.20	23.20	23.25	8.05	8.05	8.06	33.01	33.01	33.01	73.2	73.8	73.3	5.17	5.21	5.17	9.42	9.22	9.26	10	9.00
23/4/2013	14:02	Cloudy	Middle	2.5	23.30	23.30	23.23	8.06	8.06	0.00	33.01	33.01	55.01	73.3	72.9	73.5	5.17	5.14	5.17	9.20	9.19	9.20	8	9.00
2/5/2013	20:26	Cloudy	Middle	1.5	21.00	21.00	21.00	8.07	8.07	8.07	32.08	32.08	32.08	88.9	86.6	87.9	6.57	6.40	6.50	6.92	6.29	6.46	11	10.50
210/2010	20:27	Cloudy	Middle	1.5	21.00	21.00	21.00	8.07	8.07	0.07	32.08	32.08	02.00	87.7	88.4	01.0	6.48	6.54	0.00	6.31	6.32	0.40	Value 10	10.00
$\begin{array}{c} 29/4/2013 \\ \hline 14:0 \\ 2/5/2013 \\ \hline 20:2 \\ 20:2 \\ 20:2 \\ 20:2 \\ 20:2 \\ 20:2 \\ 20:2 \\ 21:0 \\ 21:0 \\ 10:2 \\ 10:$	21:01	Cloudy	Middle	1.5	21.80		21.80	8.11	8.11	8.11	32.40	32.40	32.41	88.1	88.0	88.0	6.39	6.39	6.39	8.29	8.19	8.07	9	9.00
	21:02	,	Middle	1.5	21.80	21.80		8.11	8.11		32.41	32.41	-	88.3	87.5		6.41	6.36		8.00	7.81		mg 10 8 11 10 9 9 11 10 9 11 10 9 9 11 12 10 9 7 6 5 4 5 7 5 7 5 4 4	
6/5/2013	10:25	Cloudy	Middle	3.5	22.33	22.38	22.32	7.98	7.98	7.98	34.60	34.60	34.62	76.3	76.8	76.6	5.43	5.46	5.45	9.29	9.28	9.28	11	- 11.50
	10:27		Middle	3.5	22.29	22.29		7.98	7.98		34.63	34.63		76.4	76.9		5.43	5.47		9.28	9.28		12	
	11:46	Fine	Middle	2.0	23.59	23.59	59 23.63	7.68	7.68	7.68	34.40	34.40	34.38	84.4	84.2	84.1	5.87	5.86	5.85	7.37	7.50	7.45	10	9.50
	11:48		Middle	2.0	23.66	23.66		7.68	7.68		34.36	34.36		83.9	83.8		5.83	5.82		7.44	7.47		9	
	12:40	Fine	Middle	3.0	24.86	24.86	24.86	7.91	7.91	7.91	32.91	32.91	32.92	79.7	79.1	79.0	5.47	5.43	5.43	4.88	4.95	4.94	7	6.50
	12:42		Middle	3.0	24.86	24.86		7.90	7.90		32.92	32.92		78.9	78.4		5.42	5.39		4.96	4.96		6	
13/5/2013	13:15	Fine	Middle	2.5	25.01	25.01	25.01	7.95	7.95	7.95	33.28	33.28	33.29	88.8	88.6	88.5	6.07	6.06	6.05	4.98	4.96	4.97	6	5.50
	13:17		Middle	2.5	25.01	25.01		7.94	7.94		33.30	33.30		88.3	88.2		6.04	6.03		4.96	4.97		5	
15/5/2013	14:05	Fine	Middle	3.0	26.70	26.70	26.64	7.84	7.84	7.83	33.33	33.33	33.33	83.6	82.0	81.3	5.57	5.46	5.42	3.90	3.90	3.91	-	4.00
	14:07		Middle	3.0	26.58	26.58		7.81	7.81		33.32	33.32		80.5	79.2		5.36	5.27		3.90	3.95		4	
18/5/2013	15:20	Fine	Middle	3.5	27.56	27.56	27.57	7.87	7.87	7.87	32.29	32.29	32.35	96.1	95.6	95.1	6.33	6.29	6.26	5.71	5.78	5.81		5.50
	15:22		Middle	3.5	27.58	27.58		7.86	7.86		32.40	32.40		94.7	94.0		6.24	6.19		5.84	5.89		6	<u></u>
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
			Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
22/5/2013	0:53	Cloudy	Middle	1.5	24.70	24.70	24.70	8.06	8.06	8.07	27.99	27.99	28.00	82.9	82.8	82.2	5.87	5.86	5.82	2.21	2.40	2.28		6.00
	0:54		Middle	1.5	24.70	24.70		8.07	8.07		28.01	28.01		82.0	81.0		5.80	5.73		2.20	2.32			
24/5/2013	11:35	Fine	Middle		26.30	26.40	7.87	7.87	7.86	31.02	31.02	30.99	97.3	95.0	94.4	6.58	6.43	6.39	3.20	3.17	3.14		4.50	
	11:37		Middle	4.0	26.49	26.49		7.84	7.84		30.96	30.96		93.1	92.3		6.30	6.24		3.11	3.09			<u> </u>
27/5/2013	13:20	Fine	Middle	4.0	26.71	26.71	26.79	7.88	7.88	7.87	28.42	28.42	28.41	90.8	90.0	89.9	6.20	6.14	6.13	3.44	3.45	3.48		3.50
	13:22		Middle	4.0	26.86	26.86		7.86	7.86		28.40	28.40		89.6	89.2		6.11	6.08		3.50	3.53		3	

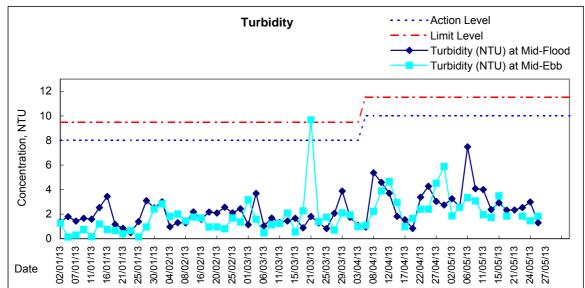
Remarks:

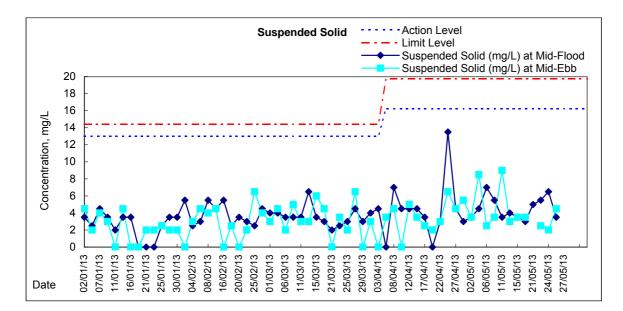
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

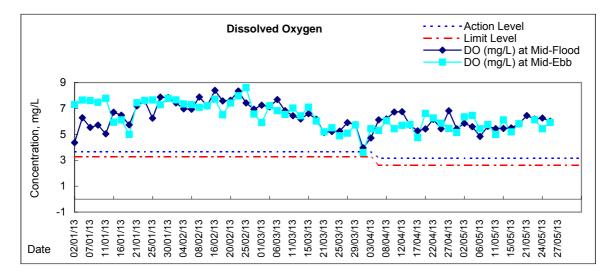
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

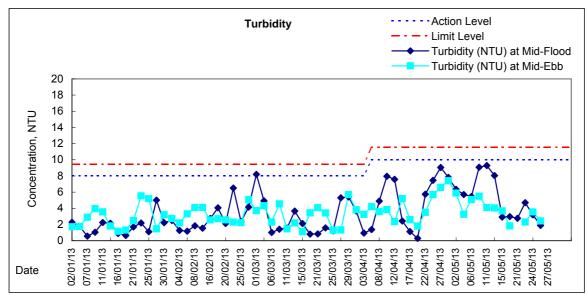


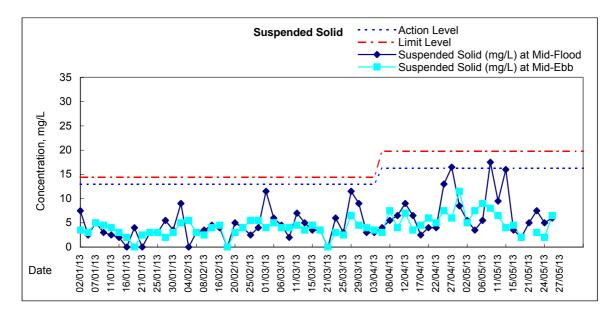




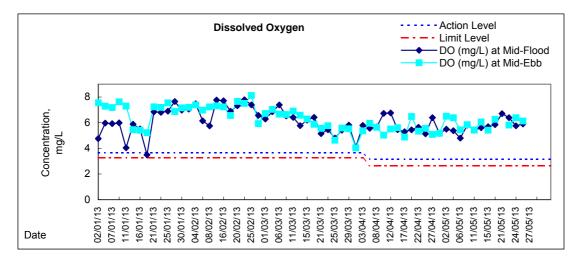
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

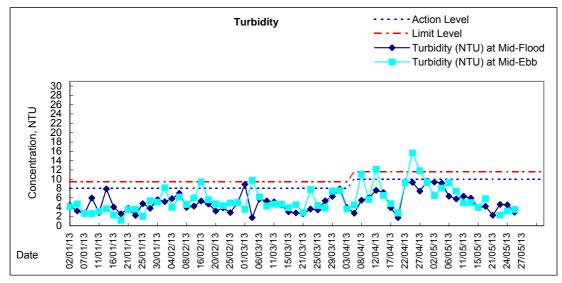


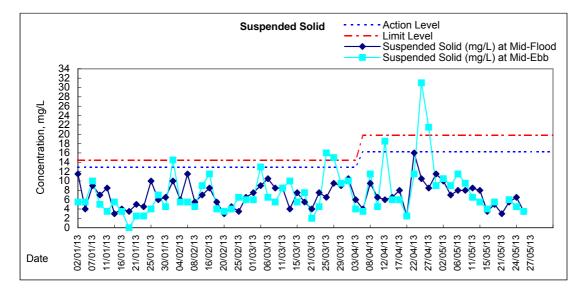


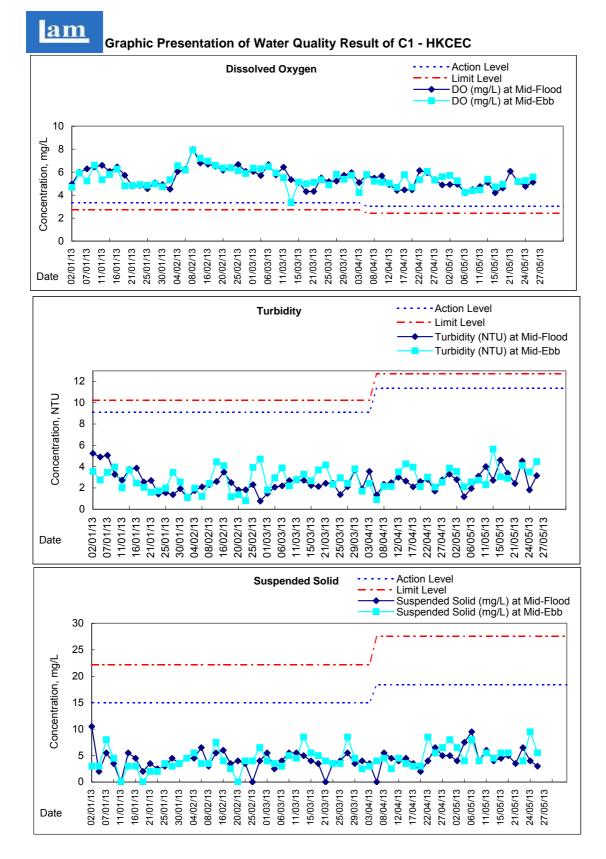






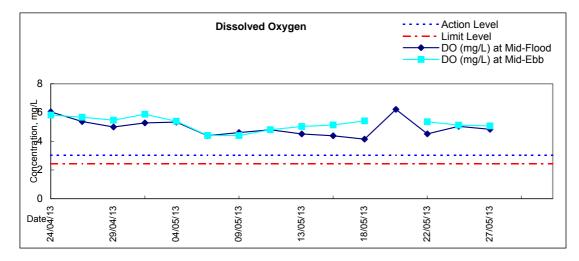


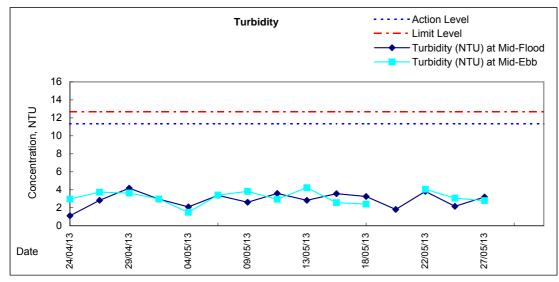


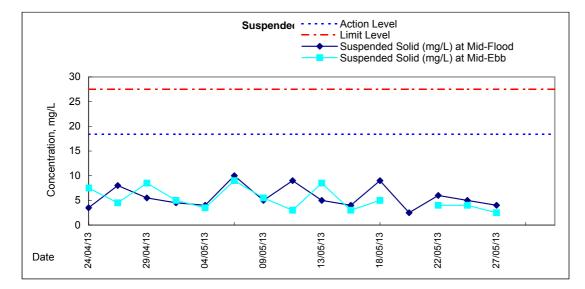


Remarks: Due to the blockage of road access to C1 on 15 Dec 2012 during mid-flood, the water quality monitoring was cancelled at C1 on 15 Dec 2012 during mid-flood.

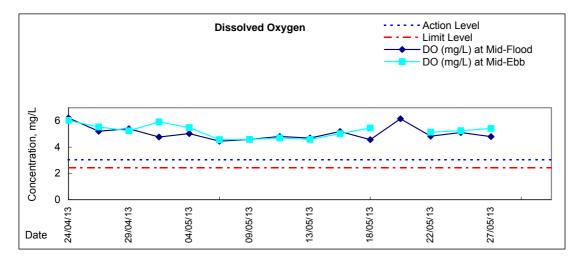
Graphic Presentation of Water Quality Result of P3 - APA

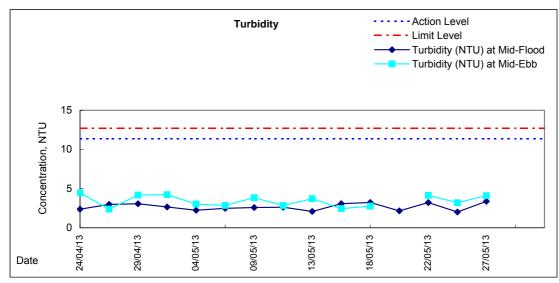


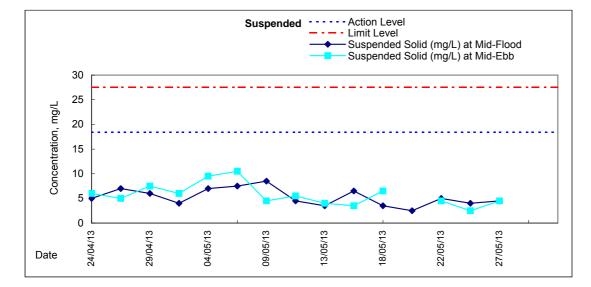




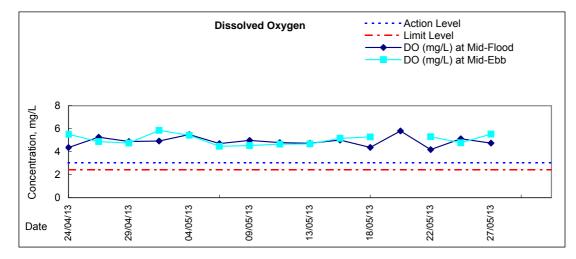
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

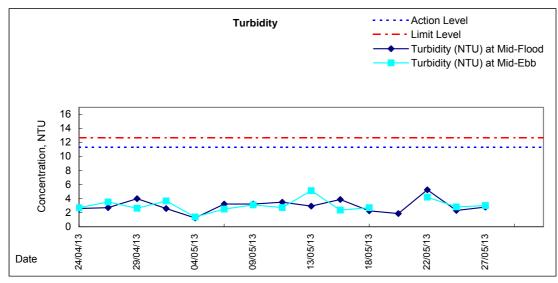


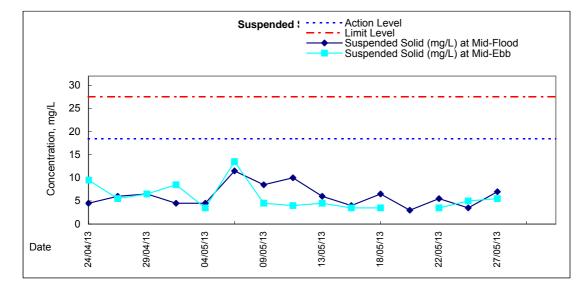




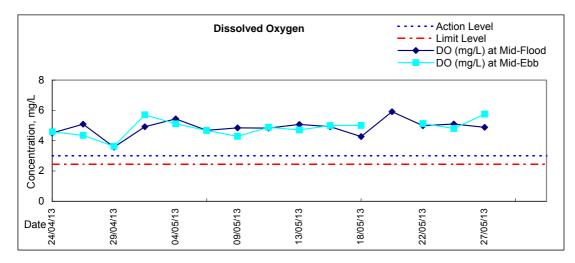
Graphic Presentation of Water Quality Result of P4 - SOC

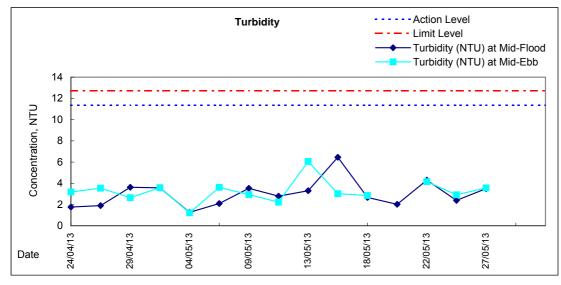


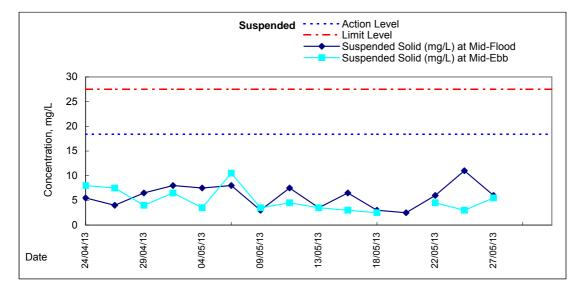




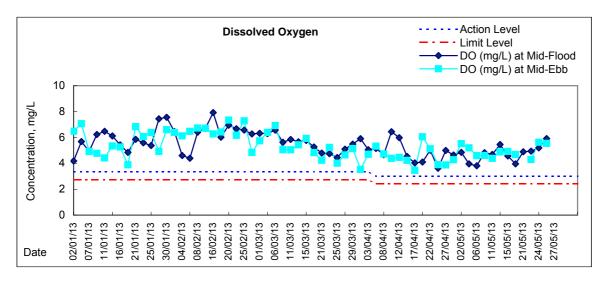


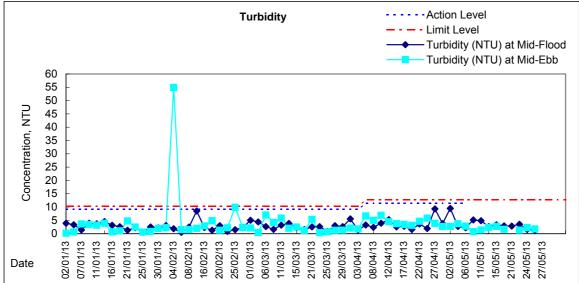


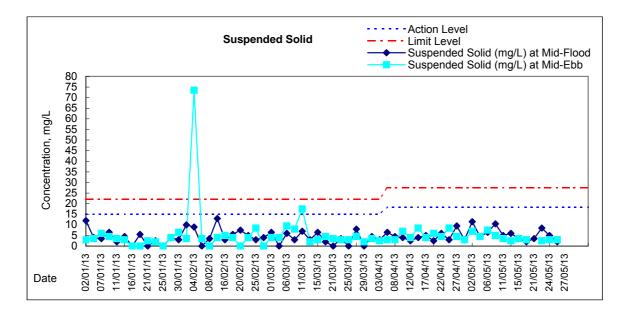




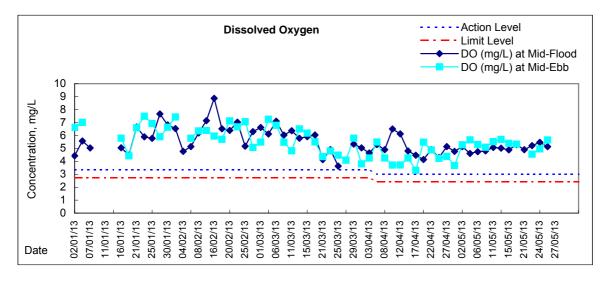
Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

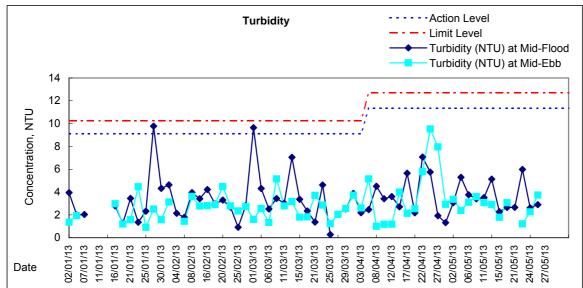


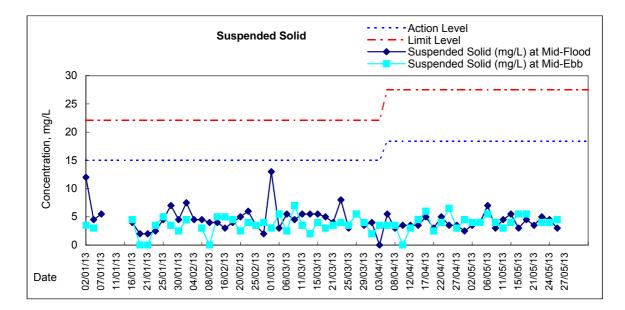




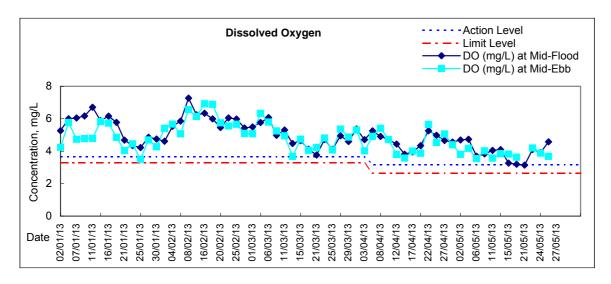
Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

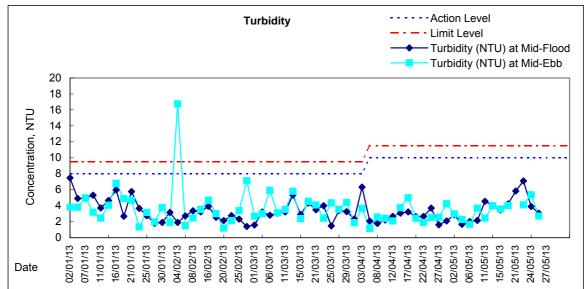


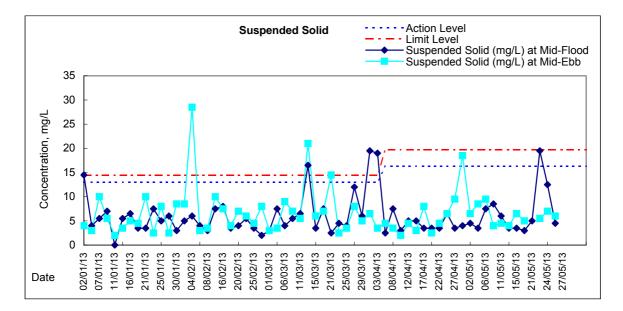




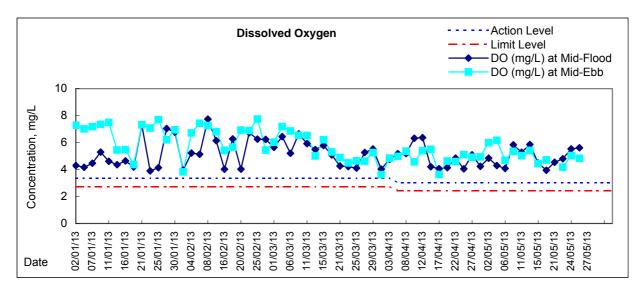
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

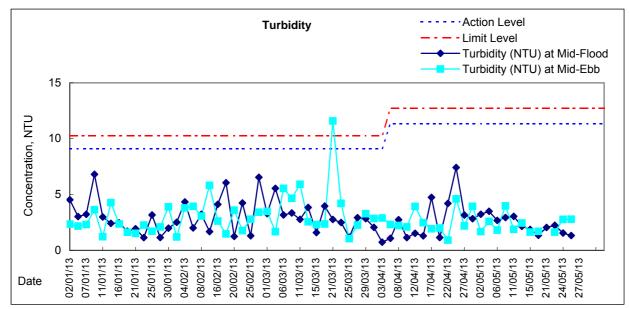


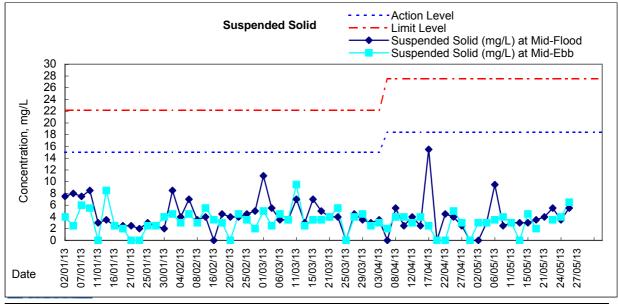








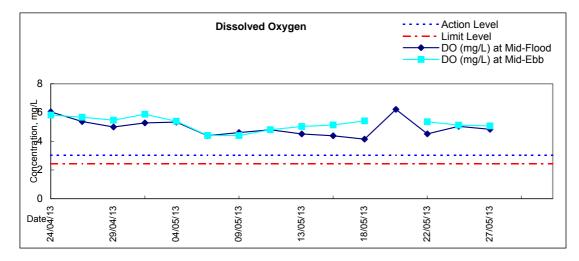


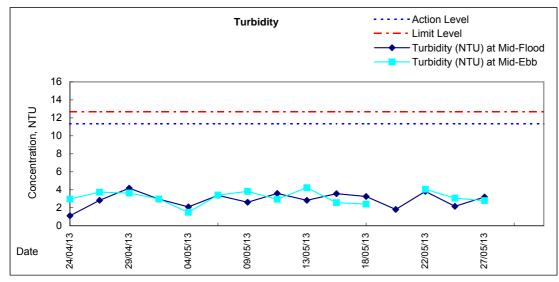


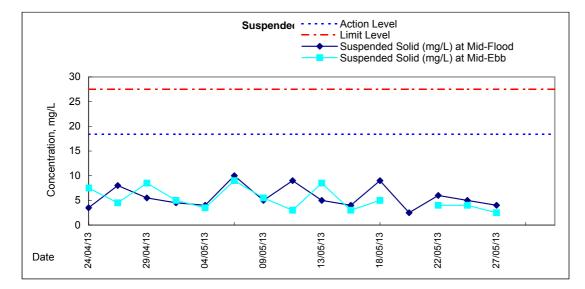
Remarks:

*Due to the Amber rainstorm signal was hoisted on 20 May 13 at ebb tide, the water qulity monitoring was cancelled.

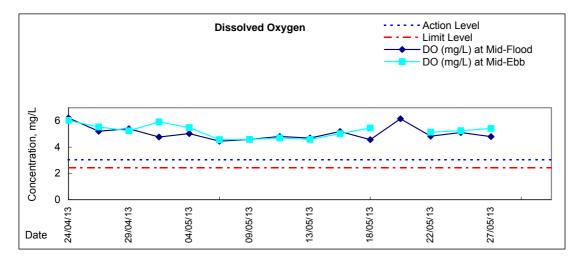
Graphic Presentation of Water Quality Result of P3 - APA

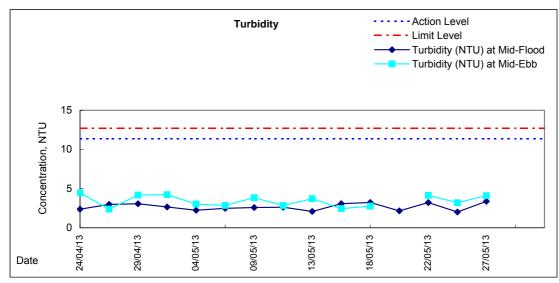


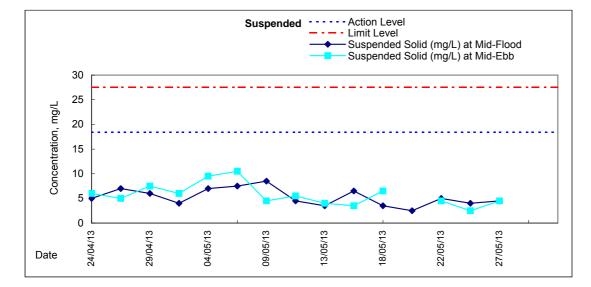




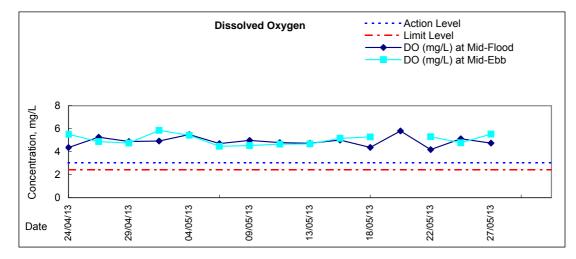
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

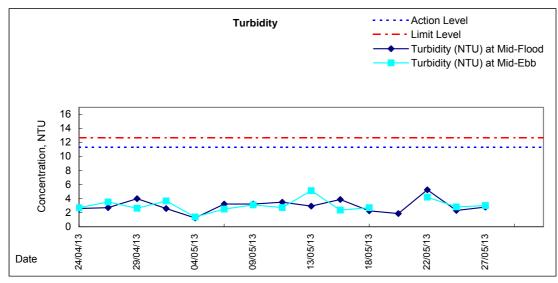


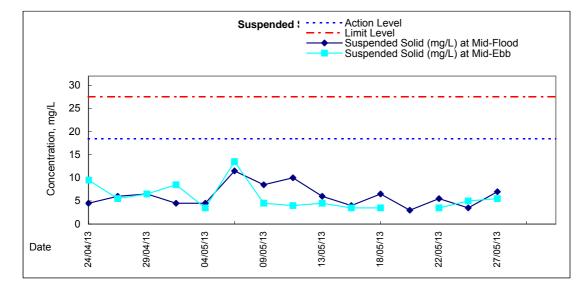




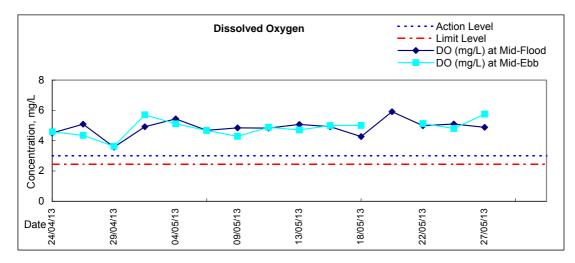
Graphic Presentation of Water Quality Result of P4 - SOC

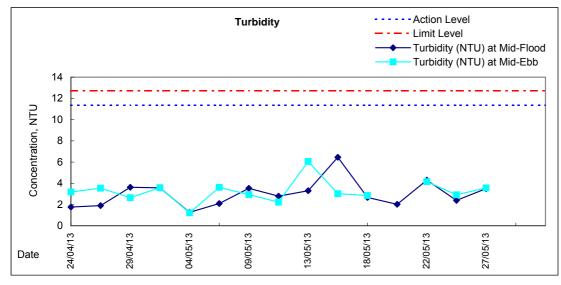


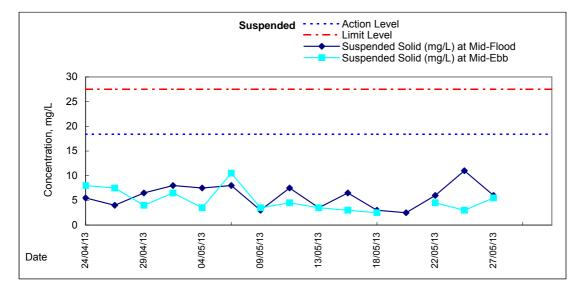




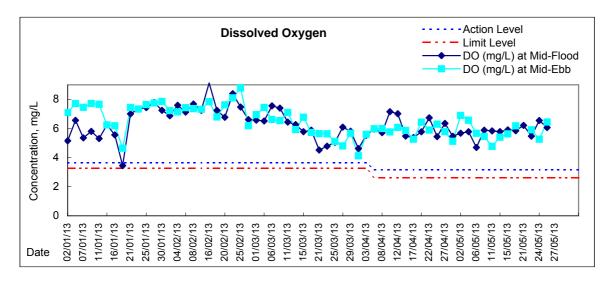


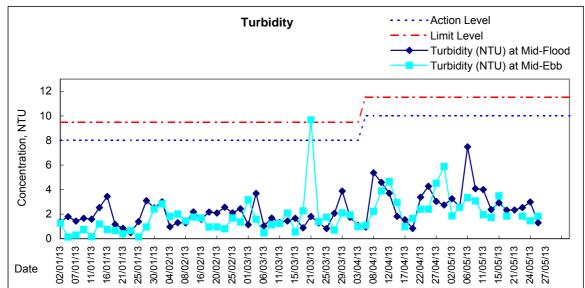


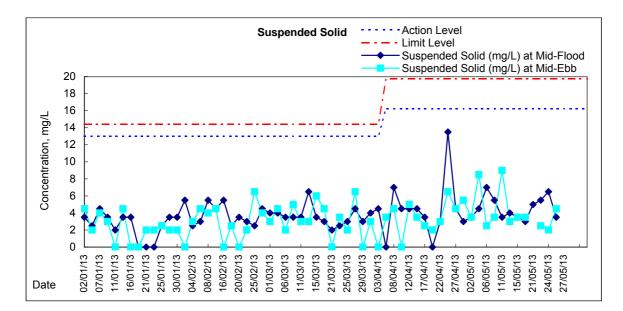




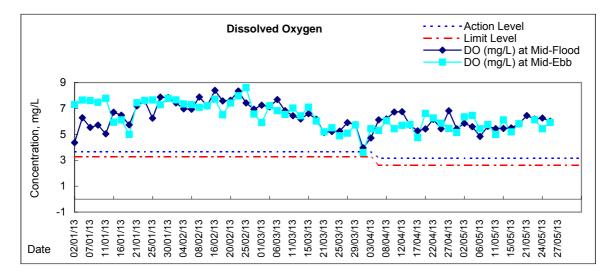
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

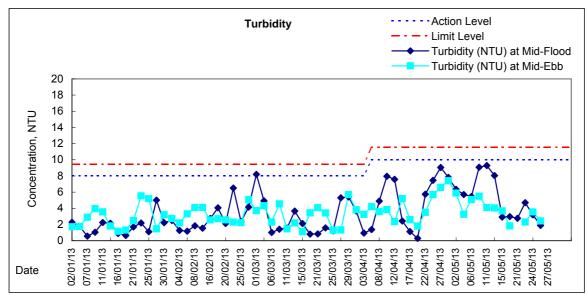


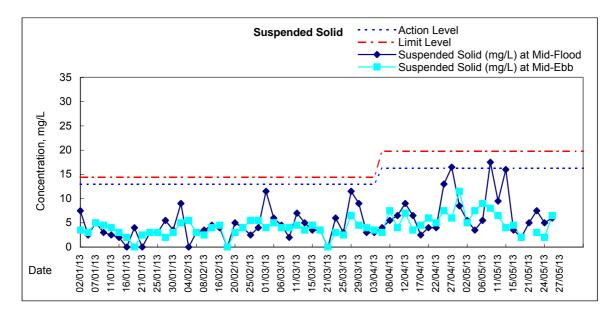




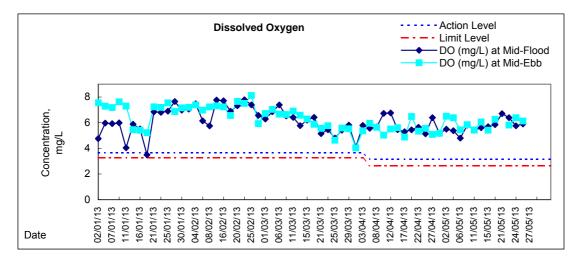
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

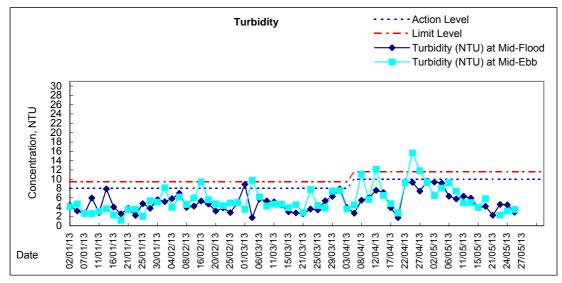


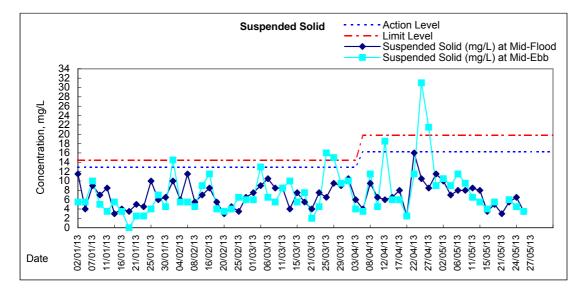


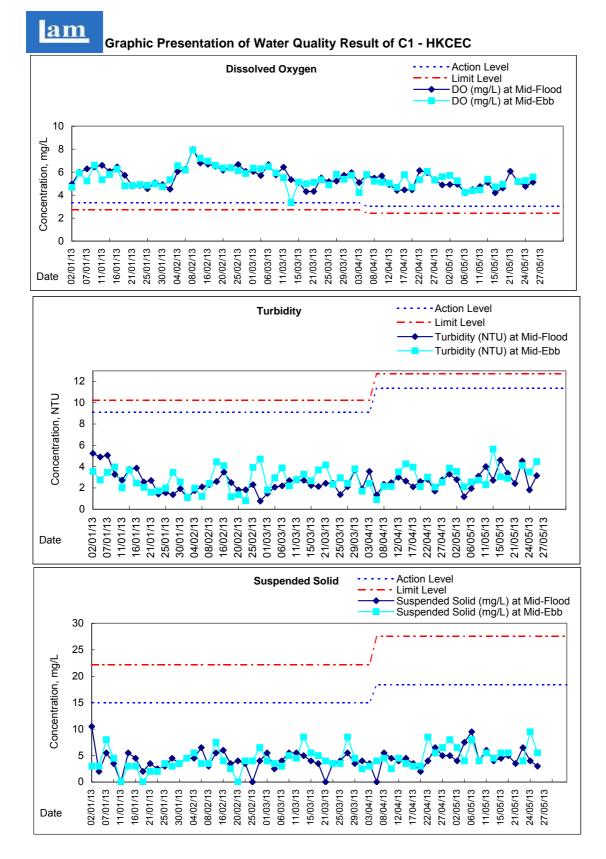






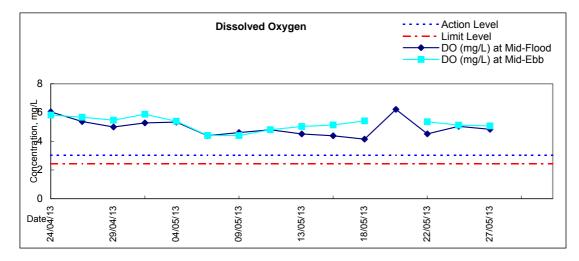


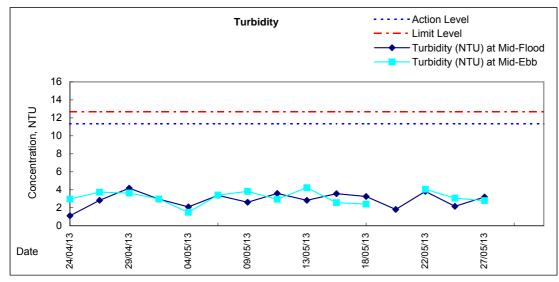


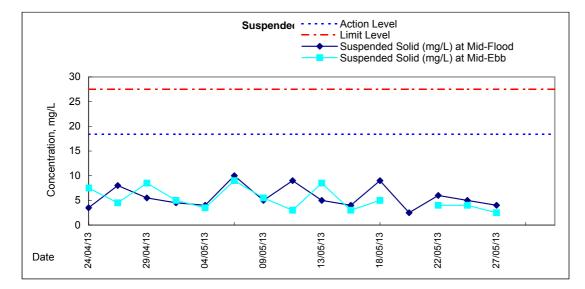


Remarks: Due to the blockage of road access to C1 on 15 Dec 2012 during mid-flood, the water quality monitoring was cancelled at C1 on 15 Dec 2012 during mid-flood.

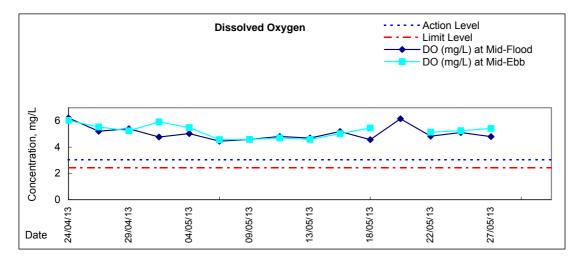
Graphic Presentation of Water Quality Result of P3 - APA

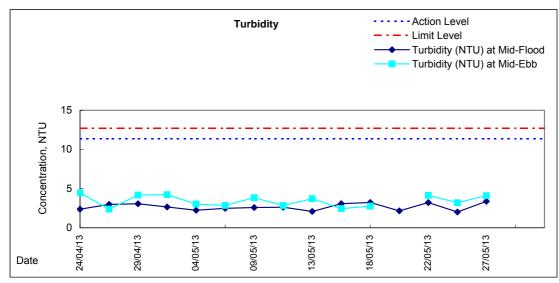


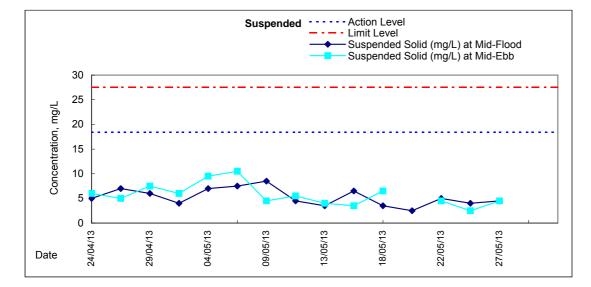




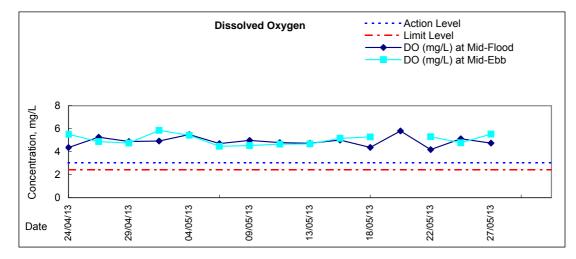
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

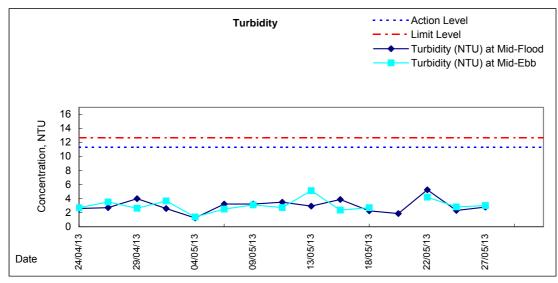


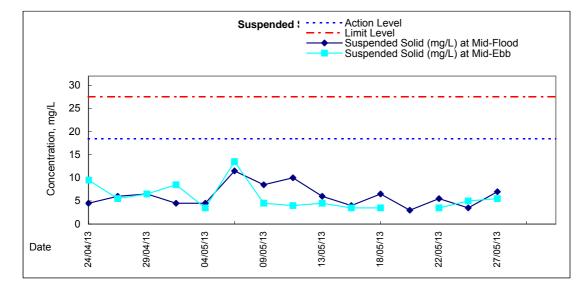




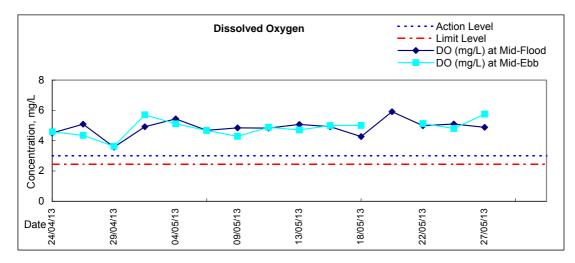
Graphic Presentation of Water Quality Result of P4 - SOC

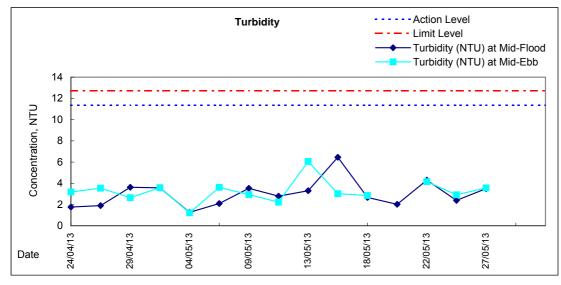


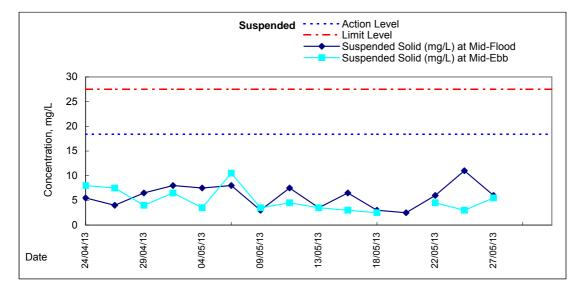




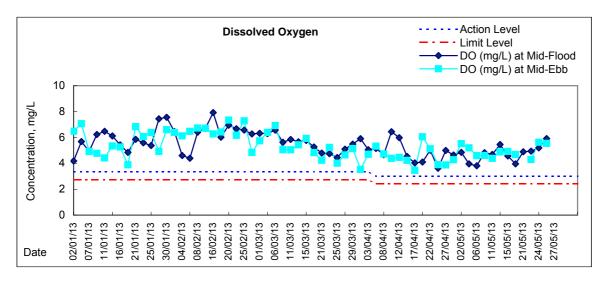


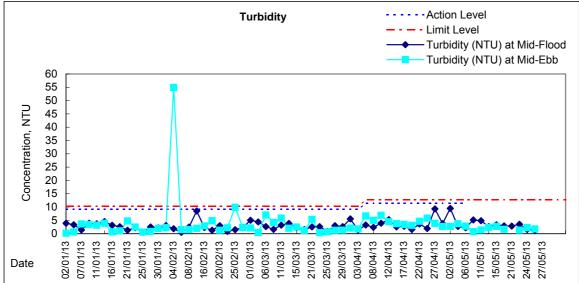


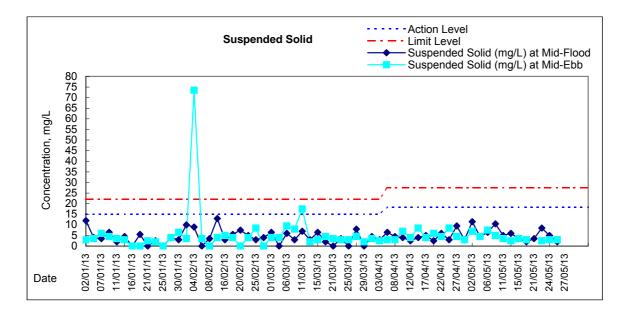




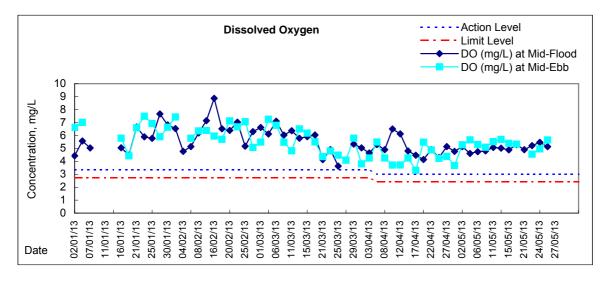
Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

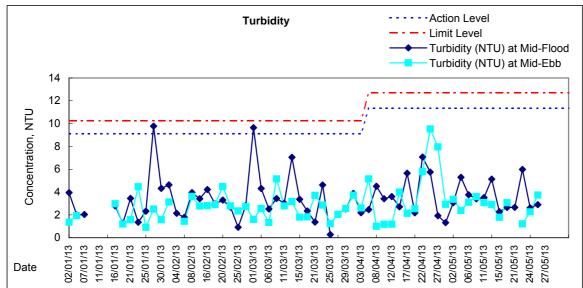


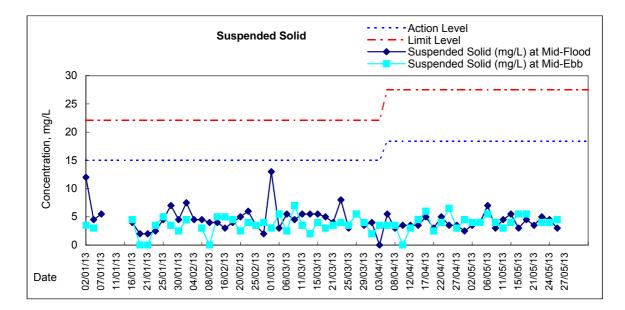




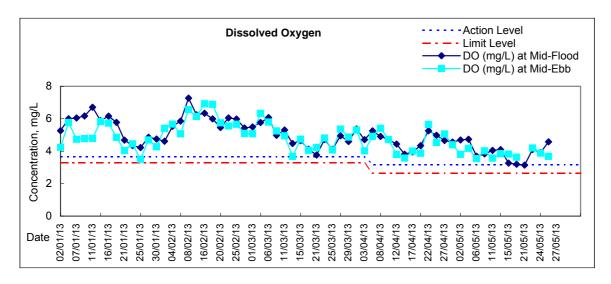
Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

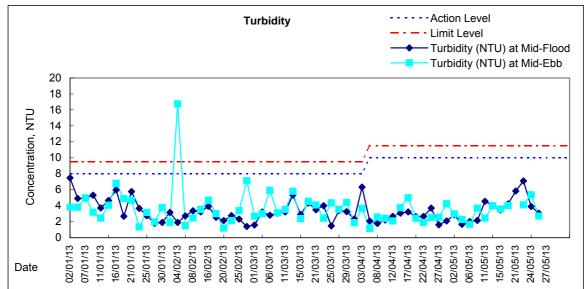


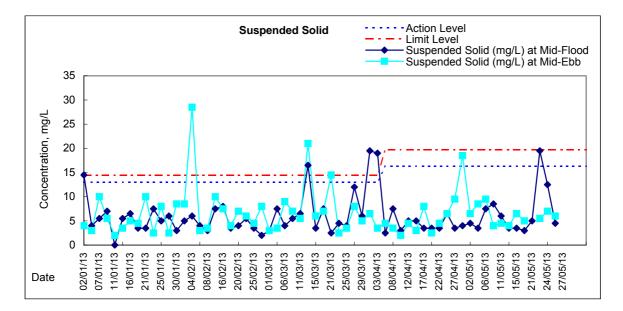




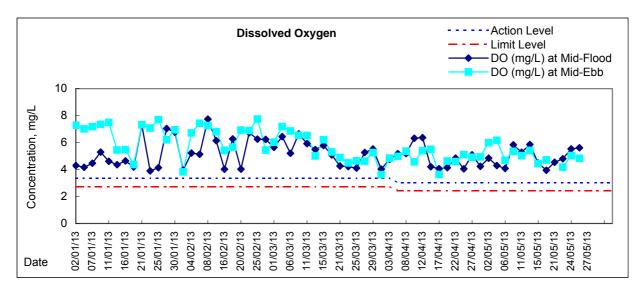
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

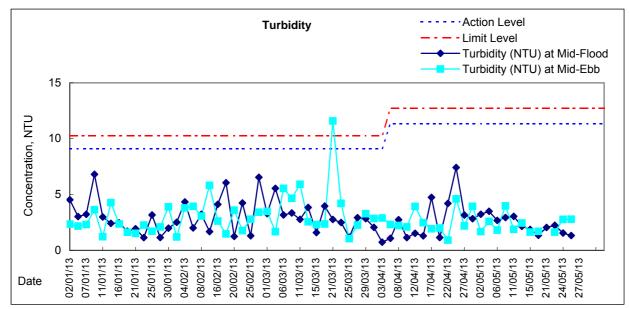


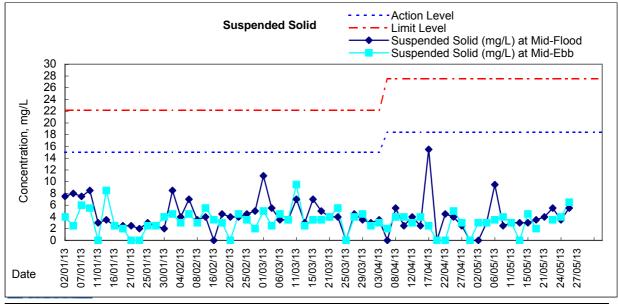








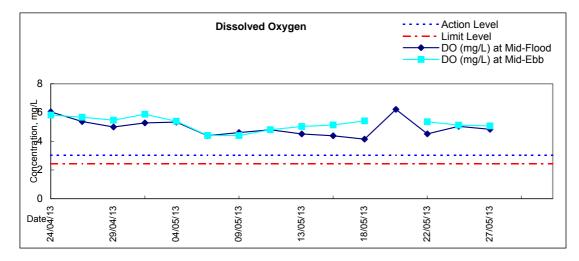


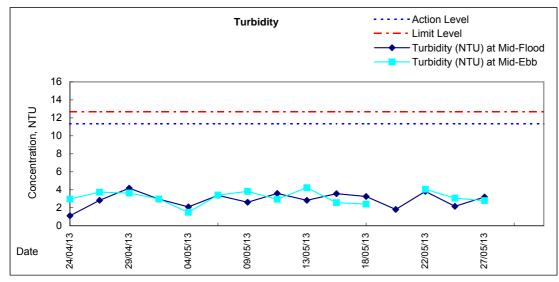


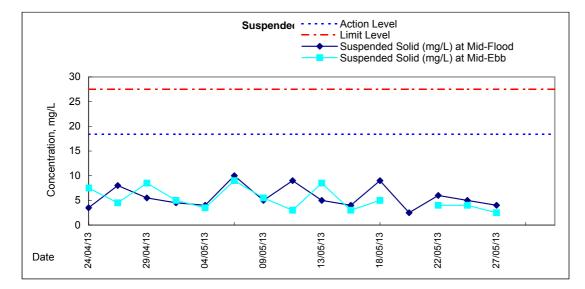
Remarks:

*Due to the Amber rainstorm signal was hoisted on 20 May 13 at ebb tide, the water qulity monitoring was cancelled.

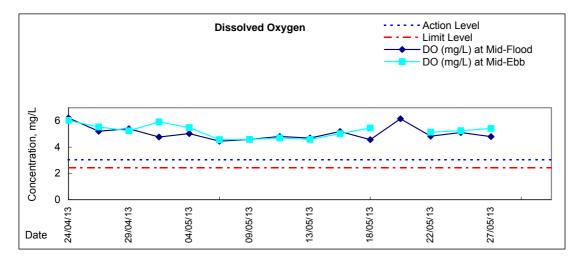
Graphic Presentation of Water Quality Result of P3 - APA

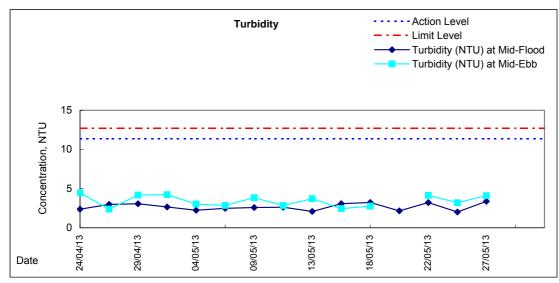


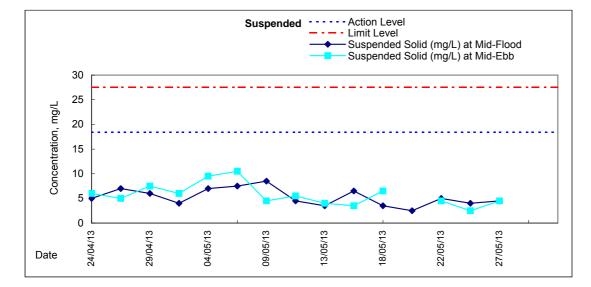




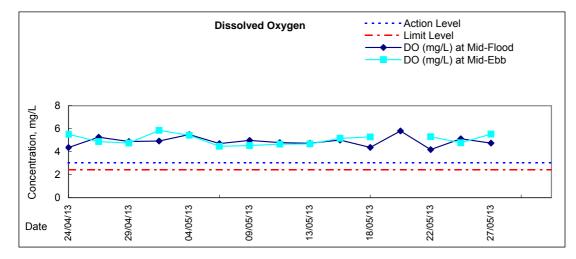
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

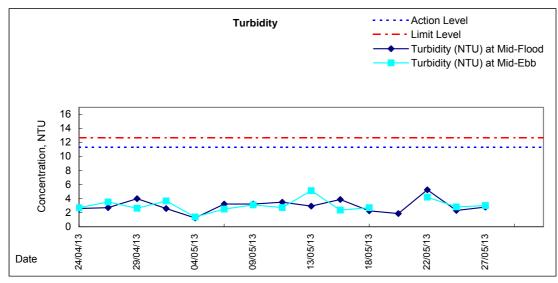


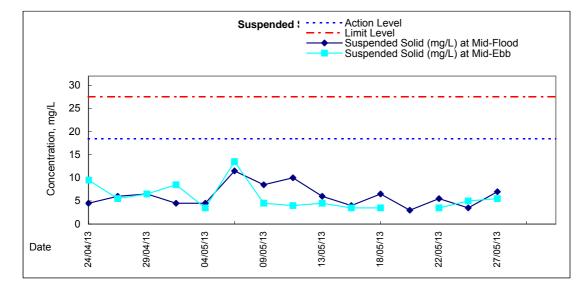




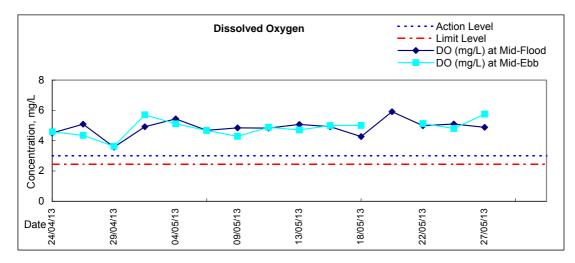
Graphic Presentation of Water Quality Result of P4 - SOC

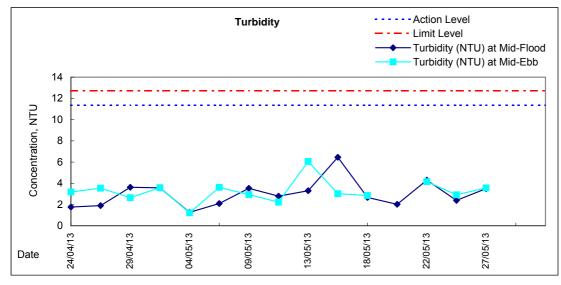


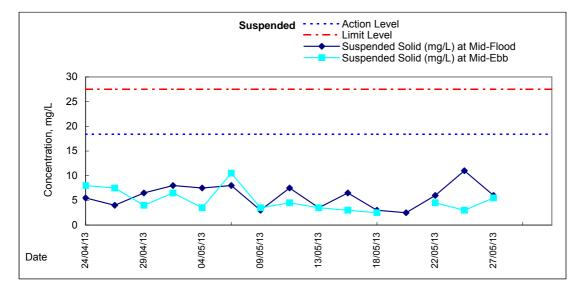












Water Monitoring Result at C6 - Excelsior Hotel Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	perature		pH -			Salini ppt	ty	D	O Satur %	ration		DO mg/L	
		Condition	r	n	Va	ilue	Average	Va	lue	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/4/2013	9:15	Cloudy	Middle	1.5	22.70	22.70	22.7	8.05	8.05	8.1	32.10	32.10	32.1	71.4	71.4	71.4	5.11	5.11	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2013	11:15	Fine	Middle	1.5	21.80	21.80	21.8	8.07	8.07	8.1	32.62	32.62	32.6	57.7	58.6	58.2	4.19	4.26	4.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2013	13:58	Cloudy	Middle	1.5	21.80	21.80	21.8	8.11	8.11	8.1	33.00	33.00	33.0	59.3	58.4	58.9	4.29	4.23	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/5/2013	15:40	Cloudy	Middle	1.5	22.91	22.91	22.9	7.96	7.96	8.0	33.82	33.82	33.8	59.3	58.0	58.7	4.12	4.04	4.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2013	17:50	Sunny	Middle	1.0	25.50	25.50	25.5	7.94	7.94	7.9	31.60	31.60	31.6	90.2	90.6	90.4	6.17	6.19	6.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2013	18:40	Fine	Middle	1.0	25.10	25.10	25.1	7.93	7.93	7.9	31.05	31.05	31.1	81.7	82.3	82.0	5.65	5.68	5.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/5/2013	19:57	Fine	Middle	1.0	26.20	26.20	26.2	7.88	7.88	7.9	30.72	30.72	30.7	85.6	88.7	87.2	5.82	6.03	5.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2013	23:38	Fine	Middle	1.0	25.70	25.60	25.7	7.93	7.93	7.9	30.26	30.26	30.3	70.5	70.7	70.6	4.84	4.86	4.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2013	1:51	Cloudy	Middle	1.0	24.90	24.90	24.9	7.82	7.82	7.8	29.67	29.67	29.7	72.7	73.5	73.1	5.08	5.13	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2013	3:36	Cloudy	Middle	1.5	26.00	26.00	26.0	7.76	7.75	7.8	23.57	23.57	23.6	62.5	63.4	63.0	4.44	4.53	4.49
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/5/2013	16:30	Cloudy	Middle	1.5	25.02	25.02	25.0	7.84	7.84	7.8	22.97	22.97	23.0	75.3	74.8	75.1	5.46	5.43	5.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2013	18:40	Cloudy	Middle	1.0	26.10	26.10	26.1	8.07	8.07	8.1	29.34	29.30	29.3	88.6	89.3	89.0	6.07	6.12	6.10
	-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/5/2013	6:26	Cloudy	Middle	1.5	25.70	25.70	25.7	7.97	7.97	8.0	27.24	27.24	27.2	83.1	84.0	83.6	5.80	5.86	5.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1																		

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

<table-container> h h i</table-container>		MIG-FI		1		•														
	Date	Time				Wat		perature						ty	D		ration			
1 1			Condition	r	n	Va		Average	Va	lue	Average	Va		Average	Va		Average	Va		
implication implicat		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1	29/4/2013	9:25	Cloudy	Middle	1.5	22.90	22.90	22.9	7.98	7.98	8.0	32.69	32.69	32.7	58.4	58.8	58.6	4.14	4.17	4.16
		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image back Image b		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A A B A B	2/5/2013	11:25	Fine	Middle	1.5	21.80	21.80	21.8	8.07	8.07	8.1	32.94	32.94	32.9	66.4	66.4	66.4	4.81	4.81	4.81
<table-container> here here here ind ind</table-container>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image Image <t< td=""><td></td><td>-</td><td></td><td>Surface</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1	4/5/2013	14:05	Cloudy	Middle	1.5	21.90	21.90	21.9	8.12	8.12	8.1	32.69	32.69	32.7	62.5	63.0	62.8	4.53	4.58	4.56
1140 1140 1140 120		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
indical indical <t< td=""><td></td><td>-</td><td></td><td>Surface</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1	6/5/2013	15:50	Cloudy	Middle	1.5	22.96	22.96	23.0	7.94	7.94	7.9	33.95	33.95	34.0	64.2	62.6	63.4	4.53	4.42	4.48
94:00 11:00 10:00 10:0 <		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
image image <t< td=""><td></td><td>-</td><td></td><td>Surface</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1 5 1	9/5/2013	17:40	Sunny	Middle	1.0	25.80	25.80	25.8	7.89	7.89	7.9	31.20	31.20	31.2	85.5	87.4	86.5	5.83	5.96	5.90
1h:500 Fire Indial 10.10 10.00 <t< td=""><td></td><td>-</td><td></td><td>Bottom</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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1 1 Surface 1 </td <td>11/5/2013</td> <td>18:30</td> <td>Fine</td> <td>Middle</td> <td>1.0</td> <td>25.60</td> <td>25.60</td> <td>25.6</td> <td>7.86</td> <td>7.86</td> <td>7.9</td> <td>30.27</td> <td>30.27</td> <td>30.3</td> <td>81.2</td> <td>79.4</td> <td>80.3</td> <td>5.49</td> <td>5.35</td> <td>5.42</td>	11/5/2013	18:30	Fine	Middle	1.0	25.60	25.60	25.6	7.86	7.86	7.9	30.27	30.27	30.3	81.2	79.4	80.3	5.49	5.35	5.42
19:00 10:00 10:00 26:00 26:00 7.84 7.84 7.80 30.80 30.80 30.80 84.6 84.6 86.80 87.60 87.60 57.60 10:00 10:0		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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1 1	13/5/2013	19:40	Fine	Middle	1.0	26.30	26.30	26.3	7.84	7.84	7.8	30.88	30.88	30.9	84.6	88.9	86.8	5.74	6.03	5.89
155/2010 23.47 Fine Mide 1.0 25.50 25.50 7.83 7.80 7.80 30.61 30.61 30.61 64.2 66.0 66.11 4.41 4.54 4.44 10 20 20 2.0<		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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18/5/2013 11.40 Change Middle 1.00 25.00 25.00 7.72 7.72 7.77 29.19 29.19 29.20 56.6 56.6 56.6 3.94 3.98 3.98 3.98 10		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	18/5/2013	1:40	Cloudy	Middle	1.0	25.00	25.00	25.0	7.72	7.72	7.7	29.19	29.19	29.2	56.4	56.8	56.6	3.94	3.98	3.96
1 1		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	21/5/2013	3:26	Cloudy	Middle	1.5	26.00	26.00	26.0	7.81	7.81	7.8	24.09	24.09	24.1	63.9	64.7	64.3	4.53	4.58	4.56
1000 1000 1000		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All All <td>22/5/2013</td> <td>16:45</td> <td>Cloudy</td> <td>Middle</td> <td>1.5</td> <td>25.00</td> <td>25.00</td> <td>25.0</td> <td>7.83</td> <td>7.83</td> <td>7.8</td> <td>22.87</td> <td>22.87</td> <td>22.9</td> <td>72.0</td> <td>71.7</td> <td>71.9</td> <td>5.22</td> <td>5.20</td> <td>5.21</td>	22/5/2013	16:45	Cloudy	Middle	1.5	25.00	25.00	25.0	7.83	7.83	7.8	22.87	22.87	22.9	72.0	71.7	71.9	5.22	5.20	5.21
24/5/2013 18:30 Choudy Middle 1.0 26.10 26.10 7.97 7.97 8.00 28.79 28.79 28.80 81.4 81.4 5.60 5.59 24/5/2013 1.0 Middle 1.0 26.10 26.10 7.97 7.97 8.00 28.79 28.79 28.80 81.5 81.40 5.60 5.59 10 Middle 1.0 26.10 26.10 1.0 1.0 1.0 26.10 26		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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A Surface I </td <td>24/5/2013</td> <td>18:30</td> <td>Cloudy</td> <td>Middle</td> <td>1.0</td> <td>26.10</td> <td>26.10</td> <td>26.1</td> <td>7.97</td> <td>7.97</td> <td>8.0</td> <td>28.79</td> <td>28.79</td> <td>28.8</td> <td>81.5</td> <td>81.2</td> <td>81.4</td> <td>5.60</td> <td>5.58</td> <td>5.59</td>	24/5/2013	18:30	Cloudy	Middle	1.0	26.10	26.10	26.1	7.97	7.97	8.0	28.79	28.79	28.8	81.5	81.2	81.4	5.60	5.58	5.59
27/5/2013 6:18 Cloudy Middle 1.5 26.10 26.10 26.1 7.92 7.92 7.92 25.62 25.62 25.6 81.6 81.2 81.4 5.70 5.62 5.66		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Bottom	27/5/2013	6:18	Cloudy	Middle	1.5	26.10	26.10	26.1	7.92	7.92	7.9	25.62	25.62	25.6	81.6	81.2	81.4	5.70	5.62	5.66
		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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11.4 11.4 </td <td>2/5/2013</td> <td>11:07</td> <td>Fine</td> <td>Middle</td> <td>1.5</td> <td>21.50</td> <td>21.50</td> <td>21.5</td> <td>7.95</td> <td>7.95</td> <td>8.0</td> <td>29.21</td> <td>29.21</td> <td>29.2</td> <td>60.4</td> <td>60.6</td> <td>60.5</td> <td>4.50</td> <td>4.51</td> <td>4.51</td>	2/5/2013	11:07	Fine	Middle	1.5	21.50	21.50	21.5	7.95	7.95	8.0	29.21	29.21	29.2	60.4	60.6	60.5	4.50	4.51	4.51
1 (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124 144 144 145 <td></td> <td>13:42</td> <td></td> <td>Surface</td> <td>1.0</td> <td>21.70</td> <td>21.70</td> <td>21.7</td> <td>8.04</td> <td>8.04</td> <td>8.0</td> <td>32.66</td> <td>32.66</td> <td>32.7</td> <td>47.7</td> <td>47.6</td> <td>47.7</td> <td>3.47</td> <td>3.46</td> <td>3.47</td>		13:42		Surface	1.0	21.70	21.70	21.7	8.04	8.04	8.0	32.66	32.66	32.7	47.7	47.6	47.7	3.47	3.46	3.47
1 1	4/5/2013	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1140 1140 140 140 120 </td <td></td> <td>13:44</td> <td></td> <td>Bottom</td> <td>3.0</td> <td>21.70</td> <td>21.70</td> <td>21.7</td> <td>8.04</td> <td>8.04</td> <td>8.0</td> <td>33.07</td> <td>33.07</td> <td>33.1</td> <td>46.2</td> <td>45.7</td> <td>46.0</td> <td>3.35</td> <td>3.31</td> <td>3.33</td>		13:44		Bottom	3.0	21.70	21.70	21.7	8.04	8.04	8.0	33.07	33.07	33.1	46.2	45.7	46.0	3.35	3.31	3.33
Image Image <t< td=""><td></td><td>-</td><td></td><td>Surface</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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96000 10.10 10.00 10.0 10.00 10.0 10.00 10.0 <		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Incr Surger Surger <td>9/5/2013</td> <td>16:31</td> <td>Sunny</td> <td>Middle</td> <td>1.0</td> <td>25.50</td> <td>25.50</td> <td>25.5</td> <td>7.75</td> <td>7.75</td> <td>7.8</td> <td>23.35</td> <td>23.35</td> <td>23.4</td> <td>53.1</td> <td>54.7</td> <td>53.9</td> <td>3.79</td> <td>3.91</td> <td>3.85</td>	9/5/2013	16:31	Sunny	Middle	1.0	25.50	25.50	25.5	7.75	7.75	7.8	23.35	23.35	23.4	53.1	54.7	53.9	3.79	3.91	3.85
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1 2 5 5 6 7	11/5/2013	20:10	Fine	Middle	1.0	24.10	24.10	24.1	7.90	7.90	7.9	25.84	25.84	25.8	58.2	59.6	58.9	4.21	4.31	4.26
135/2010 Fire Mide 1.0 26.0 26.0 26.0 7.0 <		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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indication indicat	13/5/2013	21:10	Fine	Middle	1.0	25.60	25.60	25.6	7.53	7.53	7.5	27.25	27.25	27.3	38.1	38.0	38.1	2.65	2.65	<u>2.65</u>
155/2014 21.23 Free Midel 1.0 2.0 2.0 2.0 7.57 7.67 7.67 2.37 2.37 2.38 3.64 3.68 3.61 2.68 2.56 2.56 1.0 20.0 2		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image: state in the state in therest and the state in there in the state in the state		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indication Surface No	15/5/2013	23:23	Fine	Middle	1.0	26.10	26.00	26.1	7.57	7.57	7.6	23.77	23.77	23.8	36.4	35.8	36.1	2.58	2.54	<u>2.56</u>
18/5/2013 1:11 Check Middle 1.0 2.5.0 7.5.0 7.5.0 7.4.0 7.6.0		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image: serie between series of the		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	18/5/2013	1:21	Cloudy	Middle	1.0	25.30	25.30	25.3	7.35	7.35	7.4	23.62	23.62	23.6	21.6	22.8	22.2	1.55	1.63	<u>1.59</u>
11 11		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	21/5/2013	3:06	Cloudy	Middle	1.5	26.10	26.10	26.1	7.92	7.91	7.9	13.11	13.11	13.1	56.0	56.6	56.3	4.21	4.25	4.23
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24/5/2013	22/5/2013	16:15	Cloudy	Middle	1.5	24.84	24.84	24.8	8.00	8.00	8.0	20.97	20.97	21.0	90.6	89.7	90.2	6.63	6.56	6.60
24/5/2013 Cloudy Middle 1.0 25.10 25.10 25.10 7.97 7.97 8.0 23.82 23.80 25.80 66.3 66.1 4.75 4.76 4.76 1 0 1.0 2.5.10 2.5.10 2.5.10 7.97 7.97 8.0 23.80 23.80 65.9 66.3 66.1 4.75 4.76 4.76 1 0 1.0 1.0 2.5.10 2.5.10 1.0		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bottom - <td></td> <td>-</td> <td></td> <td>Surface</td> <td>-</td>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24/5/2013	20:08	Cloudy	Middle	1.0	25.10	25.10	25.1	7.97	7.97	8.0	23.82	23.80	23.8	65.9	66.3	66.1	4.75	4.77	4.76
- Surface		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/5/2013 6:03 Cloudy Middle 1.0 26:30 26:40 26:4 7:90 7.90 7.9 22:30 22:30 22:3 72:3 71.7 72.0 5:14 5:09 5:12	27/5/2013	6:03	Cloudy	Middle	1.0	26.30	26.40	26.4	7.90	7.90	7.9	22.30	22.30	22.3	72.3	71.7	72.0	5.14	5.09	5.12
Bottom		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition		ng Depth	Wat	er Temp ℃	perature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-	. .	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/4/2013	9:12	Cloudy	Middle	1.5	22.90	22.90	22.9	7.97	7.97	8.0	32.08	32.08	32.1	71.2	70.8	71.0	5.11	5.08	5.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0/5/0040	-	E	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2013	11:05	Fine	Middle	1.5	21.60	21.60	21.6	8.07	8.07	8.1	33.43	33.43	33.4	82.4	82.3	82.4	5.99	5.98	5.99
	- 13:35		Bottom Surface	- 1.0	- 21.90	- 21.90	- 21.9	- 8.05	- 8.05	- 8.1	- 32.65	- 32.65	- 32.7	- 53.6	- 53.3	- 53.5	- 3.89	- 3.87	- 3.88
4/5/2013	-	Cloudy	Middle	-	-		-	-	-	-	-	-	-		-	-		-	-
4/3/2013	- 13:37	Cloudy	Bottom	3.0	- 21.70	- 21.70	21.7	- 8.05	8.05	8.1	- 32.93	32.93	32.9	47.8	- 49.1	48.5	3.47	3.56	<u>3.52</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/5/2013	- 15:28	Cloudy	Middle	- 1.5	- 22.52	- 22.52	- 22.5	- 7.87	- 7.87	7.9	- 33.24	- 33.24	- 33.2	- 65.2	- 64.8	- 65.0	- 4.65	- 4.62	- 4.64
0.0/2010	-	Cioudy	Bottom	-	-	-	-	-	-	-	-	-	-	-	- 04.0	-	4.05	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2013	16:40	Sunny	Middle	1.0	25.80	25.80	25.8	7.77	7.77	7.8	25.34	25.34	25.3	52.0	51.1	51.6	3.67	3.61	3.64
	-	<i></i> ,	Bottom	-				-	-	-	-			-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2013	20:16	Fine	Middle	1.0	24.10	24.10	24.1	7.86	7.86	7.9	25.67	25.67	25.7	59.0	59.1	59.1	4.27	4.28	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/5/2013	21:16	Fine	Middle	1.0	25.40	25.40	25.4	7.53	7.53	7.5	27.21	27.21	27.2	35.3	35.5	35.4	2.47	2.50	<u>2.49</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2013	23:28	Fine	Middle	1.0	25.80	25.80	25.8	7.62	7.62	7.6	23.46	23.46	23.5	44.1	44.0	44.1	3.14	3.14	<u>3.14</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2013	1:31	Cloudy	Middle	1.0	25.20	25.20	25.2	7.40	7.40	7.4	24.05	24.05	24.1	20.2	22.0	21.1	1.45	1.59	<u>1.52</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2013	3:14	Cloudy	Middle	1.5	26.20	26.20	26.2	7.71	7.71	7.7	12.63	12.63	12.6	55.2	55.7	55.5	4.15	4.19	4.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/5/2013	16:17	Cloudy	Middle	1.5	24.75	24.75	24.8	8.01	8.01	8.0	21.96	21.96	22.0	96.0	95.2	95.6	7.03	6.97	7.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2013	20:15	Cloudy	Middle	1.0	25.10	25.10	25.1	7.85	7.85	7.9	23.85	23.78	23.8	55.0	55.2	55.1	3.96	3.98	3.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/5/2013	6:08	Cloudy	Middle	1.0	26.00	26.00	26.0	7.93	7.93	7.9	22.00	22.00	22.0	70.9	71.8	71.4	5.08	5.09	5.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

	INIG-EL																		
Date	Time	Weater Condition		ng Depth	Wat	er Temp ℃	perature		pH -		-	Salini ppt	ty	D	O Satur %	ation		DO mg/L	
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/4/2013	15:05	Cloudy	Middle	2	22.50	22.50	22.5	8.03	8.03	8.0	32.81	32.81	32.8	58.5	59.0	58.8	4.17	4.21	4.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2013	18:23	Cloudy	Middle	1	21.20	21.20	21.2	8.06	8.06	8.1	32.35	32.35	32.4	91.2	91.0	91.1	6.70	6.69	6.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/0040	-	Olauda	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2013	19:00	Cloudy	Middle	2	22.00	22.00	22.0	8.06	8.06	8.1	32.03	32.03	32.0	83.9	85.0	84.5	6.15	6.16	6.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/5/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/5/2013	- 11:10	Cloudy	Middle Bottom	2	- 22.38	- 22.38	- 22.4	7.86	7.86	7.9	33.08	33.08	- 33.1	- 59.7	- 59.8	59.8	4.28	4.29	4.29
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2013	12:39	Fine	Middle	2	24.00	24.00	24.0	7.69	7.69	7.7	33.40	33.40	33.4	76.2	76.3	76.3	5.28	5.29	5.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2013	13:10	Fine	Middle	2	25.04	25.04	25.0	7.50	7.50	7.5	32.81	32.81	32.8	87.3	87.6	87.5	6.02	6.03	6.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/5/2013	14:07	Fine	Middle	2	24.25	24.25	24.3	7.72	7.72	7.7	33.42	33.42	33.4	86.7	85.9	86.3	5.99	5.95	5.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2013	15:10	Fine	Middle	2	24.71	24.71	24.7	7.64	7.64	7.6	33.45	33.45	33.5	83.1	81.4	82.3	5.71	5.59	5.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2013	16:20	Fine	Middle	2	26.79	26.79	26.8	7.60	7.60	7.6	31.77	31.77	31.8	83.4	83.1	83.3	5.67	5.64	5.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Amber	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2013	-	Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/5/2013	0:02	Cloudy	Middle	1	25.00	25.00	25.0	7.69	7.69	7.7	23.02	23.02	23.0	59.4	60.1	59.8	4.30	4.35	4.33
	-		Bottom Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2013	- 12:35	Fine	Middle	- 2	- 25.30	- 25.30	- 25.3	- 7.66	- 7.66	- 7.7	- 30.84	- 30.84	- 30.8	- 81.9	- 81.7	- 81.8	- 5.65	- 5.63	- 5.64
	-	1 1110	Bottom	-	-	-	- 25.3	7.00	7.00	-					- 81.7	- 01.0	5.05	-	- 5.04
	-		Surface	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-
27/5/2013	14:25	Fine	Middle	2	25.47	25.47	25.5	7.79	7.79	7.8	29.26	29.26	29.3	84.3	81.8	83.1	5.85	5.67	5.76
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

	IMIG-EL																		
Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pH -			Salini 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/4/2013	14:55	Cloudy	Middle	1.5	23.30	23.30	23.3	7.99	7.99	8.0	32.01	32.01	32.0	80.8	80.4	80.6	5.72	5.69	5.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2013	20:03	Cloudy	Middle	1.0	21.20	21.20	21.2	7.94	7.94	7.9	25.63	25.63	25.6	57.6	57.7	57.7	4.40	4.42	4.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2013	20:07	Cloudy	Middle	1.0	22.10	22.10	22.1	7.84	7.84	7.8	26.50	26.50	26.5	49.7	50.1	49.9	3.74	3.75	3.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/5/2013	11:05	Cloudy	Middle	1.5	22.39	22.39	22.4	7.87	7.87	7.9	30.20	30.20	30.2	57.9	56.4	57.2	4.16	4.09	4.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0/5/0010	-	Etc	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2013	12:25	Fine	Middle	1.5	23.61	23.61	23.6	7.57	7.57	7.6	32.44	32.44	32.4	74.9	74.8	74.9	5.27	5.26	5.27
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2013	- 13:01	Fine	Surface Middle	- 1.5	- 25.09	- 25.09	- 25.1	- 7.56	- 7.56	- 7.6	- 24.38	- 24.38	- 24.4	- 73.5	- 72.6	- 73.1	- 5.28	- 5.21	- 5.25
11/3/2013	-	TINC	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	_		Surface	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/5/2013	14:02	Fine	Middle	1.5	24.78	24.78	24.8	7.58	7.58	7.6	32.90	32.90	32.9	83.0	82.8	82.9	5.71	5.63	5.67
	-	-	Bottom	_	-	-		-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2013	15:00	Fine	Middle	1.5	26.39	26.39	26.4	7.55	7.55	7.6	26.43	26.43	26.4	80.8	78.5	79.7	5.61	5.58	5.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2013	16:12	Fine	Middle	1.5	26.68	26.68	26.7	7.63	7.63	7.6	29.17	29.17	29.2	87.9	87.0	87.5	5.98	5.92	5.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/5/2013	23:50	Cloudy	Middle	1.0	25.30	25.30	25.3	7.25	7.25	7.3	13.80	13.80	13.8	14.9	15.2	15.1	1.16	1.16	<u>1.16</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2013	12:27	Fine	Middle	1.5	25.00	25.00	25.0	7.68	7.68	7.7	30.05	30.05	30.1	89.2	88.8	89.0	6.22	6.18	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/5/2013	14:00	Fine	Middle	1.5	26.04	26.04	26.0	7.74	7.74	7.7	27.80	27.80	27.8	86.9	86.8	86.9	6.03	6.02	6.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

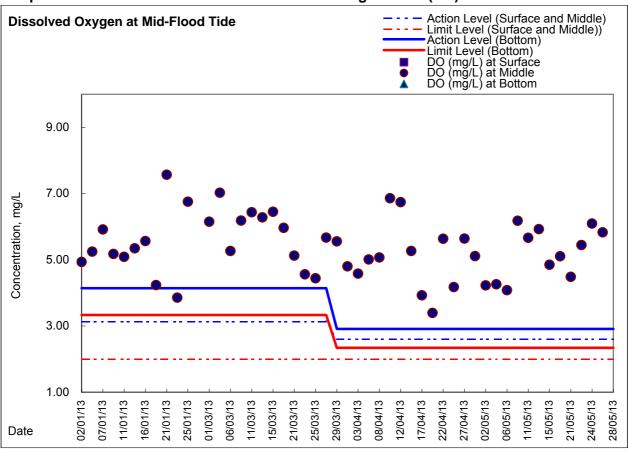
Date	Time	Weater	Samplir	ng Depth	Wat		erature		pН			Salini	ty	D	O Satur	ration		DO	
Dale		Condition	r	m	Va	°C ilue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L Ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/4/2013	15:15	Cloudy	Middle	2	24.00	24.00	24.0	8.03	8.03	8.0	32.72	32.72	32.7	72.2	72.0	72.1	5.06	5.03	5.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2013	18:13	Cloudy	Middle	1	21.00	21.00	21.0	7.99	7.99	8.0	31.73	31.73	31.7	82.1	81.4	81.8	6.08	6.03	6.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2013	18:50	Cloudy	Middle	2	21.90	21.90	21.9	8.01	8.01	8.0	31.12	31.12	31.1	85.6	85.0	85.3	6.26	6.21	6.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/5/2013	11:23	Cloudy	Middle	2	22.43	22.43	22.4	7.88	7.88	7.9	33.17	33.17	33.2	67.7	66.9	67.3	4.85	4.79	4.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2013	12:50	Fine	Middle	2	24.25	24.25	24.3	7.61	7.61	7.6	32.30	32.30	32.3	72.1	72.0	72.1	5.02	5.01	5.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2013	13:25	Fine	Middle	2	24.38	24.38	24.4	7.69	7.69	7.7	31.95	31.95	32.0	84.8	83.1	84.0	5.90	5.78	5.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/5/2013	14:20	Fine	Middle	2	25.36	25.36	25.4	7.76	7.76	7.8	31.81	31.81	31.8	93.7	91.8	92.8	6.42	6.29	6.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2013	15:25	Fine	Middle	2	25.67	25.67	25.7	7.72	7.72	7.7	32.70	32.70	32.7	77.7	77.1	77.4	5.27	5.22	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2013	16:30	Fine	Middle	2	26.62	26.62	26.6	7.57	7.57	7.6	30.03	30.03	30.0	73.3	73.0	73.2	4.97	4.96	4.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/5/2013	0:10	Cloudy	Middle	1	24.90	24.90	24.9	7.89	7.89	7.9	24.74	24.74	24.7	57.4	58.4	57.9	4.12	4.20	4.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2013	12:45	Fine	Middle	2	25.55	25.55	25.6	7.71	7.71	7.7	30.07	30.07	30.1	88.5	86.1	87.3	6.01	5.94	5.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/5/2013	14:35	Fine	Middle	2	25.90	25.90	25.9	7.76	7.76	7.8	29.03	29.03	29.0	79.0	77.4	78.2	5.44	5.33	5.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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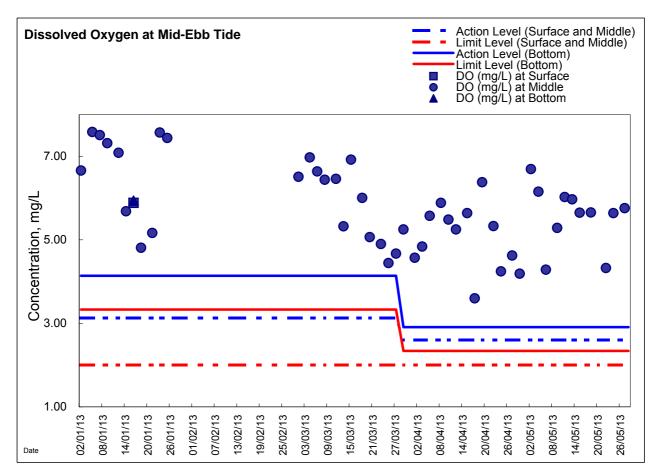
Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

-																			
Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pH -			Salini ppt		D	O Satur %	ation		DO mg/L	
		Condition	r	n	Va	ilue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/4/2013	14:57	Cloudy	Middle	1.5	23.40	23.40	23.4	7.79	7.79	7.8	24.22	24.22	24.2	49.0	49.9	49.5	3.62	3.69	3.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2013	20:09	Cloudy	Middle	1.0	21.20	21.20	21.2	7.86	7.86	7.9	25.42	25.42	25.4	55.9	57.6	56.8	4.28	4.41	4.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2013	20:12	Cloudy	Middle	1.0	22.00	22.00	22.0	7.83	7.83	7.8	26.35	26.35	26.4	51.1	50.7	50.9	3.83	3.82	3.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/5/2013	11:07	Cloudy	Middle	1.5	22.29	22.29	22.3	7.89	7.89	7.9	31.40	31.40	31.4	58.3	58.7	58.5	4.18	4.21	4.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2013	12:20	Fine	Middle	1.5	24.32	24.32	24.3	7.60	7.60	7.6	32.15	32.15	32.2	69.5	68.8	69.2	4.84	4.79	4.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2013	13:03	Fine	Middle	1.5	25.02	25.02	25.0	7.61	7.61	7.6	24.44	24.44	24.4	82.5	80.8	81.7	5.93	5.81	5.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/5/2013	14:00	Fine	Middle	1.5	24.96	24.96	25.0	7.70	7.70	7.7	32.64	32.64	32.6	89.3	87.8	88.6	6.14	6.04	6.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2013	15:02	Fine	Middle	1.5	25.36	25.36	25.4	7.48	7.48	7.5	31.61	31.61	31.6	77.4	77.2	77.3	5.31	5.28	5.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2013	16:10	Fine	Middle	1.5	26.41	26.41	26.4	7.68	7.68	7.7	30.59	30.59	30.6	96.4	94.6	95.5	6.51	6.39	6.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2013	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	. canotorni	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/5/2013	23:55	Cloudy	Middle	1.0	25.40	25.40	25.4	7.21	7.21	7.2	13.42	13.43	13.4	15.2	15.3	15.3	1.15	1.16	<u>1.16</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	·	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2013	12:25	Fine	Middle	1.5	25.37	25.37	25.4	7.78	7.78	7.8	27.94	27.94	27.9	97.2	94.0	95.6	6.79	6.56	6.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/5/2013	14:02	Fine	Middle	1.5	26.12	26.12	26.1	7.78	7.78	7.8	27.50	27.50	27.5	86.4	86.9	86.7	5.97	6.01	5.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1				1	1		1	l			l		1	1	l		l	

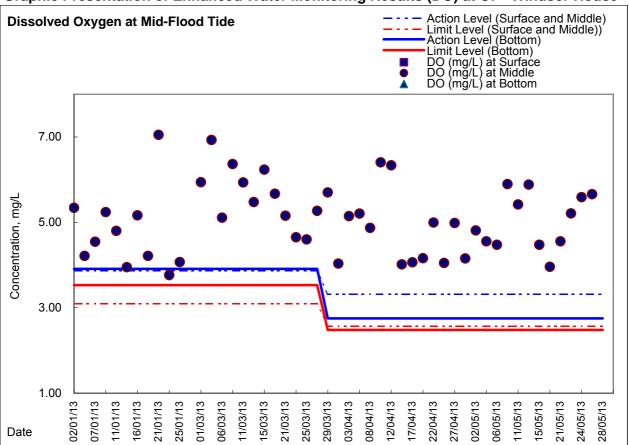




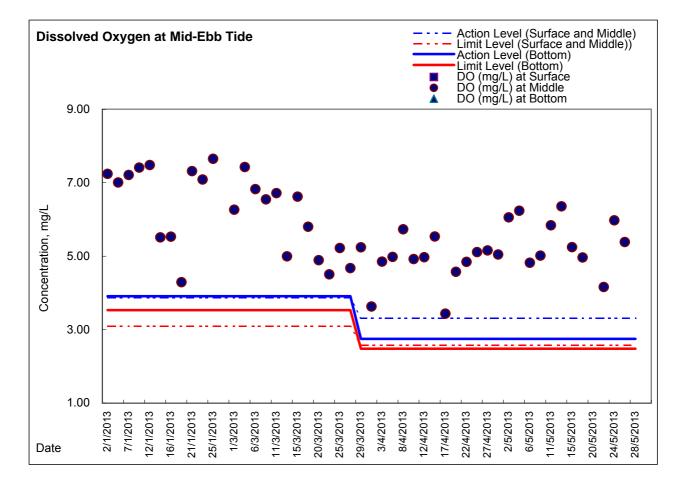
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





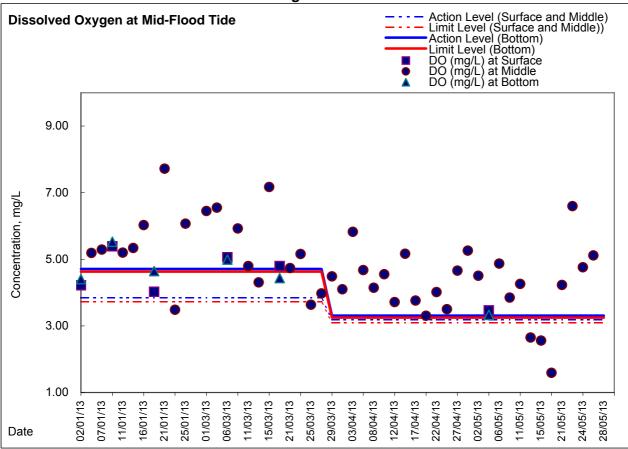


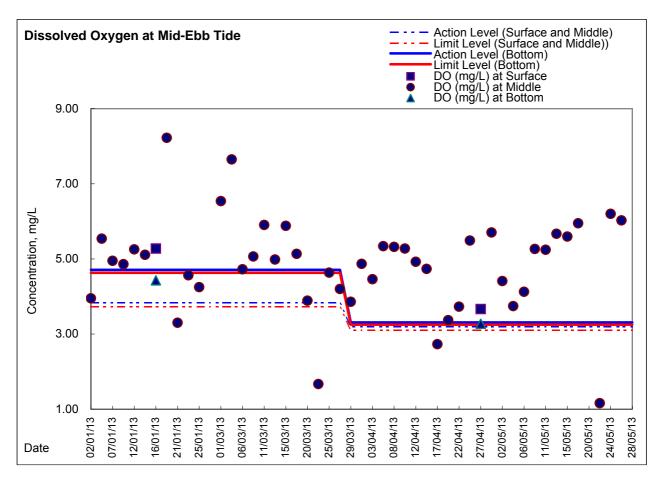
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House





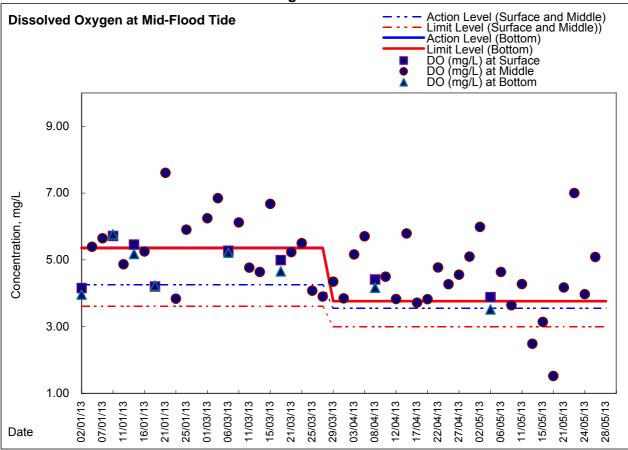
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

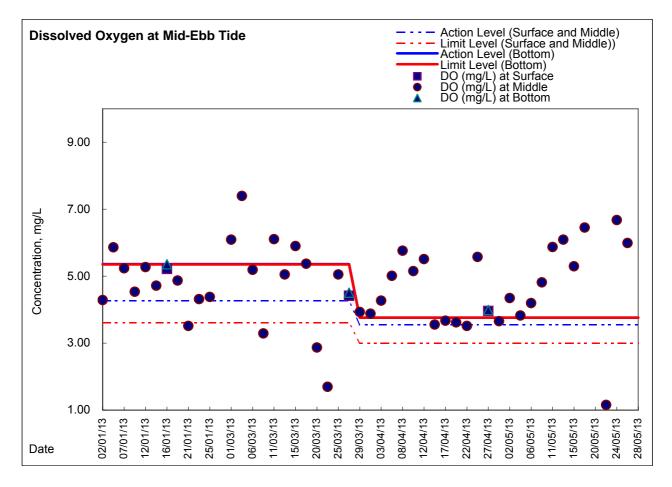






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







Appendix 5.4a

Additional Dissolved Oxygen Monitoring Results

Location: Station A Coordinate: 835468E, 815857N

Date	Time	Weater	Samplin	g Depth	Wat		perature		pН			Salinit	ty	D	O Satur	ation		DO	
Duite		Condition	n	ı	Va	°C Ilue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L Ilue	Average
					-			-		-	-		-	-		Ŭ			
	9:37		Surface	1.0	21.60	21.60	21.60	8.27	8.27	8.27	30.66	30.66	30.66	61.2	61.2	61.20	4.52	4.52	4.52
2-May-13	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:39		Bottom	4.0	21.70	21.70	21.70	8.23	8.23	8.23	34.67	34.67	34.67	74.0	74.0	74.00	5.32	5.32	5.32
	21:06		Surface	1.0	22.90	22.90	22.90	8.10	8.10	8.10	32.69	32.74	32.72	61.6	61.3	61.45	4.36	4.34	4.35
9-May-13	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:07		Bottom	5.0	22.60	22.60	22.60	8.11	8.11	8.11	33.15	33.13	33.14	60.4	59.8	60.10	4.31	4.27	4.29
	22:32		Surface	1.0	24.50	24.50	24.50	8.13	8.13	8.13	31.35	31.35	31.35	65.1	65.5	65.30	4.54	4.57	4.56
15-May-13	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:34		Bottom	4.0	24.30	24.30	24.30	8.12	8.12	8.12	31.82	31.82	31.82	70.1	70.9	70.50	4.89	4.94	4.92
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22-May-13	14:55	Cloudy / Rainy	Middle	1.5	24.70	24.70	24.70	8.22	8.22	8.22	27.24	27.24	27.24	80.2	79.7	79.95	5.70	5.67	5.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Location: Station B Coordinate: 835572E, 815961N

		., 013301N																	
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty.	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	9:28		Surface	1.0	21.50	21.50	21.50	8.32	8.32	8.32	35.14	35.14	35.14	76.2	75.7	75.95	5.49	5.45	5.47
2-May-13	9:30	Cloudy	Middle	5.0	21.60	21.60	21.60	8.31	8.31	8.31	35.05	35.07	35.06	79.0	78.9	78.95	5.68	5.68	5.68
	9:32		Bottom	9.0	21.60	21.60	21.60	8.30	8.30	8.30	34.99	34.99	34.99	79.3	79.4	79.35	5.70	5.71	5.71
	20:59		Surface	1.0	22.90	22.90	22.90	8.10	8.10	8.10	33.06	33.05	33.06	61.9	62.2	62.05	4.40	4.42	4.41
9-May-13	21:01	Cloudy	Middle	5.0	22.90	22.90	22.90	8.11	8.11	8.11	33.18	33.18	33.18	61.6	61.3	61.45	4.38	4.36	4.37
	21:03		Bottom	9.0	22.70	22.70	22.70	8.11	8.11	8.11	33.20	33.17	33.19	60.4	60.2	60.30	4.30	4.29	4.30
	22:25		Surface	1.0	24.60	24.60	24.60	8.13	8.13	8.13	31.63	31.63	31.63	74.0	73.6	73.80	5.14	5.11	5.13
15-May-13	22:26	Fine	Middle	5.0	24.30	24.30	24.30	8.12	8.12	8.12	31.91	31.91	31.91	69.5	68.5	69.00	4.85	4.78	4.82
	22:27		Bottom	9.0	24.10	24.10	24.10	8.12	8.12	8.12	32.05	32.05	32.05	69.0	69.9	69.45	4.83	4.88	4.86
	14:50		Surface	1.0	24.80	24.80	24.80	8.29	8.29	8.29	25.52	25.52	25.52	81.4	81.8	81.60	5.78	5.81	5.80
22-May-13	14:51	Cloudy / Rainy	Middle	5.0	24.70	24.70	24.70	8.24	8.24	8.24	27.54	27.54	27.54	80.5	80.3	80.40	5.72	5.71	5.72
	14:52		Bottom	9.0	24.30	24.30	24.30	8.18	8.18	8.18	30.47	30.47	30.47	72.6	72.8	72.70	5.13	5.14	5.14

Location: Station C Coordinate: 835659E, 816271N

ecordinate.		,																	
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pН			Salinit ppt	у	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	9:16		Surface	1.0	21.60	21.60	21.60	8.56	8.56	8.56	35.54	35.54	35.54	76.1	75.9	76.00	5.46	5.45	5.46
2-May-13	9:18	Cloudy	Middle	7.0	21.50	21.50	21.50	8.40	8.40	8.40	35.43	35.43	35.43	77.4	76.3	76.85	5.57	5.50	5.54
	9:20		Bottom	13.0	21.40	21.40	21.40	8.34	8.34	8.34	35.23	35.23	35.23	74.9	74.8	74.85	5.39	5.39	5.39
	20:54		Surface	1.0	22.90	22.90	22.90	8.11	8.11	8.11	33.08	33.07	33.08	64.3	64.0	64.15	4.58	4.55	4.57
9-May-13	20:55	Cloudy	Middle	7.0	22.80	22.80	22.80	8.12	8.12	8.12	33.13	33.22	33.18	63.2	63.0	63.10	4.50	4.49	4.50
	20:56		Bottom	13.0	22.60	22.60	22.60	8.12	8.12	8.12	33.22	33.22	33.22	61.8	61.6	61.70	4.40	4.39	4.40
	22:18		Surface	1.0	24.30	24.30	24.30	8.11	8.11	8.11	32.14	32.14	32.14	71.3	71.4	71.35	4.95	4.96	4.96
15-May-13	22:19	Fine	Middle	7.0	24.00	24.00	24.00	8.11	8.11	8.11	32.15	32.15	32.15	69.3	69.8	69.55	4.84	4.88	4.86
	22:20		Bottom	13.0	24.00	24.00	24.00	8.11	8.11	8.11	32.19	32.19	32.19	68.5	68.2	68.35	4.79	4.76	4.78
	14:42		Surface	1.0	24.60	24.60	24.60	8.19	8.19	8.19	27.93	24.93	26.43	78.3	77.7	78.00	5.55	5.51	5.53
22-May-13	14:43	Cloudy / Rainy	Middle	6.5	24.50	24.50	24.50	8.20	8.20	8.20	28.72	28.70	28.71	73.5	73.0	73.25	5.21	5.23	5.22
	14:44		Bottom	12.0	24.50	24.50	24.50	8.19	8.19	8.19	29.81	29.81	29.81	71.3	70.2	70.75	5.02	4.96	4.99

Location: Station A Coordinate: 835468E, 815857N

Date	Time	Weater	Samplin	g Depth	Wat		perature		pН			Salini	ty	D	O Satur	ation		DO	
Duto		Condition	n	า	Va	°C Iue	Avorago	Va	- Ilue	Average	Ma	ppt alue	Average	Va	% lue	Average	Ve	mg/L alue	Average
					Va	liue	Average	Va	liue	Average	Ve	lue	Average	Va	liue	Average	Ve	lue	Average
	21:24		Surface	1.0	22.00	22.00	22.00	8.24	8.24	8.24	34.88	34.88	34.88	78.8	78.4	78.60	5.63	5.60	5.62
2-May-13	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:26		Bottom	5.0	21.90	21.90	21.90	8.26	8.26	8.26	34.90	34.90	34.90	77.6	77.2	77.40	5.56	5.53	5.55
	9:49		Surface	1.0	22.50	22.50	22.50	8.06	8.06	8.06	33.10	33.10	33.10	55.7	55.3	55.50	3.97	3.96	3.97
9-May-13	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:51		Bottom	3.0	22.40	22.40	22.40	8.05	8.05	8.05	33.24	33.24	33.24	57.6	57.3	57.45	4.13	4.11	4.12
	14:06		Surface	1.0	24.20	24.20	24.20	8.11	8.11	8.11	32.55	32.55	32.55	71.0	70.8	70.90	4.94	4.92	4.93
15-May-13	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:07		Bottom	3.0	24.30	24.30	24.30	8.11	8.11	8.11	31.97	31.97	31.97	69.4	70.2	69.80	4.84	4.90	4.87
	21:27		Surface	1.0	24.50	24.50	24.50	8.16	8.16	8.16	29.48	29.48	29.48	68.5	68.0	68.25	4.83	4.80	4.82
22-May-13	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I	21:28		Bottom	3.0	24.40	24.40	24.40	8.15	8.15	8.15	30.20	30.20	30.20	61.4	60.6	61.00	4.32	4.27	4.30

Location: Station B Coordinate: 835572E, 815961N

		.,																	
Date	Time	Weater	Samplin	g Depth	Wat	er Temp °C	perature	рН		Salinity		D	O Satu	ration	DO ma/l				
		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% lue	Average	Va	mg/L alue	Average
	21:19		Surface	1.0	21.90	22.00	21.95	8.26	8.26	8.26	34.92	34.92	34.92	74.6	74.5	74.55	5.34	5.33	5.34
2-May-13	21:20	Cloudy	Middle	5.0	22.00	22.00	22.00	8.25	8.25	8.25	34.91	34.91	34.91	75.7	75.6	75.65	5.40	5.40	5.40
21:22		Bottom	9.0	21.90	21.90	21.90	8.24	8.24	8.24	34.93	34.93	34.93	76.1	75.8	75.95	5.44	5.42	5.43	
9:46 9-May-13 9:47 Cloudy	Surface	1.0	22.50	22.50	22.50	8.09	8.09	8.09	33.04	33.04	33.04	60.6	60.3	60.45	4.33	4.31	4.32		
	9:47	Cloudy	Middle	6.0	22.30	22.30	22.30	8.09	8.09	8.09	33.32	33.32	33.32	61.4	61.3	61.35	4.40	4.39	4.40
	9:48		Bottom	11.0	22.40	22.40	22.40	8.09	8.09	8.09	33.09	33.09	33.09	61.4	61.8	61.60	4.40	4.43	4.42
	13:56		Surface	1.0	24.20	24.20	24.20	8.11	8.11	8.11	32.35	32.35	32.35	67.7	68.9	68.30	4.71	4.79	4.75
15-May-13	13:58	Fine	Middle	5.0	24.00	24.00	24.00	8.11	8.11	8.11	32.60	32.60	32.60	68.2	68.5	68.35	4.76	4.78	4.77
14:0	14:00		Bottom	9.0	23.90	23.90	23.90	8.11	8.11	8.11	32.62	32.62	32.62	66.0	67.6	66.80	4.61	4.72	4.67
	21:20		Surface	1.0	24.70	24.70	24.70	8.18	8.18	8.18	29.46	29.46	29.46	72.9	69.5	71.20	5.13	4.86	5.00
22-May-13	21:21	Cloudy	Middle	5.0	24.10	24.10	24.10	8.14	8.14	8.14	31.80	31.80	31.80	60.4	60.0	60.20	4.26	4.22	4.24
	21:22		Bottom	9.0	23.80	23.80	23.80	8.14	8.14	8.14	31.84	31.84	31.84	59.1	58.8	58.95	4.16	4.15	4.16

Location: Station C Coordinate: 835659E, 816271N

Coordinate.		, 01021																	
Date	Time	Weater Condition		g Depth	Wat	er Temp ℃	perature	рН		Salinity ppt		D	O Satur %	ation	DO mg/L				
		Condition	n	า	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average
2	21:08		Surface	1.0	21.90	21.90	21.90	8.17	8.17	8.17	34.90	34.90	34.90	80.0	79.5	79.75	5.72	5.69	5.71
2-May-13	21:09	Cloudy	Middle	7.0	21.90	21.90	21.90	8.19	8.19	8.19	34.91	34.91	34.91	78.6	78.4	78.50	5.61	5.60	5.61
21:11		Bottom	13.0	21.80	21.80	21.80	8.22	8.22	8.22	34.91	34.91	34.91	78.5	78.1	78.30	5.61	5.58	5.60	
9:36 9-May-13 9:38 Cloudy	Surface	1.0	23.60	23.60	23.60	8.43	8.43	8.43	33.36	33.36	33.36	67.5	67.6	67.55	4.82	4.83	4.83		
	9:38	Cloudy	Middle	7.5	22.70	22.70	22.70	8.17	8.17	8.17	33.18	33.18	33.18	68.5	68.3	68.40	4.91	4.89	4.90
	9:39		Bottom	14.0	22.30	22.30	22.30	8.16	8.16	8.16	33.40	33.40	33.40	69.3	69.7	69.50	4.97	5.00	4.99
	13:46		Surface	1.0	23.90	23.90	23.90	8.16	8.16	8.16	32.43	32.43	32.43	70.1	68.2	69.15	4.89	4.75	4.82
15-May-13	13:48	Fine	Middle	7.0	24.00	24.00	24.00	8.13	8.13	8.13	32.58	32.58	32.58	71.6	70.9	71.25	5.00	4.95	4.98
	13:50		Bottom	13.0	23.90	23.90	23.90	8.13	8.13	8.13	32.71	32.71	32.71	72.1	71.7	71.90	5.04	5.01	5.03
2	21:15		Surface	1.0	24.40	24.40	24.40	8.22	8.22	8.22	28.07	28.07	28.07	79.3	79.8	79.55	5.46	5.44	5.45
22-May-13	21:16	Cloudy	Middle	7.5	24.30	24.30	24.30	8.17	8.17	8.17	30.51	30.51	30.51	69.2	68.7	68.95	4.88	4.84	4.86
	21:17		Bottom	14.0	23.90	23.90	23.90	8.14	8.14	8.14	31.64	31.64	31.64	60.8	60.5	60.65	4.28	4.26	4.27



Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data	RTN2a (Hong Kong Electric Cent	re)			
Normal Day 07:00-19:00	4/5/2013 12:01 66.2	9/5/2013 18:31 66.3	15/5/2013 13:01 66.6	22/5/2013 7:31 66.8	27/5/2013 14:01 66.9
	4/5/2013 12:31 66.7	10/5/2013 7:01 65.5	15/5/2013 13:31 67.2	22/5/2013 8:01 66.8	27/5/2013 14:31 66.4
	4/5/2013 13:01 66.9	10/5/2013 7:31 66.7	15/5/2013 14:01 66.9	22/5/2013 8:31 62.3	27/5/2013 15:01 66.8
29/4/2013 7:01 65.8	4/5/2013 13:31 67.0	10/5/2013 8:01 62.3	15/5/2013 14:31 66.3	22/5/2013 9:01 48.4	27/5/2013 15:31 66.0
29/4/2013 7:31 66.8	4/5/2013 14:01 66.9	10/5/2013 8:31 65.2	15/5/2013 15:01 66.0	22/5/2013 9:31 48.0	27/5/2013 16:01 66.2
29/4/2013 8:01 54.2	4/5/2013 14:31 51.9	10/5/2013 9:01 65.8	15/5/2013 15:31 65.9 15/5/2013 16:01 66.7	22/5/2013 10:01 67.1	27/5/2013 16:31 66.5
29/4/2013 8:31 58.1	4/5/2013 15:01 65.9	10/5/2013 9:31 63.8	15/5/2013 16:31 48.4	22/5/2013 10:31 53.8	27/5/2013 17:01 66.5
29/4/2013 9:01 60.8	4/5/2013 15:31 65.7	10/5/2013 10:01 62.7		22/5/2013 11:01 66.8	27/5/2013 17:31 66.1
29/4/2013 9:31 63.5	4/5/2013 16:01 65.8	10/5/2013 10:31 64.2	15/5/2013 17:01 66.6	22/5/2013 11:31 66.2	27/5/2013 18:01 65.7
29/4/2013 10:01 59.6	4/5/2013 16:31 65.5	10/5/2013 11:01 66.9	15/5/2013 17:31 66.5	22/5/2013 12:01 66.6	27/5/2013 18:31 65.6
29/4/2013 10:31 63.8	4/5/2013 17:01 66.4	10/5/2013 11:31 63.6	15/5/2013 18:01 66.2	22/5/2013 12:31 67.0	
29/4/2013 11:01 64.3	4/5/2013 17:31 66.6	10/5/2013 12:01 59.8	15/5/2013 18:31 65.1	22/5/2013 13:01 66.8	Normal Day 19:00-23:00,
29/4/2013 11:31 67.2	4/5/2013 18:01 66.0	10/5/2013 12:31 66.9	16/5/2013 7:01 64.6	22/5/2013 13:31 66.9	Sunday & Holiday
29/4/2013 12:01 66.6	4/5/2013 18:31 65.7	10/5/2013 13:01 66.8	16/5/2013 7:31 65.6	22/5/2013 14:01 66.8	07:00-23:00
29/4/2013 12:31 66.9	6/5/2013 7:01 64.3	10/5/2013 13:31 63.9	16/5/2013 8:01 66.2	22/5/2013 14:31 66.9	
29/4/2013 13:01 48.7	6/5/2013 7:31 65.0	10/5/2013 14:01 65.2	16/5/2013 8:31 66.7	22/5/2013 15:01 66.8	28/4/2013 7:01 59.6
29/4/2013 13:31 57.1	6/5/2013 8:01 66.1	10/5/2013 14:31 68.6	16/5/2013 9:01 65.8	22/5/2013 15:31 66.6	28/4/2013 7:06 59.3
29/4/2013 14:01 59.8	6/5/2013 8:31 66.6	10/5/2013 15:01 64.1	16/5/2013 9:31 66.1	22/5/2013 16:01 67.1	28/4/2013 7:11 60.7
29/4/2013 14:31 57.8	6/5/2013 9:01 66.9	10/5/2013 15:31 56.1	16/5/2013 10:01 50.9	22/5/2013 16:31 67.0	28/4/2013 7:16 60.9
29/4/2013 15:01 56.6	6/5/2013 9:31 66.5	10/5/2013 16:01 57.0	16/5/2013 10:31 60.5	22/5/2013 17:01 66.7	28/4/2013 7:21 64.1
29/4/2013 15:31 58.8	6/5/2013 10:01 66.7	10/5/2013 16:31 64.4	16/5/2013 11:01 59.7	22/5/2013 17:31 66.6	28/4/2013 7:26 61.8
29/4/2013 16:01 50.7	6/5/2013 10:31 67.0	10/5/2013 17:01 66.4	16/5/2013 11:31 65.4	22/5/2013 18:01 66.8	28/4/2013 7:31 63.6
29/4/2013 16:31 67.2	6/5/2013 11:01 66.6	10/5/2013 17:31 59.0	16/5/2013 12:01 65.2	22/5/2013 18:31 66.1	28/4/2013 7:36 61.2
29/4/2013 17:01 43.8	6/5/2013 11:31 65.8	10/5/2013 18:01 66.1	16/5/2013 12:31 65.7	23/5/2013 7:01 65.3	28/4/2013 7:41 61.0
29/4/2013 17:31 67.0	6/5/2013 12:01 65.6	10/5/2013 18:31 65.9	16/5/2013 13:01 67.2	23/5/2013 7:31 66.2	28/4/2013 7:46 64.4
29/4/2013 18:01 66.9	6/5/2013 12:31 66.3	11/5/2013 7:01 65.6	16/5/2013 13:31 63.7	23/5/2013 8:01 66.5	28/4/2013 7:51 62.1
29/4/2013 18:31 66.5	6/5/2013 13:01 66.7	11/5/2013 7:31 66.5	16/5/2013 14:01 62.3	23/5/2013 8:31 66.9	28/4/2013 7:56 62.0
30/4/2013 7:01 65.5	6/5/2013 13:31 66.7	11/5/2013 8:01 65.0	16/5/2013 14:31 61.0	23/5/2013 9:01 66.9	28/4/2013 8:01 61.8
30/4/2013 7:31 66.5	6/5/2013 14:01 66.6	11/5/2013 8:31 67.0	16/5/2013 15:01 57.9	23/5/2013 9:31 56.7	28/4/2013 8:06 62.0
30/4/2013 8:01 67.1	6/5/2013 14:31 66.9	11/5/2013 9:01 65.5	16/5/2013 15:31 59.5	23/5/2013 10:01 59.3	28/4/2013 8:11 62.8
30/4/2013 8:31 51.2	6/5/2013 15:01 66.8	11/5/2013 9:31 65.4	16/5/2013 16:01 60.6	23/5/2013 10:31 51.9	28/4/2013 8:16 62.6
30/4/2013 9:01 67.0	6/5/2013 15:31 66.8	11/5/2013 10:01 62.2	16/5/2013 16:31 64.4	23/5/2013 11:01 66.9	28/4/2013 8:21 63.0 28/4/2013 8:26 62.7
30/4/2013 9:31 67.1	6/5/2013 16:01 67.1	11/5/2013 10:31 65.5	16/5/2013 17:01 65.5	23/5/2013 11:31 65.5	28/4/2013 8:31 62.7
30/4/2013 10:01 67.2	6/5/2013 16:31 66.9	11/5/2013 11:01 61.0	16/5/2013 17:31 62.0	23/5/2013 12:01 65.5	
30/4/2013 10:31 53.5	6/5/2013 17:01 66.7	11/5/2013 11:31 66.4	16/5/2013 18:01 67.0	23/5/2013 12:31 65.7	28/4/2013 8:36 62.7
30/4/2013 11:01 54.6	6/5/2013 17:31 66.3	11/5/2013 12:01 66.4	16/5/2013 18:31 66.7	23/5/2013 13:01 67.2	28/4/2013 8:41 62.6
30/4/2013 11:31 66.5	6/5/2013 18:01 66.2	11/5/2013 12:31 67.0	18/5/2013 7:01 64.9	23/5/2013 13:31 59.2	28/4/2013 8:46 62.9
30/4/2013 12:01 65.8	6/5/2013 18:31 66.3	11/5/2013 13:01 53.8	18/5/2013 7:31 65.4	23/5/2013 14:01 44.0	28/4/2013 8:51 63.1
30/4/2013 12:31 66.6	7/5/2013 7:01 64.3	11/5/2013 13:31 54.1	18/5/2013 8:01 67.1	23/5/2013 14:31 67.0	28/4/2013 8:56 63.7
30/4/2013 13:01 67.0	7/5/2013 7:31 66.0	11/5/2013 14:01 63.7	18/5/2013 8:31 54.2	23/5/2013 15:01 58.1	28/4/2013 9:01 63.8
30/4/2013 13:31 55.6	7/5/2013 8:01 66.0	11/5/2013 14:31 63.2	18/5/2013 9:01 62.0	23/5/2013 15:31 65.7	28/4/2013 9:06 64.0
30/4/2013 14:01 54.5	7/5/2013 8:31 66.5	11/5/2013 15:01 62.3	18/5/2013 9:31 57.3	23/5/2013 16:01 60.4	28/4/2013 9:11 64.4
30/4/2013 14:31 73.3	7/5/2013 9:01 66.2	11/5/2013 15:31 62.4	18/5/2013 10:01 66.6	23/5/2013 16:31 66.8	28/4/2013 9:16 64.8
30/4/2013 15:01 66.3	7/5/2013 9:31 66.6	11/5/2013 16:01 60.3	18/5/2013 10:31 58.5	23/5/2013 17:01 66.7	28/4/2013 9:21 64.3
30/4/2013 15:31 52.9	7/5/2013 10:01 67.1	11/5/2013 16:31 62.9	18/5/2013 11:01 63.0	23/5/2013 17:31 66.1	28/4/2013 9:26 64.5
30/4/2013 16:01 57.2	7/5/2013 10:31 66.9	11/5/2013 17:01 61.3	18/5/2013 11:31 67.2	23/5/2013 18:01 65.9	28/4/2013 9:31 65.5
30/4/2013 16:31 61.7	7/5/2013 11:01 67.0	11/5/2013 17:31 66.1	18/5/2013 12:01 66.4	23/5/2013 18:31 64.4	28/4/2013 9:36 64.4
30/4/2013 17:01 56.7	7/5/2013 11:31 66.4	11/5/2013 18:01 66.1	18/5/2013 12:31 65.5	24/5/2013 7:01 64.8	28/4/2013 9:41 64.0
30/4/2013 17:31 59.8	7/5/2013 12:01 66.2	11/5/2013 18:31 65.9	18/5/2013 13:01 66.9	24/5/2013 7:31 65.8	28/4/2013 9:46 65.3
30/4/2013 18:01 56.7	7/5/2013 12:31 65.8	13/5/2013 7:01 65.8	18/5/2013 13:31 66.8	24/5/2013 8:01 66.1	28/4/2013 9:51 64.0
30/4/2013 18:31 66.1	7/5/2013 13:01 66.4	13/5/2013 7:31 67.0	18/5/2013 14:01 66.8	24/5/2013 8:31 66.9	28/4/2013 9:56 64.3
2/5/2013 7:01 65.5	7/5/2013 13:31 66.7	13/5/2013 8:01 67.0	18/5/2013 14:31 59.7	24/5/2013 9:01 66.9	28/4/2013 10:01 64.7
2/5/2013 7:31 66.7	7/5/2013 14:01 66.7	13/5/2013 8:31 62.2	18/5/2013 15:01 56.2	24/5/2013 9:31 66.4	28/4/2013 10:06 64.5
2/5/2013 8:01 66.6	7/5/2013 14:31 66.9	13/5/2013 9:01 63.7	18/5/2013 15:31 53.6	24/5/2013 10:01 66.7	28/4/2013 10:11 64.1
2/5/2013 8:31 66.4	7/5/2013 15:01 66.5	13/5/2013 9:31 64.0	18/5/2013 16:01 54.7	24/5/2013 10:31 66.3	28/4/2013 10:16 64.9
2/5/2013 9:01 66.9	7/5/2013 15:31 66.3	13/5/2013 10:01 64.9	18/5/2013 16:31 60.2	24/5/2013 11:01 66.8	28/4/2013 10:21 64.0
2/5/2013 9:31 59.7	7/5/2013 16:01 66.3	13/5/2013 10:31 63.9	18/5/2013 17:01 60.7	24/5/2013 11:31 65.8	28/4/2013 10:26 64.3
2/5/2013 10:01 53.7	7/5/2013 16:31 66.4	13/5/2013 11:01 61.8	18/5/2013 17:31 56.8	24/5/2013 12:01 64.9	28/4/2013 10:31 64.2
2/5/2013 10:31 54.5	7/5/2013 17:01 66.5	13/5/2013 11:31 49.4	18/5/2013 18:01 65.7	24/5/2013 12:31 64.7	28/4/2013 10:36 64.6
2/5/2013 11:01 56.1	7/5/2013 17:31 66.1	13/5/2013 12:01 66.7	18/5/2013 18:31 64.7	24/5/2013 13:01 65.9	28/4/2013 10:41 64.0
2/5/2013 11:31 67.1	7/5/2013 18:01 65.9	13/5/2013 12:31 66.7	20/5/2013 7:01 64.5	24/5/2013 13:31 66.0	28/4/2013 10:46 64.4
2/5/2013 12:01 66.6	7/5/2013 18:31 66.2	13/5/2013 13:01 57.3	20/5/2013 7:31 65.7	24/5/2013 14:01 66.1	28/4/2013 10:51 64.3
2/5/2013 12:31 66.4	8/5/2013 7:01 64.1	13/5/2013 13:31 58.9	20/5/2013 8:01 67.1	24/5/2013 14:31 66.2	28/4/2013 10:56 65.0
2/5/2013 13:01 67.1	8/5/2013 7:31 65.4	13/5/2013 14:01 56.1	20/5/2013 8:31 66.6	24/5/2013 15:01 66.3	28/4/2013 11:01 64.5
2/5/2013 13:31 52.8	8/5/2013 8:01 65.9	13/5/2013 14:31 53.8	20/5/2013 9:01 66.2	24/5/2013 15:31 66.1	28/4/2013 11:06 64.5
2/5/2013 14:01 50.9	8/5/2013 8:31 66.3	13/5/2013 15:01 56.0	20/5/2013 9:31 66.6	24/5/2013 16:01 65.9	28/4/2013 11:11 64.6
2/5/2013 14:31 67.1	8/5/2013 9:01 66.1	13/5/2013 15:31 67.2	20/5/2013 10:01 66.9	24/5/2013 16:31 66.5	28/4/2013 11:16 64.5
2/5/2013 15:01 67.1	8/5/2013 9:31 66.0	13/5/2013 16:01 55.1	20/5/2013 10:31 67.1	24/5/2013 17:01 66.3	28/4/2013 11:21 65.2
2/5/2013 15:31 66.5	8/5/2013 10:01 66.5	13/5/2013 16:31 54.8	20/5/2013 11:01 66.8	24/5/2013 17:31 65.7	28/4/2013 11:26 64.8
2/5/2013 16:01 66.6	8/5/2013 10:31 66.8	13/5/2013 17:01 67.2	20/5/2013 11:31 66.3	24/5/2013 18:01 65.5	28/4/2013 11:31 64.8
2/5/2013 16:31 66.8	8/5/2013 11:01 58.7	13/5/2013 17:31 66.9	20/5/2013 12:01 65.7	24/5/2013 18:31 65.1	28/4/2013 11:36 64.0
2/5/2013 17:01 66.6	8/5/2013 11:31 66.0	13/5/2013 18:01 66.9	20/5/2013 12:31 65.8	25/5/2013 7:01 64.9	28/4/2013 11:41 64.5
2/5/2013 17:31 66.5	8/5/2013 12:01 65.5	13/5/2013 18:31 67.2	20/5/2013 13:01 66.6	25/5/2013 7:31 65.7	28/4/2013 11:46 64.6
2/5/2013 18:01 66.6	8/5/2013 12:31 65.3	14/5/2013 7:01 65.8	20/5/2013 13:31 54.1	25/5/2013 8:01 66.3	28/4/2013 11:51 64.2
2/5/2013 18:31 66.4	8/5/2013 13:01 66.3	14/5/2013 7:31 66.4	20/5/2013 14:01 62.4	25/5/2013 8:31 67.2	28/4/2013 11:56 65.6
3/5/2013 7:01 64.7	8/5/2013 13:31 67.1	14/5/2013 8:01 66.7	20/5/2013 14:31 67.2	25/5/2013 9:01 66.4	28/4/2013 12:01 64.4
3/5/2013 7:31 66.1	8/5/2013 14:01 66.9	14/5/2013 8:31 59.0	20/5/2013 15:01 66.8	25/5/2013 9:31 66.2	28/4/2013 12:06 64.4
3/5/2013 8:01 66.7	8/5/2013 14:31 67.0	14/5/2013 9:01 52.6	20/5/2013 15:31 66.8	25/5/2013 10:01 66.4	28/4/2013 12:11 63.9
3/5/2013 8:31 66.5	8/5/2013 15:01 66.6	14/5/2013 9:31 58.9	20/5/2013 16:01 67.2	25/5/2013 10:31 65.9	28/4/2013 12:16 64.3
3/5/2013 9:01 66.8	8/5/2013 15:31 66.5	14/5/2013 10:01 57.6	20/5/2013 16:31 66.7	25/5/2013 11:01 59.0	28/4/2013 12:21 63.7
3/5/2013 9:31 67.1	8/5/2013 16:01 66.3	14/5/2013 10:31 53.4	20/5/2013 17:01 66.7	25/5/2013 11:31 66.3	28/4/2013 12:26 64.0
3/5/2013 10:01 67.2	8/5/2013 16:31 65.6	14/5/2013 11:01 55.0	20/5/2013 17:31 66.4	25/5/2013 12:01 66.2	28/4/2013 12:31 63.7
3/5/2013 10:31 56.7	8/5/2013 17:01 65.5	14/5/2013 11:31 67.0	20/5/2013 18:01 65.9	25/5/2013 12:31 66.7	28/4/2013 12:36 64.3
3/5/2013 11:01 66.8	8/5/2013 17:31 65.4	14/5/2013 12:01 66.2	20/5/2013 18:31 65.8	25/5/2013 13:01 66.0	28/4/2013 12:41 65.4
3/5/2013 11:31 66.5	8/5/2013 18:01 64.9	14/5/2013 12:31 66.2	21/5/2013 7:01 65.2	25/5/2013 13:31 66.2	28/4/2013 12:46 64.4
3/5/2013 12:01 66.1	8/5/2013 18:31 64.6	14/5/2013 13:01 42.8	21/5/2013 7:31 65.6	25/5/2013 14:01 66.8	28/4/2013 12:51 64.5
3/5/2013 12:31 65.7	9/5/2013 7:01 65.7	14/5/2013 13:31 54.0	21/5/2013 8:01 66.2	25/5/2013 14:31 66.5	28/4/2013 12:56 64.3
3/5/2013 13:01 66.5	9/5/2013 7:31 67.1	14/5/2013 14:01 59.0	21/5/2013 8:31 50.4	25/5/2013 15:01 66.0	28/4/2013 13:01 64.5
3/5/2013 13:31 60.3	9/5/2013 8:01 51.8	14/5/2013 14:31 55.6	21/5/2013 9:01 67.0	25/5/2013 15:31 66.7	28/4/2013 13:06 64.2
3/5/2013 14:01 66.9	9/5/2013 8:31 66.7	14/5/2013 15:01 49.4	21/5/2013 9:31 52.1	25/5/2013 16:01 66.4	28/4/2013 13:11 64.2
3/5/2013 14:31 66.6	9/5/2013 9:01 66.7	14/5/2013 15:31 67.1	21/5/2013 10:01 56.3	25/5/2013 16:31 67.0	28/4/2013 13:16 64.5
3/5/2013 15:01 66.5	9/5/2013 9:31 59.7	14/5/2013 16:01 56.6	21/5/2013 10:31 66.8	25/5/2013 17:01 66.9	28/4/2013 13:21 64.9
3/5/2013 15:31 66.6	9/5/2013 10:01 60.7	14/5/2013 16:31 50.4	21/5/2013 11:01 67.0	25/5/2013 17:31 66.7	28/4/2013 13:26 64.4
3/5/2013 16:01 52.7	9/5/2013 10:31 57.4	14/5/2013 17:01 53.6	21/5/2013 11:31 77.6	25/5/2013 18:01 66.5	28/4/2013 13:31 64.0
3/5/2013 16:31 55.6	9/5/2013 11:01 55.6	14/5/2013 17:31 67.0	21/5/2013 12:01 72.7	25/5/2013 18:31 65.9	28/4/2013 13:36 64.3
3/5/2013 17:01 61.6	9/5/2013 11:31 67.1	14/5/2013 18:01 66.8	21/5/2013 12:31 65.4	27/5/2013 7:01 64.6	28/4/2013 13:41 64.2
3/5/2013 17:31 66.9	9/5/2013 12:01 66.8	14/5/2013 18:31 66.4	21/5/2013 13:01 59.3	27/5/2013 7:31 65.8	28/4/2013 13:46 64.8
3/5/2013 18:01 66.2	9/5/2013 12:31 67.0	15/5/2013 7:01 65.3	21/5/2013 13:31 62.6	27/5/2013 8:01 65.7	28/4/2013 13:51 65.4
3/5/2013 18:31 66.2	9/5/2013 13:01 58.2	15/5/2013 7:31 66.3	21/5/2013 14:01 60.3	27/5/2013 8:31 65.5	28/4/2013 13:56 64.8
4/5/2013 7:01 65.1	9/5/2013 13:31 67.2	15/5/2013 8:01 66.7	21/5/2013 14:31 61.0	27/5/2013 9:01 66.0	28/4/2013 14:01 65.1
4/5/2013 7:31 65.9	9/5/2013 14:01 55.7	15/5/2013 8:31 55.3	21/5/2013 15:01 59.0	27/5/2013 9:31 66.8	28/4/2013 14:06 65.1
4/5/2013 8:01 66.9	9/5/2013 14:31 67.2	15/5/2013 9:01 57.0	21/5/2013 15:31 59.2	27/5/2013 10:01 66.8	28/4/2013 14:11 65.8
4/5/2013 8:31 67.0	9/5/2013 15:01 53.0	15/5/2013 9:31 58.3	21/5/2013 16:01 59.7	27/5/2013 10:31 66.5	28/4/2013 14:16 65.8
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Real-time Noise Data 28/4/2013 14:51 65.2	RTN2a (Hong Kong Electric Cent 29/4/2013 19:56 64.0	tre) 1/5/2013 9:01 64.5	1/5/2013 18:06 61.0	3/5/2013 19:11 65.7	5/5/2013 8:16 60.3
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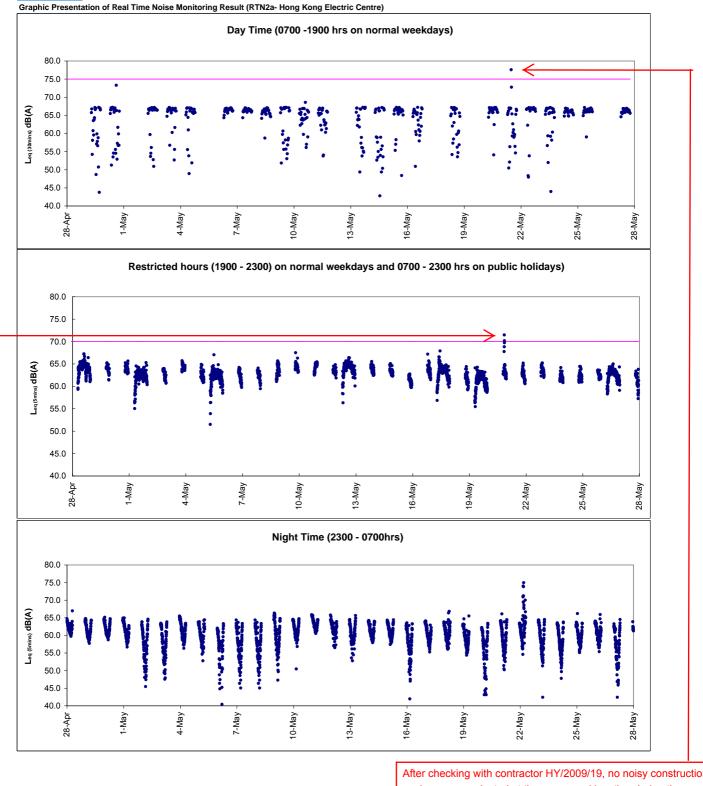
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21/5/2013 3:26 54.8	22/5/2013 4:31 68.0	23/5/2013 5:36 56.3	24/5/2013 6:41 62.3	25/5/2013 23:46 64.0	27/5/2013 0:51 59.5
21/5/2013 3:31 54.1 21/5/2013 3:36 56.1	22/5/2013 4:36 60.8 22/5/2013 4:41 64.0	23/5/2013 5:41 57.5 23/5/2013 5:46 61.6	24/5/2013 6:46 62.1 24/5/2013 6:51 63.5	25/5/2013 23:51 63.3 25/5/2013 23:56 63.0	27/5/2013 0:56 58.9 27/5/2013 1:01 62.0
21/5/2013 3:41 50.2	22/5/2013 4:46 68.6	23/5/2013 5:51 58.9	24/5/2013 6:56 63.8	26/5/2013 0:01 62.8	27/5/2013 1:06 61.6
21/5/2013 3:46 52.9	22/5/2013 4:51 67.6	23/5/2013 5:56 58.7	24/5/2013 23:01 62.9	26/5/2013 0:06 63.3	27/5/2013 1:11 56.6
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21/5/2013 4:01 53.6	22/5/2013 5:06 60.0	23/5/2013 6:11 60.2	24/5/2013 23:16 63.2	26/5/2013 0:21 62.5	27/5/2013 1:26 57.2
21/5/2013 4:06 55.1 21/5/2013 4:11 55.2	22/5/2013 5:11 57.8 22/5/2013 5:16 59.5	23/5/2013 6:16 60.2 23/5/2013 6:21 61.5	24/5/2013 23:21 63.0 24/5/2013 23:26 63 7	26/5/2013 0:26 62.8 26/5/2013 0:31 62.6	27/5/2013 1:31 58.1 27/5/2013 1:36 57.8
21/5/2013 4:11 55.2 21/5/2013 4:16 54.5	22/5/2013 5:16 59.5	23/5/2013 6:21 61.5 23/5/2013 6:26 61.3	24/5/2013 23:26 63.7 24/5/2013 23:31 63.3	26/5/2013 0:31 62.6	27/5/2013 1:36 57.8 27/5/2013 1:41 56.8
21/5/2013 4:21 54.9	22/5/2013 5:26 62.8	23/5/2013 6:31 61.9	24/5/2013 23:36 62.8	26/5/2013 0:41 63.4	27/5/2013 1:46 56.3
21/5/2013 4:26 57.7 21/5/2013 4:31 60.1	22/5/2013 5:31 63.5 22/5/2013 5:36 62.0	23/5/2013 6:36 62.9 23/5/2013 6:41 63.6	24/5/2013 23:41 63.6 24/5/2013 23:46 62.9	26/5/2013 0:46 62.3 26/5/2013 0:51 60.6	27/5/2013 1:51 53.7 27/5/2013 1:56 56.6
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21/5/2013 5:01 53.5	22/5/2013 6:06 65.5	23/5/2013 23:11 63.6	25/5/2013 0:16 62.9	26/5/2013 1:21 62.0	27/5/2013 2:26 53.2
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21/5/2013 6:41 63.6	22/5/2013 23:46 63.4	24/5/2013 0:51 60.1	25/5/2013 1:51 60.3 25/5/2013 1:56 59.6	26/5/2013 2:30 59:8	27/5/2013 4:01 58.0 27/5/2013 4:06 47.0
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21/5/2013 23:56 62.6	23/5/2013 1:01 61.4	24/5/2013 2:06 56.3	25/5/2013 3:11 57.8	26/5/2013 4:16 56.9	27/5/2013 5:21 55.6
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22/5/2013 0:06 62.4 22/5/2013 0:11 62.1	23/5/2013 1:11 61.5 23/5/2013 1:16 60.4	24/5/2013 2:16 56.5 24/5/2013 2:21 58.4	25/5/2013 3:21 55.6 25/5/2013 3:26 55.1	26/5/2013 4:26 57.2 26/5/2013 4:31 55.3	27/5/2013 5:31 54.9 27/5/2013 5:36 53.8
22/5/2013 0:16 61.9	23/5/2013 1:21 60.5	24/5/2013 2:26 57.5	25/5/2013 3:31 56.0	26/5/2013 4:36 56.9	27/5/2013 5:41 56.5
22/5/2013 0:21 61.3	23/5/2013 1:26 59.7	24/5/2013 2:31 56.8	25/5/2013 3:36 57.1	26/5/2013 4:41 58.3	27/5/2013 5:46 57.2
22/5/2013 0:26 61.9 22/5/2013 0:31 62.2	23/5/2013 1:31 60.6 23/5/2013 1:36 59.2	24/5/2013 2:36 57.0 24/5/2013 2:41 58.1	25/5/2013 3:41 57.5 25/5/2013 3:46 58.6	26/5/2013 4:46 58.3 26/5/2013 4:51 57.3	27/5/2013 5:51 57.5 27/5/2013 5:56 57.8
22/5/2013 0:36 60.7	23/5/2013 1:41 61.3	24/5/2013 2:46 56.8	25/5/2013 3:51 58.7	26/5/2013 4:56 58.1	27/5/2013 6:01 57.5
22/5/2013 0:41 61.8 22/5/2013 0:46 61.2	23/5/2013 1:46 59.2 23/5/2013 1:51 58.9	24/5/2013 2:51 56.5 24/5/2013 2:56 54.5	25/5/2013 3:56 58.6 25/5/2013 4:01 57.8	26/5/2013 5:01 58.7 26/5/2013 5:06 58.6	27/5/2013 6:06 58.6 27/5/2013 6:11 60.1
22/5/2013 0:51 61.6	23/5/2013 1:56 58.8	24/5/2013 3:01 55.5	25/5/2013 4:06 57.5	26/5/2013 5:11 58.7	27/5/2013 6:16 59.8
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22/5/2013 1:01 61.2 22/5/2013 1:06 59.9	23/5/2013 2:06 58.7 23/5/2013 2:11 58.1	24/5/2013 3:11 55.3 24/5/2013 3:16 54.5	25/5/2013 4:16 57.3 25/5/2013 4:21 56.2	26/5/2013 5:21 60.5 26/5/2013 5:26 59.0	27/5/2013 6:26 61.4 27/5/2013 6:31 61.6
22/5/2013 1:11 60.1	23/5/2013 2:16 58.1	24/5/2013 3:21 52.3	25/5/2013 4:26 58.0	26/5/2013 5:31 64.7	27/5/2013 6:36 62.0
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22/5/2013 1:21 60.2 22/5/2013 1:26 60.2	23/5/2013 2:26 57.9 23/5/2013 2:31 57.9	24/5/2013 3:31 54.0 24/5/2013 3:36 53.2	25/5/2013 4:36 57.0 25/5/2013 4:41 56.8	26/5/2013 5:41 62.4 26/5/2013 5:46 62.4	27/5/2013 6:46 62.8 27/5/2013 6:51 63.5
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22/5/2013 1:36 60.6 22/5/2013 1:41 62.5	23/5/2013 2:41 56.5 23/5/2013 2:46 56.5	24/5/2013 3:46 55.2 24/5/2013 3:51 53.4	25/5/2013 4:51 56.5 25/5/2013 4:56 57.6	26/5/2013 5:56 60.9 26/5/2013 6:01 60.0	27/5/2013 23:01 63.9 27/5/2013 23:06 61.6
22/5/2013 1:41 62.5 22/5/2013 1:46 62.9	23/5/2013 2:46 56.5 23/5/2013 2:51 57.0	24/5/2013 3:51 53.4 24/5/2013 3:56 54.2	25/5/2013 4:56 57.6 25/5/2013 5:01 57.0	26/5/2013 6:06 58.3	27/5/2013 23:06 61.6 27/5/2013 23:11 62.4
22/5/2013 1:51 62.9	23/5/2013 2:56 58.7	24/5/2013 4:01 54.1	25/5/2013 5:06 59.0	26/5/2013 6:11 60.7	27/5/2013 23:16 62.5
	23/5/2013 3:01 54.6	24/5/2013 4:06 56.4	25/5/2013 5:11 58.7	26/5/2013 6:16 60.0	27/5/2013 23:21 62.4
22/5/2013 1:56 59.5		24/5/2013 4:11 47.8	25/5/2013 5:16 59.0	26/5/2013 6:21 59.7	27/5/2013 23:26 61 7
		24/5/2013 4:11 47.8 24/5/2013 4:16 50.7 24/5/2013 4:21 51.8	25/5/2013 5:16 59.0 25/5/2013 5:21 58.0 25/5/2013 5:26 58.2	26/5/2013 6:21 59.7 26/5/2013 6:26 61.8 26/5/2013 6:31 60.8	27/5/2013 23:26 61.7 27/5/2013 23:31 62.0 27/5/2013 23:36 61.8

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

27/5/2013 23:41 61.8 27/5/2013 23:46 62.4 27/5/2013 23:51 61.4 27/5/2013 23:56 61.3



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)



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

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



Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT		A	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)



EVENT		AC	CTION	
	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) 	actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	 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; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 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		
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. 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. 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; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	 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 and Action Plan for Marine Water Quality

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)



EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)



Event and Action Plan for Odour Patrol

Event		ACTION
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD
Action Level		
Exceedance of Action Level	 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	 Identify source / reason of exceedance; Repeat odour patrol to confirm findings; Increase odour patrol frequency; 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_10N128	2-May-13	15:05	M6 - HK Baptist Church Henrietta Secondary School	73	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. Concreting works for Contract HY/2009/19 was 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_10N129	7-May-13	14:04	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	Remarks / Other Obs:	Traffic nearby was observed during monitoring and was considered as the major noise contribution. Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. No construction works for Contract HY/2009/19 was conducted during the measurement. It was observed that traffic noise was a major noise source during monitoring. Breaking works at nearby City Garden was noted at the monitoring period. 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_10N130	21-May-13	10:30	M6 - HK Baptist Church Henrietta Secondary School	72	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.
									Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Noise mitigation measures by contractor including erection of tempoary noise barrier was confirmed in place.
									Pile head breaking works for Contract HY/2009/19 was 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.

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

Lam Geotechnices Limited

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action LeveL	imit Level	Follow-up action	
X_W426	29-Apr-13	Mid-Ebb	WSD21	DO(mg/L)	4.40	3.17	2.63	Possible reason:	Possible in relation to muddy dsicharge seepage in vicinity of the water quality monitoring station was recorded on 29 April 2013.
				Turbidity	4.25	10.01		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 29 April 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. Muddy water from a misplaced discharge pipe was accidentally discharged near sampling location WSD21 outside well A resulting in seepage of muddy water through the sheet pile wall into well A. Contractor(HK/2009/02) was advised to rectify the situation immediately and the discharge pipes were promptly removed as mitigation to avoid futherdeterioration in water quality.
				SS	18.50	16.26	19.74	Remarks / Other Obs:	The exceedances was possibly due to muddy water discharging near sampling location WSD21. Seepage of muddy water at the sheet pile wall into well A was unavoidably collected during monitoring. The exceedance was considered as works related.
X_W427	9-May-13	Mid-Flood	WSD17	DO(mg/L)	5.62	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.08	10.01		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 9 May 2013 , no marine work was conducted on that day.
				SS	17.50	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_W428	21-May-13	Mid-Flood	WSD21	DO(mg/L)	3.14	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	5.84	10.01		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 21 May 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	5.00	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_W429	22-May-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	7.11	10.01		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 22 May 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	19.50	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.

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	Date	Tidal	Location	Depth	Parameters (Unit I	Measured	Action Leve	Limit Level	Follow-up action	
X_10D237	4-May-13	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	3.52	3.76	3.76	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 4 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D238	13-May-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.65	3.19	3.10	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 13 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D239	13-May-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.49	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 13 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D240	15-May-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.56	3.19	3.10	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 on15 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D241	15-May-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.14	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 15 May 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_10D242	18-May-13	Mid-Flood			DO(mg/l)	1.59			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 18 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D243	18-May-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	1.52	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 18 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D244	22-May-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	1.16	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 22 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D245	22-May-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.16	3.19	3.10	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 22 May 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.



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	Out	tcome	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 no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					5)	No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown	breakwater of the	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March	.,	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1- 233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	,	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. 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. No further complaints were received in the reporting	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)		Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) 2) 3)	month. The complaint is considered closed. Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. 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.	Closed
					4)	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 works area adjacent to the Harbour Height during the period from 0700 to 2200.	1) 2)	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. No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during davtime and evening time period.	Closed
					3)	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 no wob is)	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		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	• • •	ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1- 266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot- light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00- 21:00.	 Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; No starting work on 7 Dec 2010 at 0630hours. PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; The absence of the lighting shields at flood light results in visual glare to the compliant at night-time. Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; No further complaint was received after implementation of proposed measures 	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	 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	come	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1) 2) 3)	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. 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. It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	1)	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area. 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	Closed
					3)	observed in the inspection. 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	tcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	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. Referring to the record provided by Cayley Property	Closed
					4)	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	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.		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	Victoria Centre by ICC no. 1- 303887687	1) 2)	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.				
				Saturday, Sunday and public	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)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.				
				5)	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 2, Victoria Centre by ICC no. 1- 304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	1) 2)	It was referred by AECOM to ET on 8 August 2011 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 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	2)	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	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					 In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure. 	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	 It was referred by AECOM to ET on 28 July 2011 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. As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be 	
	08/08/2011				 started at 8am. 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
					 Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. Remarks: There will be counted as two complaints in this 	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	 complaint log. It was referred by AECOM to ET on 17 August 2011. 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. 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 	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) 2)	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 dominant construction noise source during this period.	
					3)	The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.	
					4)	Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	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.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	 It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. The pump is located on the site area of HY/2009/19 A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall. 	Closed
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



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) 2)	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	Out	come	Status
					2)	CNP was checked by the police officer. ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.	
					3)	Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.	
					4)	Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour	
					5)	This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	2)	RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. HyD made a reply to the complainant on 16 April 2012 via	Closed
						1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	



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 period on 6 March 2013. Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use. 	Closed



Appendix 10.1

Construction Programme of Individual Contracts

Contract No. HK/2009/01

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

Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH	2010	2011	2012	2013
	START	FINISH	Fet MalApiMa Jun Jul Au Sep Oct No De	Jan Feb Ma Api Ma Jun Jul Au Sep Oct No De	Jan Feb Ma Api Ma Jun Jul Au Sep Oct No De	Jan Feb Ma Api Ma Jun Jul Au Sep Oct No D
Submissions before Works Commencement						
Submit silt curtain deployment plan	31/3/10	31/3/10	•			
Submit silt screen deployment plan	31/3/10	31/3/10	•			
Submit measures to mitigate noise impact	31/3/10	31/3/10	•			
Cross Harbour Watermains from WCN to TST (DP6)						
Trench dredging for marine watermains installation	29/4/10	28/10/10				
Backfilling for watermain	28/1/11	14/12/11				
Reclamation Works at HKCEC Water Channel (DP3)						
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10				
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11				
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11				
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11				
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12				
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13				

K/2009/02-Marine & Reclamation Works	Duration	Start	2010	2011 2012 2	013 2014 2015
	2008 d	Thu 28/1/10	04 01 02 03 04 01 0	2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2	2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
Contract Commencement	0 d	Thu 28/1/10	•		
General	1879 d	Mon 22/2/10			
Submission & obtain approval for marine GI	21 d	Mon 22/2/10			
Stage 1 Marine GI for reclamation					
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Construction of Permanent Seawall Blocks for curved coastline					
	Stage 1 Marine GI for reclamation Engineer's Design review for Dredging of WCR1, WCR2 & WCR4 Relocation of New Star Ferry Pier Demolition of Existing Star Ferry Pier Stage 2 Marine GI for Reclamation Engineer's Design review for Dredging of WCR3 Complete Diversion of Hung Hing Road Traffic Back to Original Excavate & remove top of d-wall for permanet seawall construction Submarine Outfall Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea Phase 1 - WCR1 Mobilization of plants Seabed dredging Bedding Filling and Permanent seawall (precast cassion) Bulk reclamation Phase 2 - WCR2 Mobilization of plants Temp seawall and Seabed dredging Bulk reclamation Phase 3 - TWCR4 & WCR4 Mobilization of plants Temp Seawall and Seabed dredging Bulk temp reclamation Phase 4 - WCR3 Mobilization of plants Seabed dredging for Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phasee 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dRelocation of New Star Ferry Pier0 dDemolition of Existing Star Ferry Pier100 dStage 2, Marine GI for Reclamation14 dEngineer's Design review for Dredging of WCR321 dComplete Diversion of Hung Hing Road Traffic Back to Original20 dExcavate & remove top of d-wall for permanet seawall construction50 dSubmarine Outfall500 dDredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dPhase 1 - WCR1158 dMobilization of plants1 dSeabed dredging63 dBedding Filling and Permanent seawall (precast cassion)60 dBulk reclamation37 dPhase 2 - WCR2149 dMobilization of plants1 dTemp seawall and Seabed dredging77 dBulk reclamation73 dPhase 3 - TWCR4 & WCR498 dMobilization of plants1 dTemp Seawall and Seabed dredging75 dBulk & temp reclamation24 dPhase 4 - WCR3294 dMobilization of plants1 dSeabed dredging for Permanent Seawall12 dSeabed dredging for Permanent Seawall12 dPhase 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4105 dMobilization of plants1 dDredging and Filling for permanent Seawall Blocks for curved coastline50 d	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Demolition of Existing Star Ferry Pier10 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15Submarine Outfall500 dTue 21/9/10Tue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Mobilization of plants1 dWed 21/4/10Seabed dredging63 dWed 21/4/10Bedding Filling and Permanent seawall (precast cassion)60 dTue 22/6/10Buk reclamation37 dFri 20/8/10Phase 2 - WCR2149 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Temp seawall and Seabed dredging77 dThu 1/3/12Buk reclamation73 dWed 16/5/12Phase 3 - TWCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Seabed dredging for Permanent Seawall75 dSat 28/4/12Buk k temp reclamation24 dWed 11/7/12Phase 4 - WCR310 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Backfill and permanent Seawall102 dTue 18/3/14Mobilization of p	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Demolition of Existing Star Ferry Pier100 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Seabed dredging63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR2149 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Bulk reclamation77 dThu 1/3/12Phase 3 - WCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dSat 28/4/12Temp Seawall and Seabed dredging75 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 8/3/14Bulk reclamation108 dTue 8/3/14Phase 4 - WCR3294 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Phase 5 - Construct Perm	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laving and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Bedding Filling and Permanent seawall (precast cassion)63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR21 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Temp seawall and Seabed dredging77 dThu 1/3/12Bulk reclamation75 dSat 28/4/12Phase 3 - TWCR4 & WCR496 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dSat 28/4/12Temp seawall and Seabed dredging75 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Bulk reclamation74 dFri 24/10/14Mobilization of plants1 dTue 18/3/14S

ID	Cal		Orig	Early	Early	2010 2011 2012 2013 2014 2015 2016 2017
BRIE (T	1. 1. 0.	Description	Dur	Start	Finish	2010 2011 2012 2013 2014 2015 2016 2017
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)		00050404	learnau	
110	1			03DEC10*	26FEB11	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)
		TCBR1E (TS1)-temporary reclamation		28JAN11*	06APR11	TCBR1E (TS1)-temporary reclamation
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12	TCBR1E (TS1)- removal of temporary reclamation
BR4						
100		Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10	Maintenance dredging for navigation safety for relocation of RHKYC mooring at Area B
		TS2 Area)	_			
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	-	15NOV10*	19NOV10	ITCBR2&TCBR3(TS2)- Maintenance dredging for navigation safety at Area A for relocation of commercial v
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12	TCBR2&TCBR3(TS2)-dredge+rockfill seabed (preparation for seawall)
120	1	TCBR2&TCBR3(TS2)temporary reclamation	115	26FEB12*	19JUN12	TCBR2&TCBR3(TS2)temporary reclamation
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	130CT13	TCBR2&TCBR3(TS2-removal temporary reclamation
BR1W (T	_					
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)
130	1	TCBR1W(TS4)temporary reclamation	68	28JAN11	05APR11	TCBR1W(TS4) temporary reclamation
165	1	TCBR1W(TS4)removal temporary reclamation	26	270CT13*	21NOV13	TCBR1W(TS4)removal temporary reclamation
CWAE						
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55	03DEC10*	26JAN11	TPCWAE-dredging+rockfill(prep. for seawall)
140	1	TPCWAEtemporary reclamation	77	27JAN11	13APR11	TPCWAE temporary reclamation
170	1	TPCWAEremoval temporary reclamation		28SEP13*	25OCT13	TPCWAEremoval temporary reclamation
CWAW					AV.	
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	280CT13*	13DEC13	TPCWAW-dredging+rockfill(prep. for seawall)
150	1	TPCWAWtemporary reclamation		14DEC13	06MAR14	TPCWAWtemporary reclamation
175	1	TPCWAWremoval temporary reclamation		02JUL15*	20AUG15	TPCWAW-removal temporary reclamation
		Early Bar Progress Bar Critical Activity		CONT	RACT NO. HY/	RUCTION ENGG LTD Sheet 1 of 1 Prepared based on IWP Rev. 0 2009/15: CENTRAL NNEL (CBTS SECTION) Date Prepared: 28 Oct 2010

Act ID	Description	Orig Early Dur Start	Early Finish	JAN FEB I	MAR APR	MAY JUN	2011 JUL AUG	SEP	OCT N	OV DEC	JAN	FEB MAR	APR	MAY	201 JUN	12 JUL	AUG	SEP	ост	NOV	DEC	JAN	2013 FEB MAR F
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Contract C	bligation																						
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	KS																						
1050	Apply Marine notice to Marine Department	30 21JAN11	19FEB11	Арр	ly Marine notic	e to Marine E	Department (dre	edg)															
1060	Apply Marine notice to Marine Dept. Piling	30 18FEB11	19MAR11		🗖 Apply Marir	ne notice to N	larine Dept. Pil	ing															
1080	Apply FEP under EP356/2009	21 28FEB11	20MAR11	1	Apply FEP	under EP356	/2009																
1081	Submission of Works Schedule for FEP	14 05MAR11	21MAR11		💻 Submissior	n of Works Sch	nedule for FEP																
1082	Submission of Location Plan for FEP	14 05MAR11	21MAR11	- 1	Submission		ロビビントレントン														<u></u>		
1083	Submission of Silt Curtain Deployment	14 05MAR11	21MAR11				in Deployment																
1084	Submission of Silt Screen Deployment Plan	14 05MAR11	21MAR11				n Deployment	Plan															
1085	Submission Noise Management Plan	14 05MAR11	21MAR11		Submission Apply Dum		gement Plan																
1090	Apply Dumping Permit	30 18FEB11	19MAR11 01MAR11		pply CNP											1111							
1100	Apply CNP Apply C&D waste disposal	30 31JAN11 30 20JAN11	18FEB11		ly C&D waste d	isposal		+++++++++++++++++++++++++++++++++++++++		-+++++				+ +			+ + + +						
1110	Apply C&D waste disposal Apply Discharge licence	30 20JAN11 30 18FEB11	18FEB11 19MAR11		Apply Disch																		
1130	Notification of chemical waste Producer	30 20JAN11	18FEB11		fication of cher		roducer																
1140	Notification to Labor Dept-Works	30 20JAN11	18FEB11			and a share of a	Commenceme	nt															
1150	Submit Risk Ass to MTR	21 28FEB11	20MAR11	1 🗄 🗄 🗄	🔲 Submit Ris	k Ass to MTR																	
1260	Erect Hoarding	30 28FEB11	29MAR11	historia 🛓	Erect Ho	arding		i i i i i i i		- † † † † † † †	tiiiii		+ † † † † -	11111			+ + + + + + + + + + + + + + + + + + +	; ; ; ; ; -	1-1-11		† † † † † 	1111	
1270	Demarcation of Marine Site Boundary	21 01MAR11	21MAR11	1 +	💻 Demarcatio	on of Marine S	Site Boundary																
1280	Working Site Office establishment	14 27JAN11	09FEB11	🔲 Workin	g Site Office e	stablishment																	
Monitoring	1																						
						monitoring sys	rtom from C1																
1160 1180	Takeover monitoring system from C1 Commence Monitoring- ADMS.etc	0 21MAR11 0 21MAR11	-		i i she she she	e Monitoring-	de el el el el el el éta de la compañía de la comp																
Dredging	•	0 21MARTI																					
Dicuging	TORS																						
1070	Submit Dredging MS	30 18FEB11	19MAR11		Submit Dre	dging MS																	
1075	Accpetance of Dredging MS	0	19MAR11		Accpetanc	e of Dredging	MS																
1078	Initial Hydrographic Survey	1 20MAR11	20MAR11			ographic Surv																	
1200	Initial Dredging Works for Piling	15 22MAR11	05APR11		💻 Initial 🛙	Dredging Worl	ks for Piling																
1210	Final Hydrographic survey	3 07MAY12			·			+					++++-	Final I							++++		
1220	Final Dredging Works	7 10MAY12												Fina	I Dredg	ing Wor		tion Hydi					
1230	Confirmation Hydrographic survey	70 17MAY12	25JUL12												+ + + +		Jiiiiiia		lographi	c survey			
Piling Wor	N3																						
1240	Submit stage platform MS	30 10FEB11	11MAR11		Submit stage	platform MS																	
1250	Submit piling MS	30 10FEB11	11MAR11		Submit piling	MS																	
P1000	Erect temporary Piling Platform	120 06APR11	03AUG11				Erec	t tempora	ry Piling Pl	atform													
P1020	Pre-drilling	150 06JUN11	02NOV11						P	e-drilling													
P1040	Bored Piles Construction and Testing	250 06JUL11	11MAR12		· - + + + + + + + + + + + + + + + + + +		+-	+++++++++++++++++++++++++++++++++++++++			<u> </u>	and and any local law law law law	the second second	Construct	and and the large large	- ter ter ter af		; ; ; ; ; ;			i i i i i i	+ +	
P1060	Drive Sheet piles along Bored piles	140 03NOV11	21MAR12										1 1 1 1	et piles a									
P1080	Dismantle Temporary Piling Platform	50 25FEB12 90 17JAN12	14APR12											mantle Te									
P1100 P1120	Dive sheet piles beyond precast seawall Trim pilehead to cut-off level	90 17JAN12 210 29SEP11	15APR12 25APR12										<u>tii</u> .	Trim pile	1111								
P1140	Cut steel casing of bore piles	210 293EF11 210 06OCT11	02MAY12										li i i i	Cut stee	and the latest sector of the s	a card							
P1160	Cut sheet piles to design level for box units	120 08JAN12	06MAY12															for box	units		+++-		
Act			Early Finish																				ليتبتني
ID	Description	Orig Early Dur Start	Finish	JAN FEB I	MAR APR	MAY JUN	JUL AUG 2011	SEP	OCT N	OV DEC	JAN	FEB MAR	APR	MAY	JUN 201		AUG	SEP	OCT	NOV	DEC	JAN	FEB MAR F 2013
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Data date 2	19DEC12 20JAN11					G	AMMON-LE	EADER .	v							Works	Schedu	le of Ma	rine Wor	rks for		Progress Critical b	
	05MAR11																		EP-356	/2009		Summar	y bar
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vity ID	Activity Name	Rem	Start	Finish	2012			2013
		Dur			24	January 31 07 14	21 2	February 28 04 11 18 25
BMRP - Jan 2	2013 to Apr 2013							
02 - PRE-CON	ISTRUCTION WORKS							
02.2 - Contracto	or's Submission							
0220-1360	Tunnel Structures Materials - Submission	12	19-Jul-12 A	31-Jan-13				Tunnel Structures Materials - Submissio
0220-1370	Tunnel Structures Materials - ER Review/Comment	28	01-Feb-13	28-Feb-13				
0220-1380	Tunnel Structures Materials - Resubmission	14	01-Mar-13	14-Mar-13				•
0220-1390	Tunnel Structures Materials - ER Approval	21	15-Mar-13	04-Apr-13				
0220-1500	Bridge Bearing - Procurement & Delivery (D8/D9/D10)	18	24-Sep-12 A	06-Feb-13				Bridge Bearing - Procurement &
0220-1400	Tunnel Structures Materials - Procurement & Delivery	60	05-Apr-13	03-Jun-13				
02.3 - Method St	tatement / Shop Drawings							
0230-1280	MS Cut & Cover Tunnel ELS - Resubmission	12	13-Jul-12 A	31-Jan-13				MS Cut & Cover Tunnel ELS - Resubmis
0230-1290	MS Cut & Cover Tunnel ELS - ER Approval	12	07-Aug-12 A	12-Feb-13				MS Cut & Cover Tunne
0230-1350	MS Pre-cast Segment Launching - ER Review & Comment	9	20-Sep-12 A	28-Jan-13			M	S Pre-cast Segment Launching - ER Revie
0230-1360	MS Pre-cast Segment Launching - Resubmission	28	29-Jan-13	25-Feb-13			-	MS I
0230-1370	MS Pre-cast Segment Launching - ER Approval	28	26-Feb-13	25-Mar-13	-			
0230-1480	MS Stressing Tendons - Resubmission	9	08-Aug-12 A	28-Jan-13			M	S Stressing Tendons - Resubmission
0230-1490	MS Stressing Tendons - ER Approval	28	29-Jan-13	25-Feb-13				MSS
0230-1580	MS Interim & Permanent Noise Semi Enclosure - Submission	28	04-Mar-13*	31-Mar-13				
0230-1590	MS Interim & Permanent Noise Semi Enclosure - ER Review & Comment	28	01-Apr-13	28-Apr-13	-			
0230-1320	MS Pre-casting Beam - Resubmission	12	03-Dec-12 A	31-Jan-13				MS Pre-casting Beam - Resubmission
0230-1330	MS Pre-casting Beam - ER Approval	21	01-Feb-13	21-Feb-13				MS Pre-ça
0230-1740	MS Temporary Bridge TB & TC - Submission	28	30-Mar-13	26-Apr-13				
	r's Design and Build Items							
0240-1010	Temp Bridge "TA" Design - Prep & Submit	36	16-Dec-11 A	24-Feb-13				Тетр
0240-1020	Temp Bridge "TA" Design - ER review and comment	28	25-Feb-13	24-Mar-13	-			
0240-1030	Temp Bridge "TA" Design - Resubmission	45	25-Mar-13	08-May-13				
0240-1041	Temp Bridge "TD" Design - Submission	28	04-Feb-13*	03-Mar-13				
0240-1105	Int. Noise Enclosure Structural Design - Submission	60	01-Mar-13*	29-Apr-13				
0240-1126	Noise Barrier Design Structural Design - Submission	60	01-Mar-13*	29 Apr 13	-			
0240-1120	Perm. Noise Enclosure Structural Design - Submission		01-Mar-13					
	v	60		29-Apr-13				
0240-1270	Landscaping Design - Submission	90	01-Mar-13*	29-May-13	-		Cut	& Cover Tunnel ELS Design - ER Review &
0240-1376	Cut & Cover Tunnel ELS Design - ER Review & Resubmission	7	14-Jun-12 A	26-Jan-13	_			Cut & Cover Tunnel ELS L
0240-1377	Cut & Cover Tunnel ELS Design - ER Approval	15	27-Jan-13	10-Feb-13				
0240-1379	Cut & Cover Tunnel ELS Fabrication	60	11-Feb-13	11-Apr-13				
0240-1050	Temp Bridge "TB" & "TC" Design - Prep & Submit	120	01-Mar-13*	28-Jun-13				
0240-1042	Temp Bridge "TD" Design - ER review and comment	28	04-Mar-13	31-Mar-13	-			
0240-1043	Temp Bridge "TD" Design - Resubmission	60	01-Apr-13	30-May-13	-			
02.5 - Bridge Se	gment/Beam Off-site Precasting							
0250-1700.01	Bridge Precast Beam Casting Bridge Beam F5-1	15	14-Jan-13 A	03-Feb-13				Bridge Precast Beam Casting Bridg
0250-1700.02	Bridge Precast Beam Casting Bridge Beam F5-2	9	04-Feb-13	12-Feb-13				Bridge Precast Beam C
0250-1700.03	Bridge Precast Beam Casting Bridge F4 Beam 1-1	6	13-Feb-13	18-Feb-13				Bridge Precast
0250-1700.04	Bridge Precast Beam Casting Bridge F4 Beam 1-2	6	19-Feb-13	24-Feb-13				Bridge
0250-1700.005	Bridge Precast Beam Casting Bridge F4 Beam 2-1	6	25-Feb-13	02-Mar-13				
0250-1700.06	Bridge Precast Beam Casting Bridge F4 Beam 2-2	6	03-Mar-13	08-Mar-13				
Remaining Level	l of Effort			Cont	ract H\	(/2009/19		3MRP
Actual Level of E				Cont	ασιΠ			
Actual Work		Three Mo	onth Rolli	ina Proar	amme	(20 JAN 2013 t	o 19 APF	3 MRP 3MRP
Remaining Work	ς					\		Page 1

Milestone

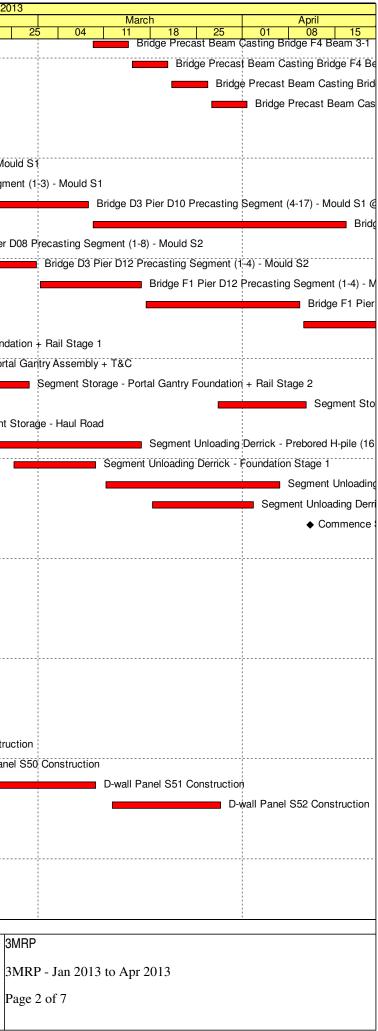
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Activity Name	Rem	Start	Finish	2012	2013
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Bridge Precast Beam Casting Bridge F4 Beam 3-1	6	09-Mar-13	14-Mar-13		
Bridge Precast Beam Casting Bridge F4 Beam 4-1	6	15-Mar-13	20-Mar-13		
Bridge Precast Beam Casting Bridge F4 Beam 5-1	6	21-Mar-13	26-Mar-13	_	
Bridge Precast Beam Casting Bridge F4 Beam 6-1	6	27-Mar-13	01-Apr-13	-	
Bridge D3 Pier D09 Precasting Segment (9-15) - Mould S1	0	06-Dec-12 A	31-Dec-12 A	Bridge D3 Pier D09 Prec	asting Segment (9-15) - Mould S1
Bridge D3 Pier D09 Precasting Segment (16-17) - Mould S1	0	01-Jan-13 A	08-Jan-13 A	1	r D09 Precasting Segment (16-17) - Mould S1
Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S1	0	10-Jan-13 A	19-Jan-13 A		Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S
Bridge D3 Pier D11 Precasting Segment (1-3) - Mould S1	9	20-Jan-13	28-Jan-13		Bridge D3 Pier D11 Precasting Segment
Bridge D3 Pier D10 Precasting Segment (4-17) - Mould S1 @ 3d/segment	39	29-Jan-13	08-Mar-13		
Bridge D3 Pier D11 Precasting Segment (4-17) - Mould S1 @ 3d/segment	39	09-Mar-13	16-Apr-13		
Bridge D3 Pier D08 Precasting Segment (1-8) - Mould S2	24	04-Jan-13 A	12-Feb-13		Bridge D3 Pier D08
Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S2	16	13-Feb-13	28-Feb-13		
Bridge F1 Pier D12 Precasting Segment (1-4) - Mould S2	16	01-Mar-13	16-Mar-13		
Bridge F1 Pier F03 Precasting Segment (1-6) - Mould S2	24	17-Mar-13	09-Apr-13	-	
Bridge F2 Pier F03 Precasting Segment (1-5) - Mould S2	20	10-Apr-13	29-Apr-13	-	
Segment Storage - Portal Gantry Foundation + Rail Stage 1	6	05-Jan-13 A	26-Jan-13		Segment Storage - Portal Gantry Foundatio
Segment Storage - Portal Gantry Assembly + T&C	15	21-Jan-13	06-Feb-13		Segment Storage - Portal G
Segment Storage - Portal Gantry Foundation + Rail Stage 2	9	18-Feb-13	27-Feb-13	-	
Segment Storage - Portal Gantry Foundation + Rail Stage 3	9	28-Mar-13	10-Apr-13	-	
Segment Storage - Haul Road	6	07-Feb-13	16-Feb-13	-	Segment Sto
Segment Unloading Derrick - Prebored H-pile (16 nos.)	45	17-Jan-13 A	16-Mar-13		
Segment Unloading Derrick - Foundation Stage 1	12	25-Feb-13	09-Mar-13		
Segment Unloading Derrick - Assembly + T&C	21	11-Mar-13	06-Apr-13	-	
Segment Unloading Derrick - Foundation Stage 2	12	18-Mar-13	02-Apr-13	-	
Commence Segments Delivery to Site	0	11-Apr-13		-	
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2 & 2A OF THE WORKS					
V 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint)					
V 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint)		26-Nov-12 A	29-Dec-12 A	D-wall Panel N50 Construction	Dn
I 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) onstruction D-wall Panel N50 Construction	0	26-Nov-12 A 31-Dec-12 A	29-Dec-12 A	D-wall Panel N50 Construction	
N 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) construction D-wall Panel N50 Construction D-wall Panel N48 Construction	0	31-Dec-12 A	10-Jan-13 A		el N48 Construction
I 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) onstruction D-wall Panel N50 Construction D-wall Panel N48 Construction D-wall Panel N49 Construction	0	31-Dec-12 A 12-Jan-13 A	10-Jan-13 A 31-Jan-13	D-wall Pane	
N 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) onstruction D-wall Panel N50 Construction D-wall Panel N48 Construction D-wall Panel N49 Construction BC39 Guide Wall	0 10 0	31-Dec-12 A 12-Jan-13 A 22-Dec-12 A	10-Jan-13 A 31-Jan-13 28-Dec-12 A	D-wall Pane BC39 Guide Wall	el N48 Construction
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N 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) onstruction D-wall Panel N50 Construction D-wall Panel N48 Construction D-wall Panel N49 Construction BC39 Guide Wall D-wall Panel S54 Construction Barrette BC39 Grouting for Existing Seawall Rubble Mound D-wall Panel S53 Construction D-wall Panel S53 Construction D-wall Panel S50 Construction D-wall Panel S51 Construction D-wall Panel S52 Construction Barrette BC39 Construction	0 10 0 0 0 1 14 18 18	31-Dec-12 A 12-Jan-13 A 22-Dec-12 A 10-Dec-12 A 29-Dec-12 A 27-Dec-12 A 17-Jan-13 A 23-Jan-13 18-Feb-13	10-Jan-13 A 31-Jan-13 28-Dec-12 A 24-Dec-12 A 03-Jan-13 A 21-Jan-13 05-Feb-13 15-Feb-13 09-Mar-13	D-wall Pane BC39 Guide Wall D-wall Panel S54 Construction	N48 Construction D-wall Panel N49 Construction for Existing Seawall Rubble Mound D-wall Panel S49 Construction D-wall Panel S53 Construction
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N 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) onstruction D-wall Panel N50 Construction D-wall Panel N48 Construction D-wall Panel N49 Construction BC39 Guide Wall D-wall Panel S54 Construction Barrette BC39 Grouting for Existing Seawall Rubble Mound D-wall Panel S54 Construction D-wall Panel S53 Construction D-wall Panel S53 Construction D-wall Panel S51 Construction D-wall Panel S52 Construction Barrette BC39 Construction D-wall Panel S51 Construction D-wall Panel S51 Construction D-wall Panel S52 Construction D-wall Panel S53 Construction D-wall Panel S54 Construction	0 10 0 0 1 1 14 18 18 15 0 0	31-Dec-12 A 12-Jan-13 A 22-Dec-12 A 10-Dec-12 A 29-Dec-12 A 27-Dec-12 A 17-Jan-13 A 23-Jan-13 18-Feb-13 12-Mar-13 04-Jan-13 A	10-Jan-13 A 31-Jan-13 28-Dec-12 A 24-Dec-12 A 03-Jan-13 A 21-Jan-13 05-Feb-13 15-Feb-13 09-Mar-13 28-Mar-13 19-Jan-13 A	D-wall Panel D-wall Panel S54 Construction Barrette BC39 Grouti	And Servette BC39 Construction
N 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) onstruction D-wall Panel N50 Construction D-wall Panel N48 Construction D-wall Panel N48 Construction BC39 Guide Wall D-wall Panel S54 Construction Barrette BC39 Grouting for Existing Seawall Rubble Mound D-wall Panel S49 Construction D-wall Panel S53 Construction D-wall Panel S50 Construction D-wall Panel S50 Construction D-wall Panel S50 Construction D-wall Panel S50 Construction D-wall Panel S51 Construction D-wall Panel S52 Construction Barrette BC39 Construction D-wall Panel S51 Construction D-wall Panel S52 Construction D-wall Panel S52 Construction D-wall Panel S53 Construction	0 10 0 0 1 1 14 18 18 18 15 0	31-Dec-12 A 12-Jan-13 A 22-Dec-12 A 10-Dec-12 A 29-Dec-12 A 27-Dec-12 A 17-Jan-13 A 23-Jan-13 18-Feb-13 12-Mar-13 04-Jan-13 A	10-Jan-13 A 31-Jan-13 28-Dec-12 A 24-Dec-12 A 03-Jan-13 A 21-Jan-13 05-Feb-13 15-Feb-13 09-Mar-13 28-Mar-13 19-Jan-13 A	D-wall Panel D-wall Panel S54 Construction Barrette BC39 Grouti	Ing for Existing Seawall Rubble Mound D-wall Panel S49 Construction D-wall Panel S49 Construction D-wall Panel S53 Construction D-wall Panel S53 Barrette BC39 Construction
N 2 & 2A OF THE WORKS ver Tunnel Ch 4855-4932 (APS Footprint) onstruction D-wall Panel N50 Construction D-wall Panel N48 Construction D-wall Panel N49 Construction BC39 Guide Wall D-wall Panel S54 Construction Barrette BC39 Grouting for Existing Seawall Rubble Mound D-wall Panel S54 Construction D-wall Panel S53 Construction D-wall Panel S53 Construction D-wall Panel S51 Construction D-wall Panel S52 Construction Barrette BC39 Construction D-wall Panel S51 Construction D-wall Panel S51 Construction D-wall Panel S52 Construction D-wall Panel S53 Construction D-wall Panel S54 Construction	0 10 0 0 1 1 14 18 18 15 0 0	31-Dec-12 A 12-Jan-13 A 22-Dec-12 A 10-Dec-12 A 29-Dec-12 A 27-Dec-12 A 17-Jan-13 A 23-Jan-13 18-Feb-13 12-Mar-13 04-Jan-13 A	10-Jan-13 A 31-Jan-13 28-Dec-12 A 24-Dec-12 A 03-Jan-13 A 21-Jan-13 05-Feb-13 15-Feb-13 09-Mar-13 28-Mar-13 19-Jan-13 A 07-Jan-13 A 22-Jan-13	D-wall Panel D-wall Panel S54 Construction Barrette BC39 Grouti	And Servette BC39 Construction
	Bridge Precast Beam Casting Bridge F4 Beam 4-1Bridge Precast Beam Casting Bridge F4 Beam 5-1Bridge Precast Beam Casting Bridge F4 Beam 6-1Bridge D3 Pier D09 Precasting Segment (9-15) - Mould S1Bridge D3 Pier D09 Precasting Segment (16-17) - Mould S1Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S1Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S1Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S1Bridge D3 Pier D10 Precasting Segment (4-17) - Mould S1 @ 3d/segmentBridge D3 Pier D10 Precasting Segment (4-17) - Mould S1 @ 3d/segmentBridge D3 Pier D11 Precasting Segment (1-8) - Mould S1 @ 3d/segmentBridge D3 Pier D12 Precasting Segment (1-4) - Mould S2Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S2Bridge F1 Pier D12 Precasting Segment (1-4) - Mould S2Bridge F2 Pier F03 Precasting Segment (1-5) - Mould S2Segment Storage - Portal Gantry Foundation + Rail Stage 1Segment Storage - Portal Gantry Foundation + Rail Stage 2Segment Storage - Portal Gantry Foundation + Rail Stage 3Segment Storage - Portal Gantry Foundation + Rail Stage 3Segment Unloading Derrick - Prebored H-pile (16 nos.)Segment Unloading Derrick - Prebored H-pile (16 nos.)Segment Unloading Derrick - Foundation Stage 1Segment Unloading Derrick - Assembly + T&C	Bridge Precast Beam Casting Bridge F4 Beam 3-16Bridge Precast Beam Casting Bridge F4 Beam 3-16Bridge Precast Beam Casting Bridge F4 Beam 5-16Bridge Precast Beam Casting Bridge F4 Beam 6-16Bridge D3 Pier D09 Precasting Segment (9-15) - Mould S10Bridge D3 Pier D09 Precasting Segment (16-17) - Mould S10Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S10Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S19Bridge D3 Pier D10 Precasting Segment (4-17) - Mould S1 @ 3d/segment39Bridge D3 Pier D11 Precasting Segment (4-17) - Mould S1 @ 3d/segment39Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S224Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S216Bridge F1 Pier D12 Precasting Segment (1-4) - Mould S216Bridge F2 Pier F03 Precasting Segment (1-6) - Mould S224Bridge F2 Pier F03 Precasting Segment (1-6) - Mould S220Segment Storage - Portal Gantry Foundation + Rail Stage 16Segment Storage - Portal Gantry Foundation + Rail Stage 29Segment Storage - Portal Gantry Foundation + Rail Stage 39Segment Unloading Derrick - Prebored H-pile (16 nos.)45Segment Unloading Derrick - Seembly + T&C21Segment Unloading Derrick - Kasembly + T&C21Segment Unloading Derrick - Foundation Stage 212	Bridge Precast Beam Casting Bridge F4 Beam 3-1609-Mar-13Bridge Precast Beam Casting Bridge F4 Beam 4-1615-Mar-13Bridge Precast Beam Casting Bridge F4 Beam 5-1621-Mar-13Bridge Precast Beam Casting Bridge F4 Beam 6-1627-Mar-13Bridge D3 Pier D09 Precasting Segment (9-15) - Mould S1006-Dec-12 ABridge D3 Pier D09 Precasting Segment (16-17) - Mould S1001-Jan-13 ABridge D3 Pier D10 Precasting Segment (1-3) - Mould S1010-Jan-13 ABridge D3 Pier D10 Precasting Segment (1-3) - Mould S1010-Jan-13 ABridge D3 Pier D10 Precasting Segment (1-3) - Mould S1920-Jan-13Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S1920-Jan-13Bridge D3 Pier D10 Precasting Segment (4-17) - Mould S1 @ 3d/segment3929-Jan-13Bridge D3 Pier D11 Precasting Segment (4-17) - Mould S1 @ 3d/segment3909-Mar-13Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S21613-Feb-13Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S21601-Mar-13Bridge F1 Pier D12 Precasting Segment (1-4) - Mould S21601-Mar-13Bridge F1 Pier F03 Precasting Segment (1-5) - Mould S22010-Apr-13Segment Storage - Portal Gantry Foundation + Rail Stage 1605-Jan-13 ASegment Storage - Portal Gantry Foundation + Rail Stage 2918-Feb-13Segment Storage - Portal Gantry Foundation + Rail Stage 3928-Mar-13Segment Unloading Derrick - Prebored H-pile (16 nos.)4517-Jan-13 ASegm	Bridge Precast Beam Casting Bridge F4 Beam 3-1 6 09-Mar-13 14-Mar-13 Bridge Precast Beam Casting Bridge F4 Beam 4-1 6 15-Mar-13 20-Mar-13 Bridge Precast Beam Casting Bridge F4 Beam 5-1 6 21-Mar-13 26-Mar-13 Bridge Precast Beam Casting Bridge F4 Beam 6-1 6 27-Mar-13 01-Apr-13 Bridge D3 Pier D09 Precasting Segment (9-15) - Mould S1 0 06-Dec-12 A 31-Dec-12 A Bridge D3 Pier D09 Precasting Segment (16-17) - Mould S1 0 0 01-Jan-13 A 08-Jan-13 A Bridge D3 Pier D10 Precasting Segment (1-3) - Mould S1 0 0 10-Jan-13 A 19-Jan-13 A Bridge D3 Pier D10 Precasting Segment (4-17) - Mould S1 9 20-Jan-13 28-Jan-13 Bridge D3 Pier D10 Precasting Segment (4-17) - Mould S1 @ 3d/segment 39 09-Mar-13 16-Apr-13 Bridge D3 Pier D11 Precasting Segment (4-17) - Mould S2 24 04-Jan-13 A 12-Feb-13 Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S2 16 13-Feb-13 28-Feb-13 Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S2 16 01-Mar-13 16-Mar-13 Bridge D3 Pi	Bridge Precast Beam Casting Bridge F4 Beam 3-1 6 09-Mar-13 14-Mar-13 24 31 07 14- Bridge Precast Beam Casting Bridge F4 Beam 3-1 6 09-Mar-13 20-Mar-13 20-Mar-13 20-Mar-13 20-Mar-13 20-Mar-13 20-Mar-13 20-Mar-13 26-Mar-13 01-Apr-13 26-Mar-13 01-Apr-13 01

Milestone

Critical Remaining Work

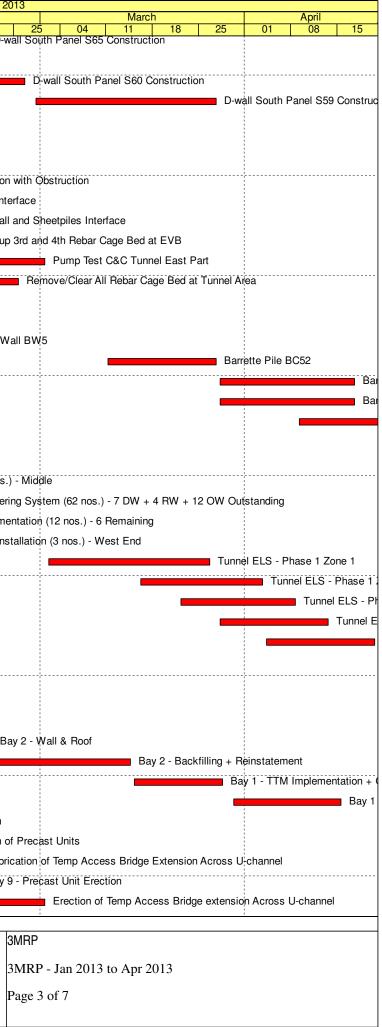


tivity ID	Activity Name	Rem	Start	Finish	2012		2013 February
		Dur			24	January 31 07 14	February [21 28 04 11 18 25
0521-1990.67	D-wall South Panel S65 Construction	21	24-Jan-13	20-Feb-13			D-wall Sout
0521-1990.72	D-wall South Panel S58 Construction	5	18-Dec-12 A	25-Jan-13			D-wall South Panel S58 Construction
0521-1990.73	D-wall South Panel S60 Construction	24	26-Jan-13	26-Feb-13			D-v
0521-1990.74	D-wall South Panel S59 Construction	24	28-Feb-13	27-Mar-13			•
0521-1710.35	D-wall Panel S94 Construction	0	13-Dec-12 A	27-Dec-12 A	D-wall	Panel S94 Construction	
0521-1990.17	D-wall South Panel S99 Construction	0	21-Dec-12 A	05-Jan-13 A		D-wall South Panel	S99 Construction
0521-1990.30	D-wall South Panel N92 Construction	0	31-Dec-12 A	15-Jan-13 A		D-wa	South Panel N92 Construction
0521-1945	Sheet Pile + Pre-boring for Section with Obstruction	8	17-Jan-13 A	29-Jan-13			Sheet Pile + Pre-boring for Section with Ot
0521-2185	Grouting South Dwall and Sheetpiles Interface	5	09-Jan-13 A	25-Jan-13	_		Grouting South Dwall and Sheetpiles Interface
0521-1946	Grouting North Dwall and Sheetpiles Interface	9	30-Jan-13	08-Feb-13			Grouting North Dwall and Sh
0521-2195	Set-up 3rd and 4th Rebar Cage Bed at EVB	12	01-Feb-13	18-Feb-13			Set-up 3rd and
0521-2175	Pump Test C&C Tunnel East Part	14	14-Feb-13	01-Mar-13			
0521-2205	Remove/Clear All Rebar Cage Bed at Tunnel Area	6	19-Feb-13	25-Feb-13			Rem
05.2.2 - Barrette C	Construction						
0522-2215.10	Bulkhead Wall BW1	0	27-Nov-12 A	31-Dec-12 A		Bulkhead Wall BW1	
0522-2215.20	Bulkhead Wall BW5	15	25-Jan-13	14-Feb-13			Bulkhead Wall BW5
0522-2210.52	Barrette Pile BC52	15	11-Mar-13	27-Mar-13			
0522-2210.50	Barrette Pile BC50	15	28-Mar-13	17-Apr-13			
0522-2210.81	Barrette Pile BC40	15	28-Mar-13	17-Apr-13	_		
0522-2210.82	Barrette Pile BC43	15	09-Apr-13	25-Apr-13	_		
05.2.3 - ELS							
0524-2872	King Post Installation (3 nos.) - East End	0	20-Dec-12 A	19-Jan-13 A			King Post Installation (3 nos.) - East End
0524-2873	King Post Installation (3 nos.) - Middle	12	09-Jan-13 A	02-Feb-13			King Post Installation (3 nos.) - Middl
0524-2877	ELS Dewatering System (62 nos.) - 7 DW + 4 RW + 12 OW Outstanding	18	03-Dec-12 A	13-Feb-13			ELS Dewatering Syst
0524-2878	ELS Instrumentation (12 nos.) - 6 Remaining	18	05-Nov-12 A	13-Feb-13			ELS Instrumentation
0524-2874	King Post Installation (3 nos.) - West End	12	28-Jan-13	13-Feb-13	-		King Post Installation
0524-2881	Tunnel ELS - Phase 1 Zone 1	21	02-Mar-13	26-Mar-13	-		
0524-2882	Tunnel ELS - Phase 1 Zone 2	14	16-Mar-13	03-Apr-13			
0524-2883	Tunnel ELS - Phase 1 Zone 3	12	22-Mar-13	08-Apr-13	-		
0524-2884	Tunnel ELS - Phase 1 Zone 4	12	28-Mar-13	13-Apr-13	-		
0524-2885	Tunnel ELS - Phase 1 Zone 5	14	04-Apr-13	20-Apr-13	_		
05.3 - Box Culve	ert T1			·			
0530-3065	Bay 2 - Install Sheet Piles	0	13-Nov-12 A	31-Dec-12 A		Bay 2 - Install Sheet Piles	
0530-3071	Bay 2 - ELS + Blinding	7	12-Jan-13 A	28-Jan-13	-		Bay 2 - ELS + Blinding
0530-3072	Bay 2 - Base Slab	6	29-Jan-13	04-Feb-13	-		Bay 2 - Base Slab
0530-3073	Bay 2 - Wall & Roof	12	05-Feb-13	21-Feb-13	-		Bay 2 - W
0530-3074	Bay 2 - Backfilling + Reinstatement	18	22-Feb-13	14-Mar-13	-		
0530-3076	Bay 1 - TTM Implementation + Clearance	10	15-Mar-13	28-Mar-13			
0530-3077	Bay 1 - Install Sheet Piles	12	30-Mar-13	15-Apr-13	-		
0530-3112	Bay 9 - Excavation	17	12-Dec-12 A	08-Feb-13			Bay 9 - Excavation
0530-3113	Bay 9 - Fabrication of Precast Units	17	26-Nov-12 A	08-Feb-13			Bay 9 - Fabrication of Precas
0530-3117	Fabrication of Temp Access Bridge Extension Across U-channel	17	02-Feb-13	19-Feb-13	_		Fabrication o
0530-3114	Bay 9 - Precast Unit Erection	6	13-Feb-13	19-Feb-13			Bay 9 - Preça
0530-3114	Erection of Temp Access Bridge extension Across U-channel	9	20-Feb-13	01-Mar-13	-		
	LICENSI OF TEMP ACCESS DITUGE EXTENSION ACTOSS O-CITATINE	9	20-1-60-13	01-1VIAI-13			
Remaining Level	l of Effort			Cant	raat UV	/2000/10	SMRP
Remaining Level Actual Level of E				Cont	ract HY	/2009/19	3MRP 3MRP

Remaining Work

Critical Remaining Work

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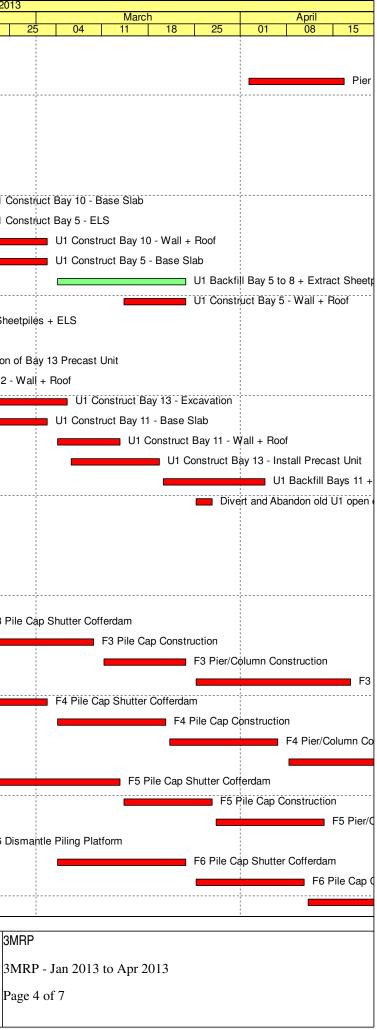


vity ID	Activity Name	Rem	Start	Finish	2012		2013 Eshmani
		Dur			January 24 31 07 14	21 20	February 3 04 11 18
06 - SECTIO	N 3 OF THE WORKS						
6.1 - Westbo	und - Pier 29-34						
0610-2110	Pier 29 Pre-drilling at Portion VB (4 nos)	12	02-Apr-13*	16-Apr-13			
6.2 - Box Cul	vert U1						
0620-2425	U1 Construct Bay 8 - Wall + Roof	0	28-Dec-12 A	04-Jan-13 A	U1 Construct Bay 8		
620-2475	U1 Construct Bay 9 - Wall + Roof	0	17-Dec-12 A	27-Dec-12 A	U1 Construct Bay 9 - Wall + R		
0620-2415	U1 Construct Bay 7 - Wall + Roof	8	19-Jan-13 A	29-Jan-13			1 Construct Bay 7 - Wall + Roof
620-2405	U1 Construct Bay 6 - Wall + Roof	0	07-Jan-13 A	18-Jan-13 A		U1 Construct Bay	
0620-2460	U1 Construct Bay 10 - Base Slab	9	07-Feb-13	20-Feb-13			U1 Co
620-2467	U1 Construct Bay 5 - ELS	9	07-Feb-13	20-Feb-13			U1 Co
620-2465	U1 Construct Bay 10 - Wall + Roof	9	21-Feb-13	02-Mar-13			
620-2468	U1 Construct Bay 5 - Base Slab	9	21-Feb-13	02-Mar-13			
620-2440	U1 Backfill Bay 5 to 8 + Extract Sheetpiles	18	04-Mar-13	23-Mar-13			
620-2469	U1 Construct Bay 5 - Wall + Roof	9	14-Mar-13	23-Mar-13			
620-2480	U1 Bay 10 + 11 + 12 Sheetpiles + ELS	15	07-Nov-12 A	06-Feb-13			U1 Bay 10 + 11 + 12 Shee
620-2490	U1 Construct Bay 12 - Base Slab	6	15-Jan-13 A	26-Jan-13		U1 Ca	nstruct Bay 12 - Base Slab
620-2515	U1 Fabrication of Bay 13 Precast Unit	18	05-Nov-12 A	13-Feb-13			U1 Fabrication o
620-2495	U1 Construct Bay 12 - Wall + Roof	9	30-Jan-13	08-Feb-13			U1 Construct Bay 12 - V
620-2520	U1 Construct Bay 13 - Excavation	18	13-Feb-13	05-Mar-13			
620-2500	U1 Construct Bay 11 - Base Slab	9	21-Feb-13	02-Mar-13			
20-2505	U1 Construct Bay 11 - Wall + Roof	9	04-Mar-13	13-Mar-13			
620-2530	U1 Construct Bay 13 - Install Precast Unit	12	06-Mar-13	19-Mar-13			
620-2510	U1 Backfill Bays 11 + 12 + 13	12	20-Mar-13	04-Apr-13			
620-2380	Divert and Abandon old U1 open channel at VB & III	3	25-Mar-13	27-Mar-13			
- SECTIO	N X OF THE WORKS						
).1 - E/B Bric	lges (Bridge D, E and F)						
0.1.1 - Marine	Pier Construction						
Pier F03 to F1	5						
1011-1995	Fabrication of Marine Pile Cap Cofferdam	0	04-Oct-12 A	11-Jan-13 A	Fabricatio	on of Marine Pile (
1011-2150	F3 Pile Cap Shutter Cofferdam	18	28-Jan-13	20-Feb-13			F3 Pile
1011-2155	F3 Pile Cap Construction	15	21-Feb-13	09-Mar-13			
1011-2160	F3 Pier/Column Construction	12	11-Mar-13	23-Mar-13			
1011-2170	F3 Crosshead Construction	18	25-Mar-13	17-Apr-13			
1011-2180	F4 Pile Cap Shutter Cofferdam	18	07-Feb-13	02-Mar-13			
1011-2185	F4 Pile Cap Construction	15	04-Mar-13	20-Mar-13			
1011-2190	F4 Pier/Column Construction	12	21-Mar-13	06-Apr-13			
1011-2200	F4 Crosshead Construction	18	08-Apr-13	27-Apr-13			
1011-2210	F5 Pile Cap Shutter Cofferdam	18	21-Feb-13	13-Mar-13			
1011-2215	F5 Pile Cap Construction	12	14-Mar-13	27-Mar-13			
1011-2220	F5 Pier/Column Construction	12	28-Mar-13	13-Apr-13	1		
1011-2020	F6 Dismantle Piling Platform	12	04-Feb-13*	20-Feb-13			F6 Dis
1011-2240	F6 Pile Cap Shutter Cofferdam	18	04-Mar-13	23-Mar-13			
1011-2245	F6 Pile Cap Construction	12	25-Mar-13	10-Apr-13			
1011-2250	F6 Pier/Column Construction	12	11-Apr-13	24-Apr-13			
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Remaining Le				Cont	ract HY/2009/19		3M
 Actual Level of Actual Work 	DT ETTORT	-				- 40 455	3M
Remaining W	ork	Inree M	onth Roll	ing Progr	amme (20 JAN 2013 1	0 19 APR	2013)
							Pa

	Actual Work
	Romaining Work

Remaining Work Critical Remaining Work

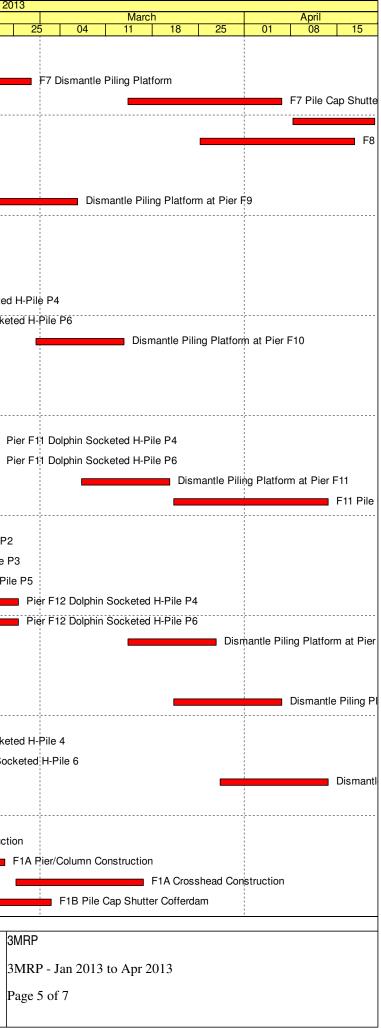
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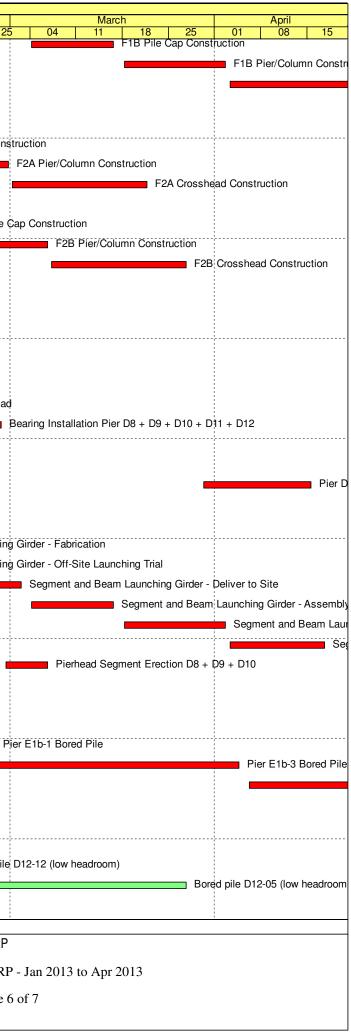
vity ID	Activity Name	Rem	Start	Finish	2012				2013
		Dur			24	31	Januar 07 14	y 21	February 28 04 11 18
1011-1910.50	Pier F7 Dolphin Socketed H-Pile 4	0	19-Nov-12 A	31-Dec-12 A		Pier F7	Dolphin Sockete		
1011-1910.60	Pier F7 Dolphin Socketed H-Pile 6	0	19-Nov-12 A	28-Dec-12 A	Pier	F7 Dolp	hin Socketed H-I	Pile 6	
1011-2030	F7 Dismantle Piling Platform	12	14-Feb-13	27-Feb-13					
1011-2270	F7 Pile Cap Shutter Cofferdam	18	14-Mar-13	06-Apr-13					
1011-2275	F7 Pile Cap Construction	12	08-Apr-13	20-Apr-13					
1011-2300	F8 Pile Cap Shutter Cofferdam	18	25-Mar-13	17-Apr-13					
1011-0802.4	Pier F9 Dolphin Socketed H-Pile P4	0	04-Dec-12 A	10-Jan-13 A			Pier F9 Do	Iphin Socketed	H-Pile P4
1011-0802.6	Pier F9 Dolphin Socketed H-Pile P6	0	04-Dec-12 A	12-Jan-13 A			Pier F9	Dolphin Socket	ed H-Pile P6
1011-2050	Dismantle Piling Platform at Pier F9	12	21-Feb-13	06-Mar-13					
1011-1970.1	Pier F10 Dolphin Socketed H-Pile P1	0	15-Nov-12 A	03-Jan-13 A		Pie	F10 Dolphin So	cketed H-Pile P	1
1011-1970.2	Pier F10 Dolphin Socketed H-Pile P2	0	15-Nov-12 A	05-Jan-13 A		F	Pier F10 Dolphin	Socketed H-Pile	P2
1011-1970.3	Pier F10 Dolphin Socketed H-Pile P3	0	15-Nov-12 A	07-Jan-13 A		 	Pier F10 Dolph	in Socketed H-F	Pile P3
1011-1970.4	Pier F10 Dolphin Socketed H-Pile P5	0	15-Nov-12 A	11-Jan-13 A		·	Pier F10	Dolphin Sockete	ed H-Pile P5
1011-1970.5	Pier F10 Dolphin Socketed H-Pile P4	13	15-Jan-13 A	04-Feb-13					Pier F10 Dolphin Socketed H-I
1011-1970.6	Pier F10 Dolphin Socketed H-Pile P6	15	15-Jan-13 A	06-Feb-13					Pier F10 Dolphin Socketed
1011-2060	Dismantle Piling Platform at Pier F10	12	28-Feb-13	13-Mar-13					
1011-1770.1	Pier F11 Dolphin Socketed H-Pile P1	0	23-Nov-12 A	17-Jan-13 A				Pier F11 Dolphin	Socketed H-Pile P1
1011-1770.2	Pier F11 Dolphin Socketed H-Pile P2	0	23-Nov-12 A	14-Jan-13 A			Pier	F11 Dolphin Soc	cketed H-Pile P2
1011-1770.3	Pier F11 Dolphin Socketed H-Pile P3	0	23-Nov-12 A	15-Jan-13 A			Pie	r F11 Dolphin So	ocketed H-Pile P3
1011-1770.4	Pier F11 Dolphin Socketed H-Pile P5	0	23-Nov-12 A	16-Jan-13 A			Pi	er F11 Dolphin S	Socketed H-Pile P5
1011-1770.5	Pier F11 Dolphin Socketed H-Pile P4	21	26-Jan-13	22-Feb-13					Pier
1011-1770.6	Pier F11 Dolphin Socketed H-Pile P6	21	26-Jan-13	22-Feb-13		1 1 1 1		_	Pier
1011-2070	Dismantle Piling Platform at Pier F11	12	07-Mar-13	20-Mar-13		- - - -			
1011-2350	F11 Pile Cap Construction	18	21-Mar-13	13-Apr-13		1 1 1 1			
1011-1822.1	Pier F12 Dolphin Socketed H-Pile P1	5	04-Jan-13 A	25-Jan-13				Pier	r F12 Dolphin Socketed H-Pile P1
1011-1822.2	Pier F12 Dolphin Socketed H-Pile P2	7	04-Jan-13 A	28-Jan-13					Pier F12 Dolphin Socketed H-Pile P2
1011-1822.3	Pier F12 Dolphin Socketed H-Pile P3	8	04-Jan-13 A	29-Jan-13					Pier F12 Dolphin Socketed H-Pile P3
1011-1822.4	Pier F12 Dolphin Socketed H-Pile P5	10	04-Jan-13 A	31-Jan-13					Pier F12 Dolphin Socketed H-Pile P
1011-1822.5	Pier F12 Dolphin Socketed H-Pile P4	18	01-Feb-13	25-Feb-13		1 1 1 1			
1011-1822.6	Pier F12 Dolphin Socketed H-Pile P6	18	01-Feb-13	25-Feb-13					
1011-2075	Dismantle Piling Platform at Pier F12	12	14-Mar-13	27-Mar-13					
1011-1890.50	Pier F13 Dolphin Socketed H-Pile 4	3	31-Dec-12 A	23-Jan-13				Pier F1	13 Dolphin Socketed H-Pile 4
1011-1890.60	Pier F13 Dolphin Socketed H-Pile 6	5	31-Dec-12 A	25-Jan-13				Pier	r F13 Dolphin Socketed H-Pile 6
1011-2080	Dismantle Piling Platform at Pier F13	12	21-Mar-13	06-Apr-13					
1011-2145	Marine bored pile testing F14	0	24-Sep-12 A	31-Dec-12 A		Marine	bored pile testing	g F14	
1011-1782.50	Pier F14 Dolphin Socketed H-Pile 4	15	17-Jan-13 A	06-Feb-13					Pier F14 Dolphin Socketed
1011-1782.60	Pier F14 Dolphin Socketed H-Pile 6	17	17-Jan-13 A	08-Feb-13					Pier F14 Dolphin Socket
1011-2085	Dismantle Piling Platform at Pier F14	12	28-Mar-13	13-Apr-13					
Pier F01 to F02		12	20-Iviai-15	13-401-13		, , , ,			
1011-2860	F1A Pile Cap Shutter Cofferdam	3	03-Jan-13 A	23-Jan-13				F1A Pi	le Çap Shutter Cofferdam
1011-2865	F1A Pile Cap Construction	12	24-Jan-13	06-Feb-13				<u> </u>	F1A Pile Cap Construction
1011-2805	F1A Pier/Column Construction	12	07-Feb-13	23-Feb-13		- - - -			F1/
1011-2880	FTA Fiel/Column Construction	12	25-Feb-13	16-Mar-13					
1011-2890	F1B Pile Cap Shutter Cofferdam	18	07-Feb-13	02-Mar-13					
1011-2030		10		02-1viai-13		1		1	
Remaining Level	of Effort			Cont	ract HY	/200	0/10		3MF
Actual Level of E				COIII	αυιΠΙ	/200	5/13		
Actual Work	— т	hree M	onth Rolli	ina Proar	amme	(20.1	AN 2013	to 19 ΔΡ	B 2013)

	Remaining Work

- Critical Remaining Work ٠
- Milestone



tivity ID	Activity Name	Rem	Start	Finish	2012			January				February	2013
		Dur			24	31	07	14	21	28	04	11	18 2
1011-2895	F1B Pile Cap Construction	12	04-Mar-13	16-Mar-13	_								
1011-2900	F1B Pier/Column Construction	12	18-Mar-13	02-Apr-13	_								
1011-2910	F1B Crosshead Construction	18	03-Apr-13	24-Apr-13									
1011-2955	F2 Dismantle Piling Platform	0	14-Dec-12 A	27-Dec-12 A	F2	Dismant	le Piling P	latform					
1011-2800	F2A Pile Cap Shutter Cofferdam	7	10-Jan-13 A	28-Jan-13						F2A Pile C			
1011-2805	F2A Pile Cap Construction	12	29-Jan-13	14-Feb-13	-							F2A	A Pile Cap Cor
1011-2810	F2A Pier/Column Construction	12	15-Feb-13	28-Feb-13									
1011-2820	F2A Crosshead Construction	18	01-Mar-13	21-Mar-13									
1011-2830	F2B Pile Cap Shutter Cofferdam	12	17-Jan-13 A	02-Feb-13						F2	B Pile C	ap Shutter	er Cofferdam
1011-2835	F2B Pile Cap Construction	12	04-Feb-13	20-Feb-13									F2B Pile
1011-2840	F2B Pier/Column Construction	12	21-Feb-13	06-Mar-13									
1011-2850	F2B Crosshead Construction	18	07-Mar-13	27-Mar-13									
10.1.2 - Land Pie	er Construction												
Abutment D12													
1012-1220	Abutment D12 construction (E/B Bridge)	0	03-Oct-12 A	29-Dec-12 A	/	Abutmen	t D12 cons	struction	(E/B Bridge)				
Pier D08 to D11													
1012-1100	Pier D08 Construct Pile Cap	0	17-Sep-12 A	03-Jan-13 A		Pie	er D08 Cor						
1012-1110	Pier D08 Construct Pier/Column	0	05-Jan-13 A	12-Jan-13 A				Pier D08	Construct Pie	er/Column			
1012-1120	Pier D08 Construct Crosshead	15	21-Jan-13	06-Feb-13							Pier I	208 Const	truct Crosshea
1012-1125	Bearing Installation Pier D8 + D9 + D10 + D11 + D12	15	07-Feb-13	27-Feb-13	-								
1012-1180	Pier D10 Construct Crosshead	0	20-Dec-12 A	12-Jan-13 A				Pier D10	Construct Cro	osshead			
Pier D05 to D07													
1012-1290.20	Pier D05 Bored Pile D05-1	12	30-Mar-13	15-Apr-13									
10.1.3 - E/B Brid	ge Construction												
Bridge D3													
1013-1010	Segment and Beam Launching Girder - Fabrication	15	05-Nov-12 A	06-Feb-13							Segn	ient and B	Beam Launchii
1013-1012	Segment and Beam Launching Girder - Off-Site Launching Trial	10	26-Jan-13	06-Feb-13					-		Segn	nent and B	Beam Launchii
1013-1015	Segment and Beam Launching Girder - Deliver to Site	18	07-Feb-13	02-Mar-13									
1013-1020	Segment and Beam Launching Girder - Assembly	12	04-Mar-13	16-Mar-13	-								
1013-1025	Segment and Beam Launching Girder - Erection	12	18-Mar-13	02-Apr-13	-								
1013-1030	Segment and Beam Launching Girder - Load Test	12	03-Apr-13	17-Apr-13									
1013-1760	Pierhead Segment Erection D8 + D9 + D10	6	28-Feb-13	06-Mar-13	-								
10.1.4 - Bridge E	/ Hing Fat Slip Road			1									
Pier Constructi	on												
1014-1010	Pier E1b-4 Bored Pile	11	12-Jan-13 A	01-Feb-13						Pier	E1b-4 E	Bored Pile	
1014-1220	Pier E1b-1 Bored Pile	18	02-Feb-13	26-Feb-13									
1014-1230	Pier E1b-3 Bored Pile	30	27-Feb-13	04-Apr-13									
1014-1240	Pier E1b-2 Bored Pile	30	06-Apr-13	11-May-13	-								
10.3 - Middle B	ridge (Bridge F)												
10.3.1 - Pier Cor	istruction												
Abutment D12				_					-				
1031-1053	Bored pile D12-12 (low headroom)	24	14-Jan-13 A	20-Feb-13									Bored pil
1031-1055	Bored pile D12-05 (low headroom)	30	21-Feb-13	27-Mar-13									
10.6 - Tunnel A	pproach Ramp												
					L				<u> </u>	i			
Remaining Lev	el of Effort			Cont	ract H	//200	9/19						3MRF
Actual Level of	Effort	_	_					_					3MR
Actual Work Remaining Wor	rk	Three Mo	onth Roll	ing Progr	amme	(20 、	JAN 2	013 1	to 19 AF	PR 201	3)		
Critical Remain													Page
 Milestone 													



tivity ID	Activity Name	Rem	Start	Finish	2012								201	3							
· · ·		Dur						January				Febru	ary			Marc	h			April	
					24	31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15
10.6.1 - Approa	ch Ramp (Excluding Portion IIB)										-										
Bored Piles																					
1061-1051	Bored Pile Ramp - BN42	0	10-Dec-12 A	02-Jan-13 A		Bor	ed Pile Rar	np - BN4	2												
1061-1490	Bored Pile Ramp - BN40	0	03-Jan-13 A	12-Jan-13 A				Bored Pile	e Ramp - BN₄	40											
1061-1500	Bored Pile Ramp - BN41	4	14-Jan-13 A	24-Jan-13			I		Bore	ed Pile	Ramp - BN	V 41									
1061-1510	Bored Pile Ramp - BN44	15	25-Jan-13	14-Feb-13									Bored Pile Ra								
1061-1520	Bored Pile Ramp - BN01	15	15-Feb-13	04-Mar-13											Bored	Pile Ramp	- BN01				
1061-1530	Bored Pile Ramp - BN02	15	05-Mar-13	21-Mar-13													Bo	red Pile R	amp - BN(02	
1061-1540	Bored Pile Ramp - BN03	15	22-Mar-13	11-Apr-13																Bo	Bored Pile
1061-1550	Bored Pile Ramp - BN04	15	12-Apr-13	29-Apr-13																	

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

Contract HY/2009/19

3MRP - Jan 2013 to Apr 2013 Three Month Rolling Programme (20 JAN 2013 to 19 APR 2013) Page 7 of 7

3MRP



LEADER 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE		Cer	Wan (Chai I	tract No. Developm ai Bypass	nent Ph	ase II	Nest						Page : 1 / 4	4	
Activity ID Activity Name	Orig Early Start Early Finish Dur	Total Float	Dec	Jan	Feb	Mar	Apr	May	Jun	.013 Jul	Aug	Sep	Oct	Nov	Dec	2014 Jan
HK/2012/08 Initial Works Programme - 2nd submission																
Key Dates and Milestone Dates																
Key Dates																
C100000 Letter of Acceptance	0d 22-Jan-13*	0d														
C100020 Commencement of Works	0d 31-Jan-13*	0d			-											
Phase Possession of The Site																
C100040 Possession of Portion 1 of the Site	0d 31-Jan-13	6d			-											
C100060 Possession of Portion 1A of the Site	0d 31-May-13	3d							•							
C100070 Possession of Portion 1B of the Site	0d 31-May-13	2071d							•							
C100080 Possession of Portion 1C of the Site	0d 31-May-13	3d							•							
C100100 Possession of Portion 1D of the Site	0d 01-Apr-13	121d					•									
C100140 Possession of Portion 2A of the Site	0d 01-May-13	36d						•								
Phase Possession of the Works Areas													0 0 0 0 0 0			
C100260 Possession of Works Area WA1	0d 31-Jan-13	6d			•											
C100280 Possession of Works Area WA2	0d 31-Jan-13	6d			•											
C100300 Possession of Works Area WA3	0d 31-Jan-13	6d			•											
C100320 Possession of Works Area WA4	0d 31-Jan-13	6d			•											
C100340 Possession of Works Area WA5	0d 31-Jan-13	6d														
C100360 Possession of Works Area WA6	0d 31-Jan-13	6d			Ţ											
C100420 Possession of Works Area WA9	0d 31-Jan-13	6d			•											
Sections of Works Handover																
C100820 Handover of Area WA1	0d 01-Mar-13	2161d				-										
Preliminary													, , , , , , ,			
Submission and Approval																
C101000 Computer Facilities to Eng Office - prepare and submit to Eng	20d 22-Jan-13 10-Feb-13	115d														
C101020 Computer Facilities to Eng Office - Eng comment and approve	14d 11-Feb-13 24-Feb-13	115d														
C101040 Office Furniture - prepare and submit to Eng	14d 22-Jan-13 04-Feb-13	107d														
C101060 Office Funiture - Eng comment and approve	14d 05-Feb-13 18-Feb-13	107d														
C101080 Land Transport for Engineer - prepare and submit to Eng	14d 31-Jan-13 13-Feb-13	60d														
C101100 Land Transport for Engineer - Eng comment and approve	14d 14-Feb-13 27-Feb-13	60d				I										
C101120 Marine Transport for Engineer - prepare and submit to Eng	14d 31-Jan-13 13-Feb-13	96d														-
C101140 Marine Transport for Engineer - Eng comment and approve	14d 14-Feb-13 27-Feb-13	96d				I										
C101160 Initial Works Programme - prepare and submit	7d 22-Jan-13 28-Jan-13	2151d														
C101180 Initial Works Programme - Engineer 1st comment	14d 29-Jan-13 11-Feb-13	2151d														
C101200 Initial Works Programme - revised and re-submit	14d 12-Feb-13 25-Feb-13	2151d														
C101220 Initial Works Programme - Engineer approve	14d 26-Feb-13 11-Mar-13	2151d	-													
C101260 First Three Months Rolling Programme - prepare and submit	14d 22-Jan-13 04-Feb-13	2186d														
C101280 Draft Safety Plan - prepare and submit	14d 22-Jan-13 04-Feb-13	55d														
C101300 Draft Safety Plan - Eng comment and approve	7d 05-Feb-13 11-Feb-13	55d														
C101320 Safety Plan - prepare and submit	14d 12-Feb-13 25-Feb-13	55d														
						1				Date		Re	vision		necked Ap	
Data Date: 22-Jan-13 Current Milestone Critical Remaining Work Remaining Work Remaining Level of Effort			Rolling 013 - Jເ		gramme 13)					22-Mar-1						



	* CHINA STATE - LEADER JOINT VENTURE	CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West											Page : 2 / 4								
Activity ID	Activity Name	Orig Early Start Early Finish To Dur	tal Float	Dec Jan	Feb	Mar	Apr	May	20 [.] Jun	13 Jul	Aug	Sep	Oct	Nov	Dec	2014 Jan					
C101340	Safety Plan - Eng comment and approve	14d 26-Feb-13 11-Mar-13	55d																		
C101360	Subcontractor Management Plan - Prepare and submit	30d 22-Jan-13 20-Feb-13	60d																		
C101380	Subcontractor Management Plan - Eng comment and approve	14d 21-Feb-13 06-Mar-13	60d																		
C101400	Draft Environmental Management Plan - prepare and submit	21d 22-Jan-13 11-Feb-13	43d																		
C101420	Draft Environment Manangement PLan - Eng comment and approve	14d 12-Feb-13 25-Feb-13	43d			1															
C101440	Environmental Management Plan - prepare and submit	12d 26-Feb-13 09-Mar-13	43d																		
C101460	Environmental Management Plan - Eng comment and approve	14d 10-Mar-13 23-Mar-13	43d																		
C101462	Further Environmental Permit - prepare and submit to EPD	20d 22-Jan-13 10-Feb-13	9d																		
C101464	Further Environmental Permit - EPD issue permit	14d 11-Feb-13 24-Feb-13	9d			I															
C101470	Dumping Permit - prepare and submit to EPD	30d 24-Jan-13 22-Feb-13	131d																		
C101472	Dumping Permit - EPD issue permit	28d 23-Feb-13 22-Mar-13	131d		1																
C101480	Staff Organization Plan - prepare and submit	30d 31-Jan-13 01-Mar-13	96d			-															
C101500	Staff Organization Plan - Eng comment and approve	28d 02-Mar-13 29-Mar-13	96d																		
C101580	Submit Holding Nursery Site Plan - prepare and submit	30d 01-Apr-13 30-Apr-13	5d					•													
C101590	Submit Holding Nursery Site Plan - Eng comment and approve	28d 01-May-13 28-May-13	5d																		
C101600	structural condition survey - submit survey programme	60d 25-Feb-13 25-Apr-13	7d																		
C101620	structural condition survey - conduct survey	60d 06-Apr-13 04-Jun-13	7d																		
C101640	structural condition survey - prepare and submit report	30d 26-May-13 24-Jun-13	7d																		
Design ar	nd Engineering																				
C101660	Weather Protection Scheme - prepare and submit	30d 31-Jan-13 01-Mar-13	5d		(—															
C101680	Weather Protection Scheme - Eng comment and approve	30d 02-Mar-13 31-Mar-13	5d																		
Procurem																					
	Computer Facilities to Eng Office - Supply	14d 25-Feb-13 10-Mar-13	115d																		
C101720	Office Funiture - Supply	28d 19-Feb-13 18-Mar-13	107d																		
C101740	Land Transport for Engineer - supply and delivery	7d 28-Feb-13 06-Mar-13	60d																		
C101760	Marine Transport for Engineer - supply and delivery	30d 28-Feb-13 29-Mar-13	96d				_														
Construct		500 20100 15 25 Hull 15	500																		
	Initial Survey	63d 07-Feb-13 02-May-13	12d					-													
C101820	Site Clearance	62d 21-Feb-13 09-May-13	93d																		
	Erect Fencing / Hoarding	60d 15-Feb-13 30-Apr-13	930 47d																		
C101840		· · ·	47u 47d					-													
C101860	Erect Project Sign Board																				
C101880	Erect Contractor Accommodation	77d 22-Feb-13 29-May-13	77d																		
C101900	Tree Survey	55d 01-Mar-13 09-May-13	5d																		
	prepare and submit Tree Survey Report	14d 10-May-13 27-May-13	5d																		
	and Reclamation																				
	nd Engineering																				
	Marine - temp work design and MS of demolish Expro Drive Bridge - Prepare and submit to ICE	48d 31-Jan-13 19-Mar-13	40d																		
C101704	Marine - temp work design and MS of demolish Expro Drive Bridge - ICE comment and issue cert	14d 20-Mar-13 02-Apr-13	40d																		
C101706	Marine - temp work design and MS of demolish Expro Drive Bridge - Eng comment and approve	28d 03-Apr-13 30-Apr-13	40d					-													
C101802	Marine - MS for diversion of ex. cooling water main - prepare and submit to ICE	38d 31-Jan-13 09-Mar-13	106d																		
C101804	Marine - MS for diversion of ex. cooling water main - ICE check & issue cert	14d 10-Mar-13 23-Mar-13	106d																		
C101806	Marine - MS for diversion of ex. cooling water main - Eng comment and approve	28d 24-Mar-13 20-Apr-13	106d																		
C102000	Marine - MS for marine SI - prepare and submit to Eng	30d 01-Apr-13 30-Apr-13	36d																		
C102010	Marine - MS for marine SI - Eng comment and approve	14d 01-May-13 14-May-13	36d																		



cSCEc	★ CHINA STATE - LEADER JOINT VENTURE		CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West													Page : 3 / 4						
Activity ID	Activity Name	Orig Early Start Early Finish Dur	Total Float	Dec	Jan	Feb	Mar	Apr	May	Jun	2013 Jul	Aug	Sep	Oct	Nov	Dec	2014 Jan					
C102020	Marine - MS and design for fabrication of precast seawall - prepare and submit to ICE	60d 01-Apr-13 30-May-13	38d																			
C102040	Marine - MS and design for fabrication of precast seawall - ICE check & issue cert	30d 31-May-13 29-Jun-13	61d						[1						-					
C102080	Marine - Silt Curtain deployment plan - prepare and submit	60d 11-Apr-13 09-Jun-13	12d																			
C102090	Marine - Silt Curtain deployment plan - Eng comment and approve	28d 10-Jun-13 07-Jul-13	12d								-											
C102100	Marine - MS of Dredging - prepare and submit for ICE check	60d 11-Apr-13 09-Jun-13	10d																			
C102120	Marine - MS of Dredging- ICE check & issue cert.	14d 10-Jun-13 23-Jun-13	10d																			
C102160	Marine - MS of Dredging - Eng / MTR comment and approve	28d 24-Jun-13 21-Jul-13	10d																			
C102320	Marine - MS for install caisson seawall - prepare and submit	60d 31-May-13 29-Jul-13	17d						¢													
C102342	Marine - MS for install seawall block - prepare and submit	60d 31-May-13 29-Jul-13	107d						C													
C103360	Marine - MS for launching, storage, mooring & transportation of caisson seawall - prepare and submit	60d 31-May-13 29-Jul-13	38d						ç													
C103402	Marine - MS for temp seawall for advance reclamation- prepare and submit	60d 01-May-13 29-Jun-13	17d					-			1											
C103420	Marine - MS of placing fill - prepare and submit	60d 21-May-13 19-Jul-13	17d																			
C103470	Marine - MS for Seawall Removal/Modification - prepare and submit	60d 21-May-13 19-Jul-13	48d																			
C105000	Marine - design of temporary pile wave wall - prepare and submit to ICE	30d 31-May-13 29-Jun-13	170d						C		1											
C105100	Marine - assessment report on impact to MTR-TWL tunnel - prepare and submit to ICE	60d 01-Apr-13 30-May-13	20d																			
C105120	Marine - assessment report on impact to MTR-TWL tunnel - ICE check and issue ICE cert	14d 31-May-13 13-Jun-13	20d						ģ													
C105140	Marine - assessment report on impact to MTR - TWL tunnel - Eng comment and approve	28d 14-Jun-13 11-Jul-13	20d																			
Submissi	on and Approval																					
C102400	Marine - Marine Notice to Marine Dept (Dredging) - prepare and submit	14d 31-Jan-13 13-Feb-13	249d																			
C102420	Marine - Marine Notice to Marine Dept (Dredging) - MD comment & accept	30d 14-Feb-13 15-Mar-13	249d																			
Construct	ion																					
General W	ork for Marine Work																					
W0001500	Marine - Initial Hydrographic Survey and submit survey report (Portion 1)	14d 06-May-13 22-May-13	48d																			
W0001505	Marine - Initial Hydrographic Survey and submit survey report (Portion 1C)	14d 31-May-13 17-Jun-13	2d						C													
W0001510	Marine - Initial Hydrographic Survey and submit survey report (Portion 1A, 1B)	14d 31-May-13 17-Jun-13	6d						¢													
W0001522	Marine - Vibrocore - Area C	4d 18-Jun-13 21-Jun-13	2d																			
W0001524	Marine - Vibrocore - Area B	3d 22-Jun-13 25-Jun-13	2d																			
W0001526	Marine - Vibrocore - Area A1	3d 26-Jun-13 28-Jun-13	2d																			
W0001530	Marine - Continous Piezocone Penetration Test (CPPT) - Area C	10d 29-Jun-13 11-Jul-13	2d								<u> </u>											
Zone C - D	emolish Expo Drive West Bridge																					
A10136	Area C - Expo Drive - remove street funiture and asphalt surface	10d 30-May-13 10-Jun-13	6d						C													
A10140	Area C - Expo Drive - erect temporary support frame for demolition work	20d 03-Jun-13 26-Jun-13	6d																			
Zone A2																						
W0001160	Area A2 - Complete discommissioning of Submarine Sewage Outfall (by others)	0d 31-May-13	124d							I												
W0001170	Area A2 - Remove Submarine Sewage Outfall	20d 31-May-13 24-Jun-13	124d						Ç													
W0001180	Area A2 - Complete discommissioning of Cross Harbour Watermains (by others)	0d 31-May-13	124d							I												
W0001190	Area A2 - Remove Cross Harbour Watermains	20d 31-May-13 24-Jun-13	124d						[
CRIII Area																						
W0001095	CRIII - Temp. Diversion of 5 Existing Cooling Mains	66d 30-May-13 16-Aug-13	55d								<u> </u>											
Works for	Section Completion																					
Construct																						
Box Culve	rt / Structure																					
	Box Culvert L and Temporary Diversion of Culvert L																					
	Culvt - Stage 1 - LKS - TTA, Exc & ELS, ug utilities diversion [lighting & cable TV]	135d 03-May-13 12-Oct-13	12d																			



* CHINA STATE - LEADER JOINT VENTURE

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

ctivity ID	Activity Name	Orig	Early Start	Early Finish	Total Float								2013	
		Dur				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	A
Section I -	Interim Landing Steps and EVA													
Permit /	Method Statement													
S010030	Sec I - ILS - issue FEP	Od	I	05-Mar-13*	0d				•					
S010050	Sec I - ILS - application for marine notice	Od		23-Feb-13*	0d			•						
S010070	Sec I - ILS - Marine Department process and issue marine notice	60d	24-Feb-13	24-Apr-13	11d									
S010130	Sec I - ILS - prepare and submit method statement	30d	28-Feb-13	03-Apr-13	2d				(-				
S010150	Sec I - ILS - Eng comment and approve method statement	28d	04-Apr-13	01-May-13	4d						•			
Seawall D	emolition													
S011000	Sec I - ILS - plant mobilization and ug cable detection	5d	02-May-13	07-May-13	3d									
S011020	Sec I - ILS - open cut behind existing seawall to 2.3mPD	4d	08-May-13	11-May-13	3d									
S011030	Sec I - ILS - demolish ex. L-wall tie beam	3d	I 13-May-13	15-May-13	3d									
S011040	Sec I - ILS - open cut behind existing seawall to 0.0mPD	4d	16-May-13	21-May-13	3d									
S011060	Sec I - ILS - slope protection	4d	22-May-13	25-May-13	3d							L		-
S011065	Sec I - ILS - remove L-wall, and concree block	12d	27-May-13	08-Jun-13	3d									
Precast C	oncrete Element Construction			1)									
S011070	Sec I - ILS - establish precast fabrication yard	7d	l 16-Apr-13	23-Apr-13	7d									
S011080	Sec I - ILS - fabricate precast mass concrete block units (standard)	20d	22-Apr-13	15-May-13	7d									
S011120	Sec I - ILS - fabricate precast mass concrete block (special)	16d	l 16-May-13	04-Jun-13	7d									
Interim La	anding Steps Construction	/		1)									
S011130	Sec I - ILS - install precast concrete blocks and steps below +2.5mPD	2d	l 10-Jun-13	11-Jun-13	3d							D		
S012000	Sec I - ILS - construct cast insitu concrete blocks and steps above +2.5mPD	24d	l 13-Jun-13	11-Jul-13	3d									
Section VI	C - Area 3, 6, 8A & 8C	,												
Soft Land	scaping Works						+					L		
S6C23000	Sec VI C - RdW - Tree Felling/Transplanting at Area 8A	48d	31-May-13	27-Jul-13	2d									

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						2014
Aug	5	Sep	Oct	Nov	Dec	Jan
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