

Lam Geotechnics Limited

CONTRACT NO: HK/2009/05

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

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 AND FEP-05/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- OCTOBER 2011 -

CLIENTS:

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and

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CERTIFIED BY:

Raymond Dai Environmental Team Leader

DATE:

10 November 2011

ENVIRON

Ref.: AACWBIECEM00_0_2082L.11

15 November 2011

AECOM Asia Company Limited 8/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road, Shatin, New Territories, Hong Kong By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (October 2011) for EP-356/2009, FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for October 2011 dated 10 November 2011.

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

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

Yours sincerely,

David Yeung Independent Environmental Checker

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

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Lam Geotechnics Limited

EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – October 2011 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-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009. This report presents the environmental monitoring findings and information recorded during the period 28th September 2011 to 27th October 2011. 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. HY/2009/11 included:
 - Sheet Pilling;
 - Geo-textile laying;
 - Slotted panel fixing;
 - Reclamation works;
 - Precasting of Coping;
 - Drainage Construction works;
 - Installation of berm blocks;
 - Construction of FEHD carpark and associated works;
 - Outfall construction works (Open Channel U); and
 - Installation of precast concrete blocks at seawall type 6 & 7
- iii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
 - Installation of silt screen (type 3) at TST;
 - Removal of rock armour at North Bank of HKCECC Water Channel between CH156 and CH185;
 - Rockfilling for sheet pile water channel from Ch120 to Ch160;
 - Installation of sheet pile for cooling water intake at Dome Promenade between CH120 and CH160;
 - Construction of retaining wall (Base Slab) at Zone B1-3;
 - Construction of precast RC outfall for subsequent seawall reinstatement at Zone B1-3;
 - Reclamation HKCEC3w (up to Ch110) within HKCEC Water Channel;
 - Installation of cross harbour watermains nos. A9/B9 and A10;
 - Thrust block construction for A5B5;
 - Dredging of Type 2 sediment from Ch50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui;
 - Installation of pipe pile wall at TST landfall section was commenced;
 - Installation of sheet pile wall for pipe trench dredging at TST;
 - The trench excavation works at Zone B1-4, B4-2m B4-5m A1-2, A2-4A, A3-3, A3-2A,

A4-3B, A4-4C and A5-5;

- The trench excavation works at Zone B 4-2 and B4-5;
- Heading No H2, H5 and H7 (Mainlaying works by trenchless method);
- Tree transplant and its corresponding planter modification at Expo Drive were commenced. Such preparation works was catered for subsequent TTA implementation at the time when Zone B1-6 and B202 was being fenced off for the subsequent mainlaying works; and
- Trench excavation and pipe laying works for a 1000 dia. watermains (CHF) at Salisbury Garden
- iv. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Digging trial pit for bus shelter footing at Expo Drive East;
 - Fixing up reinforcement for 1/F beam of Passenger Terminal Building;
 - Erecting formwork of 1/F slab of of Passenger Terminal Building;
 - Fixing 1/F to 2/F R;C wall waling on Passenger Terminal Building;
 - Formwork for lift shaft of Passenger Terminal Building;
 - Demolition of existing ferry pier;
 - Racking piles and dredging work of Ferry Pier;
 - Demolition of remaining portion of cover walkway of New Public Toilet;
 - Construction of wash out chamber at Harbour Road and access manhole at Harbour Centre;
 - Reinstatement work for footpath and existing inspection chamber at Great Eagle Centre;
 - Trench excavation and deck over works along Tonnochy Road;
 - Installation of PVC and G;I cable ducts was ongoing at Harbour Road;
 - Approximate 56m cooling water pipe was laid at Harbour Centre; Harbour Road and ex-pet garden;
 - Installation of submarine outfall pipe up to CHA-105 and CHB-130; continue backfill on the HDPE pipelines;
 - Dredging for submarine outfall pipe;
 - Filling up grade 75 to gap between casing sleeves and pile casing of new ferry pier;
 - 3rd and 4th loading test of New Ferry Pier were completed on 26 September 2011 and 11 October 2011;
 - Grouting plug in piles of New Ferry Pier;
 - Dredging inside the piles was completed;
 - Installation of lateral support and excavation for common trench for 132kV cable and manholes of Wan Shing Street;
 - Rock filling and blinding of Wan Shing Street at Bay 22 was completed;
 - Excavation and lateral support for DSD receiving pits;



- 8 out of 12 nos of pre-bored H-pile for box culverts N1 was reached to founding levels as of 20 October 2011;
- Re-bar fixing for vent shaft of P7; P8 and P9 pumping station;
- Casting of top soffit slab of P7 and P9 pumping station were completed on 4 October 2011; and P8 pumping station were completed on 10 October 2011;
- Expo Drive East mass concreting coping formwork erection;
- Dismantling and erection of formwork for concrete coping;
- Commenced fabricating the steel frames for water diversion and temporary sheet piles walls for WCR2 reclamation;
- Installation of temporary sheet pile seawall of WCR-2
- v. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 - Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4;
 - Maintenance dredging of navigation channel and mooring area; and
 - Night time protection works at CHT
- vi. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
 - Installation of bored pile casing;
 - Excavation of bored piles;
 - Pre-drilling works;
 - Installation of temporary staging platforms

Noise Monitoring

vii. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b, M3a, M4b and M5b on a weekly basis in the reporting month. Two limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 7 and 25 October 2011 during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring and not related to the Project.

Real-time Noise Monitoring

viii. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre have been commenced on 5 October 2010 for the filling works of Contract no. HY/2009/11. No project-related exceedance was recorded in the reporting month.

Air Quality Monitoring

ix. Air quality monitoring has been conducted at stations CMA2a, CMA3a, CMA4a, CMA5a and CMA6a. No exceedance was recorded in the reporting month. The monitoring station CMA1b was temporary suspension until obtainment of a representative long-term air monitoring station on 18 September 2011. Inspection for new location searching was conducted during October 2011.



Water Quality Monitoring

x. Water quality monitoring at 18 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	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
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	1	1	0	1	0	0	0	1	0	0
	WSD15	0	0	0	2	0	2	0	0	1	1	0	0
	WSD17	0	0	3	2	0	5	0	0	2	0	0	0
	C8	0	0	1	2	1	0	0	0	4	0	0	0
	C9	0	0	1	1	0	0	0	0	0	1	0	0
HK/2009/01	WSD19	0	0	0	2	4	1	0	0	1	1	0	1
	WSD20	0	0	2	2	1	1	0	0	1	1	1	1
	WSD7	0	0	1	0	0	0	0	0	1	0	1	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	3	2	1	0	0	1	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	1	0	0	0	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	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	1	0	0	0	0	1	0	0	0
	WSD21	0	0	0	0	0	1	0	0	1	0	0	0
HY/2009/15	C7	1	0	1	0	0	0	1	0	1	1	2	0
Tot	tal	1	0	10	17	8	12	1	0	14	6	4	2

 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.

 xi. 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 IISummary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting Month

Contract no.		Mid-f	lood	Mid-ebb		
	Water Monitoring Station	D	0	DO		
		AL	LL	AL	LL	



		Mid-f	lood	Mid-ebb	
Contract no.	Water Monitoring Station	D	C	DO	
		AL	LL	AL	LL
	C6	1	0	0	0
LIX/2000/45	C7	2	1	2	0
HY/2009/15	Ex-WPCWA SW	0	1	2	0
	Ex-WPCWA SE	3	2	2	0
	6	4	6	0	

Complaints, Notifications of Summons and Successful Prosecutions

xii. There was one environmental complaints received on 14 October 2011. No further complaint was received after follow-up action and investigation in this reporting month.

Site Inspections and Audit

xiii. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HY/2009/11, HK/2009/01, HK/2009/02, HY/2009/15 and HK/2010/06 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

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

Contract no. HY/2009/11- North Point Reclamation

- Reclamation works;
- Geo-textile laying;
- Slotted panel fixing;
- Drainage Construction works;
- Installation of berm blocks;
- Outfall construction works (Open Channel U);
- Construction of in-situ mass concrete cooping,
- Construction of granite facing stone;
- Installation of precast coping to seawall type 6 & 7; and
- Construction of FEHD carpark and associated works

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

- Reclamation of HKCEC3w (up to CH110) within the HKCEC water Channel;
- Rockfilling for sheet pile water channel from CH120 to CH160;



- Installation of sheet pile water channel at Dome Promenade (from CH120 to CH160);
- Dredging of Type 3 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui;
- Installation of cross-habour watermains nos. B10; A11/B11 and A12/B12;
- Sheet pile installation at TST for the subsequent trenches of the proposed cross-habour watermains A17/ B17;
- Installation of pope pile wall and the associated ground treatment works for the trenches excavation of the proposed cross-harbour watermains nos. A18/ B18;
- Mainlaying wouks at Zone A1-2 would be completed by Nov 211 and the closure at Zone A1-1 would be commenced for SCL diaphragm wall construction after Zone A1-2 had been completely reinstated and reopened to the public.
- Mainlaying works at Zone B1-4 would be completed in early Nov 2011 and the works had been completely reinstated and reopened to the public.
- Works would be continued out at Zone A2-3B; A3-3; A3-2A; A4-3B; A4-3C; A5-5 B4-2 and B4-5.
- Heading nos. H2; H5 and H7 (Mainlaying works by trenchless method);
- Heading Nos. H1 and H4 (Mainlaying works by trenchless method) would be commenced after their corresponding jacking pits had been excavated in Fenwick Pier Street and Convention Avenue respectively.
- Heading Nos. H3 and H6 (Mainlaying works by trenchless method) would be commenced after the hand dug tunneling works in the vicinity and been completed

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

- Operating Tseung Kwan O Public Fill Sorting Facility;
- Construction of passenger terminal;
- Complete demolition of remaining finger pier;
- Commence 300mm thick slab construction at Expo Drive East;
- Commence install noise barrier at Expo Drive East;
- Construction for bus shelter at Expo Drive East;
- Construction of mass seawall coping at Expo Drive East;
- Trench excavation and pipe laying works along Harbour Road;
- Trench excavation and deck over at Tonnochy Road;
- Complete pre-bored H-pile for box culverts N1;
- Complete Re-bar fixing for vent shaft at P7, P8 & P9 pump stations;
- Construction above -0;8mPDat Wan Shing Street for WSD Salt Water Intake;
- Pipeline jacking WSD intake A;
- Pre-bored sheet pile works for salt water intake culvert Bay1b & Bay 2;
- Pre-bored H-pile for Box Culvert N1 at WCR1 Area;



- Grouting plug in piles of New Ferry Pier;
- Concreting for marine piles at new ferry pier;
- Dredging and fabrication of HDPE pipe diffuser section for submarine outfall pipes;
- Backfilling of bagged concrete and rockfills for the installed submarine outfall pipes;
- Excavation and lateroal support for receiving pits at Hung Hing Road;
- Installation of temporary sheet piles wall at WCR2;
- Installation of the temporary water diversion steel frame

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

- Dredging at south-west corner of CBTS; and
- Night time protection works at CHT

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

- Installation of bored pile casing;
- Excavation of bored piles;
- Bored Pile Concreting;
- Pre-drilling works; and
- Installation of temporary staging platforms



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-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 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-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 and during the period 28th September to 27th October 2011. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

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



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



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. <u>Figure 2.1</u> 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 – Central – Wan Chai Bypass at WanChai	DP3, DP5	5 July 2010	
	East	DP1	26 April 2011	
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010	
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010	
	(Causeway Bay Typhoon Shelter Section)	DP1	13 July 2011	
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011	
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010	
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010	
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011	
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011	

Table 2.2 Details	of Individual	Contracts	under ti	he Project
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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 for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer for CWB	Principal Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
China Harbour-	Contractor under Contract	Project Director	Mr. Cho Yu Fun	3157 1086	3157 1085

Table 2.3 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
CRBC Joint Venture	no. HY/2009/11	Project Manager	Mr. Gregory Wong	3157 1086	
		Site Agent	Mr. Daniel Cheung	3157 1086	
		Environmental Officer	Mr. C. M. Wong	3157 1086	
Chun Wo – Leader Joint	Contractor under Contract	Project Director	Mr. Simon Tong	9124 2471	2634 1626
Venture	no. HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	
		Operation Manager	Mr. Lau Yee Ching	9466 3918	
		Construction Manager	Mr. Jerry Siu	9493 3664	
		Construction Manager	Mr. Ricky Lai	9487 6549	
		Construction Manager	Mr. KK Yuen	3498 1213	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
Chun Wo – CRGL Joint	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Chan Sing Cho	3658 3002	2827 9996
Venture		Site Agent	Mr. Mak Kam Wing	3658 3044	
		Quality & Environmental Manager	Mr. C.P. Ho	3658 3000	
		Environmental Officer	Ms. Flora Ng	3658 3064	
China State Construction	Contractor under Contract	Project Manager	Mr. M Y Wong	2823 7879	2528 5651
Engineering (HK) Ltd.	no. HY/2009/15	Site Agent	Mr. Simon Tang	3557 6358	2566 2192
		Construction Manager	Mr. C K Kwok	9779 2162	
		Assistant Construction Manager (East)	Mr. Gene Cheung	6105 4880	
		Assistant Construction Manager (West)	Mr. Tony Chiu	9090 0606	
		Environmental Officer	Mr. Daniel Sin	3557 6215	
Gammon -Leader JV	Contractor under Contract	Project Manager	Mr. Simon Tong	9124 2471	2529 2880
-	no.	Site Agent	Mr. Keith Tse	2529 2068	



Party	Role	Post	Name	Contact No.	Contact Fax
	HK/2010/06	Environmental Officer	Mr. Lee Wai Man	9481 6024	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

- 2.4.3. For Contract no. HY/2009/11, the principal work activities in this reporting month included:
 - Sheet Pilling;
 - Geo-textile laying;
 - Slotted panel fixing;
 - Reclamation works;
 - Precasting of Coping;
 - Drainage Construction works;
 - Installation of berm blocks;
 - Construction of FEHD carpark and associated works;
 - Outfall construction works (Open Channel U); and
 - Installation of precast concrete blocks at seawall type 6 & 7
- 2.4.4. For Contract no. HK/2009/01, the principal work activities in this reporting month included:
 - Installation of silt screen (type 3) at TST;
 - Removal of rock armour at North Bank of HKCECC Water Channel between CH156 and CH185;
 - Rockfilling for sheet pile water channel from Ch120 to Ch160;.
 - Installation of sheet pile for cooling water intake at Dome Promenade between CH120 and CH160;
 - Construction of retaining wall (Base Slab) at Zone B1-3;
 - Construction of precast RC outfall for subsequent seawall reinstatement at Zone B1-3;
 - Reclamation HKCEC3w (up to Ch110) within HKCEC Water Channel;
 - Installation of cross harbour watermains nos. A9/B9 and A10;
 - Thrust block construction for A5B5;
 - Dredging of Type 2 sediment from Ch50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui;
 - Installation of pipe pile wall at TST landfall section was commenced.
 - Installation of sheet pile wall for pipe trench dredging at TST;
 - The trench excavation works at Zone B1-4, B4-2m B4-5m A1-2, A2-4A, A3-3, A3-2A,

A4-3B, A4-4C and A5-5;

- The trench excavation works at Zone B 4-2 and B4-5;
- Heading No H2, H5 and H7 (Mainlaying works by trenchless method);
- Tree transplant and its corresponding planter modification at Expo Drive were commenced. Such preparation works was catered for subsequent TTA implementation at the time when Zone B1-6 and B202 was being fenced off for the subsequent mainlaying works; and
- Trench excavation and pipe laying works for a 1000 dia. watermains (CHF) at Salisbury Garden
- 2.4.5. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Digging trial pit for bus shelter footing at Expo Drive East;
 - Fixing up reinforcement for 1/F beam of Passenger Terminal Building;
 - Erecting formwork of 1/F slab of of Passenger Terminal Building;
 - Fixing 1/F to 2/F R;C wall waling on Passenger Terminal Building;
 - Formwork for lift shaft of Passenger Terminal Building;
 - Demolition of existing ferry pier;
 - Racking piles and dredging work of Ferry Pier;
 - Demolition of remaining portion of cover walkway of New Public Toilet;
 - Construction of wash out chamber at Harbour Road and access manhole at Harbour Centre;
 - Reinstatement work for footpath and existing inspection chamber at Great Eagle Centre;
 - Trench excavation and deck over works along Tonnochy Road;
 - Installation of PVC and G;I cable ducts was ongoing at Harbour Road;
 - Approximate 56m cooling water pipe was laid at Harbour Centre; Harbour Road and ex-pet garden;
 - Installation of submarine outfall pipe up to CHA-105 and CHB-130; continue backfill on the HDPE pipelines;
 - Dredging for submarine outfall pipe;
 - Filling up grade 75 to gap between casing sleeves and pile casing of new ferry pier;
 - 3rd and 4th loading test of New Ferry Pier were completed on 26 September 2011 and 11 October 2011;
 - Grouting plug in piles of New Ferry Pier;
 - Dredging inside the piles was completed;
 - Installation of lateral support and excavation for common trench for 132kV cable and manholes of Wan Shing Street;
 - Rock filling and blinding of Wan Shing Street at Bay 22 was completed;



- Excavation and lateral support for DSD receiving pits;
- 8 out of 12 nos of pre-bored H-pile for box culverts N1 was reached to founding levels as of 20 October 2011;
- Re-bar fixing for vent shaft of P7; P8 and P9 pumping station;
- Casting of top soffit slab of P7 and P9 pumping station were completed on 4 October 2011; and P8 pumping station were completed on 10 October 2011;
- Expo Drive East mass concreting coping formwork erection;
- Dismantling and erection of formwork for concrete coping;
- Commenced fabricating the steel frames for water diversion and temporary sheet piles walls for WCR2 reclamation;
- Installation of temporary sheet pile seawall of WCR-2
- 2.4.6. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4;
 - Maintenance dredging of navigation channel and mooring area; and
 - Night time protection works at CHT
- 2.4.7. For Contract no. HK/2010/06, the principal work activities in this reporting month included:
 - Installation of bored pile casing;
 - Excavation of bored piles;
 - Pre-drilling works;
 - Installation of temporary staging platforms
- 2.4.8. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

Contract no. HY/2009/11- North Point Reclamation

- Reclamation works;
- Geo-textile laying;
- Slotted panel fixing;
- Drainage Construction works;
- Installation of berm blocks;
- Outfall construction works (Open Channel U);
- Construction of in-situ mass concrete cooping,
- Construction of granite facing stone;
- Installation of precast coping to seawall type 6 & 7; and
- Construction of FEHD carpark and associated works

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



- Reclamation of HKCEC3w (up to CH110) within the HKCEC water Channel;
- Rockfilling for sheet pile water channel from CH120 to CH160;
- Installation of sheet pile water channel at Dome Promenade (from CH120 to CH160);
- Dredging of Type 3 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui;
- Installation of cross-habour watermains nos. B10; A11/B11 and A12/B12;
- Sheet pile installation at TST for the subsequent trenches of the proposed cross-habour watermains A17/ B17;
- Installation of pope pile wall and the associated ground treatment works for the trenches excavation of the proposed cross-harbour watermains nos. A18/ B18;
- Mainlaying wouks at Zone A1-2 would be completed by Nov 211 and the closure at Zone A1-1 would be commenced for SCL diaphragm wall construction after Zone A1-2 had been completely reinstated and reopened to the public.
- Mainlaying works at Zone B1-4 would be completed in early Nov 2011 and the works had been completely reinstated and reopened to the public.
- Works would be continued out at Zone A2-3B; A3-3; A3-2A; A4-3B; A4-3C; A5-5 B4-2 and B4-5.
- Heading nos. H2; H5 and H7 (Mainlaying works by trenchless method);
- Heading Nos. H1 and H4 (Mainlaying works by trenchless method) would be commenced after their corresponding jacking pits had been excavated in Fenwick Pier Street and Convention Avenue respectively.
- Heading Nos. H3 and H6 (Mainlaying works by trenchless method) would be commenced after the hand dug tunneling works in the vicinity and been completed

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

- Operating Tseung Kwan O Public Fill Sorting Facility;
- Construction of passenger terminal;
- Complete demolition of remaining finger pier;
- Commence 300mm thick slab construction at Expo Drive East;
- Commence install noise barrier at Expo Drive East;
- Construction for bus shelter at Expo Drive East;
- Construction of mass seawall coping at Expo Drive East;
- Trench excavation and pipe laying works along Harbour Road;
- Trench excavation and deck over at Tonnochy Road;
- Complete pre-bored H-pile for box culverts N1;
- Complete Re-bar fixing for vent shaft at P7, P8 & P9 pump stations;
- Construction above -0;8mPDat Wan Shing Street for WSD Salt Water Intake;
- Pipeline jacking WSD intake A;



- Pre-bored sheet pile works for salt water intake culvert Bay1b & Bay 2;
- Pre-bored H-pile for Box Culvert N1 at WCR1 Area;
- Grouting plug in piles of New Ferry Pier;
- Concreting for marine piles at new ferry pier;
- Dredging and fabrication of HDPE pipe diffuser section for submarine outfall pipes;
- Backfilling of bagged concrete and rockfills for the installed submarine outfall pipes;
- Excavation and lateroal support for receiving pits at Hung Hing Road;
- Installation of temporary sheet piles wall at WCR2;
- Installation of the temporary water diversion steel frame

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

- Dredging at south-west corner of CBTS; and
- Night time protection works at CHT

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

- Installation of bored pile casing;
- Excavation of bored piles;
- Bored Pile Concreting;
- Pre-drilling works; and
- Installation of temporary staging platforms



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	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	Valid
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	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	Valid
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/A	25 Feb 2011	Valid

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

Contract no. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation

- 3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/356/2009 for contract no. HY/2009/11 are shown in *Table 3.2* and *Table 3.3*.
- 3.1.4. Contractor submitted a letter dated 20 July 2011 to confirm that the dredging works and dumping operation were completed.

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no.	
HY/2009/11	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	N/A	Valid
Notification of Works Under APCO	331892	4 Jul. 2011	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0330-11	15 Apr 2011	1 May 2011 to 31 Oct 2011	Valid till 31 Oct 2011
Registration as a Chemical Waste Producer	WPN5213-151-C36 31-02	12 Oct 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7010037	13 Jan 2010	N/A	Valid
Discharge Licence	WT00007942-2010	29 Nov 2010	30 Nov 2015	Valid

Table 3.3 Summary of submission status under FEP-01/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	18 Dec 2009
Condition 2.7	Submission of works schedule and location plan	8 Feb 2010
Condition 2.8	Revised Silt Curtain Deployment Plan (Rev. 3)	4 Dec 2010
Condition 2.9	Silt Screen Deployment Plan (Rev. 6)	18 May 2011
Condition 2.10	Coral Translocation Plan	20 Nov 2009
Condition 2.16	Revised Noise Management Plan (Rev 5)	19 Feb 2011
Condition 2.17	Landscape Plan	12 May 2010
	Revised landscape Plan	30 Jun 2010
	Submission of Supplementary Information - Revised Management & Maintenance Schedule for Submitted Revised Landscape Plan	25 Aug 2010

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

3.1.5. 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	6 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0384-11	29 Apr 2011	27 May 2011 to 26 Nov 2011	Valid
	GW-RS0680-11	22 Jul 2011	29 Jul 2011 to 19 Jan 2012	Valid
	GW-RS0689-11	28 Jul 2011	29 Jul 2011 to 28 Jan 2012	Valid
	GW-RS0832-11	7 Sep 2011	03 Sep 2011 to 02 Mar 2012	Valid
	GW-RS0850-11	12 Sept 2011	14 Sept 2011 to 13 Mar 2012	Valid
	GW-RS0851-11	12 Sept 2011	16 Sept 2011 to 15 Mar 2012	Valid
	GW-RE0683-11	16 Sept 2011	20 Sept 2011 to 19 Oct 2011	Expired
	GW-RE0716-11	28 Sept 2011	07 Oct 2011 to 29 Mar 2012	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	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-C358 5-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-021	20 May 2011	24 May 2011 to 23 Nov 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/12-057	5 Sep 2011	08 Sept 2011 to 07 Oct	Expired
Type 2 – Confined Marine Disposal)	EP/MD/12-072	6 Oct 2011	8 Oct 2011 to 7 Nov 2011	Valid
Permit for Dumping at Sea - Dredged Sediment Requiring Type 3 – Special Treatment /	EP/MD/12-063	22 Sept 2011	23 Sept 2011 to 22 Oct 2011	Expired
Disposal contained in Geosynthetic Containers	EP/MD/12-080	24 Oct 2011	25 Oct 2011 to 24 Nov 2011	Valid

Table 3.5 Summary of submission status under FEP-02/356/2009 Con	dition
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EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010



EP Condition	Submission	Date of Submission
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
Condition 2.8	Silt Curtain Deployment Plan	19 Apr 2010
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010
	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
Conditions 2.8 and 2.9	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
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>

3.1.6. 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 piling equipment	PP-RS0011-11	27 April 2011	1 June 2011 to 30 Nov 2011	Valid
Construction Noise Permit	GW-RS0343-11	11 April 2011	25 Apr 2011 to 10 Oct 2011	Expired
(CNP) for non-piling equipment	GW-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Valid till 31 Oct 2011



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0377-11	27 April 2011	1 May 2011 to 31 Oct 2011	Valid till 31 Oct 2011
	GW-RE0311-11	4 May 2011	5 May 2011 to 31 Oct 2011	Valid till 31 Oct 2011
	GW-RS0401-11	3 May 2011	18 May 2011 to 17 Nov 2011	Valid
	GW-RS0423-11	9 May 2011	22 May 2011 to 21 Nov 2011	Valid
	GW-RS0453-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0461-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0496-11	31 May 2011	07 Jun 2011 to 06 Dec 2011	Valid
	GW-RS0502-11	8 Jun 2011	13 Jun 2011 to 12 Dec 2011	Valid
	GW-RS0579-11	22 June 2011	17 July 2011 to 16 Jan 2012	Valid
	GW-RS0645-11	18 July 2011	22 Jul 2011 to 21 Jan 2012	Valid
	GW-RS0649-11	22 July 2011	1 Aug 2011 to 31 Jan 2012	Valid
	GW-RS0691-11	25 July 2011	27 July 2011 to 26 Jan 2012	Valid
	GW-RS0716-11	2 Aug 2011	12 Aug 2011 to 11 Feb 2012	Valid
	GW-RS0722-11	2 Aug 2011	5 Aug 2011 to 5 Oct 2011	Expired
	GW-RS0723-11	12 Aug 2011	15 Aug 2011 to 14 Feb 2012	Valid
	GW-RS0833-11	8 Sept 2011	10 Sept 2011 to 4 Mar 2012	Valid
	GW-RS0857-11	16 Sept 2011	6 Oct 2011 to 5 Apr 2011	Valid
	GW-RS0918-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0929-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0930-11	11 Oct 2011	1 Nov 2011 to 30 Apr 2012	To be Valid on 1 Nov 2011
	GW-RS0931-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0941-11	20 Oct 2011	23 Nov 2011 to 22 May 2012	To be Valid on 23 Nov 2011
	GW-RS0955-11	14 Oct 2011	23 Nov 2011 to 22 May 2012	To be Valid on 23 Nov 2011



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0968-11	20 Oct 2011	18 Nov 2011 to 17 May 2012	To be Valid on 18 Nov 2011
	GW-RS0983-11	24 Oct 2011	26 Oct 2011 to 23 April 2012	Valid
	GW-RS0984-11	25 Oct 2011	30 Oct 2011 to 27 April 2012	To be Valid on 30 Oct 2011
	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 May 2015	Valid
Discharge Licence	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 Apr 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	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Waste Producer	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-012	6 May 2011	29 May 2011 to 28 Nov 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate	EP/MD/12-056	2 Sept 2011	10 Sept 2011 to 9 Oct 2011	Expired
Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-074	6 Oct 2011	10 Oct 2011 to 9 Nov 2011	Valid

Table 3.7 Summary	of submission status under FEP-03/356/2009 Condition
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EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	Silt Curtain Deployment Plan Rev. H	15 Feb 2011
Condition 2.9	Silt Screen Deployment Plan	21 April 2010
	Supplementary Information for Existing WSD Salt	5 Oct 2010



EP Condition	Submission	Date of Submission
	Water Intakes at Quarry Bay and Sai Wan Ho	
Condition 2.12 (d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	19 Apr 2011
Condition 2.17	Noise Management Plan	6 May 2010
Condition 2.18	Landscape Plan (Combined Version)	5 Aug 2011

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

3.1.7. 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
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0749-11	11 Aug 2011	15 Aug 2011 to 7 Feb 2012	Valid
	GW-RS0820-11	5 Sep 2011	8 Sep 2011 to 7 Mar 2012	Valid
	GW-RS0847-11	14 Sep 2011	19 Sep 2011 to 16 Mar 2012	Valid
	GW-RS0858-11	16 Sep 2011	18 Sep 2011 to 16 Mar 2012	Valid
	GW-RS0883-11	4 Oct 2011	5 Oct 2011 to 4 Apr 2012	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Water Discharge Licence	WT00008780-2011	22 Mar 2011	22 Mar 2011 to 31 Mar 2016	Valid
	WT00008905-2011	11 Apr 2011	11 Apr 2011 to 30 Apr 2016	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	28 Apr 2011	1 May 2011 to 30 Oct 2011	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-037	20 Jul 2011	20 Jul 2011 to 19 Jan 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-051	29 Aug 2011	1 Sep 2011 to 30 Sep 2011	Expired
	EP/MD/12-069	27 Sep 2011	1 Oct 2011 to 31 Oct 2011	Valid till 31 Oct 2011
	EP/MD/12-084	31 Oct 2011	1 Nov 2011 to 30 Nov 2011	To be Valid on 1 Nov 2011
Dumping Permit (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	EP/MD/12-015	26 Sep 2011	11 Oct 2011 to 10 Nov 2011	Valid

Table 3.9 Summary of submission status under FEP-04/356/2009 Conditi
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EP Condition	Submission	Date of Submission
Condition 2.7	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan Rev 2	11 May 2011
Condition 2.9	Silt Screen Deployment Plan Rev3	15 Jun 2011
Condition 2.18	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

3.1.8. 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>

3.1.9. 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 3.10Cumulative 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
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0293-11	1 Apr 2011	6 Apr 2011 to 5 Oct 2011	Expired
	GW-RS0605-11	29 Jun 2011	13 Jul 2011 to 12 Jan 2012	Valid
	GW-RS0879-11	22 Sept 2011	6 Oct 2011 to 5 Apr 2012	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	WT00009619-2011	11 July 2011	11 July 2011 to 31 July 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-030	11 Aug 11	12 Aug 2011 to 11 Feb 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/12-059	11 Sep 2011	12 Sep 2011 to 11 Oct 2011	Expired
Type 2 – Confined Marine disposal)	EP/MD/12-078	10 Oct 2011	12 Oct 2011 to 11 Nov 2011	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.7	Works Schedule and Location Plans	11 March 2011
Condition 2.8	Revised Silt Curtain Deployment Plan	31 Aug 2011
Condition 2.9	Silt Screen Deployment Plan	11 April 2011
Condition 2.23	Noise Management Plan	11 March 2011



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.

Table 4.1 Noise monitoring Glation			
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.

Table 4.2 Real Time Noise Monitoring Station

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.4. 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.
- 4.1.5. 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

- 4.1.6. 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.
- 4.1.7. 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 *Figure 4.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
 - 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
 - 1 Slight Identifiable odour, and slight chance to have odour nuisance;
 - 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
 - 3 Strong Identifiable, likely to have odour nuisance;
 - 4 Extreme Severe odour, and unacceptable odour level.
- 4.2.16. The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in <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. The certificate for the qualified odour panel member is shown in <u>Appendix 4.2.</u>

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 12 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 I	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		
RW21	Wan Chai (Reprovision)	836188.8	815911.1		
Cooling Water Int	take				
C1	HKCEC Extension	835885.6	816223.0		
C2	Telecom House	835647.9	815864.4		
C3	HKCEC Phase I	835836.2	815910.0		
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2		
C4w	Wan Chai Tower and Great Eagle Centre (Western)	835629.8	815889.2		
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2		

 Table 4.4
 Marine Water Quality Stations for Water Quality Monitoring

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Station Ref.	Location	Easting	Northing
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

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
During marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Notes:

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT



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

TURBIDITY MEASUREMENT INSTRUMENT

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

SAMPLER

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

SAMPLE CONTAINER AND STORAGE

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

WATER DEPTH DETECTOR

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

<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>.

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

 Table 4.6
 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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.



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. HY/2009/11 Central Wan Chai Bypass North Point Reclamation;
 - 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
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

Contract no. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation

5.1.1. The proposed division of noise monitoring stations for Contract no. HY/2009/11 are summarized in *Table 5.1* below:

 Table 5.1
 Noise Monitoring Stations for Contract no. HY/2009/11

Station	Description
M4b	Victoria Centre
M5b	City Garden

- 5.1.2. Day time and evening period noise monitoring was conducted at the City Garden and Victoria Centre in the reporting month.
- 5.1.3. Noise monitoring results measured in this reporting period are reviewed and summarized. No exceedance was recorded in the reporting month. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 5.2</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



5.1.4. 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

- 5.1.5. Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.
- 5.1.6. Two limit level exceedances were recorded at M1a Harbour Road Sports Centre on 7 and 25 October 2011 during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool.

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

5.1.7. 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.

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

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

5.1.8. Noise monitoring results measured in the period of daytime and restricted hour are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in *Appendix 5.2*.

5.2 Real-time Noise Monitoring

5.2.1. No construction activity was conducted during night time period (2300 to 0700) in this reporting month.

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

5.2.2. The proposed divisions of real-time noise monitoring stations are summarized in **Table 5.4** below. Real time noise monitoring for the filling works under contract no. HY/2009/11 was commenced on 5 October 2010.

Table 5.4 Real Time Noise Monitoring Station for Contract no. HY/2009/11

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

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



5.2.3. Real time noise monitoring results were reviewed and no project-related Action and Limit level exceedance were recorded in the reporting period. Details of real time noise monitoring results and graphical presentation can be referred to <u>Appendix 5.5.</u>

5.3 Air Monitoring Results

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

5.3.1. The major construction activity of Contract no. HY/2009/11 was filling works in the reporting month. Air monitoring had been commenced on 11 August 2010. The proposed division of air monitoring stations is summarized in *Table 5.5* below.

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

 Table 5.5
 Air Monitoring Stations for Contract no. HY/2009/11

- 5.3.2. No exceedance was recorded in the reporting month. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.
- 5.3.3. Since the land located the Oil Street Community Liaison Centre will be handed-over to Food and Environmental Hygiene Department (FEHD) for the construction of temporary FEHD depot by the end of September 2011, the air monitoring station CMA1b was then removed on 18 September 2011 and is not available for the air quality monitoring in the existing location at Oil Street Community Liaison Centre. Owing to the rejection or no response from the nearby air sensitive receivers in allowing the implementation of impact air quality monitoring, CMA1b was proposed to be temporary suspension from September 2011 until obtainment of a representative long-term air monitoring station.

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

5.3.4. 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 division of air monitoring stations are summarized in *Table 5.6* below. No exceedance was recorded in the reporting month.

Table 5.6	Air Monitoring Stations for Contract no. HK/2009/01	
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Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza
CMA6a	WDII PRE Site Office

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



5.3.5. 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 5.7* below. No exceedance was recorded in the reporting month.

 Table 5.7
 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

5.3.6. 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 5.8* below. No exceedance was recorded in the reporting month.

 Table 5.8
 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
СМАЗа	CWB PRE Site Office

5.4 Water Monitoring Results

5.4.1. Due to the enforcement of Typhoon signal no.3 on 28 September and 3 October 2011, water quality was considered substantially affected by urban runoff, which cannot represent the normal impact condition of water quality and safety concerns on working under adverse weather. Thus, the impact water monitoring on 28 September and 3 October 2011 at flood tide were cancelled.

Contract no. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation

5.4.2. The proposed division of water monitoring stations for Contract no. HY/2009/11 are summarized in *Table 5.9* below:

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

Table 5.9Water Monitoring Stations for Contract no. HY/2009/11

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



<u>HKCEC</u>

5.4.3. 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 5.10* below.

 Table 5.10
 Water Monitoring Stations for Contract no. HK/2009/01

Station Ref.	Location	Easting	Northing						
WSD Salt Water Int	WSD Salt Water Intake								
WSD7	Kowloon South	834150.0	818300.3						
WSD19	Sheung Wan	833415.0	816771.0						
WSD20	Kennedy Town	830750.6	816030.3						
Cooling Water Inta	Cooling Water Intake								
C1	HKCEC Extension	835885.6	816223.0						
C2	Telecom House	835647.9	815864.4						
C3	HKCEC Phase I	835836.2	815910.0						
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2						
C4w	Wan Chai Tower and Great Eagle Centre (Western)	835629.8	815889.2						

Remarks:

The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations have not been carried out by others.

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

5.4.4. 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 5.11* below.

 Table 5.11
 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		
Cooling Water Intal	ke				
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.



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

5.4.5. 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 5.12* below.

Table 5.12	Water Monitoring Stations for Contract no. HK/2009/02	

Station Ref. Location Easting Northing						
Cooling Water Intake						
C2	Telecom House	835647.9	815864.4			

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

5.4.6. 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 5.13* below.

Station Ref.	Location	Easting	Northing
Cooling Water Intal	ke		
C6	Excelsior Hotel	837009.6	815999.3
C7	Windsor House	837193.7	816150.0

Table 5.13Water Monitoring Stations for Contract no. HY/2009/15

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.

- 5.4.7. The enhanced water quality monitoring at C6, C7, Ex-WPCWA-SW and Ex-WPCWA-SE was commenced on 13 January 2011. Dissolved oxygen levels at Ex-WPCWA and Causeway Bay Typhoon Shelter on 6, 8, 10, 17 and 26 October 2011 were exceeded. These DO exceedances were considered not related to Project.
- 5.4.8. The dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter was resumed on 26 October 2011, daily monitoring of suspended solids and 24 hours monitoring of turbidity at the cooling water intakes at C7 was be conducted. No project-related exceedance was recorded in the daily SS monitoring and 24 hours turbidity monitoring.
- 5.4.9. 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.
- 5.4.10. 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>.

 Table 5.14
 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no. Water	Mid-flood	Mid-ebb
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		D	0	Turb	idity	S	S	D	0	Turb	oidity	S	S
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	1	1	0	1	0	0	0	1	0	0
	WSD15	0	0	0	2	0	2	0	0	1	1	0	0
	WSD17	0	0	3	2	0	5	0	0	2	0	0	0
	C8	0	0	1	2	1	0	0	0	4	0	0	0
	C9	0	0	1	1	0	0	0	0	0	1	0	0
HK/2009/01	WSD19	0	0	0	2	4	1	0	0	1	1	0	1
	WSD20	0	0	2	2	1	1	0	0	1	1	1	1
	WSD7	0	0	1	0	0	0	0	0	1	0	1	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	3	2	1	0	0	1	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	1	0	0	0	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	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	1	0	0	0	0	1	0	0	0
	WSD21	0	0	0	0	0	1	0	0	1	0	0	0
HY/2009/15	C7	1	0	1	0	0	0	1	0	1	1	2	0
Tot	tal	1	0	10	17	8	12	1	0	14	6	4	2

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

5.4.11. 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 5.15*.

Table 5.15	Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
	Reporting Month

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	C	DO		
		AL	LL	AL	LL	
	C6	1	0	0	0	
HY/2009/15	C7	2	1	2	0	
	Ex-WPCWA SW	0	1	2	0	
	Ex-WPCWA SE	3	2	2	0	
	6	4	6	0		

5.4.12. Investigations were found that the exceedances are not related to the Project works. The details of the recorded excedances can be referred to the Section 6.3.



5.5 Waste Monitoring Results

Contract no. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation

5.5.1. Non-inert C&D waste was disposed of in the reporting month. Details of the waste flow table are summarized in *Table 5.16*.

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	NIL	N/A
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	19.5	609.375	SENT Landfill
Non-inert C&D materials recycled, m ³	NIL	NIL	N/A
Chemical waste disposed, kg	N/A	N/A	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0 (Bulk Volume)	89,500 (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)	129,200 (Bulk Volume)	East of Sha Chau

 Table 5.16
 Details of Waste Disposal for Contract no. HY/2009/11

5.5.2. Contractor submitted a letter dated 20 July 2011 to confirm that the dredging works and dumping operation were completed.

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

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

 Table 5.17
 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	2523.90	11612.4	TKO137, TM38
Inert C&D materials	0	280.06	N/A
recycled, m ³	0	389.96	N/A
Non-inert C&D materials disposed, m ³	39.82	472.82	SENT Landfill
Non-inert C&D materials recycled, kg	4520	121437	N/A
Chemical waste disposed, kg	100	4930	N/A



Waste Type	Quantity this month		Cumulative Quantity-to-Date	Disposal / Dumping Grounds
* Marine Sediment	Sep 2011	5735 (Bulk Volume)	82305.2 (Bulk Volume)	South of Cheung Chau
(Type 1 – Open Sea Disposal), m ³	Oct 2011	142 (Bulk Volume)	82447.2 (Bulk Volume)	
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate	Sep 2011	1634 (Bulk Volume)	14233 (Bulk Volume)	East of Cha Chau
Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	Oct 2011	2997 (Bulk Volume)	17230 (Bulk Volume)	
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	(Bu	257 Ik Volume)	257 (Bulk Volume)	East of Cha Chau

*Remarks: The quantities of marine sediments in September 2011 were clarified by Contractor in this reporting month.

5.5.4. There were marine sediments Type 1 – Open Sea Disposal disposed, Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal and Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers in the reporting month. The maximum dredging rate in HKCEC3w and cross harbour water main are 235m³ and 513m³ per day respectively, which is complied with the recommended maximum dredging rate, 1500m³ per day listed in Table 2 of FEP-02/356/2009.

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

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

Table 5.18Details of Waste Disposal for Contract no. HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	8,047	46,394	TKO137
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	25	209	SENT Landfill
Non-inert C&D materials recycled, m ³	NIL	NIL	N/A
Chemical waste disposed, kg	0	2,115	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	2,714 (Bulk volume)	150,157 (Bulk volume)	South of Cheung Chau



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	0	104,390 (Bulk volume)	East of Sha Chau

5.5.6. There were marine sediments Type 1 – Open Sea Disposal disposed in the reporting month. The maximum dredging rate in submarine sewage pipelines is 480m³ per day respectively, which is complied with the recommended maximum dredging rate, 1500m³ per day listed in Table 2 of FEP-02/356/2009.

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

5.5.7. Inert and non- inert C&D waste were disposed 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	17,173.9	43,267.6	Tuen Mun Area 38
	330	394.1	TKO137 FB
Inert C&D materials recycled, m ³	NIL	184.0	To Contract HY/2009/11
	NIL	304	ex-PCWA
Non-inert C&D materials disposed, m ³	11.1	128.3	SENT Landfill
Non-inert C&D materials recycled, kg	0	13,815	N/A
Chemical waste disposed, kg	1,800	5,800	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0 (Bulk Volume)	32,900 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	7,250 (Bulk Volume)	149,852 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	300 (Bulk Volume)	3,050 (Bulk Volume)	East of Sha Chau

 Table 5.19
 Details of Waste Disposal for Contract no. HY/2009/15

5.5.8. In the reporting month, there were marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal and Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers disposed from the maintenance dredging of navigation channel and mooring area. The maximum dredging rate, 1030m³ per day in the reporting month is complied with the recommended maximum dredging rate as stipulated in FEP-04/356/2009 within the marine zones at TCBR.



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

5.5.9. Inert C&D waste was 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	568.8	1,246.8	TM38
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	0	600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	319 (Bulk Volume)	2,657 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	344 (Bulk Volume)	11,509 (Bulk Volume)	East Sha Chau

 Table 5.20
 Details of Waste Disposal for Contract no. HK/2010/06

5.5.10. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal dredging from bore-piling casing in the 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. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation

6.1.1. No exceedance was recorded in the reporting month.

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

6.1.2. No exceedance was recorded in the reporting month.

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

6.1.3. Two limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 7 and 25 October 2011 during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. The construction works were complied with the conditions under valid Construction Noise Permits during the measurement.

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

6.1.4. 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>

6.1.5. No exceedance was recorded in the reporting month.

6.2 Real-time noise Monitoring

Contract no. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation

6.2.1. No project-related exceedance was recorded in the reporting month.

6.3 Air Monitoring

6.3.1. No exceedance was recorded in the TSP monitoring in the reporting month.

6.4 Water Quality Monitoring

Contract no. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation



Lam Geotechnics Limited

- 6.4.1. Referring to the exceedances shown in Table 5.9, there were occasionally turbidity and SS exceedances were recorded at WSD10, WSD15, WSD17, C8 and C9. Investigation revealed that sea bed was disturbed by the Typhoon signal no.3 on 28 September and 3 October and Typhoon signal no.8 on 29 September and caused water quality on 28, 30 September and 3 October 2011 being was substantially affected and recorded the exceedances during Typhoon.
- 6.4.2. Other than these exceedances recorded on 28, 30 September and 3 October, Contractor's marine activities were checked and proper condition of silt curtain was provided between the barge and the seawall during the filling material transportation. Since there were numerous unknown outfalls from the nearby coastal area closed to the cooling intakes C8 and C9, it causes the potential for accumulation of pollutants near the intakes and may lead to potential water quality deterioration at the seawater intake points. The recorded turbidity and SS exceedances were considered as not project-related.

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

- 6.4.3. Exceedances of turbidity and SS level were recorded at WSD7, WSD19 and WSD20. Checked with Contractor's works, there was no dredging works at Tsim Sha Tsui and Cross Harbour Water Main. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screens were in proper condition, it was considered that recorded exceedance was no related to Project.
- 6.4.4. Turbidity and/or SS exceedances were recorded C3 on 10 and 12 October and at C4w on 10 October 2011. Checking with Contractor works, there were filling at HKCEC3W and rock bund filling works along the promenade deck which was carried out to facilitate subsequent sheet piling works on that day. The frame type silt screen at intake, frame type silt curtain for rock-filling and additional silt curtain along the promenade deck were deployed. Other than that, Contractor's daily records were checked. It shows silt curtains were deployed during filling works and both silt curtains were in proper condition in their daily inspection.
- 6.4.5. According to contractor provided information, same grade of filling materials were used for filling works during June to August 2011, no exceedance was recorded that was related to filling at that time. Nevertheless, Contractor was reminded to open the grab used for rock bund filling at lower level so as to avoid any loose materials spreading out of silt curtain and enter into the water body. Contractor has implemented the mitigation measures to replace the geotextile and add additional 20m long silt curtain at promenade deck on 13 Oct 2011 to minimize the water quality impact arising from the rock-filling. After reviewing the trend of water quality data, the remedial measures have function effectively and no further exceedance was recorded the week after the exceedance.

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

6.4.6. Turbidity exceedances were recorded at C5w on 12 and 22 October 2011 and a SS level exceedance was recorded at WSD21 on 10 October 2011. Contractor marine work activities and mitigation measures were checked, deployed silt screen at intake and silt curtain at western temporary sheet pile were observed in proper condition during the water quality monitoring. It was concluded that these exceedances were not related to the Project works.



6.4.7. A turbidity level at WSD21 was exceeded the Action Level on 30 September 2011. The contractor's marine work and mitigation measures were checked. Investigation revealed that it was substantially affected after Typhoon signal no.3 on 30 September 2011 and a non-Project related exceedance.

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

6.4.8. Occasional DO, turbidity or SS level exceedances were recorded at C7 in this reporting month. The major marine works activities were the general filling works and maintenance dredging during the date of recorded exceedances. The daily silt screen and silt curtain inspection recoded were checked in proper condition. No sign of traceable source was visualized and identified during monitoring. These exceedances were considered as the natural variation and not related to the Project works.

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

- 6.4.9. No exceedance was recorded in the reporting month.
- 6.4.10. Summary for notification of exceedances can be referred to <u>Appendix 6.2</u>.

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.

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

- 6.6.1. When the project-related exceedances were recorded at C3 and C4w on 10 October and C3 on 12 October 2011, repeated in-situ measurement and additional turbidity measurement were immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen for checking of relation from the rock filling works.
- 6.6.2. Contractor has implemented the mitigation measures to replace the geotextile near the water monitoring station C3 and add additional 20m long silt curtain at promenade deck on 13 Oct 2011 to minimize the water quality impact arising from the rock-filling. Diver inspection on the silt screen and silt curtain was conducted on 14 October 2011. After reviewing the trend of water quality data, the remedial measures have function effectively and no further exceedance was recorded the week after the exceedance.

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. From the Monthly EM&A report (September 2011) of Central Reclamation Phase III (CRIII) the key works in October 2011 are as follows:
 - Type A filling in FRAW and FRAE above +2.5mPD;
 - General filling works above +2.5mPD in IRAE;
 - Surcharging in FRAW and FRAE;
 - Installation of removable panels at caisson;
 - Installation of remaining seawall blocks and retaining wall on the west side of culvert F
 - Construction of storm and foul drainage and gullies in hinterlands for Road P2 and Road D9;
 - Roadworks for Road P2;
 - Construction of GPO boundary wall;
 - Construction of PLA boundary wall and entrance;
 - Construction of Promenade enhancement works;
 - Construction of buildings at PLA berth;
 - Road P2 Underpass structures;
 - Construction of CWB structure;
 - Backfilling and waterproofing works for CWB structure;
 - Importation of fill material; and
 - Strengthening of Man Yiu Street Footbridge
- 7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities at Reclamation Shoreline Sub-zones under Wan Chai Development Phase II were the filling works at NPR2E, dredging and filling at HKCEC3w, dredging at submarine sewage pipelines, seawall block construction and filling at TCBR1W, maintenance dredging of navigation channel and mooring area and marine bored piling at MTR Tunnel Crossing in the reporting month. The major environmental impact was water quality impact at North Point, Causeway Bay and Wan Chai.
- 7.0.4. The major environmental impacts generated from the filling work at Central Reclamation Phase III were only located along the coastline of Central and Admiralty while the adverse water impact was only located in the HKCEC water channel in relation to the rock filling operation causing exceedances in HKCEC water channel in this reporting month. Thus, it was unlikely to have cumulative impact from CRIII. It is evaluated the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/11, HK/2009/01, HK/2009/02, HY/2009/15 and HK/2010/06. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HY/2009/11 were carried out on 4, 12, 18 and 25 October 2011. The results of these inspections and outcomes are summarized in *Table 8.1*.

ltem	Date	Observations	Action taken by Contractor	Outcome
111004_01	4-Oct-11	observed.	contaminated top	Completion as observed on 12-Oct-11
111012_01	12-Oct-11	Not particular finding		
111018_01	18-Oct-11	Not particular finding		
111025_01	25-Oct-11	Some remaining soil on the seawall. Constructor need to clean it (at Channel V) within one week.		Completion as observed on 1-Nov-11

Table 8.1 Summary of Environmental Inspections for Contract no. HY/2009/11

8.0.3. Five site inspections for Contract no. HK/2009/01 were carried out on 28 September, 4, 12, 20 and 26 October 2011. Results of these inspections and outcomes are summarized in Table 8.2.

ltem	Date	Observations	Contractor	Outcome
110928_01	28-Sep-11	Sand bags at the edge of HKCEC site boundary shall be enhanced.	Providing the sand bags at the edge of HKCEC site boundary	Completion as observed on 4-Oct-11
111004_01	4-Oct-11	No particular finding.		
111012_01	12-Oct-11	Silty water was observed at sedimentation tank at TST. Contractor was reminded to slow down the flow rate or other measures so as to settle the sediment	Slowing down the flow rate of the water discharge	Completion as observed on 20-Oct-11
111012_02	12-Oct-11	Silt curtain at jetty barge shall be repaired. Besides, the filling material at the walkway of barge shall be removed	Removal of the fill material at walkway and maintenance of the silt curtain	Completion as observed on 20-Oct-11
111020_01	20-Oct-11	Oil stains was observed underneath the drill rig at TST. Contractor shall clear it and provide maintenance works to the plant.	Removal of the contaminated soil and providing the maintenance of the plant	Completion as observed on 26-Oct-11
111020_02	20-Oct-11	Drill rig at TST was located close to the branches of the trees. The plants shall be removed away from the trees.	Protective fence was provided to the trees.	Completion as observed on 26-Oct-11
111026_01	26-Oct-11	The contractor was reminded to tidy up the North gate at HKCEC. As mud was observed exceed the wheel washing facility. Also, sand bag shall be provided or replaced for the gully protection near the	Replacement of new sand bags near the site entrance.	Completion as observed on 2-Nov-11

 Table 8.2
 Summary of Environmental Inspections for Contract no. HK/2009/01



ltem	Date		Action taken by Contractor	Outcome
		site entrance.		

8.0.4. Five site inspections for Contract no. HK/2009/02 were carried out on 30 September, 6, 13, 19 and 27 October 2011 during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.3*.

ltem	Date	Observations	Action taken by Contractor	Outcome
110930_01	30-Sep-11	Discarded cement bags shall be covered or disposed properly.	Covering the discarded cement bags	Completion as observed on 6-Oct-11
111006_01	6-Oct-11	Slurry in the U-Channel at ex. Pet Garden shall be removed	Removal of the slurry in U-channel	Completion as observed on 13-Oct-11
111006_02	6-Oct-11	Barrier at two barge shall be maintained to avoid the muddy water spillage to the sea	Maintenance the barges	Completion as observed on 13-Oct-11
111006_03	6-Oct-11		Well covering the cement bags and providing proper shelter during grouting works.	Completion as observed on 13-Oct-11
111013_01	13-Oct-11	Oil Stain was found next to the drip trap at ex. Pet Garden (near Gate 1). Contractor shall clear and dispose of as chemical waste		Completion as observed on 19-Oct-11
111019_01	19-Oct-11	Floating refuse near eastern seawall shall be removed.	Removal of the floating debris.	Completion as observed on 27-Oct-11
111027_01	27-Oct-11	The contractor was reminded to beware of the silty water after car washing from spilling out to the public road at Gate 2.	Keep maintenance the vehicle washing facilities in proper function	Completion as observed on 3-Nov-11
111027_02	27-Oct-11	Drip tray should be provided to the oil containers near jacking pit.	Providing drip tray underneath the oil containers	Completion as observed on 3-Nov-11
111027_03	27-Oct-11	Protection should be provided to the trees inside the site boundary in front of Harbour Road Sport Centre.	Protective fence was provided.	Completion as observed on 3-Nov-11

Table 8.3 Summary of Environmental Inspections for Contract no. HK/2009/02

8.0.5. Four site inspections for Contract no. HY/2009/15 were carried out on 4, 11, 18 and 25 October 2011 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/2009/15

ltem	Date	Observations	Action taken by Contractor	Outcome
111001_01	4-Oct-11	The contractor was reminded to tidy up the site entrance at Ex. Fire boat station as slurry overflow from the mud pit at the area of piling	entrance at Ex-Fire	Completion as observed on 11-Oct-11
111011_01	11-Oct-11	Clean water shall be used for wheel washing (portion 13, TS1)	wheel washing	Completion as observed on 18-Oct-11
111011_02	11-Oct-11	Floating refuses shall be collected	Collect floating	Completion as

ltem	Date	Observations	Action taken by Contractor	Outcome
		(TS1)	refuse	observed on 18-Oct-11
111011_03	11-Oct-11	Gaps between seawall blocks shall be filled by gap filter	Fill the gaps between seawall blocks	Completion as observed on 18-Oct-11
111011_04	11-Oct-11	Hoarding shall be erected as soon as practicable (TS4)	Erect Hoarding	Completion as observed on 18-Oct-11
111011_05	11-Oct-11	Stockpile shall be covered by tarpaulin (TS4)	Covering the stockpile by tarpaulin	Completion as observed on 18-Oct-11
111018_01	18-Oct-11	Stockpile of rock was observed stored outside the rock bund at TS4. The contractor was reminded filling for reclamation shall be conducted behind seawall.	Remove the stockpile exceed rock bund and conduct filling for reclamation behind seawall	The stockpile observed on 18 Oct was rectified as observed on 25 Oct 2011.
111018_02	18-Oct-11	Slurry (muddy water) leakage was observed at the site entrance at TS1. That muddy water shall be treated properly prior discharge.	Treated muddy water properly prior discharge	Completion as observed on 25-Oct-11
111025_01	25-Oct-11	Stockpile of soil was observed exceed rock bund, the contractor should remove it. They also reminded again that filling for reclamation should behind seawall.	Conduct filling for reclamation behind seawall	Completion as observed on 1-Nov-11

8.0.6. Four site inspections for Contract no. HK/2010/06 were carried out on 4, 10, 20 and 24 October 2011 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.5*.

Table 8.5	Summary of Environmental Inspections for Contract no. HK/2010/06
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ltem	Date		Action taken by Contractor	Outcome
111004_01	4-Oct-11	checked and maintained to avoid		Completion as observed on 10-Oct-11
111010_01	10-Oct-11	no particular finding		
111020_01	20-Oct-11	for the mud transshipment shall be repaired.	Using a proper tarpaulin sheet for the mud transshipment	Completion as observed on 24-Oct-11
111024_01	24-Oct-11	no particular finding		



9. Complaints, Notification of Summons and Prosecution

- 9.0.1. There was one environmental complaint received on 14 October 2011 for the investigation and follow-up action in the reporting month.
- 9.0.2. The complainant, Ms. Tam complained via hotline 1823 about 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). RSS notified ET to carry out investigation on 17 October 2011.
- 9.0.3. The location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main re-provision works along the Harbour Road. The plants including the excavator have been checked before using 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. After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. Contractor was reminded to enhance regular checking and maintenance to all plants at site. 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.
- 9.0.4. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*.
- 9.0.5. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	22
October 2011	1
Project-to-Date	23

Table 9.1 Cumulative Statistics on Complaints

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



10. Conclusion

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/11	 Reclamation works; Geo-textile laying; Slotted panel fixing; Drainage Construction works; Installation of berm blocks; Outfall construction works (Open Channel U); Construction of in-situ mass concrete cooping, Construction of granite facing stone; Installation of precast coping to seawall type 6 & 7; and Construction of FEHD carpark and associated works 	 To avoid concurrent noisy operation To locate the plant and equipments far away to the noise sensitive receivers Daily visual inspection of silt screen and silt curtain to ensure its operation properly Daily clearance of floating debris behind the silt screen
HK/2009/01	 Reclamation of HKCEC3w (up to CH110) within the HKCEC water Channel; Rockfilling for sheet pile water channel from CH120 to CH160; Installation of sheet pile water channel at Dome Promenade (from CH120 to CH160); Dredging of Type 3 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui; Installation of of cross-habour watermains nos. B10; A11/B11 and A12/B12; Sheet pile installation at TST for the subsequent trenches of the proposed cross-habour watermains A17/ B17; Installation of pope pile wall and the associated ground treatment works for the trenches excavation of the proposed cross-harbour watermains nos. A18/ B18; Mainlaying wouks at Zone A1-2 would be completed by Nov 211 and the closure at Zone A1-1 would be completely reinstated and reopened to the public. Mainlaying works at Zone B1-4 would be completed in early Nov 2011 and the works had been completely reinstated and reopened 	 To conform the installation and setting as in the silt screen deployment plan Frequency spray water on the dry dusty road and on the surface of concrete breaking To cover the dusty material or stockpile by impervious sheet To space out noisy equipment and position as far as possible from sensitive receiver. To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance. Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum Daily visual inspection of silt screen and silt curtain to ensure its operation properly

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



Contract No.	Key Construction Works	Recommended Mitigation Measures
	 to the public. Works would be continued out at Zone A2-3B; A3-3; A3-2A; A4-3B; A4-3C; A5-5 B4-2 and B4-5. Heading nos. H2; H5 and H7 (Mainlaying works by trenchless method); Heading Nos. H1 and H4 (Mainlaying works by trenchless method) would be commenced after their corresponding jacking pits had been excavated in Fenwick Pier Street and Convention Avenue respectively. Heading Nos. H3 and H6 (Mainlaying works by trenchless method) would be commenced after their discrete and Convention Avenue respectively. Heading Nos. H3 and H6 (Mainlaying works by trenchless method) would be commenced after the hand dug tunneling works in the vicinity and been completed Operating Tseung Kwan O Public 	
HK/2009/02	 Operating Tseuing Kwan of Public Fill Sorting Facility; Construction of passenger terminal; Complete demolition of remaining finger pier; Commence 300mm thick slab construction at Expo Drive East; Construction for bus shelter at Expo Drive East; Construction of mass seawall coping at Expo Drive East; Construction of mass seawall coping at Expo Drive East; Trench excavation and pipe laying works along Harbour Road; Trench excavation and deck over at Tonnochy Road; Complete pre-bored H-pile for box culverts N1; Complete Re-bar fixing for vent shaft at P7, P8 & P9 pump stations; Construction above -0;8mPDat Wan Shing Street for WSD Salt Water Intake; Pipeline jacking WSD intake A; Pre-bored sheet pile works for salt water intake culvert Bay1b & Bay 2; Pre-bored H-pile for Box Culvert N1 at WCR1 Area; Grouting plug in piles of New Ferry Pier; Concreting for marine piles at new ferry pier; Dredging and fabrication of HDPE pipe diffuser section for submarine outfall pipes; Excavation and lateroal support for receiving pits at Hung Hing Road; Installation of temporary sheet piles wall at WCR2; 	 To cover the dusty material or stockpile by impervious sheet; Frequency spray water on the dry dusty road and on the surface of concrete breaking To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission To conform the installation and setting as in the silt screen and silt curtain deployment plan Movable noise barrier shall be deployed for demolition works Daily visual inspection of silt screen and silt curtain properly

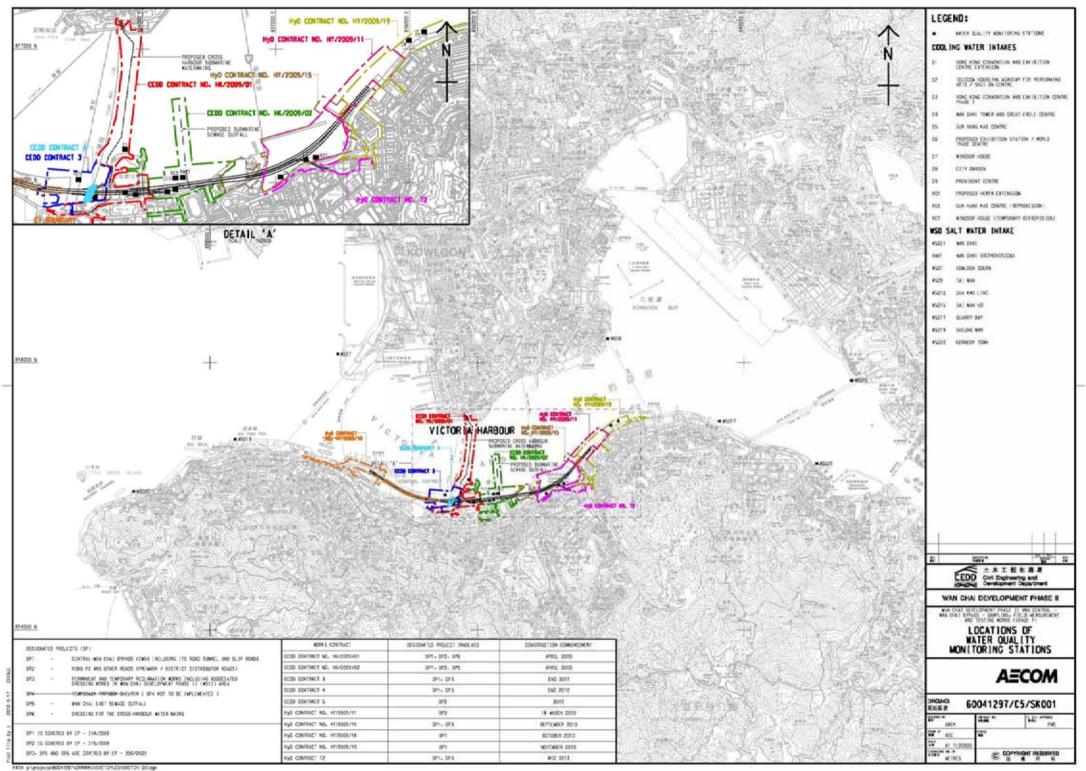


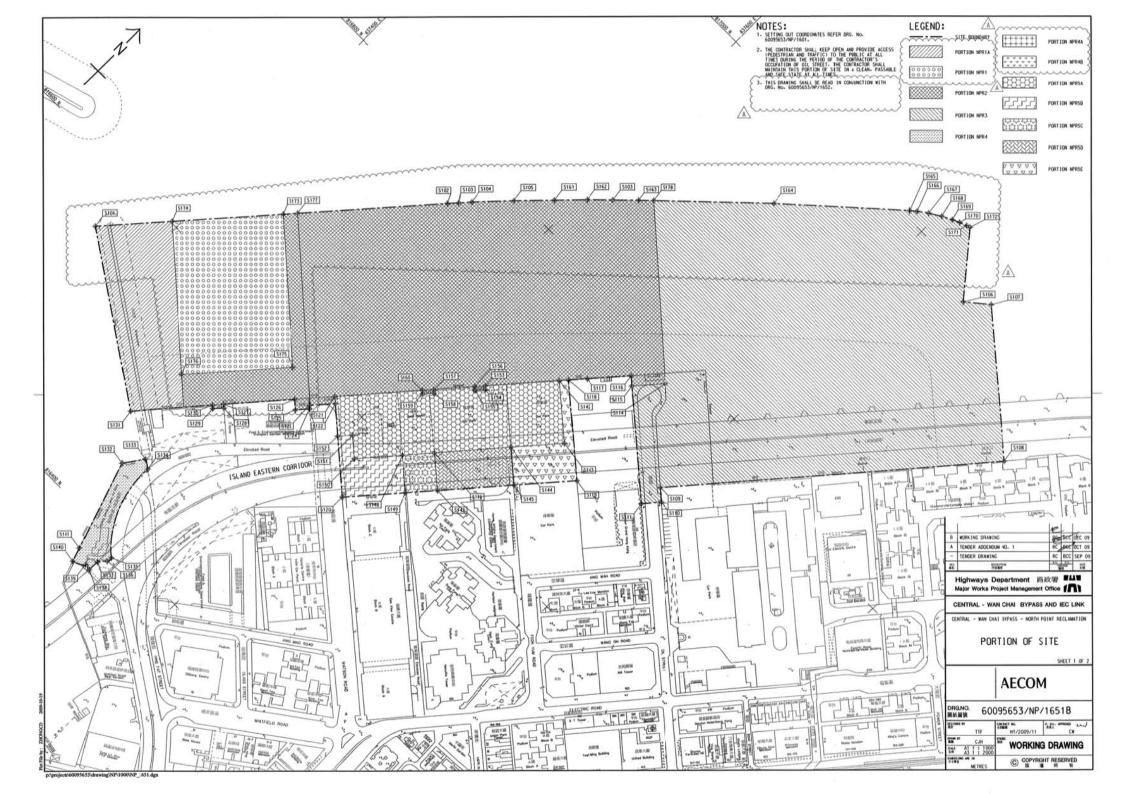
Contract No.	Key Construction Works	Recommended Mitigation Measures
	Installation of the temporary water diversion steel frame	
HY/2009/15	 Dredging at south-west corner of CBTS; and Night time protection works at CHT 	 To conform the installation and setting as in the silt screen and silt curtain deployment plan Frequency spray water on the dry dusty road and on the surface of concrete breaking To cover the dusty material or stockpile by impervious sheet To space out noisy equipment and position as far as possible from sensitive receiver. Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HK/2010/06	 Installation of bored pile casing; Excavation of bored piles; Bored Pile Concreting; Pre-drilling works; and Installation of temporary staging platforms 	 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

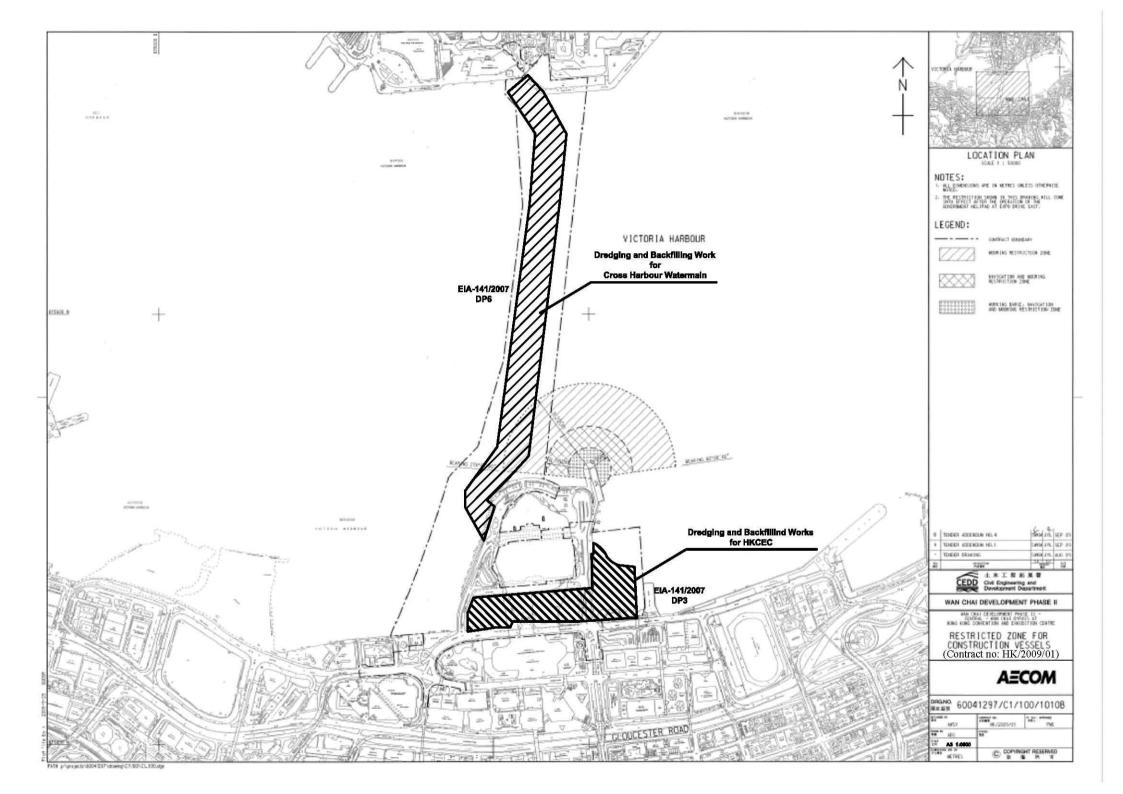


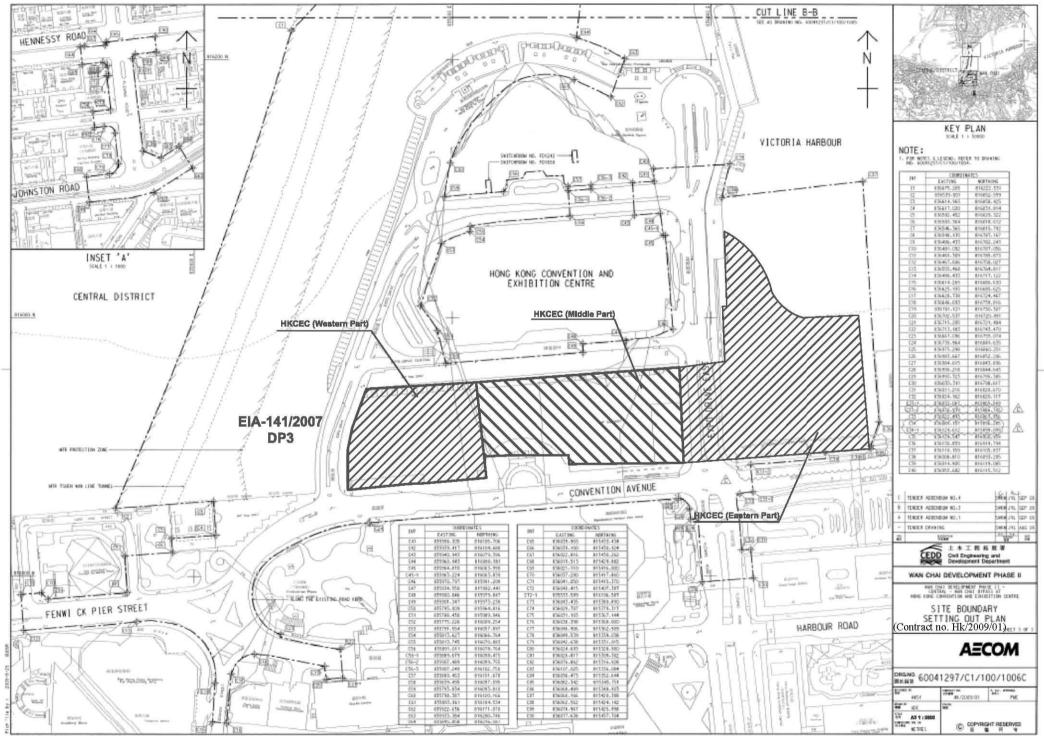
Figure 2.1

Project Layout

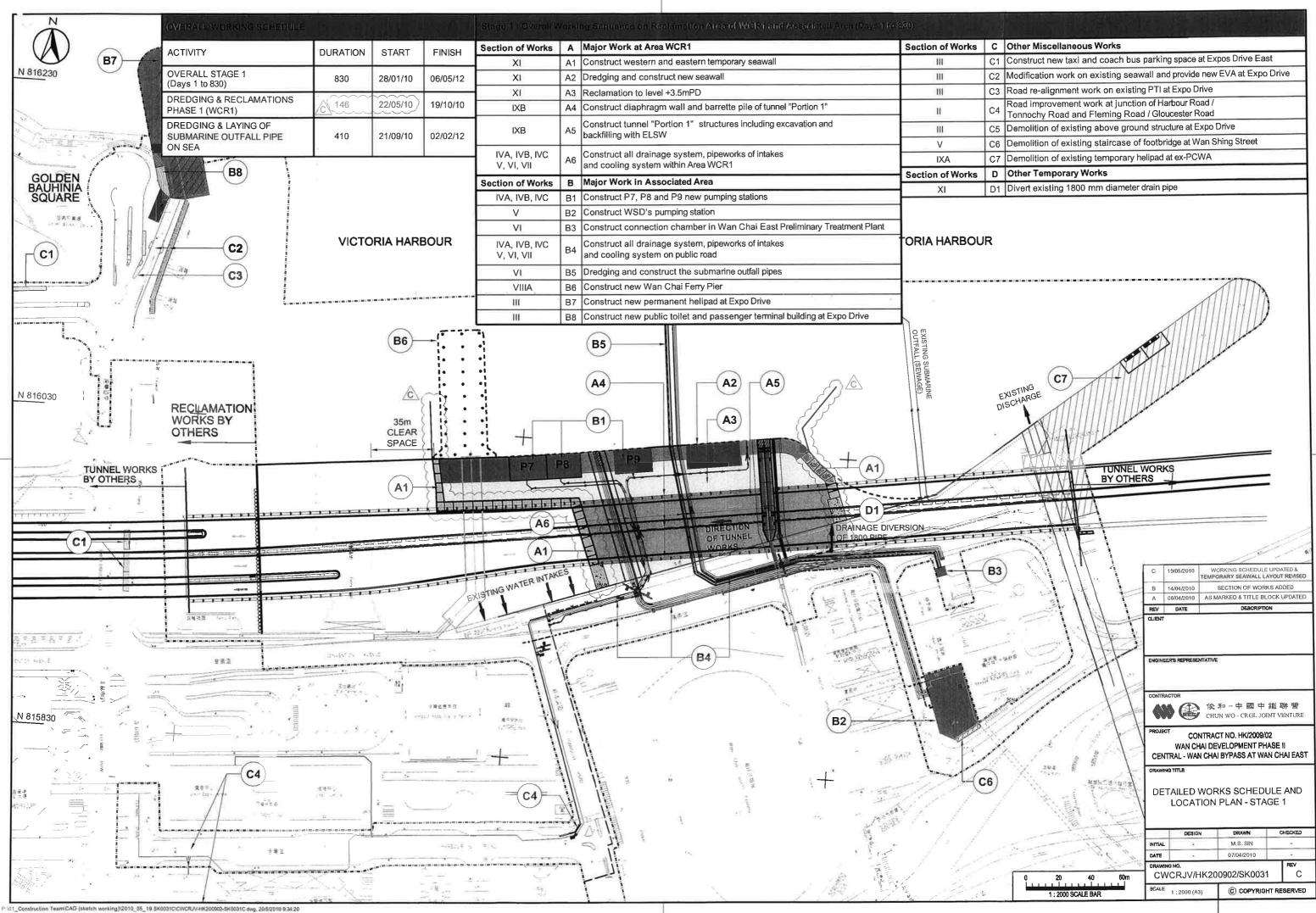




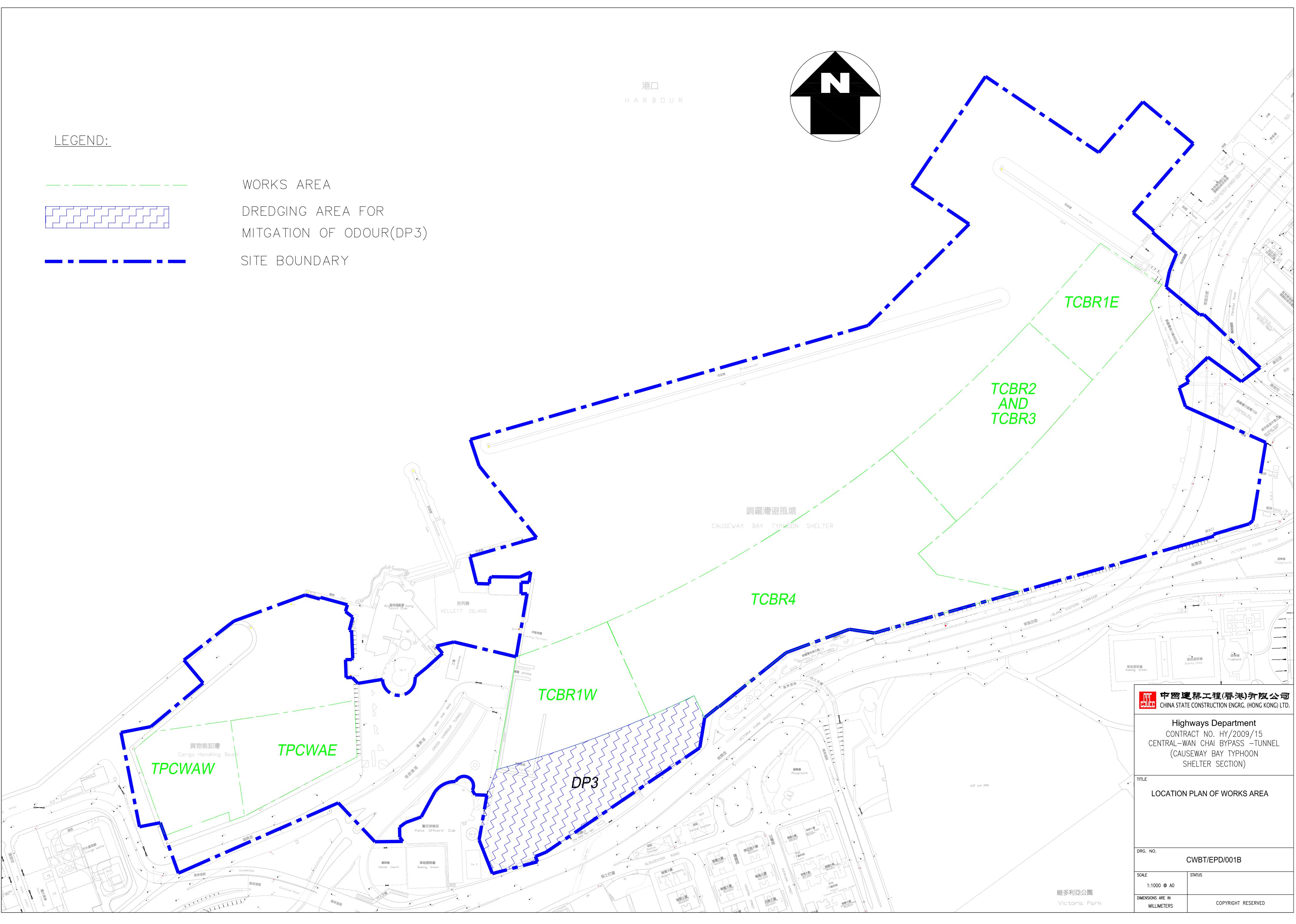


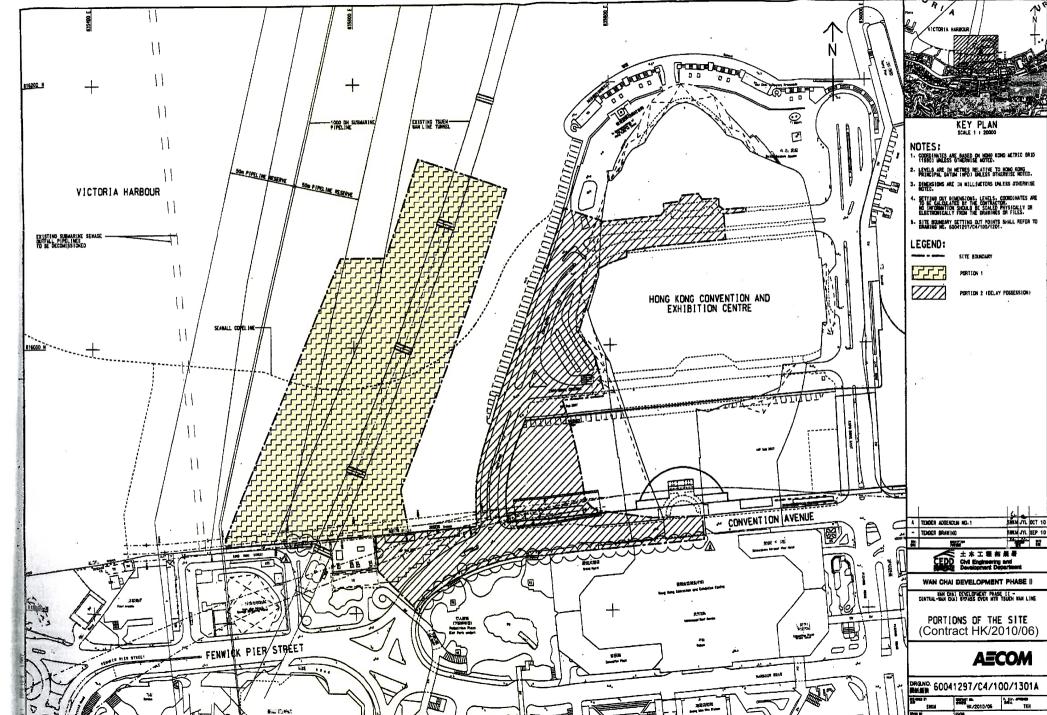


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С	Other Miscellaneous Works
C1	Construct new taxi and coach bus parking space at Expos Drive East
C2	Modification work on existing seawall and provide new EVA at Expo Drive
C3	Road re-alignment work on existing PTI at Expo Drive
C4	Road improvement 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



Project Organization Chart

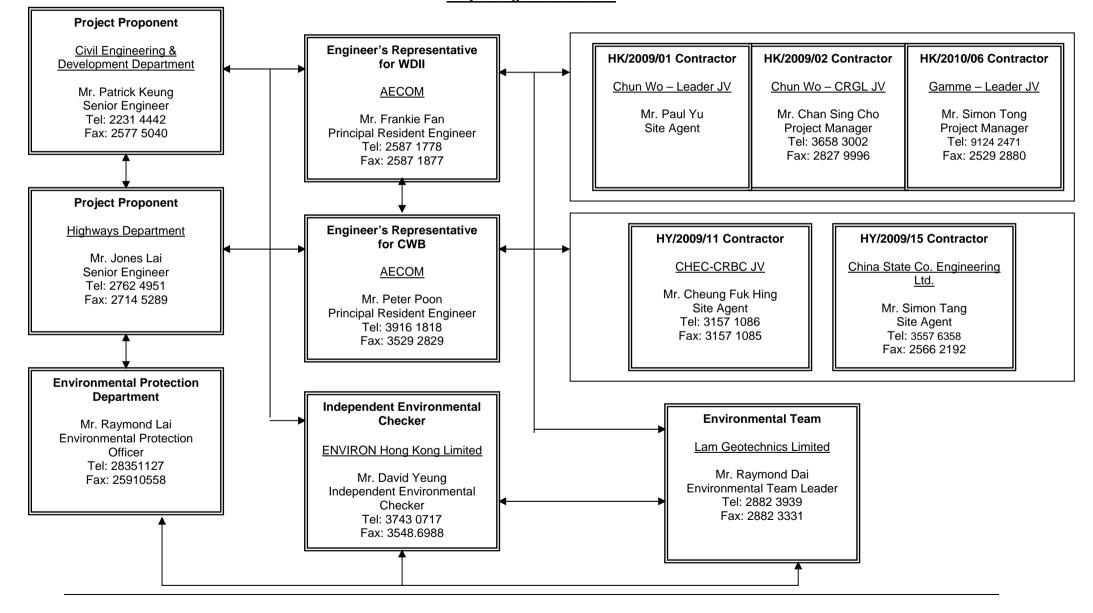
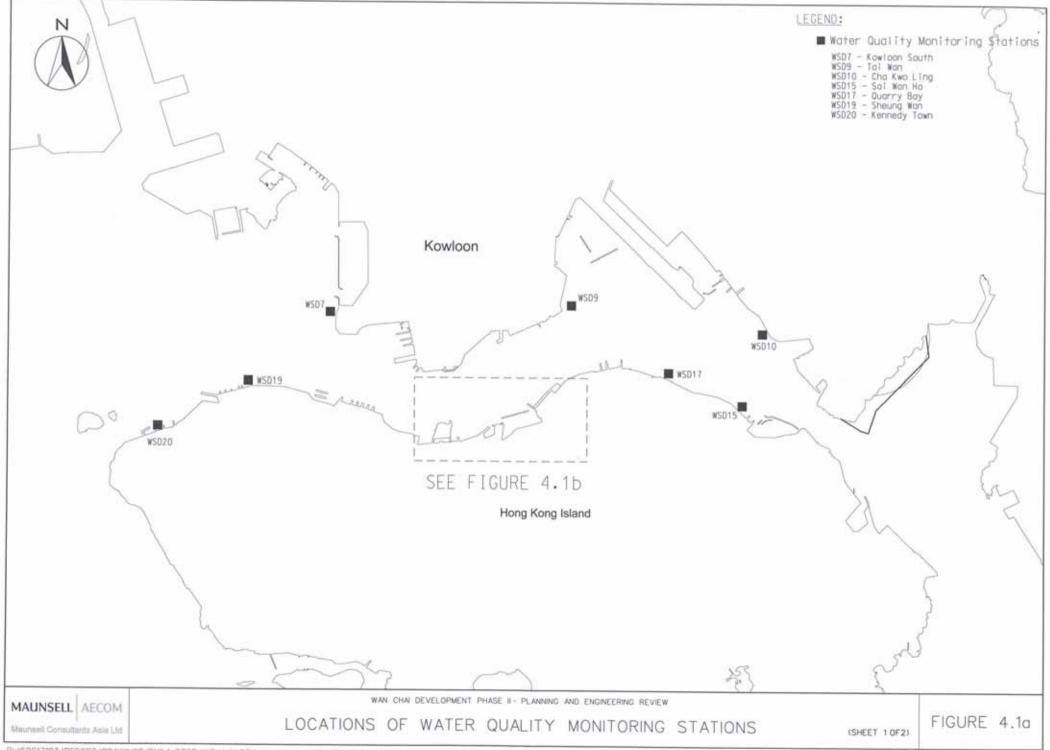




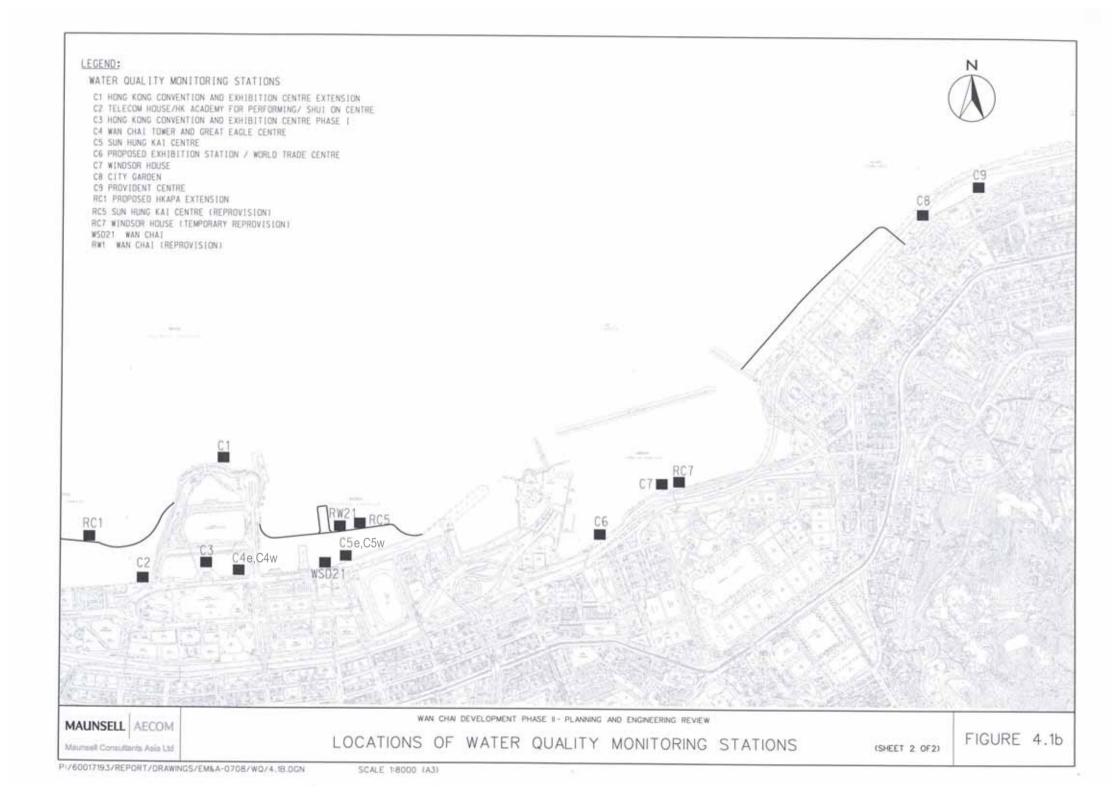
Figure 4.1

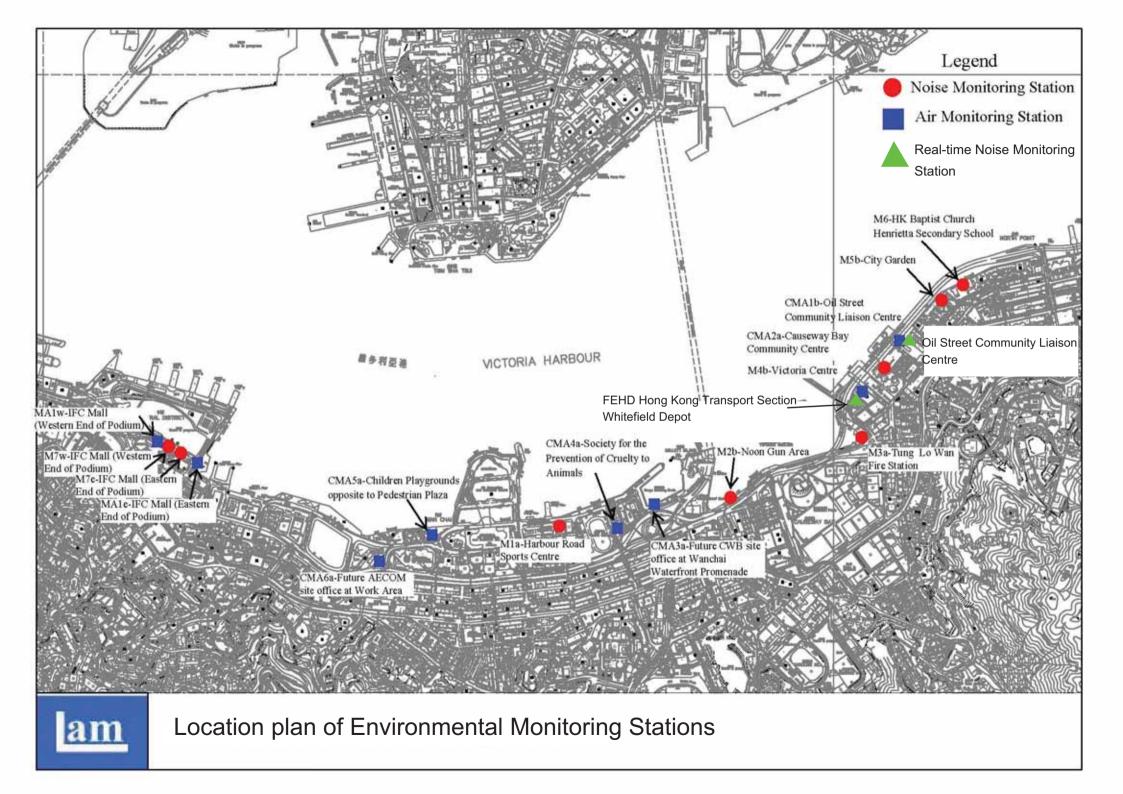
Locations of Monitoring Stations

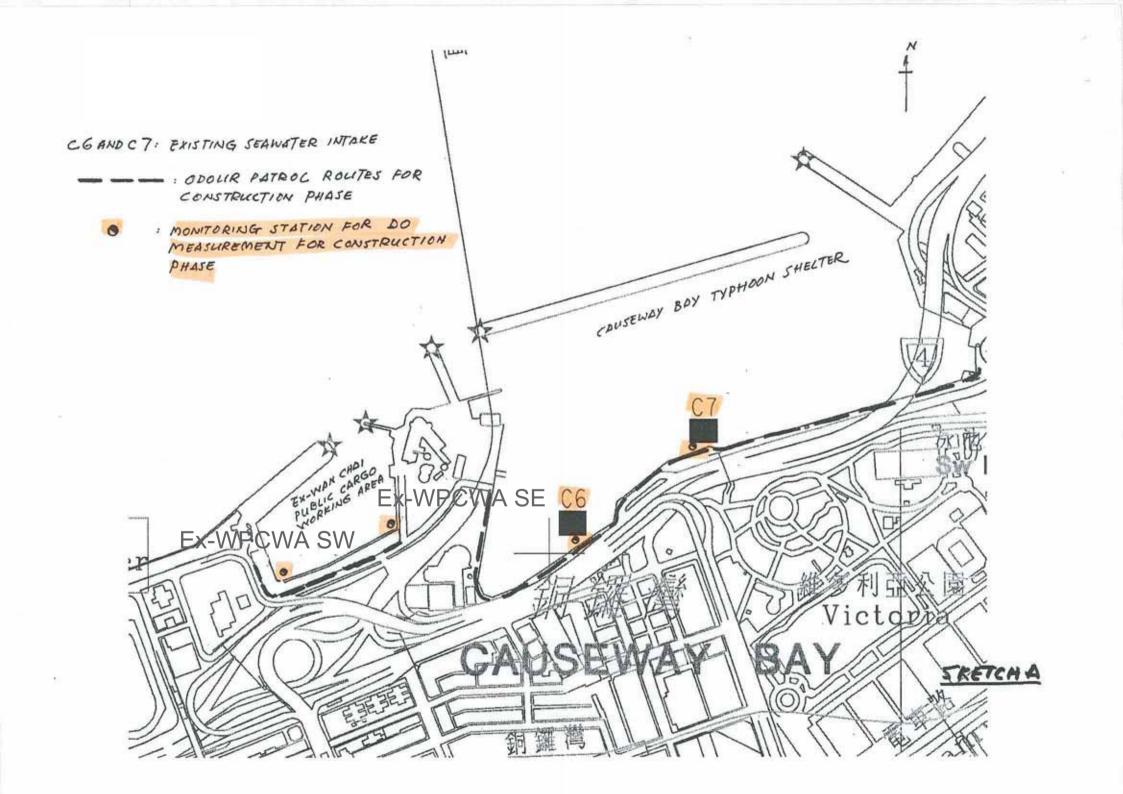


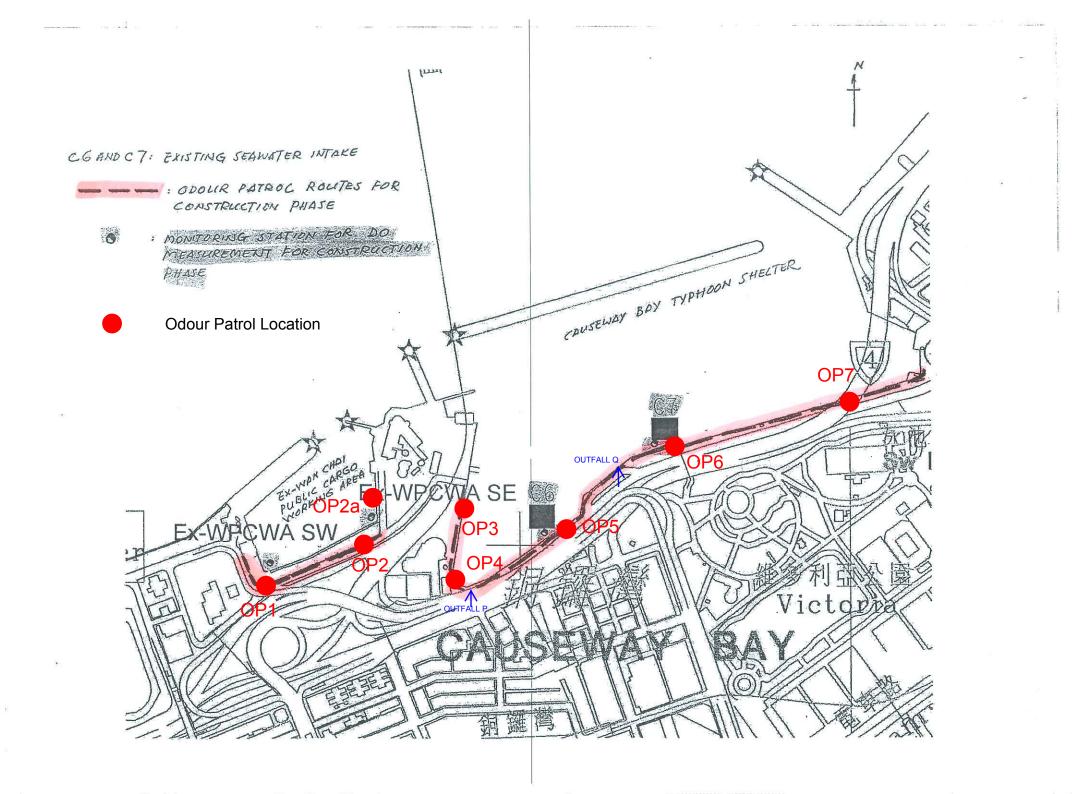
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Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
		Location / Thing	Agent	Des	С	0	Dec	and Guidelines
Constructio								
For the Wh			-					1
S3.6.5	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/2009/05

Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
LITI	Environmental Protection Weasares / Mitigation Weasares	Location / 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></u>		√			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation I For the What								

² CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines EIAO-TM
2001000		Liotation / Timing	Agent	Des	С	0	Dec	
S3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on- going odour impacts at the ASRs.	e Breakwater)/First 5-year f period of operation phase	CEDD ¹			V		
For DP1 -	CWB (Within the Project Boundary)							
S3.6.53 -	The design parameters of the East and Central Ventilation	East and Central	HyD					
S3.6.54	Buildings as set in Tables 3.10 and 3.11	Ventilation Buildings / During operation of the Trunk Road						
\$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/2009/05 Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

Monthly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
			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. 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	 Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. 							
	• Mobile plant, if any, shall be sited as far away from NSRs as possible.							
	 Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. 							
	 Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 							
	• Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on- site construction activities.							
DD1	CWB (Within the Project Boundary)							

Contract No: HK/2009/05

Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Iı	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
S4.8.3 – S4.8.5	 Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction Substructure for IECL connection 	Work Sites / During Construction	Contractor		~			EIAO-TM, NCO
For DP2 –	WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
	8	8	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		V			EIAO-TM, NCO

Appendix 3.1

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

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
1								
Operation I	Phase							
-	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
		Look ton / Thing	Agent	Des	С	0	Dec	and Guidelines
\$4.8.14- \$4.8.18	 For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC 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	1	√ #	V		EIAO-TM

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Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
				Des	С	0	Dec	
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project					
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
		Temple	Tin Hau Temple					

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

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	•	entati ges*	on	Relevant Legislation
	Livitoninentai Procedon Measares / Mitigation Measares	Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
	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
Boundary) S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

Appendix 3.1

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Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Pro	otection Measures / I	Mitigatio	on Measures		Location /	Implementation	In		entati ges*	on	Relevant Legislation
						Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	typhoon shelter shall not be fully enclosed.					Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8	within the tempo impermeable barrie and extending dow the HKCEC1 con discharge flows fre contractor will m	asure, to avoid the acc rary embayment be r, suspended from a n to the seabed, will nmences. The bar om Culvert L to the aintain this barrier ried out and the new 0	HKCEC1, an e water surface ntractor before he stormwater payment. The ion 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 marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO	
				um Dredging Rate	Maximum Dredging							
	Reclamation Area m ³ per hour (m ³ per day) (for 16 hrs week) per day											
	Dredging along seawall or breakwater											
		North Point Shoreline Zone (NPR) 6,000 375 42,000			42,000							
	Causeway Bay	TBW	1,500	94	10,500							
	Shoreline Zone	TCBR	6,000	375	42,000							
	PCWA Zone		PCWA Zone 5,000 313 35,000								1	

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Wan Chai Development Phase II and Central-Wan Chai Bypass -
Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / M	ntal Protection Measures / Mitigation Measures December 2010 / Implementation Stages*							on	Relevant Legislation
Lint Ker		ingunon meusures		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone HKCEC Stage 1 & 3 (HKCEC) HKCEC Stage 2 Cross Harbour Water Mains Wan Chai East Submarine Sewage Pipeline Note: 1,500 m ³ per day shall be applied	6,000 375 1,500 94 6,000 375 1,500 94 1,500 94 1,500 94 1,500 94	42,000 10,500 42,000 10,500 10,500							
S5.8, Figure 5.3	seawall of WCR1. Dredging along the seawall at WCR1 1,500m ³ per day for construction of the proximity of the WSD intake), followed by western seawall (above high water mark) much as possible from further dredging ac	shall be undertak western seawall (wh y partial seawall con) to protect the adjac	en initially at ich is in close struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.			Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around seawall dredging and seawall trench filli TCBR and NP.			Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	2009 with concurrent Bay, Sheung W dredging activities at Cooling water		an Ho, Quarry on South ong Convention	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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

EIA Ref	Environmental Protection	1 Measures / Mitigation Measures	Location /	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation
			Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone Scenario 2B in late	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre WSD saltwater intakes at Sheung Wan, Wan Chai							
	2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
\$5.8	spillage and sealed ti	include: used, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used;	Work site / During the construction period	Contractor		\checkmark			ProPECC PN 1/94; WPCO (TM-DSS)
	vessels and the seabe	d so that adequate clearance is maintained between d in all tide conditions, to ensure that undue rated by turbulence from vessel movement or							
		dredgers shall be fitted with tight fitting seals to o prevent leakage of material;							
		shall not cause foam, oil, grease, scum, litter or tter to be present on the water within the site or							
	dredged material into th	noppers shall be controlled to prevent splashing of the surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted transportation; and							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	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.							
\$5.8	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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Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Stag		on	Relevant Legislation
	Zivi oliliena i rocensi rensa es / ringaton rensa es	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, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Imple mentation of harbour-front enhancement.	CEDD <u>3</u>		~			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines														
LIII KU	Zivitoninentai Protection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec															
For the Wh	ole Project																					
S5.8	Construction Runoff and Drainage	Work site	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)														
	 use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; 	/ During the constructi on period						WPCO (IM-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; 																l					
	 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.

Appendix 3.1

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Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	on	Relevant Legislation and Guidelines
LIITIKI	Environmental i rotection measures / mitigation measures			Des	С	0	Dec	
	 required. All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. 							
	• Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
\$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		V			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	Relevant Legislation	
				Des	С	0	Dec	and Guidelines
\$5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	~			WPCO
Operation								
	B (within the Project Boundary)	·					1	
\$5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the 	CWB/During design and operational period	HyD/TD ³	N		V		WPCO
	nearby foul water manholes.Petrol interceptors shall be regularly cleaned and maintained in good working condition.							
	 Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance. 							
	• Sewage arising from ancillary facilities of CWB (for examples, car park,							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation Agent	In	nplem Stag	entati ges*	on	Relevant Legislation
		Timing		Des	С	0	Dec	and Guidelines
	 control room, ventilation and administration buildings and tu portals) shall be connected to public sewerage system. Suffic capacity in public sewerage shall be made available to the prop facilities. Road drainage shall also be provided with adequately designed silt to minimize discharge of silty runoff. The design of the operational stage mitigation measures for CWB stake into account the guidelines published in ProPECC PN "Drainage Plans subject to Comment by the EPD." All operatidischarges from the CWB into drainage or sewerage systems required to be licensed by EPD under the WPCO. 	ient ised irap hall /93 mal						

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

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
LITRO	Environmental Protection Measures / Mitigation Measures	Location / 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
\$6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 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.							

Appendix 3.1

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
	Zivi olimentar i occesion vienou es / viengation vienou es	Lioution / Thining		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							
S6.7.6	 During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved. 							

Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*		Relevant Legislation		
		Location / Timing o g e s s tt n	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			

For the Whole Project

Appendix 3.1

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş		on	Relevant Legislation
			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		V			Waste Disposal Ordinance (Cap.354)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Agent Des C O Dec Work site / During planning and design stage, and construction stage Contractor V V Image: Stage Work site / During planning and design stage, and construction stage Contractor V V Image: Stage Vork site / During planning and design stage, and construction stage Contractor V V Image: Stage Vork site / During planning and design stage, and construction Contractor V V Image: Stage Vork site / During planning and design stage, and construction Contractor V V Image: Stage vortee Image: Stage Image: Stage Image: Stage Image: Stage Image: Stage Vortee Image: Stage Image: Stage Image: Stage Image: Stage Image: Stage Vortee Image: Stage Image: Stage Image: Stage Image: Stage Image: Stage Vortee Image: Stage Image: Stage Image: Stage Image: Stage Image: Stage Vortee Image: Stage Image: Stage Image: Stage Image: Stage Image: Stage Vortee Image: Stage Image: Stage Image: Stage Image: Stage Image: Stage Vortee Image: Stage Image: Stage	Relevant Legislation					
	g		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; 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. 	planning and design stage, and construction	Contractor	V	V			

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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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	Zinnentan i recetton Menon es / Mingaton Menon es	Location / Timing	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			ETWB TCW No. 31/2004
S6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94

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

Appendix 3.1

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	ion	Relevant Legislation
	Zarnomienta i occorton Accuoa co / Arnaganon Accuoa co	Liotation / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							-
For the Wh	ole Project							
S.12.6	• The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
\$7.10	 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

Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	Implementation Stages*		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: 							Water Pollution Control Ordinance

Appendix 3.1

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*		1		Relevant Legislation
-			Agent	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 							
	 Stabilized softs shall be observed into surface 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

Appendix 3.1

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

Monthly EM&A Report

Table A13.6 Implementation Schedule for Marine Ecology

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
Constructio	on Phase							
For the Wh	ole Project - Schedule 3 DP							
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	\checkmark				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 –	Reclamation Works							
8.9.7.3	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.

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							

Contract No: HK/2009/05

Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

Monthly EM&A Report

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

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

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Envir	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Agent		1	Implementation Stages*				Relevant Legislation and Guidelines	
				0	Des	С	0	Dec		
Construction	Phase									
For the Whole	e 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	

Appendix 3.1

Contract No: HK/2009/05

Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Ieasures Location / Timing Implementation Agent		In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 – WD	II Majo	r Roads (Road P2)				1			
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	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		\checkmark			EIAO TM
For DP3 - Rec	lamatio	n Works							
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP5 - Wa	n Chai I	East Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		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

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir		entati ges*	on	Relevant Legislation and Guidelines
				0	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 - Cro	ss-Harb	our 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	ise				•			•	
For the Whole	Project	- Schedule 3 DP							
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		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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Wan Chai Development Phase II and Central-Wan Chai Bypass -Sampling, Field Measurement and Testing Works (Stage 1)

EIA Ref	Enviro	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation		Implementation Agent	In		entati ges*	on	Relevant Legislation and Guidelines
				0	Des	С	0	Dec	•
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/			\checkmark		ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases	4		1			
Table 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	$CEDD^{4}$	N	V	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	CEDD/HyD					ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	CEDD/HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP1 – CW	B (Withi	in the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD					ETWB TCW 2/2004
Figure 10.5.1-		including viaducts, vent buildings, subways, footbridges	Design Stage and						
10.5.5		and noise barriers and enclosure.	Operation Phases						
Table 10.6,	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	HyD	\checkmark	V			ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	HyD	N	V			ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	HyD		\checkmark			ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP2 – WD	II Major	· Roads (Road P2)							

⁴ CEDD will identify an implementation agent

EIA Ref	Envire	onmental Protection Measures / Mitigation Measures	Location / Timing	ation / Timing Implementation Agent		Implementation 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

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

Appendix 3.1



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 Leve	el in μ g/m ³	24-hour TSP Le	evel in μ g/m ³
	Action Level	Limit Level	Action Level	Limit Level
CMA1b Note 2	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a Note 2	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5a Note 2	332.0	500	181.0	260
CMA6a Note 2	300.1	500	187.3	260

Note 2:

- As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.

- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations.

Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet S	eason				
Falameter 5	Action	Limit	Action	Limit				
WSD Salt Water Intake								
SS in mg L ⁻¹	13.00	14.43	16.26	19.74				
Turbidity in NTU	8.04	9.49	10.01	11.54				
DO in mg/L	3.66	3.28	3.17	2.63				
Cooling Water 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



Copies of Calibration Certificates



Calibration Certificate

Certificate No. 06680	Page 1 of 4 Pages
Customer: Lam Geotechnics Limited	
Address : 11/F, Centre Point, 181-185 Glouceste	r Road, Wanchai, Hong Kong,
Order No.: Q02553	Date of receipt : 18-Nov-10
Item Tested	
Description : Precision Integrating Sound Level Met Manufacturer : ACO Model : Type 6224	er Serial No. : 050112
Test Conditions	
Date of Test: 19-Nov-10	Supply Voltage :
Ambient Temperature : $(23 \pm 3)^{\circ}C$	Relative Humidity : (50 ± 25) %
Test Specifications	
Calibration check. Ref. Document/Procedure: Z01,	
Test Results	
All results were within the IEC 651 Type 1 & 804 Type The results are shown in the attached page(s).	I Specification.
Main Test equipment used:	
Equipment No. Description Cert	No. Traceable to
S017A Multi-Function Generator 0080	04 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.

04062

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

.

S024

Approved by : Dorothy Cheuk

NIM-PRC & SCL-HKSAR

Date: 23-Nov-10

This Certificate is issued by: Hong Kong Calibration Ltd. Unit 88, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong, Tel: 2425 8801 Fax: 2425 8646

Sound Level Calibrator

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Calibration Certificate

Certificate No. 06680

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Results :

1. SPL Accuracy

UU	JT Setting			
Level Range (dB)	Weight	Time Const.	Applied Value (dB)	UUT Reading (dB)
20-100	LA	Fast	94.0	94.3
and the second se		Slow		94.3
	L _C	Fast		94,3
30-120	LA	Fast	94.0	94.4
		Slow		94.4
	L _C	Fast		94.4
30-120	L _A .	Fast	114.0	94.3
		Slow		94.3
	Lċ	Fast	· · · · · · · · · · · · · · · · · · ·	94.3

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	Applied	UUT Rdg	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	114.5	+0.1	$\pm 0.7 \mathrm{dB}$
130	104,0	104,4	0.0	
120	94.0	94.4 (Ref.)	— —	
110	84.0	84.1	-0.3	
100	74.0	74.2	-0.2	
90	64.0	64.1	-0.3	
80	54.0	54.1	-0.3	

Uncertainty : ± 0.1 dB

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3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.1	-0.3	± 0.4
	94.0	94.4 (Ref.)		
	95.0	95.4	0,0	± 0.2

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

4. Frequency Weighting

A weighting

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

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



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Certificate No. 06680

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4. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	.39.9	$\pm 0.5 \text{ dB}$
1/10 ²	40.0	39.9	'
1/103	40.0	40.3	± 1,0 dB
1/104	40.0	40.3	

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

Remark : 1. UUT : Unit-Under-Test

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

----- ENÖ -----

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Calibration Certificate

Certificate No. 06681	Page 1 of 2 Pages					
Customer: Lam Geotechnics Limited						
Address : 11/F, Centre Point, 181-185 Gloucester Road	11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong.					
Order No. : Q02553	Date of receipt : 18-Nov-10					
Item Tested						
Description : Sound Level Calibrator (EL469)						
Manufacturer : ACO						
Model :	Serial No. : 050213					
Test Conditions						
Date of Test: 19-Nov-10	Supply Voltage :					
Ambient Temperature : (23 ± 3)°C	Relative Humidity : (50 ± 25) %					
Test Specifications						
Calibration check.						
Ref. Document/Procedure: F21, Z02.						
Test Results						

All results were within the IEC 942 Class 1 specification. The results are shown in the attached page(s).

Main Toot og uinmont upod

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

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

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

Calibrated by :	Approved by : Deatter			
P. F. Wong			Dorothy Cheuk	
This Certificate is issued by: Hong Kong Celibration Ltd.	Date:	23-Nov-10		
Unit 68, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Tel: 2425 6801 Fax: 2425 8646	Hong Kong.			
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Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 06681

Page 2 of 2 Pages

Results :

1. Level

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

The above measured values are the mean of 3 measurements. Uncertainty : $\pm 0.1 \text{ dB}$

2. Frequency

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

Uncertainty : $\pm 3.6 \times 10^{-6}$

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

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

Remark: 1. UUT: Unit-Under-Test

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

3. Atmospheric Pressure : 1 009 hPa.

----- END -----

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Certificate No.	12888		Page	1 of 4	1 Pages
Customer :	Lam Geotechnics Limited				
Address :	11/F., Centre Point, 181-185 (Gloucester Road, W	anchai, Hong Kon	g	
Order No. :	Q10982		Date of receip	t :	25-May-11
Item Tested					
Description :	Precision Integrating Sound L	evel Meter			
Manufacturer :	: Rion				
Model :	NL-14		Serial No.	: 10303	242
Test Conditi	ions				
Date of Test :	26-May-11		Supply Voltag	le :	
Ambient Temp	erature : (23 ± 3)°C		Relative Humi	idity : $(50 \pm$	25) %
Test Specifi	cations				
Calibration chee	ck.				
	/Procedure: Z01.				
Test Results	S				
All results were	within the IEC 651 Type 1 or I	EC 804 Type 1 spec	ification after adju	stment.	
	shown in the attached page(s)		1155		
Main Test equip		0220070 2020			92075
Equipment No.		Cert. No.		Traceable	
S017	Multi-Function Generator	C101623		SCL-HKS	& SCL-HKSAR
S024	Sound Level Calibrator	04062		NIN-1110	d ool-inoAn
will not include allo overloading, mis-ha	n this Calibration Certificate only relate wance for the equipment long term dr andling, or the capability of any other l hage resulting from the use of the equi	ift, variations with environ aboratory to repeat the m	mental changes, vibra	tion and shock	during transportation,
	t used for calibration are traceable to ply to the above Unit-Under-Test only		inits (SI).	0.400	
	1-			10	
Calibrated by	: lan	A	pproved by :	AGu	
	P. F. Wong	200		Alan Chu	
This Certificate is issued	22	Da	ate: 26-May-11		
	Industrial Centre, No. 58-76, Ta Chuen Ping Stre	et, Kwai Chung, NT, Hong Kong,			
Tel: 2425 8801 Fax: 24	25 8646				



Certificate No. 12888

Page 2 of 4 Pages

Results :

1. SPL Accuracy

	UUT Set	ting			UUT Rea	ding (dB)				
Level Range (dB)	Filter	Weight	Time Const.	Applied Value (dB)	Before adjust.	After adjust.				
40-100	OFF	Lp	Fast	94.00	655	94.1				
		LPA	Fast		*95.0	94.1				
			Slow		ier.	94.1				
		LPC	Fast			94.1				
60-120	OFF	Lp	Fast	94.00		94.1				
			12031310			14031310	LPA	Fast	in the second	1375
				Slow			94.0			
		LPC	Fast		277	94.0				
60 - 120	OFF		114.00	122	114.0					
			LPA	Fast	The second	1.000	113.9			
		0.5502	Slow		19530	113.9				
		LPC	Fast		((111 2)	113.9				

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.2 dB

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

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Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 12888

Page 3 of 4 Pages

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.9	-0.1	± 0.7 dB
130	104.0	103.8	-0.2	
120	94.0	94.0 (Ref.)		
110	84.0	83.9	-0.1	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.3	+0.3	77

Uncertainty : ± 0.1 dB

3.2 Differential level linearity

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

Uncertainty : ± 0. 1 dB

4. Frequency Weighting

A weighting

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

Uncertainty : ± 0.1 dB

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Certificate No. 12888

Page 4 of 4 Pages

5. Time Averaging

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

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

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

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



Certificate No.	12889		Page 1 of 2 Pages
Customer :	Lam Geotechnics Limited		
Address :	11/F., Centre Point, 181-185	Gloucester Road, W	/anchai, Hong Kong
Order No. :	Q10982		Date of receipt : 25-May-11
Item Tested			
Description :	Sound Level Calibrator		
Manufacturer			
Model :	NC-73		Serial No. : 10465798
Test Condit	ions		
Date of Test :	26-May-11		Supply Voltage :
Ambient Temp	10/000		Relative Humidity : (50 ± 25) %
Test Specifi			
Calibration che			
	/Procedure : F21, Z02.		
Ner. Document	110000010.121,202.		
Test Result	S		
All results were	within the manufacturer's spe	ecification after adjus	tment.
	shown in the attached page(s		
Main Test equi	pment used:		
Equipment No.	Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	03926	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL-HKSAR
S206	Sound Level Meter	04462	SCL-HKSAR
will not include allo overloading, mis-h	wance for the equipment long term of	drift, variations with enviro r laboratory to repeat the	d at the time of the test and any uncertainties quoted inmental changes, vibration and shock during transportation measurement. Hong Kong Calibration Ltd. shall not be liabl
	it used for calibration are traceable to ply to the above Unit-Under-Test on		Units (SI).
	1		
			1-12

Calibrated by

P. F. Wong

26-May-11

Alan Chu

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

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Certificate No. 12889

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

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

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

2. Frequency Accuracy

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

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB

Uncertainty : $\pm 0.01 \text{ dB}$

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

Remark : 1. UUT : Unit-Under-Test

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

----- END -----

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Certificate No.	13813		Page	1 of	4	Pages
Customer :	Lam Geotechnics Limited					
Address :	11/F., Centre Point, 181-185 Glou	ucester Road, Wan	chai, Hong Kong			
Order No. :	Q11569		Date of receipt	:		7-Jul-11
Item Tested			11 I.			
Description :	Sound Level Meter					
Manufacturer :	B&K					
Model :	2250		Serial No.	; 273	22310)
Test Conditi	ons					
Date of Test :	8-Jul-11		Supply Voltage	:		
Ambient Temp	erature : (23 ± 3)°C		Relative Humid	ity:(50) ± 25) %
Test Specific	cations					
Calibration chec Ref. Document/	k. Procedure: Z01.					
Test Results	•					
All results were	within the IEC 651 Type 1, IEC 80	04 Type 1 & IEC 12	60 Class 1 specif	ication.		
The results are	shown in the attached page(s).					
Main Test equip	oment used:					
Equipment No.		Cert. No.		Tracea	<u>ble to</u>	
S017A	Multi-Function Generator	07279		SCL-HI	KSAR	1
S024	Sound Level Calibrator	04062		NIM-PF	RC & 3	SCL-HKSAR
will not include allow overloading, mis-ha	this Calibration Certificate only relate to t wance for the equipment long term drift, wa indling, or the capability of any other labor age resulting from the use of the equipme	ariations with environme atory to repeat the mea	ental changes, vibratio	on and sh	ock du	ring transportation,

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	: Jui
	P. F. Wong

n

Approved by : **Dorothy Cheuk** Date: 8-Jul-11

This Certificate is issued by: Hong Kong Calibration Ltd.

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

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Certificate No. 13813

Page 2 of 4 Pages

Results :

1. SPL

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

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.2 dB

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

3. Linearity

Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.8	0.0	$\pm 0.4 \text{ dB}$
	94.0	93.8 (Ref.)		
	95.0	94.8	0.0	± 0.2 dB

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



Certificate No. 13813

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 1.5 dB
63 Hz	-26.6	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	$0 dB, \pm 1 dB$
2 kHz	+1.4	$+ 1.2 \text{ dB}, \pm 1 \text{ dB}$
4 kHz	+1.2	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.8	$- 6.6 \text{ dB}, + 3 \text{ dB} \sim -\infty$

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		
1/10	40.0	40.0	$\pm 0.5 \text{ dB}$
$1/10^{2}$	40.0	39.9	
1/10 ³	40.0	40.0	± 1.0 dB
1/104	40.0	40.0	

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



Certificate No. 13813

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : $\pm 0.25 \text{ dB}$

6.2 1/3 – Octave Filter

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

Uncertainty : $\pm 0.25 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

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

----- END -----



Certificate No.	13784		Page	e 1 of	4 Pages
Customer :	Lam Geotechnics Limited			<u> </u>	<u> </u>
Address :	11/F., Centre Point, 181-185 (Gloucester Road, Wa	anchai, Hong Kon	g	
Order No. :	er No.: Q11569 Date of receipt : 6-Jul-1				
Item Tested					
Description :	Sound Level Meter				
Manufacturer :	: B&K				
Model :	2250		Serial No.	: 2722	311
Test Conditi	ons			······	
Date of Test :	6-Jul-11		Supply Voltag	1e :	
Ambient Temp	erature : (23 ± 3)°C		Relative Humi		: 25) %
Test Specifi	cations				
Calibration chec					
	Procedure: Z01.				
Test Results	\$,
All results were	within the IEC 651 Type 1, IEC	804 Type 1 & IEC 1	260 Class 1 spec	ification.	
The results are	shown in the attached page(s).				
Main Test equip	oment used:				
Equipment No.		Cert. No.		Traceable	e to
S017	Multi-Function Generator	C101623		SCL-HKS	
S024	Sound Level Calibrator	04062		NIM-PRC	& SCL-HKSAR
The values given in will not include allow	this Calibration Certificate only relate t vance for the equipment long term drift	to the values measured a , variations with environm	t the time of the test a rental changes, vibrat	and any uncert	ainties quoted
overloading, mis-ha	ndling, or the capability of any other la	boratory to repeat the me	asurement. Hong Ko	ong Calibration	Ltd. shall not be liable

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 :

U. P. F. Wond

for any loss or damage resulting from the use of the equipment.

Approved by : ____ Date: 6-Jul-11

This Certificate is issued by: D. 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. 13784

Page 2 of 4 Pages

Results :

1. SPL

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

IEC 651 Type 1 Spec. : \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

Differential level linearity

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

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



Certificate No. 13784

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.8	- 39.4 dB, ± 1.5 dB
63 Hz	-26.5	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- $8.6 dB, \pm 1 dB$
500 Hz	-3.5	$- 3.2 \text{ dB}, \pm 1 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.1	$+ 1.2 \text{ dB}, \pm 1 \text{ dB}$
4 kHz	+1.1	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.3	- $1.1 \text{ dB}, +1.5 \text{ dB} \sim -3 \text{ dB}$
16 kHz	-5.9	$- 6.6 \text{ dB}, + 3 \text{ dB} \sim -\infty$

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		
1/10	40.0	40.1	± 0.5 dB
$1/10^{2}$	40.0	40.0	
$1/10^{3}$	40.0	40.0	± 1.0 dB
1/104	40.0	40.0	

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

1



Certificate No. 13784

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : $\pm 0.25 \text{ dB}$

6.2 1/3 – Octave Filter

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

Uncertainty : $\pm 0.25 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric pressure : 996 hPa.

----- END -----



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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

WORK ORDER:	HK1122321
LABORATORY:	HONG KONG
DATE RECEIVED:	22/09/2011
DATE OF ISSUE:	27/09/2011

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:	Multimeter
Brand Name:	WTW
Model No.:	Multi 3430
Serial No.:	10410294
Equipment No.:	
Date of Calibration:	23 September, 2011

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:
 852-2610 1044

 Fax:
 852-2610 2021

 Email:
 hongkong@alsglobal.com

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

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Page 1 of 2

ADDRESS 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong PHONE +852 2610 1044 FAX +852 2610 2021 ALS TECHNICHEM (HK) PTY LTD Part of the ALS Laboratory Group A Campbell Brothers Limited Company

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:	HK1122321
Date of Issue:	27/09/2011
Client:	LAM GEOTECHNICS LIMITED



Description:	Multimeter
Brand Name:	WTW
Model No.:	Multi 3430
Serial No.:	10410294
Equipment No.:	
Date of Calibration:	23 September, 2011

Date of next Calibration:

23 December, 2011

Parameters:

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.76	4.71	-0.05
5.89	5.83	-0.06
7.82	7.82	0
	Tolerance Limit (±mg/L)	0.20

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.125	0.125
7.0	7.050	0.050
10.0	9.991	-0.009
	Tolerance Limit (±unit)	0.20

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0.0	0.0	
10.0	10.3	3.0
20.0	20.4	2.0
30.0	30.5	1.7
	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.

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	10.7	-0.3
24.5	23.5	-1.0
50.0	49.2	-0.8
	Tolerance Limit (°C)	2.0

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 CHERRY MAK	WORK ORDER:	HK1116231
CLIENT:	LAM GEOTECHNICS LIMITED	LABORATORY:	HONG KONG
ADDRESS:	11/F., CENTRE POINT,	DATE RECEIVED:	14/07/2011
	181–185 GLOUCESTER ROAD,	DATE OF ISSUE:	19/07/2011
	WAN CHAI, HONG KONG.		
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:	Conductivity, Dissolved Oxygen pH, Salinity and Temperature
Description:	YSI Sonde
Brand Name:	YSI
Model No.:	YSI Professional Plus
Serial No.:	10G101955
Equipment No.:	N/A
Date of Calibration:	18 July, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

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Mr. Chan Kwok Fai, Godfrey

Laboratory Manager - Nong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client: HK1116231 19/07/2011 LAM GEOTECHNICS LIMITED



Description:	YSI Sonde		
Brand Name:	YSI		
Model No.:	YSI Professional Plus		
Serial No.:	10G101955		
Equipment No.:	N/A		
Date of Calibration:	18 July, 2011	Date of next Calibration:	18 October, 2011

Parameters:

	Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
	146.9	147.9	0.7
	6667	6568	-1.5
	12890	12300	-4.6
	58670	55033	-6.2
		Tolerance Limit (%)	10.0
solved Oxygen	Method Ref: APHA (21st editio	22) 45000: C	
solveu oxygen	Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
	Expected Reading (ing/L)	Displayed Reading (ing/L/	Toterance (mg/L/
	5.01	5.16	0.15
	6.45	6.63	0.18
	7.50	7.46	-0.04
		Tolerance Limit (±mg/L)	0.20
Value	Method Boft ALBUA (21st edit		0.20
Value	Method Ref: ALPHA (21st edit Expected Reading (pH Unit)		
Value		ion), 4500H:B	
Value	Expected Reading (pH Unit)	ion), 4500H:B Displayed Reading (pH Unit)	Tolerance (pH unit)
Value	Expected Reading (pH Unit) 4.00	ion), 4500H:B Displayed Reading (pH Unit) 4.14	Tolerance (pH unit) 0.14
Value	Expected Reading (pH Unit) 4.00 7.00	ion), 4500H:B Displayed Reading (pH Unit) 4.14 7.19	Tolerance (pH unit) 0.14 0.19
	Expected Reading (pH Unit) 4.00 7.00 10.0	ion), 4500H:B Displayed Reading (pH Unit) 4.14 7.19 9.98 Tolerance Limit (±unit)	Tolerance (pH unit) 0.14 0.19 -0.02
l Value linity	Expected Reading (pH Unit) 4.00 7.00	ion), 4500H:B Displayed Reading (pH Unit) 4.14 7.19 9.98 Tolerance Limit (±unit)	Tolerance (pH unit) 0.14 0.19 -0.02
	Expected Reading (pH Unit) 4.00 7.00 10.0 Method Ref: APHA (21st edition Expected Reading (ppt)	ion), 4500H:B Displayed Reading (pH Unit) 4.14 7.19 9.98 Tolerance Limit (±unit) on), 2520B Displayed Reading (ppt)	Tolerance (pH unit) 0.14 0.19 -0.02 0.20 Tolerance (%)
	Expected Reading (pH Unit) 4.00 7.00 10.0 Method Ref: APHA (21st editio Expected Reading (ppt) 10.0	ion), 4500H:B Displayed Reading (pH Unit) 4.14 7.19 9.98 Tolerance Limit (±unit) on), 2520B Displayed Reading (ppt) 10.57	Tolerance (pH unit) 0.14 0.19 -0.02 0.20 Tolerance (%) 5.7
	Expected Reading (pH Unit) 4.00 7.00 10.0 Method Ref: APHA (21st edition Expected Reading (ppt) 10.0 20.0	ion), 4500H:B Displayed Reading (pH Unit) 4.14 7.19 9.98 Tolerance Limit (±unit) on), 2520B Displayed Reading (ppt) 10.57 20.52	Tolerance (pH unit) 0.14 0.19 -0.02 0.20 Tolerance (%) 5.7 2.6
	Expected Reading (pH Unit) 4.00 7.00 10.0 Method Ref: APHA (21st editio Expected Reading (ppt) 10.0	ion), 4500H:B Displayed Reading (pH Unit) 4.14 7.19 9.98 Tolerance Limit (±unit) on), 2520B Displayed Reading (ppt) 10.57	Tolerance (pH unit) 0.14 0.19 -0.02 0.20 Tolerance (%) 5.7

Mr Chan Kwok Fal, Godfley Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client: HK1116231 19/07/2011 LAM GEOTECHNICS LIMITED



Description:	YSI Sonde		
Brand Name:	YSI		
Model No.:	YSI Professional Plus		
Serial No.:	10G101955		
Equipment No.:	N/A		
Date of Calibration:	18 July, 2011	Date of next Calibration:	11 October, 2011

Parameters:

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	12.5	0.5
24.0	24.7	0.7
33.0	33.3	0.3
	Tolerance Limit (°C)	2.0

Mr. Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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

WORK ORDER:	HK1124198
LABORATORY:	HONG KONG
DATE RECEIVED:	13/10/2011
DATE OF ISSUE:	17/10/2011

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 600XL Sonde
Serial No.:	05C1607
Equipment No.:	EL424
Date of Calibration:	17 October, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client: HK1124198 17/10/2011 LAM GEOTECHNICS LIMITED



Serial No.: Equipment No.: Date of Calibration:	YSI 600XL Sonde 05C1607 EL424 17 October, 2011	Date of next Calibration:	17 January, 2012
Parameters:			
Dissolved Oxygen	Method Ref: APHA (21st edition Expected Reading (mg/L)	on), 4500O: G Displayed Reading (mg/L)	Tolerance (mg/L)
	5.30 6.02 7.78	5.20 5.98 7.69	-0.10 -0.04 -0.09
		Tolerance Limit (±mg/L)	0.20
pH Value	Method Ref: ALPHA (21st edit Expected Reading (pH Unit) 4.00 7.00 10.0	ion), 4500H:B Displayed Reading (pH Unit) 3.93 6.91 9.93 Tolerance Limit (±unit)	Tolerance (pH unit) -0.07 -0.09 -0.07 0.20
Salinity	Method Ref: APHA (21st editi		
	Expected Reading (ppt) 10.0 20.0 30.0	Displayed Reading (ppt) 10.12 20.46 30.28 Tolerance Limit (±%)	Tolerance (%) 1.2 2.3 0.9 10.0
Temperature	assessments of the international state of the state of the state	rnational Accreditation New Zeala arch 2008: Working Thermomete	und Technical

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
12.0	11.00	-1.0
22.0	21.25	-0.8
38.0	37.73	-0.3
	Tolerance Limit (°C)	2.0

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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

WORK ORDER:	HK1118564
LABORATORY:	HONG KONG
DATE RECEIVED:	08/08/2011
DATE OF ISSUE:	10/08/2011

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
Serial No.:	931000003861
Equipment No.:	EL148
Date of Calibration:	09 August, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client: HK1118564 10/08/2011 LAM GEOTECHNICS LIMITED



Description:	Turbidimeter
Brand Name:	HACH
Model No.:	2100P
Serial No.:	931000003861
Equipment No.:	EL148
Date of Calibration:	09 August, 2011

Date of next Calibration:

09 November, 2011

Parameters:

	Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
	0.00	0.09	
	4.00	3.77	-5.8
	40.0	38.2	-4.5
	80.0	79.8	-0.3
	400	401	0.3
	800	827	3.4
		Tolerance Limit (±%)	10.0

Mr Chan Kwok Pai, Godfrey Laboratory Manager - Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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

WORK ORDER:	HK1122327
LABORATORY:	HONG KONG
DATE RECEIVED:	22/09/2011
DATE OF ISSUE:	28/09/2011

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
Serial No.:	930300002705
Equipment No.:	
Date of Calibration:	28 September, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client: HK1122327 28/09/2011 LAM GEOTECHNICS LIMITED



Description:	Turbidimeter		
Brand Name:	HACH		
Model No.:	2100P		
Serial No.:	930300002705		
Equipment No.:			
Date of Calibration:	28 September, 2011	Date of next Calibration:	28 December, 2011

Parameters:

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.00	0.35	
4.00	4.25	6.3
40.0	38.5	-3.8
80.0	80.3	0.4
400	413	3.3
800	851	6.4
	Tolerance Limit (±%)	10.0

Mr Chan Kwok Fail Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd



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 Operator	ıl 11, 2011 Tisch	Rootsmeter Orifice I.I)438320 0005	Ta (K) - Pa (mm) -	298 · 749.3
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3710 0.9730 0.8690 0.8300 0.6860	3.2 6.4 7.9 8.8 12.8	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9817 0.9775 0.9754 0.9743 0.9690	0.7160 1.0046 1.1225 1.1739 1.4126	1.4042 1.9859 2.2203 2.3286 2.8084		0.9957 0.9915 0.9894 0.9882 0.9829	0.7263 1.0190 1.1385 1.1907 1.4328	0.8919 1.2613 1.4101 1.4790 1.7837
Qstd slop intercep coefficio y axis =	t (b) = ent (r) =	2.01593 -0.03978 0.99999 Pa/760)(298/	 	Qa slope intercep coefficie y axis =	t (b) =	1.26234 -0.02526 0.99999 Fa/Pa)]

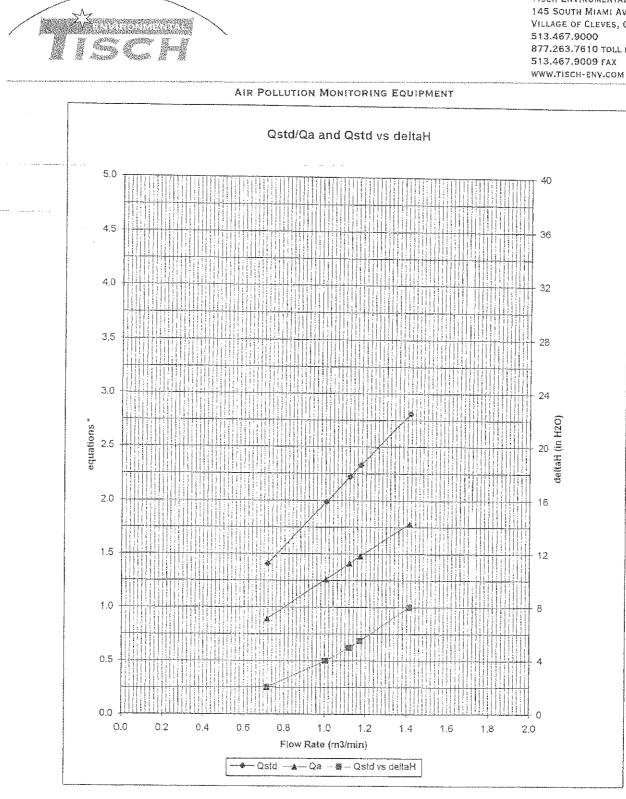
CALCULATIONS

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



* y-axis equations: Qstd series:

Qa series:

$$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$$
$$\sqrt{(\Delta H (Ta / Pa))}$$

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Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T _a		305		Kelvin Pressure, P a 1010			1010 mmHg	
			Orifice Tra	Insfer Standa	d Information			
Equipment No.		EL086			Slope, m _c 2.01593 Intercept, bc -0.03978			
Last Calibration Date		11-Jul-11	1		(H x P _a / 1	013.3 x 298	$(T_a)^{1/2}$	
Next Calibration Date		11-Jul-12	2		= <i>m_c</i>	$x Q_{std} + b_c$		
Calibration of RSP								
Calibration	Mar	nometer Re	eading	Q _{st}	i Cont	inuous Flow	IC	
Point	Н (inches of v	water)	(m ³ / m	in.) Re	corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-ax	s	(CFM)	Y-axis	
1	6.3	6.3	12.6	1.757	'4	52	51.3161	
2	5.0	5.0	10.0	1.567	7	45	44.4081	
3	3.8	3.8	7.6	1.369	3	37	36.5133	
4	2.4	2.4	4.8	1.092	2	27	26.6449	
5	1.5	1.5	3.0	0.867	6	14	13.8159	
By Linear Regression of Y	on X							
	Slope, m	=	41.1	960	Intercept, b) =	20.2858	
Correlation C	oefficient*	=	0.99	959				
1								

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

=

Calibration Accepted

** Delete as appropriate.

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

Yes/No**



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date	:	25-Oct-11
Equipment no.	:	EL449	Calbration Due Date	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Co	ondition				
Temperature, T _a		298		Kelvin	Pressure, P _a	1		1010	mmHg
			Orifice Tra	ansfer Stan	dard Informa	tion			
Equipment No.	EL086			Slope, m _c	2.01593 li		Intercept, be	ntercept, bc -0.0	
Last Calibration Date		11-Jul-11	l		(Hx	P _a / 10	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		11-Jul-12	2		=	m_c x	$(Q_{std} + b_c)$		
Calibration of RSP									
Calibration	Manometer Reading			0	Q std	Contin	uous Flow	Flow IC	
Point	H (inches of water)			(m ³	/ min.)	Rec	order, W	(W(P _a /1013	3.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(CFM)		Y-axis
1	5.9	5.9	11.8	1.	7209		50	2	19.9185
2	4.8	4.8	9.6	1.	5542		43	2	12.9299
3	3.5	3.5	7.0	1.	3300		37	3	36.9397
4	2.5	2.5	5.0	1.	1271		29	2	28.9527
5	1.4	1.4	2.8	0.	8484		17		16.9723
By Linear Regression of Y	on X								
	Slope, m	=	36.8	863	In	tercept, b	=	13.4049	
Correlation C	oefficient*	=	0.99	968					
Calibration	Accepted	=	Yes/	Vo**					

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

** Delete as appropriate.

Remarks :					
Calibrated by	:	Sam Lam	Checked by	:	Cherry Mak
Date	:	25-Oct-11	Date	:	25-Oct-11



Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition								
Temperature, T _a	305			Kelvin	Kelvin Pressure, P a			1010	mmHg
			Orifice Tra	ansfer Stan	dard Informa	tion			
Equipment No.	EL086			Slope, m _c	2.015	93	Intercept, bo	c	-0.03978
Last Calibration Date	11-Jul-11				(Hx	P _a / 101	3.3 x 298	$(T_{a})^{1/2}$	
Next Calibration Date		11-Jul-12	2		=	m _c x	$Q_{std} + b_c$		
Calibration of RSP									
Calibration	Manometer Reading			0) _{std}	Continu	uous Flow		IC
Point	H (inches of water)			(m ³	/ min.)	Reco	rder, W	(W(P _a /1013.	.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(0	CFM)		Y-axis
1	5.4	5.4	10.8	1.0	6285		46	4	5.3950
2	4.3	4.3	8.6	1.4	4553		41	4	0.4607
3	3.5	3.5	7.0	1.:	3149		35	3	4.5396
4	2.3	2.3	4.6	1.0	0696		26	2	5.6580
5	1.5	1.5	3.0	0.8	8676		18	1	7.7632
By Linear Regression of Y	on X								
	Slope, m	=	36.7	801	In	tercept, b	=	13.8439	
Correlation C	oefficient*	=	0.99	988					
Calibration	Accepted	=	Yes/	No**					

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

** Delete as appropriate.

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

am

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	Calbration I	25-Oct-11
Equipment no.	:	EL888	Calbration I	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambiei	nt Condition		
Temperature, T _a	298	Kelvin Pressure, P a	1010	mmHg

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

			Calibra	tion of RSP		
Calibration	Mano	meter Re	eading	Q _{std}	Continuous Flov	IC
Point	H (inches of water)			(m ³ / min.)	Recorder, W (W(P _a /1013.3x298/T _a) ^{1/2} /35.31
	(up)	(down)(difference	X-axis	(CFM)	Y-axis
1	5.6	5.6	11.2	1.6771	47	46.9234
2	4.5	4.5	9.0	1.5055	41	40.9332
3	3.5	3.5	7.0	1.3300	35	34.9430
4	2.2	2.2	4.4	1.0586	26	25.9576
5	1.4	1.4	2.8	0.8484	16	15.9739
By Linear Regression of	Y on X					
	Slope, m	=	36.	5792 Inte	ercept, b = -1	4.0184
Correlation Co	efficient*	=	0.9	9976		
Calibration /	Accepted	=	Yes	s/ No **		

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

Remarks :

 Calibrated by
 :
 Sam Lam
 Checked by
 :
 Cherry Mak

 Date
 :
 25-Oct-11
 Date
 :
 25-Oct-11



Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

			ŀ	Ambient Co	ondition				
Temperature, T _a		305		Kelvin	Pressure, P _a			1010	mmHg
			Orifice Tra	Insfer Stan	dard Informa	tion			
Equipment No.	EL086			Slope, m _c	2.015	93	Intercept, be	tercept, bc -0.039	
Last Calibration Date	11-Jul-11				(Hx	P _a / 10	13.3 x 298	/T _a) ^{1/2}	
Next Calibration Date		11-Jul-12	2		=	m_c y	$(Q_{std} + b_c)$		
Calibration of RSP									
Calibration	Manometer Reading			C	۹ std	Contir	uous Flow		IC
Point	H (inches of water)			(m ³	/ min.)	Rec	order, W	(W(P _a /1013	3.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X	-axis	(CFM)		Y-axis
1	5.8	5.8	11.6	1.	6870		54		53.2897
2	4.5	4.5	9.0	1.4	4883		48	4	47.3687
3	3.5	3.5	7.0	1.	3149		41		40.4607
4	2.3	2.3	4.6	1.	0696		31	:	30.5923
5	1.4	1.4	2.8	0.	8389		21	:	20.7238
By Linear Regression of Y	on X								
	Slope, m	=	38.8	337	In	tercept, b	=	11.2100	
Correlation C	oefficient*	=	0.99	982	_				—
Calibration	Accepted	=	Yes/ł	\o **	-				

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

** Delete as appropriate.

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



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date	:	25-Oct-11
Equipment no.	:	EL390	Calbration Due Date	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		298		Kelvin	Pressure, P _a			1010	mmHg
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.015	93	Intercept, be	c	-0.03978
Last Calibration Date		11-Jul-11	I		(Hx	P _a / 10	13.3 x 298	/T _a) ^{1/2}	
Next Calibration Date		11-Jul-12	2		=		$(Q_{std} + b_c)$		
Calibration of RSP									
Calibration	Ma	nometer Re	eading	C	Q _{std} Continuou		uous Flow		IC
Point	Н (inches of v	vater)	(m ³	m ³ / min.) Recorde		order, W	rder, W (W(P _a /1013.3x29	
	(up)	(down)	(difference)	X.	axis	(CFM)		Y-axis
1	5.8	5.8	11.6	1.	7065	58			57.9055
2	4.6	4.6	9.2	1.	5219		50		49.9185
3	3.7	3.7	7.4	1.	3669		44		43.9283
4	2.3	2.3	4.6	1.	0819		31	:	30.9495
5	1.5	1.5	3.0	0.	8775		24		23.9609
By Linear Regression of Y	on X								
	Slope, m	=	41.4	483	In	tercept, b	= -	13.0036	
Correlation C	oefficient*	=	0.99	992					
Calibration Accepted = Yes/ No **									

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

** Delete as appropriate.

Remarks :						
Calibrated by	:	Sam Lam		Checked by	:	Cherry Mak
Date	:	25-Oct-11	-	Date	:	25-Oct-11



Calibration Data for High Volume Sampler (TSP Sampler)

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

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		305 Kelvin Pressure, P a 1010 mr					mmHg		
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.015	593	Intercept, be	c -	0.03978
Last Calibration Date		11-Jul-11	1		(Н х	с Р _а / 10)13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		11-Jul-12	2		=	= m _c 2	$x Q_{std} + b_c$		
Calibration of RSP									
Calibration	Ма	Manometer Reading Q std Continuous Flow					IC		
Point	Н (inches of v	water)	(m ³	/ min.)	Rec	order, W	(W(P _a /1013.3	x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X	axis	((CFM)	Y	-axis
1	5.8	5.8	11.6	1.	6870		54	53	.2897
2	4.6	4.6	9.2	1.	5045		49	48	.3555
3	3.6	3.6	7.2	1.	3333		43	42	.4344
4	2.3	2.3	4.6	1.	0696		34	33	.5528
5	1.5	1.5	3.0	0.	8676		27	26	.6449
By Linear Regression of Y on X									
	Slope, m	=	32.8	954	Ir	ntercept, b	= -	1.6589	
Correlation Co	pefficient*	=	0.99	93					

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

=

Calibration Accepted

** Delete as appropriate.

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

Yes/No**



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМА5а	Calbration Date	:	25-Oct-11
Equipment no.	:	EL380	Calbration Due Date	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		298		Kelvin Pressure, P a 1010				mmHg	
			Orifice Tra	insfer Stan	dard Informa	ition			
Equipment No.		EL086		Slope, m _c	2.015	93	Intercept, b	c	-0.03978
Last Calibration Date		11-Jul-11			(Hx	P _a / 10	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		11-Jul-12	2		=	m_c >	$(Q_{std} + b_c)$		
Calibration of RSP									
Calibration	Manometer Reading			C	ک _{std}	Contin	uous Flow		IC
Point	Н (inches of v	vater)	(m ³	(m ³ / min.) Record		order, W	r der, W (W(P _a /1013.3x298	
	(up)	(down)	(difference)	X-	axis	(CFM)		Y-axis
1	6.2	6.2	12.4	1.	7637	7637 56		5	5.9087
2	4.9	4.9	9.8	1.	5701		51	5	0.9169
3	3.8	3.8	7.6	1.	3850		44	43.92	
4	2.5	2.5	5.0	1.	1271		35	3	4.9430
5	1.5	1.5	3.0	0.	.8775 26		26	2	5.9576
By Linear Regression of Y	on X								
	Slope, m	=	34.3	328	In	tercept, b	=	3.8356	
Correlation C	oefficient*	=	0.99	987					
Calibration Accepted = Yes/A				\o **					
			-						

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

** Delete as appropriate.

Remarks :					
Calibrated by	:	Sam Lam	Checked by	:	Cherry Mak
Date	:	25-Oct-11	Date	:	25-Oct-11



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАба	Calbration Date	:	23-Aug-11
Equipment no.	:	EL448	Calbration Due Date	:	23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

			ŀ	Ambient Co	ondition						
Temperature, T _a		305		Kelvin	Pressure, P	a		1010	mmHg		
			Orifice Tra	insfer Stan	dard Inform	ation					
Equipment No.		EL086		Slope, m _c	2.015	593	Intercept, bo	c -(0.03978		
Last Calibration Date		11-Jul-11	l		(Н х	с Р _а / 10	13.3 x 298	$(T_{a})^{1/2}$			
Next Calibration Date		$= m_c \times Q_{std} + b_c$									
Calibration of RSP											
Calibration Manometer Reading Q std Continuous Flow IC											
Point	Н (inches of v	vater)	(m ³	/ min.)	Rec	order, W	(W(P _a /1013.3	x298/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	X-	axis	(CFM)	Y	-axis		
1	6.0	6.0	12.0	1.	7155		56	55	.2634		
2	4.8	4.8	9.6	1.	5365		51	50	.3292		
3	3.7	3.7	7.4	1.	3514		44	43	.4213		
4	2.4	2.4	4.8	1.	0922		35	34	.5396		
5	1.4	1.4	2.8	0.	8389		24	23	.6843		
By Linear Regression of Y	on X										
	Slope, m	=	36.0	920	h	ntercept, b	= -	5.7206			
Correlation C	oefficient*	=	0.99)78							

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

=

Calibration Accepted

** Delete as appropriate.

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

Yes/No**



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАба	Calbration Date	:	25-Oct-11
Equipment no.	:	EL448	Calbration Due Date	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Co	ondition							
Temperature, T _a		298		Kelvin	Pressure, P _a			1010	mmHg			
			Orifice Tra	Insfer Stan	dard Informa	tion						
Equipment No.		EL086		Slope, m _c	2.015	93	Intercept, bo	c	-0.03978			
Last Calibration Date	11-Jul-11				(Hx	P _a / 10	13.3 x 298	/ T _a) ^{1/2}				
Next Calibration Date		11-Jul-12	2	$= m_c \times Q_{std} + b_c$								
Calibration of RSP												
Calibration	Ma	nometer Re	eading	c	Q _{std}	Contin	uous Flow		IC			
Point	H (inches of water)			(m ³	/ min.)	nin.) Record		der, W (W(P _a /1013.3x298/				
	(up)	(down)	(difference)	X-	axis	(CFM)		Y-axis			
1	6.2	6.2	12.4	1.	7637		60	5	9.9022			
2	5.0	5.0	10.0	1.	5858		52	5	51.9153			
3	3.8	3.8	7.6	1.:	3850		46	Z	5.9250			
4	2.4	2.4	4.8	1.	1048		37	3	6.9397			
5	1.5	1.5	3.0	0.8	8775		29	2	8.9527			
By Linear Regression of Y	on X											
	Slope, m	=	33.9	988	In	tercept, b	= -	0.9453				
Correlation C	0.99	983										
Calibration	Yes/	\o **										

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

** Delete as appropriate.

Remarks :					
Calibrated by	:	Sam Lam	Checked by	:	Cherry Mak
Date	:	25-Oct-11	Date	:	25-Oct-11



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Environmental Monitoring Schedule

October 2011

Sunday	Monda	iy	Tuesday		Wedne	sday	Thursda	у	Friday		Satur	day
25-Ѕер		26-Sep	Noise (Day time) Noise (Restricted hr)		24hr TSP	28-Sep		29-Sep	1hr TSP	30-Sep		1-Oct
	Impact WQM				Impact WQM				Impact WQM			
	Mid-ebb:	11:16			Mid-ebb:	12:46			Mid-ebb:	14:15		
	Mid-flood:	17:38			Mid-flood:	18:46			Mid-flood:	19:58		
2-Oct		3-Oct		4-Oct		5-Oct		6-Oct		7-Oct		8-Oct
	24hr TSP		1hr TSP x 3						Noise (Day time) Noise (Restricted hr)	1900-2300	24hr TSP)	
	Impact WQM						Impact WQM				Impact WQM	
	Mid-ebb:	4:23					Mid-ebb:	8:13			Mid-flood:	16:49
	Mid-flood:	11:44					Mid-flood:	15:50			Mid-ebb:	22:42
9-Oct	1hr TSP	10-Oct	Noise (Day time) Noise (Restricted hr)	11-Oct 1900-2300		12-Oct	Noise (Day time)	13-Oct	24hr TSP	14-Oct	1hr TSP x 3	15-Oct
	Impact WQM				Impact WQM				Impact WQM			
	Mid-ebb:	11:17			Mid-ebb:	12:22			Mid-ebb:	13:21		
	Mid-flood:	17:37			Mid-flood:	18:19			Mid-flood:	18:59		
16-Oct		17-Oct	Noise (Day time) Noise (Restricted hr)	18-Oct 1900-2300		19-Oct	24hr TSP	20-Oct	1hr TSP x 3	21-Oct		22-Oct
	Impact WQM				Impact WQM		Impact WQM				Impact WQM	
	Mid-ebb:	2:13			Mid-flood:	16:22					Mid-ebb:	8:03
	Mid-flood:	9:47					Mid-ebb:	4:59			Mid-flood:	15:16
23-Oct		24-Oct	Noise (Day time) Noise (Restricted hr)	25-Oct 1900-2300	24hr TSP	26-Oct	1hr TSP x 3	27-Oct		28-Oct		29-Oct
	Impact WQM				Impact WQM				Impact WQM			
	Mid-flood:	16:21			Mid-ebb:	11:40			Mid-ebb:	13:15		
	Mid-ebb:	22:31			Mid-flood:	17:31			Mid-flood:	18:46		

Remarks: - Due to the enforcement of the Typhoon signal no. 3, the water quality monitoring on 28 Sep and 3 Oct at Mid-flood were cancelled.

- Due to the enforcement of the Typhoon signal no.8 on 29 Sep, the 1hr TSP monitoring was rescheduled to 30 Sep.

Tentative Environmental Monitoring Schedule

November 2011

Sunday	Monday	,	Tuesday	1	Wedne	esday	Thursda	у	Frida	ay	Saturday	
30-Oct		31-Oct		1-Nov		2-Nov		3-Nov		4-Nov		5-Nov
	Noise (Day time)		24hr TSP		1hr TSP x 3							
	Noise (Restricted hr)	1900-2300)									
			Impact WQM				Impact WQM				Impact WQM	
			Mid-ebb:	4:01			Mid-ebb:	6:01			Mid-flood:	15:24
				11:31			Mid-flood:	14:04			Mid-ebb:	21:36
6-Nov		7-Nov		8-Nov		9-Nov		10-Nov		11-Nov		12-Nov
	24hr TSP		1hr TSP x 3				Noise (Day time)				24hr TSP	
							Noise (Restricted hr)	1900-2300				
	Impact WQM				Impact WQM				Impact WQM			
	Mid-ebb:	10:06			Mid-flood:	17:07			Mid-flood:	17:47	Mid-ebb:	0:39
	Mid-flood:	16:24			Mid-ebb:	23:47			inia nooa.		11110 000.	0.00
13-Nov		14-Nov		15-Nov		16-Nov		17-Nov		18-Nov		19-Nov
			Noise (Day time)						24hr TSP		1hr TSP x 3	
	1hr TSP X 3		Noise (Restricted hr)	1900-2300					-			
			,									
	Impact WQM				Impact WQM				Impact WQM		Impact WQM	
	Mid-ebb:	1:20			Mid-ebb:	2:35					Mid-ebb:	5:35
	Mid-flood:	8:51			Mid-flood:	10:37			Mid-flood:	12:37		
20-Nov		21-Nov		22-Nov		23-Nov		24-Nov		25-Nov		26-Nov
			Noise (Day time)				24hr TSP		1hr TSP x 3			
			Noise (Restricted hr)	1900-2300								
	Impact WQM				Impact WQM				Impact WQM			
	Mid-flood:	14:58			Mid-ebb:	10:30			Mid-ebb:	12:15		
	Mid-ebb:	21:22		00 No.	Mid-flood:	16:15		4 Dee	Mid-flood:	17:36		3-Dec
27-Nov		28-Nov	Noise (Day time)	29-Nov	24hr TSP	30-Nov	1hr TSP x 3	1-Dec		2-Dec		3-Dec
			Noise (Restricted hr)									
				1300-2300								
	Impact WQM				Impact WQM				Impact WQM		Impact WQM	
	Mid-ebb:	1:59			Mid-ebb:	3:31			Mid-flood:	12:44	Mid-ebb:	5:47
	Mid-flood:	9:16			Mid-flood:	10:59						

Tentative Environmental Monitoring Schedule

December 2011

Sunday	Mond	lay	Tuesday	/	Wednesda	ay	Thursda	у	Friday		Saturday	
27-Nov	/	28-Nov		29-Nov		30-Nov		1-Dec		2-Dec		3-Dec
			Noise (Day time)		24hr TSP		1hr TSP x 3					
			Noise (Restricted hr)	1900-2300			Noise (Restricted hr)	1900-2300				
	Impact WQM				Impact WQM				Impact WQM		Impact WQM	
	Mid-ebb:	1:59			Mid-ebb:	3:31			Mid-flood:	12:44	Mid-ebb:	5:47
	Mid-flood:	9:16			Mid-flood:	10:59			inia nooa.	12.77		0.47
4-Dec		5-Dec		6-Dec		7-Dec		8-Dec		9-Dec		10-Dec
4 200		0 200	24hr TSP	0 200	1hr TSP x 3	1 200		0 200		0 200		10 200
			Noise (Day time)									
			Noise (Restricted hr)	1900-2300			Noise (Restricted hr)	1900-2300	1			
	Impact WQM		. ,		Impact WQM		. ,		Impact WQM			
	Mid-flood:	14:47			Mid-flood:	15:45			Mid-flood:	16:37		
	Mid-ebb:	21:53			Mid-ebb:	22:58			Mid-ebb:	23:52		
11-Dec		12-Dec		13-Dec		14-Dec		15-Dec		16-Dec		17-Dec
	24hr TSP		1hr TSP x 3		Noise (Day time)						24hr TSP	
			Noise (Restricted hr)	1900-2300			Noise (Restricted hr)	1900-2300				
			Impact WQM				Impact WQM				Impact WQM	
			Mid-ebb:	1:21			Mid-ebb:	2:26			Mid-ebb:	3:49
			Mid-flood:	8:41			Mid-flood:	10:09			Mid-flood:	11:45
18-Dec		19-Dec		20-Dec		21-Dec		22-Dec		23-Dec		24-Dec
	1hr TSP x 3		Noise (Day time)						24hr TSP		1hr TSP x 3	
			Noise (Restricted hr)	1900-2300			Noise (Restricted hr)	1900-2300				
	Impact WQM				Impact WQM				Impact WQM			
	Mid-flood:	13:20			Mid-flood:	14:53			Mid-flood:	16:27		
	Mid-ebb:	19:58			Mid-ebb:	21:54			Mid-ebb:	23:30		
25-Dec	2	26-Dec		27-Dec		28-Dec		29-Dec		30-Dec		31-Dec
					Noise (Day time)		24hr TSP		1hr TSP x 3			
					Noise (Restricted hr)	1900-2300	Noise (Restricted hr)	1900-2300				
	Impact WQM				Impact WQM		Impact WQM				Impact WQM	
	Mid-ebb:	1:03			Mid-flood:	20:11	Mid-ebb:	3:00			Mid-ebb:	4:01
	Mid-flood:	8:17									Mid-flood:	11:34

Remarks (Water)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Water Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HY/2009/11: WSD9, WSD10, WSD15, WSD17, C8, C9 (Commenced on 23 March 2010)
- Contract HY/2009/15: C6 and C7 (Commenced on 9 Nov 2010)
- Contract HK/2009/01: WSD7, WSD19, WSD20, C1, C2, C3, C4e, C4w (Commenced on 8 July 2010); Contract HK/2010/06 share station C2 from 23 Mar 2011
- Contract HK/2009/02: WSD21, C5e, C5w (Commenced on 8 July 2010)

Remarks (Air)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below:
 - Contract HK/2009/01: CMA5a and CMA6a (Commenced and reported in Apr 2011)
- Contract HK/2009/02: (Commenced and reported in Feb 2011)
- Contract HY/2009/11: CMA1b and CMA2a (Commenced on 17 Jun 2010, To be reported in Monthly report on 11 Aug 2010) and CMA2a (Commenced on 12 May 2010, To be reported in Monthly report on 11 Aug Due to the changing of land ownship at Oil Street Community Liaison Centre from Contractor to FEHD and no appropriate alternative monitoring location, HVS is not available for air monitoring in existing location. It will be temporary suspension until the obtainment of a representative long-term air monitoring station.
- Contract HY/2009/15: CMA3a (Commenced and reported on 15 Mar 2011)

Remarks (Noise)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Noise Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HK/2009/01 and HK/2009/02: M1a (Commenced on 30 Mar 2010, To be reported in Monthly report on 6 July 2010)
- Contract HY/2009/11: M4b, M5b (Commenced on 23 Mar 2010 when dredging work starts)
- Contract HY/2009/15: M2b(Commenced and reported on 10 Nov 2010) and M3a (Commenced on 10 May 2010, To be reported in Monthly report on 10 Nov 2010)
- 4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).
- 5. Restricted hours noise (i.e. outside 07:00-19:00 of normal weekday) will be monitored for 3 nos. Leq(5min) as per the relevant Construction Noise Permit(s) in force for the following contract(s): Contracts HY/2009/01, HK/2009/02 and HY/2009/15



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

				ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
					30-min)			
07/10/11	9:07	Cloudy	74.4	77.3	70.0	69.2	73	75
11/10/11	15:21	Cloudy	73.9	76.0	70.8	69.2	72	75
18/10/11	9:53	Fine	72.5	75.0	68.6	69.2	70	75
25/10/11	9:45	Fine	74.3	76.7	70.5	69.2	73	75

Location: M2b - Noon-day gun area

			Measur	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)						
07/10/11	9:54	Cloudy	69.0	70.5	67.0	-	69	75		
11/10/11	16:15	Cloudy	68.4	70.0	66.2	-	68	75		
18/10/11	10:42	Fine	67.8	69.4	66.0	-	68	75		
25/10/11	10:28	Fine	70.1	71.8	67.7	-	70	75		

Location: M3a - Tung Lo Wan Fire Station

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level	
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	
				Unit: dB(A), (30-min)					
07/10/11	10:47	Sunny	69.2	71.0	66.7	-	69	75	
13/10/11	10:29	Cloudy	69.5	70.3	65.2	-	70	75	
18/10/11	11:25	Fine	67.8	69.5	65.4	-	68	75	
25/10/11	11:15	Fine	68.2	69.9	65.6	-	68	75	

Location: M4b - Victoria Centre

			Measur	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30min)	
07/10/11	11:30	Sunny	72.3	75.9	66.7	-	72	75
13/10/11	11:18	Cloudy	70.9	72.1	68.8	-	71	75
18/10/11	13:05	Fine	73.3	75.1	70.6	-	73	75
25/10/11	13:00	Fine	70.4	71.7	68.2	-	70	75

Location: M5b - City Garden

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
07/10/11	13:42	Fine	69.4	70.4	68.1	-	69	75
13/10/11	17:03	Cloudy	70.0	72.5	67.8	-	70	75
18/10/11	14:42	Fine	71.6	73.3	69.5	-	72	75
25/10/11	15:11	Cloudy	71.2	73.9	69.3	-	71	75

Noise Monitoring Result

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

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Average Noise Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
							Jnit: dB(A), (5-min)		
07/10/11	20:34	1	67.8	69.3	63.7				
	20:40	Fine	68.2	69.9	65.9	67.9	-	68	70
	20:45		67.8	69.4	65.8				
11/10/11	21:37		66.8	68.3	64.8				
	21:42	Cloudy	67.0	68.6	63.9	67.0	-	67	70
	21:48		67.1	68.7	64.5				
18/10/11	20:40		68.0	70.0	65.5				
	20:45	Fine	68.1	70.2	65.2	68.3	-	68	70
	20:51		68.7	70.9	65.7				
25/10/11	21:05		67.5	68.7	65.4				
	21:11	Cloudy	67.7	69.5	65.6	67.5	-	68	70
	21:17		67.3	68.6	65.5				

Location: M5b - City Garden

			Measure	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
							Jnit: dB(A), (5-min)		
07/10/11	20:45		70.0	71.2	68.4				
	20:50	Fine	69.5	70.4	68.4	69.6	-	70	70
	20:55		69.2	70.2	68.2				
11/10/11	20:58		69.5	70.2	68.9				
	21:03	Cloudy	69.7	70.3	68.7	69.6	-	70	70
	21:08		69.7	70.1	68.6				
18/10/11	20:15		69.6	70.4	68.8				
	20:20	Fine	69.4	70.0	68.6	69.5	-	70	70
	20:25		69.5	70.2	68.5				
25/10/11	19:58		69.0	69.6	68.1				
	20:04	Cloudy	68.8	69.3	68.0	68.9	-	69	70
1	20:09		68.9	69.6	68.1				

Location: M1a - Harbour Road Sports Center

			Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
						l	Jnit: dB(A), (5-min)		
07/10/11	21:07		70.6	73.0	66.6				
	21:12	Fine	72.2	74.4	68.9	71.3	61.1	71	70
	21:18		70.9	73.2	67.4				
11/10/11	22:08		68.1	70.7	63.0				
	22:13	Cloudy	69.2	71.1	63.4	68.7	61.1	68	70
	22:19		68.8	70.9	63.2				
18/10/11	21:10		69.3	72.1	64.2				
	21:15	Fine	69.8	72.9	64.8	69.6	61.1	69	70
	21:21		69.7	72.8	61.8				
25/10/11	21:49		71.0	73.8	64.3				
	21:55	Cloudy	71.3	74.7	65.5	71.0	61.1	71	70
	22:01		70.7	73.1	64.6				

Location: M2b -Noon-day gun area

			Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq		
						l	Jnit: dB(A), (5-min)				
07/10/11	20:00		69.1	70.5	67.4						
	20:05	Fine	68.9	70.2	67.2	68.8	-	69	70		
	20:10		68.5	69.9	66.8						
11/10/11	20:12		69.0	70.9	66.1						
	20:17	Cloudy	68.7	70.7	66.2	68.7	-	69	70		
	20:22		68.5	70.5	66.0						
18/10/11	19:19		67.1	69.1	64.8						
	19:24	Fine	67.0	68.9	65.0	66.8	-	67	70		
	19:29		66.2	68.0	64.1						
25/10/11	19:04		66.1	67.7	64.2						
	19:10	Cloudy	66.7	68.0	65.1	66.2	-	66	70		
	19:16		65.7	66.9	64.1						

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Noise Monitoring Result

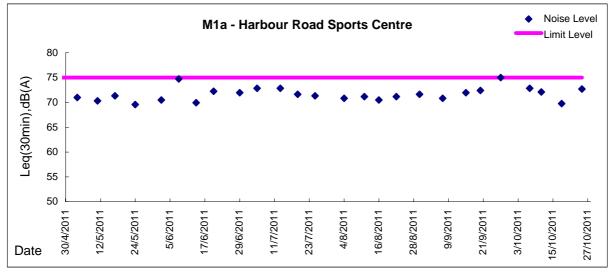
Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

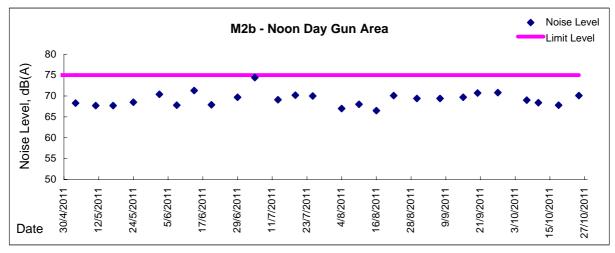
Location: M3a - Tung Lo Wan Fire Station

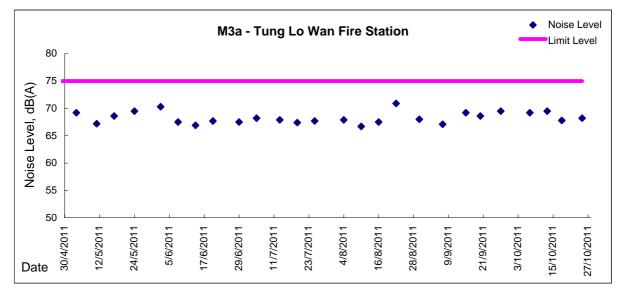
			Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
						I	Jnit: dB(A), (5-min)		
07/10/11	20:08		66.8	68.8	64.1				
	20:13	Fine	67.1	69.2	64.0	67.0	-	67	70
	20:19		67.2	68.8	65.0				
11/10/11	21:13		64.5	66.4	61.7				
	21:18	Cloudy	64.8	66.7	60.9	64.6	-	65	70
	21:24		64.4	66.3	61.9				
18/10/11	20:13		65.8	67.4	63.7				
	20:18	Fine	65.5	66.2	63.0	65.5	-	65	70
	20:24		65.1	67.1	62.7				
25/10/11	20:33		66.1	67.9	63.6				
	20:39	Cloudy	65.4	67.4	62.9	65.7	-	66	70
	20:45		65.6	67.6	63.3				



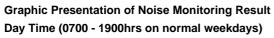
Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

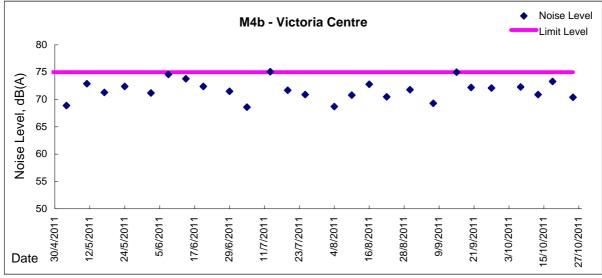


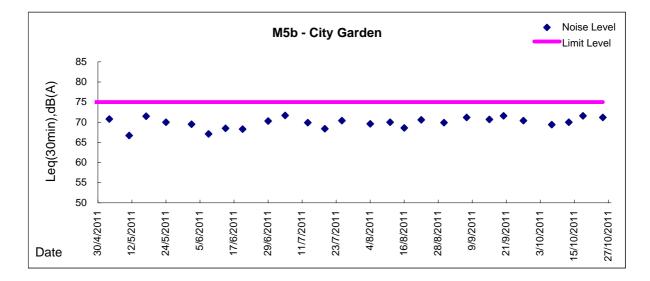






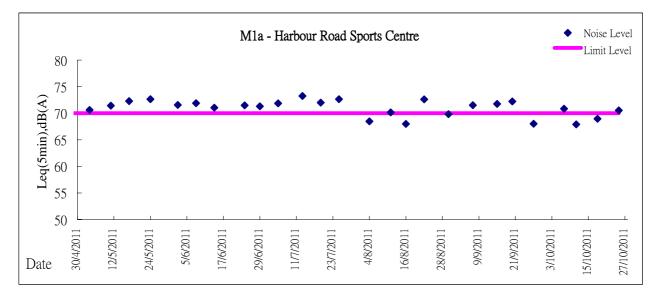


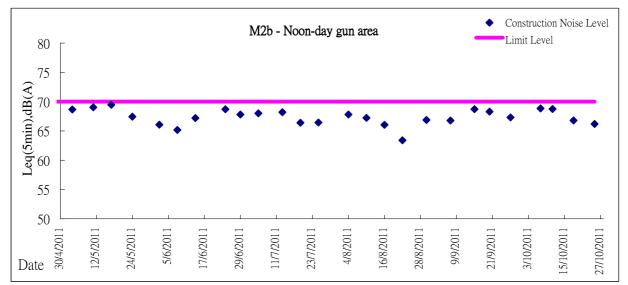


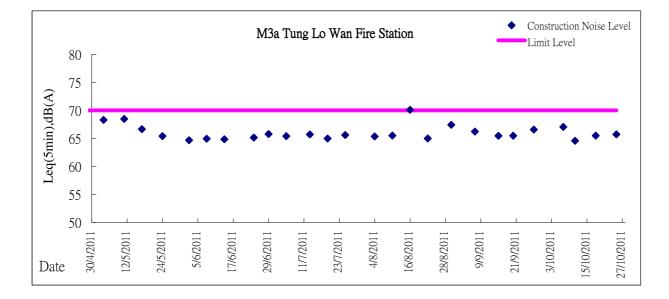




Graphic Presentation of Noise Monitoring Result Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

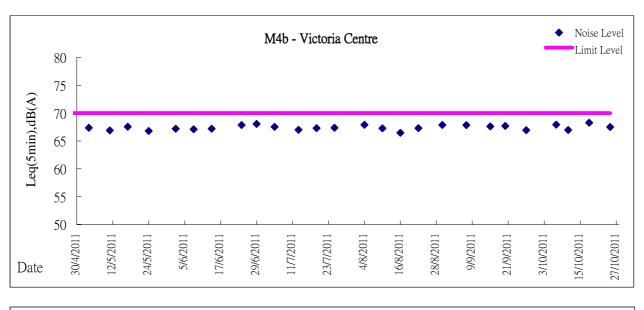


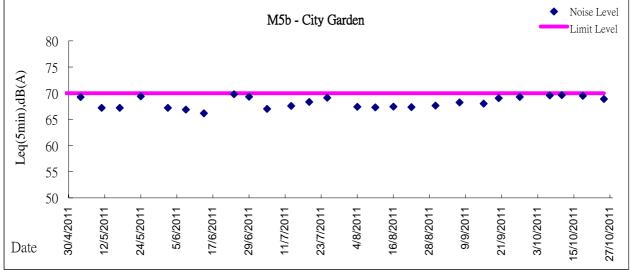






Graphic Presentation of Noise Monitoring Result Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)







Appendix 5.3

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



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	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
28-Sep-11	8:00	Cloudy	001296	2.8633	3.0548	14393.86	14417.85	23.99	1.41	1.44	1.43	2053	93
3-Oct-11	8:00	Cloudy	001213	2.7621	2.8547	14420.85	14444.86	24.01	1.47	1.47	1.47	2122	44
8-Oct-11	8:00	Fine	001328	2.7921	2.9983	14445.86	14469.87	24.01	1.33	1.38	1.35	1951	106
14-Oct-11	8:00	Fine	001312	2.8703	2.9665	14472.87	14496.88	24.01	1.42	1.42	1.42	2051	47
20-Oct-11	8:00	Sunny	001317	2.8739	3.0802	14499.88	14523.88	24.00	1.37	1.37	1.37	1967	105
26-Oct-11	8:00	Sunny	001418	2.7671	2.9393	14499.88	14523.88	24.00	1.41	1.41	1.41	2026	85

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 /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m³
30-Sep-11	8:45	Fine	001337	2.7841	2.7903	14417.85	14418.85	1.00	1.33	1.33	1.33	80	78
30-Sep-11	9:50	Fine	001336	2.7893	2.7970	14418.85	14419.85	1.00	1.40	1.37	1.38	83	93
30-Sep-11	10:53	Fine	001335	2.7771	2.7872	14419.85	14420.85	1.00	1.37	1.37	1.37	82	123
4-Oct-11	9:01	Cloudy	001332	2.8090	2.8151	14444.86	14445.86	1.00	1.38	1.38	1.38	83	74
4-Oct-11	10:07	Cloudy	001300	2.8633	2.8729	14445.86	14446.86	1.00	1.43	1.43	1.43	86	112
4-Oct-11	13:00	Cloudy	001301	2.8694	2.8800	14446.86	14447.86	1.00	1.40	1.40	1.40	84	126
10-Oct-11	11:00	Cloudy	001169	2.7691	2.7826	14469.87	14470.87	1.00	1.40	1.40	1.40	84	161
10-Oct-11	13:30	Cloudy	001192	2.7489	2.7631	14470.87	14471.87	1.00	1.42	1.42	1.42	85	166
10-Oct-11	16:40	Cloudy	001068	2.8196	2.8297	14471.87	14472.87	1.00	1.42	1.42	1.42	85	118
15-Oct-11	8:35	Fine	001320	2.8488	2.8533	14496.88	14497.88	1.00	1.28	1.28	1.28	77	58
15-Oct-11	9:42	Fine	001319	2.8623	2.8692	14497.88	14498.88	1.00	1.38	1.38	1.38	83	84
15-Oct-11	10:50	Fine	001318	2.8613	2.8696	14498.88	14499.88	1.00	1.42	1.42	1.42	85	97
21-Oct-11	8:45	Sunny	001313	2.8906	2.9032	14523.88	14524.88	1.00	1.39	1.39	1.39	83	151
21-Oct-11	9:50	Sunny	001385	2.7723	2.7852	14524.88	14525.88	1.00	1.32	1.32	1.32	79	164
21-Oct-11	10:55	Sunny	001386	2.7735	2.7828	14525.88	14526.88	1.00	1.32	1.32	1.32	79	118
27-Oct-11	8:57	Fine	001388	2.7732	2.7791	9816.89	9817.89	1.00	1.25	1.25	1.25	75	79
27-Oct-11	9:59	Fine	001390	2.7621	2.7695	9817.86	9818.86	1.00	1.35	1.35	1.35	81	91
27-Oct-11	11:00	Fine	001391	2.7648	2.7754	9818.86	9819.86	1.00	1.35	1.35	1.35	81	130



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	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /i	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
28-Sep-11	8:00	Cloudy	001295	2.8730	3.1192	10226.52	10250.52	24.00	1.44	1.44	1.44	2067	119
3-Oct-11	10:00	Cloudy	001354	2.7772	2.8879	10253.52	10277.59	24.07	1.42	1.47	1.45	2091	53
8-Oct-11	8:00	Fine	001375	2.7729	3.0787	10280.59	10304.60	24.01	1.42	1.42	1.42	2046	149
14-Oct-11	8:00	Fine	001171	2.7562	2.8767	10307.60	10331.61	24.01	1.45	1.45	1.45	2082	58
20-Oct-11	8:00	Sunny	001096	2.7903	3.0665	10334.61	10358.61	24.00	1.39	1.39	1.39	2002	138
26-Oct-11	8:00	Fine	001473	2.7852	2.9382	10361.61	10385.61	24.00	1.46	1.46	1.46	2105	73

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

Date	Sampling	Weather		Filter Weigh	t, 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	μg/m ³
30-Sep-11	9:57	Fine	001360	2.7864	2.7949	10250.52	10251.52	1.00	1.41	1.41	1.41	85	100
30-Sep-11	11:00	Fine	001359	2.7968	2.8051	10251.52	10252.52	1.00	1.41	1.41	1.41	85	98
30-Sep-11	15:16	Fine	001358	2.7995	2.8099	10252.52	10253.52	1.00	1.41	1.41	1.41	85	123
4-Oct-11	11:00	Cloudy	001356	2.7744	2.7853	10277.59	10278.59	1.00	1.45	1.45	1.45	87	126
4-Oct-11	13:00	Cloudy	001348	2.7937	2.8032	10278.59	10279.59	1.00	1.47	1.47	1.47	88	107
4-Oct-11	14:38	Cloudy	001372	2.7862	2.7967	10279.59	10280.59	1.00	1.45	1.45	1.45	87	121
10-Oct-11	9:48	Cloudy	001381	2.7765	2.7879	10304.60	10305.60	1.00	1.42	1.42	1.42	85	134
10-Oct-11	10:53	Cloudy	001383	2.7883	2.8006	10305.60	10306.60	1.00	1.44	1.44	1.44	87	142
10-Oct-11	13:51	Cloudy	001384	2.7694	2.7853	10306.60	10307.60	1.00	1.47	1.47	1.47	88	180
15-Oct-11	9:00	Fine	001408	2.7993	2.8061	10331.61	10332.61	1.00	1.45	1.45	1.45	87	78
15-Oct-11	10:05	Fine	001410	2.7713	2.7786	10332.61	10333.61	1.00	1.45	1.45	1.45	87	84
15-Oct-11	13:10	Fine	001412	2.7912	2.8056	10333.61	10334.61	1.00	1.45	1.45	1.45	87	166
21-Oct-11	10:14	Sunny	001414	2.7663	2.7822	10358.61	10359.61	1.00	1.41	1.41	1.41	85	188
21-Oct-11	13:00	Sunny	001416	2.7686	2.7848	10359.61	10360.61	1.00	1.41	1.41	1.41	85	191
21-Oct-11	15:17	Sunny	001099	2.7928	2.8086	10360.61	10361.61	1.00	1.44	1.44	1.44	86	183
27-Oct-11	8:35	Fine	001491	2.7903	2.8008	10385.61	10386.61	1.00	1.46	1.46	1.46	88	120
27-Oct-11	13:00	Fine	001494	2.7730	2.7844	10386.61	10387.61	1.00	1.49	1.49	1.49	89	128
27-Oct-11	14:23	Fine	001485	2.7545	2.7665	10387.61	10388.61	1.00	1.51	1.51	1.51	91	132

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	ıt, 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	μ g/m ³
28-Sep-11	8:00	Cloudy	001294	2.8650	2.9498	13876.21	13900.20	23.99	1.02	1.02	1.02	1472	58
3-Oct-11	10:00	Cloudy	001221	2.7591	2.8284	13903.20	13927.21	24.01	1.18	1.18	1.18	1700	41
8-Oct-11	8:00	Fine	001373	2.7763	2.9684	13930.21	13954.23	24.02	1.13	1.13	1.13	1627	118
14-Oct-11	8:00	Fine	001066	2.7826	2.8506	13957.23	13981.23	24.00	1.13	1.15	1.14	1642	41
20-Oct-11	8:00	Sunny	001090	2.7857	2.8998	13984.23	14008.24	24.01	1.10	1.10	1.10	1580	72
26-Oct-11	8:00	Fine	001486	2.7718	2.9063	14011.31	14035.31	24.00	0.99	0.99	0.99	1421	95

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 Time	e, hr	Sampling	Flo	w Rate, m ³ /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
30-Sep-11	9:44	Fine	001340	2.7737	2.7794	13900.20	13901.20	1.00	1.10	1.10	1.10	66	86
30-Sep-11	10:46	Fine	001339	2.7703	2.7764	13901.20	13902.20	1.00	1.10	1.10	1.10	66	93
30-Sep-11	15:04	Fine	001353	2.7806	2.7884	13902.20	13903.20	1.00	1.10	1.10	1.10	66	118
4-Oct-11	10:51	Cloudy	001355	2.7624	2.7681	13927.21	13928.21	1.00	1.18	1.18	1.18	71	81
4-Oct-11	13:00	Cloudy	001349	2.7783	2.7843	13928.21	13929.21	1.00	1.16	1.18	1.17	70	86
4-Oct-11	14:20	Cloudy	001357	2.7935	2.8001	13929.21	13930.21	1.00	1.18	1.18	1.18	71	93
10-Oct-11	9:32	Cloudy	001374	2.7810	2.7891	13954.23	13955.23	1.00	1.18	1.15	1.16	70	116
10-Oct-11	10:35	Cloudy	001382	2.7841	2.7911	13955.23	13956.23	1.00	1.15	1.15	1.15	69	101
10-Oct-11	13:00	Cloudy	001387	2.7891	2.7971	13956.23	13957.23	1.00	1.13	1.13	1.13	68	118
15-Oct-11	8:44	Fine	001407	2.7882	2.7919	13981.23	13982.23	1.00	1.18	1.18	1.18	71	52
15-Oct-11	9:58	Fine	001409	2.7835	2.7882	13982.23	13983.23	1.00	1.18	1.18	1.18	71	67
15-Oct-11	13:02	Fine	001411	2.7868	2.7937	13983.23	13984.23	1.00	1.18	1.18	1.18	71	98
21-Oct-11	10:03	Sunny	001413	2.7988	2.8067	14008.24	14009.24	1.00	1.24	1.24	1.24	75	106
21-Oct-11	13:00	Sunny	001415	2.7743	2.7816	14009.23	14010.23	1.00	1.22	1.22	1.22	73	100
21-Oct-11	15:10	Sunny	001389	2.7654	2.7736	14010.23	14011.23	1.00	1.22	1.24	1.23	74	111
27-Oct-11	8:48	Fine	001492	2.7845	2.7894	14035.31	14036.31	1.00	1.13	1.13	1.13	68	73
27-Oct-11	13:00	Fine	001493	2.7761	2.7831	14036.31	14037.31	1.00	1.13	1.13	1.13	68	104
27-Oct-11	14:37	Fine	001496	2.7616	2.7679	14037.31	14038.31	1.00	1.13	1.13	1.13	68	93

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

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

Date	Sampling	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	μ g/m ³
28-Sep-11	8:00	Cloudy	001292	2.8581	2.9732	14859.38	14883.38	24.00	1.09	1.03	1.06	1528	75
3-Oct-11	8:00	Cloudy	001334	2.7647	2.8424	14886.38	14910.19	23.81	1.10	1.13	1.12	1596	49
8-Oct-11	8:00	Fine	001190	2.7473	2.9830	14913.19	14937.20	24.01	1.16	1.16	1.16	1670	141
14-Oct-11	8:00	Fine	001070	2.8149	2.9443	14940.21	14964.18	23.97	1.10	1.10	1.10	1582	82
20-Oct-11	8:00	Sunny	001092	2.7981	2.9721	14967.18	14991.18	24.00	1.32	1.29	1.30	1879	93
26-Oct-11	8:00	Fine	001403	2.7925	2.9605	14994.18	15018.18	24.00	1.18	1.15	1.16	1674	100

Report on 1-hour TSP monitoring

Action Level (µg/m3) -332 Limit Level (µg/m3) -500

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
30-Sep-11	8:10	Fine	001219	2.7646	2.7712	14883.38	14884.38	1.00	1.15	1.15	1.15	69	95
30-Sep-11	9:15	Fine	001217	2.7661	2.7828	14884.38	14885.38	1.00	1.12	1.12	1.12	67	248
30-Sep-11	10:20	Fine	001215	2.7558	2.7638	14885.38	14886.38	1.00	1.15	1.15	1.15	69	116
4-Oct-11	8:15	Cloudy	001212	2.7651	2.7732	14910.19	14911.19	1.00	1.19	1.19	1.19	71	113
4-Oct-11	9:20	Cloudy	001347	2.7897	2.7941	14911.19	14912.19	1.00	0.93	0.93	0.93	56	79
4-Oct-11	10:23	Cloudy	001188	2.7630	2.7699	14912.19	14913.19	1.00	1.04	1.10	1.07	64	107
10-Oct-11	9:35	Cloudy	001377	2.7877	2.7965	14937.20	14938.20	1.00	1.16	1.16	1.16	69	127
10-Oct-11	11:00	Cloudy	001379	2.7696	2.7778	14938.20	14939.20	1.00	0.98	0.98	0.98	59	139
10-Oct-11	13:00	Cloudy	001380	2.7736	2.7852	14939.20	14940.20	1.00	0.92	0.92	0.92	55	209
15-Oct-11	8:03	Fine	001087	2.7960	2.8037	14964.18	14965.18	1.00	1.16	1.16	1.16	70	111
15-Oct-11	9:09	Fine	001088	2.7796	2.7853	14965.18	14966.18	1.00	1.16	1.16	1.16	70	82
15-Oct-11	10:11	Fine	001094	2.8059	2.8145	14966.18	14967.18	1.00	1.16	1.16	1.16	70	124
21-Oct-11	8:15	Sunny	001398	2.7873	2.7979	14991.18	14992.18	1.00	1.32	1.32	1.32	79	134
21-Oct-11	9:20	Sunny	001399	2.7770	2.7878	14992.18	14993.18	1.00	1.32	1.32	1.32	79	137
21-Oct-11	10:35	Sunny	001401	2.7674	2.7772	14993.18	14994.18	1.00	1.32	1.32	1.32	79	124
27-Oct-11	8:20	Fine	001422	2.7855	2.7921	15018.18	15019.18	1.00	1.18	1.18	1.18	71	94
27-Oct-11	9:30	Fine	001424	2.7873	2.7986	15019.18	15020.18	1.00	1.18	1.18	1.18	71	160
27-Oct-11	10:38	Fine	001426	2.7780	2.7885	15020.18	15021.18	1.00	1.20	1.20	1.20	72	145

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

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

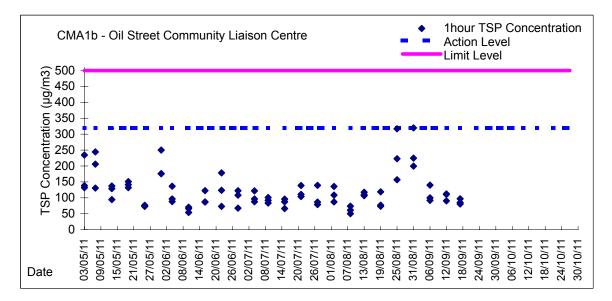
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g/m ³
28-Sep-11	8:00	Cloudy	001227	2.8652	3.0368	13158.53	13182.53	24.00	1.21	1.21	1.21	1744	98
3-Oct-11	8:00	Cloudy	001344	2.7801	2.8541	13185.52	13209.54	24.02	1.22	1.22	1.22	1764	42
8-Oct-11	8:00	Fine	001191	2.7585	2.9278	13212.54	13236.55	24.01	1.17	1.17	1.17	1684	101
14-Oct-11	8:00	Fine	001071	2.8100	2.8889	13239.54	13263.56	24.02	1.17	1.17	1.17	1684	47
20-Oct-11	8:00	Sunny	001091	2.7911	2.9625	13266.56	13290.56	24.00	1.37	1.37	1.37	1967	87
26-Oct-11	8:00	Fine	001124	2.7936	2.9300	13293.56	13317.56	24.00	1.19	1.19	1.19	1711	80

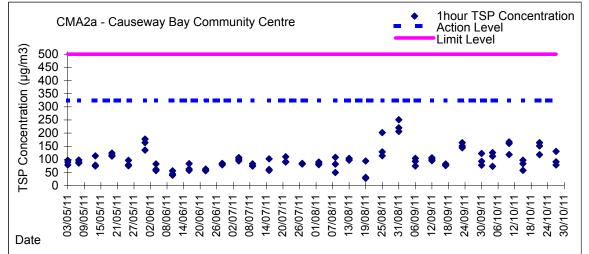
Report on 1-hour TSP monitoring Action Level - 300.1 $\mu\,{\rm g/m^3}$ Limit Level - 500 $\mu\,{\rm g/m3}$

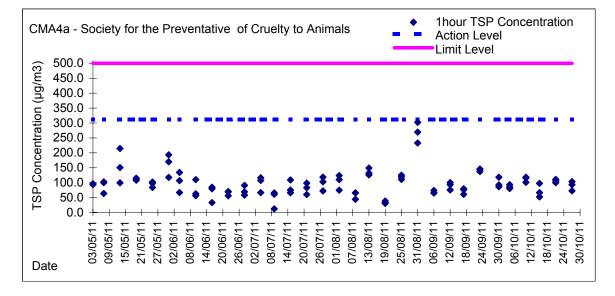
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
30-Sep-11	8:20	Fine	001218	2.7610	2.7696	13182.53	13183.53	1.00	1.13	1.13	1.13	68	127
30-Sep-11	9:27	Fine	001216	2.7558	2.7625	13183.53	13184.53	1.00	1.11	1.11	1.11	66	101
30-Sep-11	10:33	Fine	001214	2.7661	2.7764	13184.53	13185.53	1.00	1.13	1.13	1.13	68	152
4-Oct-11	8:25	Cloudy	001211	2.7633	2.7708	13209.54	13210.54	1.00	1.11	1.11	1.11	67	112
4-Oct-11	9:27	Cloudy	001069	2.7965	2.8020	13210.54	13211.54	1.00	1.11	1.11	1.11	67	82
4-Oct-11	10:30	Cloudy	001189	2.7698	2.7754	13211.54	13212.54	1.00	1.11	1.11	1.11	67	84
10-Oct-11	9:23	Cloudy	001376	2.7779	2.7860	13236.55	13237.55	1.00	1.14	1.14	1.14	68	119
10-Oct-11	10:40	Cloudy	001378	2.7775	2.7852	13237.55	13238.55	1.00	1.08	1.08	1.08	65	118
10-Oct-11	13:05	Cloudy	001323	2.7773	2.7856	13238.55	13239.55	1.00	1.08	1.16	1.12	67	123
15-Oct-11	8:13	Fine	001089	2.7716	2.7763	13263.56	13264.56	1.00	1.14	1.14	1.14	68	69
15-Oct-11	9:20	Fine	001095	2.7855	2.7905	13264.56	13265.56	1.00	1.14	1.14	1.14	68	73
15-Oct-11	10:23	Fine	001093	2.8003	2.8062	13265.56	13266.56	1.00	1.11	1.11	1.11	67	88
21-Oct-11	8:23	Sunny	001405	2.7699	2.7793	13290.57	13291.57	1.00	1.39	1.39	1.39	83	113
21-Oct-11	9:30	Sunny	001400	2.7780	2.7895	13291.57	13292.57	1.00	1.36	1.36	1.36	82	141
21-Oct-11	10:45	Sunny	001404	2.7605	2.7708	13292.57	13293.56	0.99	1.36	1.36	1.36	81	127
27-Oct-11	8:35	Fine	001423	2.7778	2.7846	13317.56	13318.56	1.00	1.19	1.19	1.19	71	95
27-Oct-11	9:40	Fine	001425	2.7730	2.7800	13318.56	13319.56	1.00	1.22	1.22	1.22	73	96
27-Oct-11	10:45	Fine	001427	2.7790	2.7874	13319.56	13320.56	1.00	1.22	1.22	1.22	73	115



Graphic Presentation of 1 hour TSP Result









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Date

03/05/11 09/05/11 15/05/11 21/05/11 27/05/11 02/06/11

08/06/11

14/06/11

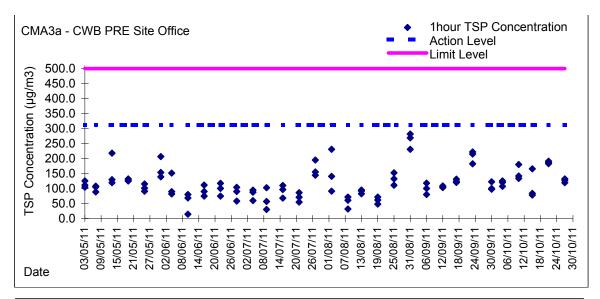
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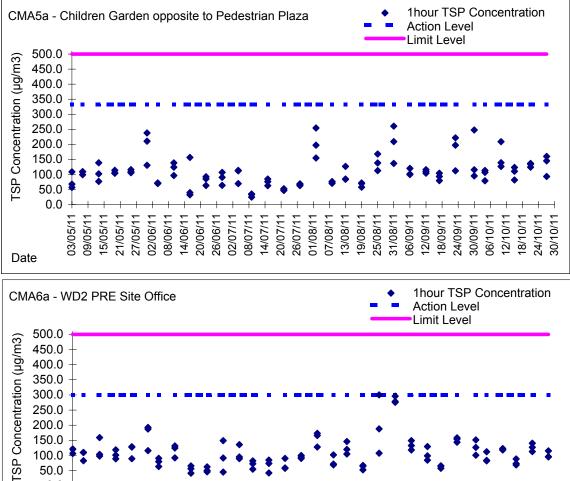
06/10/11

12/10/11

18/10/11 24/10/11 30/10/11

Graphic Presentation of 1 hour TSP Result





26/07/11

07/08/11 13/08/11

01/08/11

31/08/11

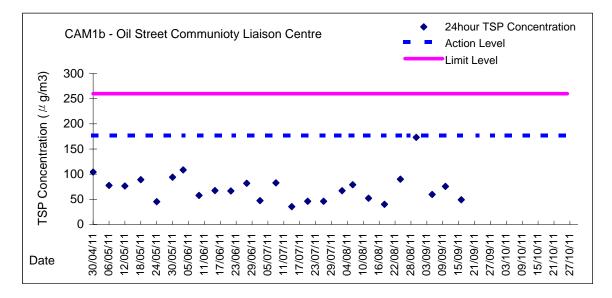
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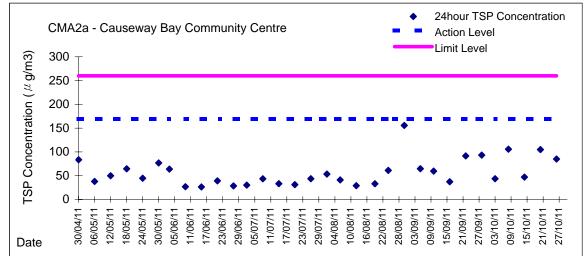
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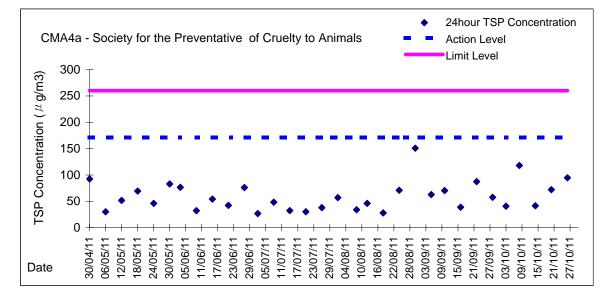
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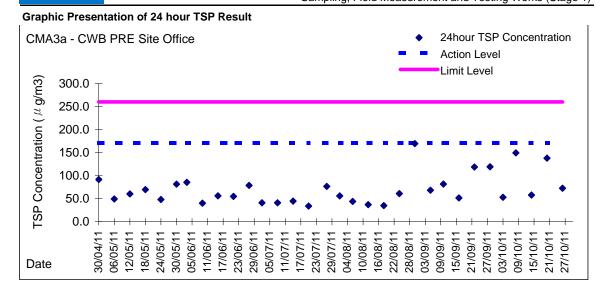


Graphic Presentation of 24 hour TSP Result

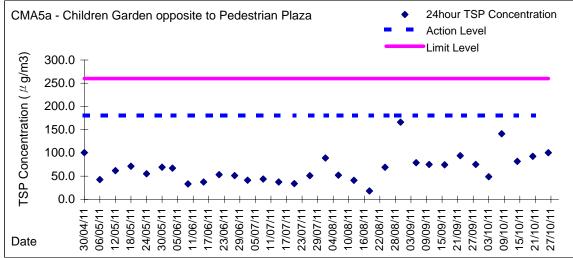


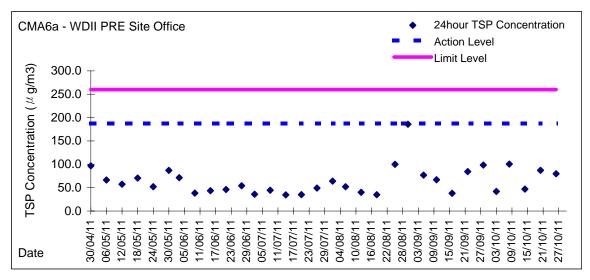






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Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

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

Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbic NTU		Suspend	ed Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/∟ lue	Average	Va	lue	Average	Value	g/∟ Average
	-	Typhoon	Middle	-	-	-		-	-		-	-	Ŭ	-	-	Ŭ	-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	18:15	Cloudy	Middle	2.0	27.95	27.88	27.89	7.77	7.77	7.76	32.57	32.58	32.58	75.2	75.1	75.1	4.92	4.91	4.91	7.75	7.78	7.76	7	7.50
30/9/2011	18:16	Cloudy	Middle	2.0	27.87	27.87	27.89	7.75	7.75	7.76	32.58	32.59	32.58	75.0	75.0	75.1	4.91	4.90	4.91	7.79	7.70	7.76	8	7.50
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-	_	-	-		-	-	_	-	-	_	-	
3/10/2011	-	no.3	Middle	-	-	-	-	-	-		-	-	_	-	-	_	-	-	-	-	-	_	-	
6/10/2011	14:30	Cloudy	Middle	1.5	26.50	26.50	26.50	8.23	8.23	8.23	33.85	33.85	33.82	90.4	87.9	89.3	6.01	5.98	5.97	5.94	5.75	5.78	9	10.00
0/10/2011	14:33	Cloudy	Middle	1.5	26.50	26.50	20.00	8.23	8.23	0.20	33.79	33.79	33.02	90.3	88.4	00.0	6.00	5.89	5.57	5.92	5.51	5.76	11	10.00
8/10/2011	15:23	Fine	Middle	2.5	26.30	26.30	26.30	8.22	8.22	8.22	33.84	33.84	33.85	94.6	92.9	94.0	6.30	6.20	6.27	4.20	4.99	4.53	8	7.00
0,10,2011	15:27	1 110	Middle	2.5	26.30	26.30	20.00	8.22	8.22	0.22	33.85	33.85	00.00	95.1	93.4	0 110	6.34	6.23	0.27	4.28	4.66		6	
10/10/2011	16:43	Cloudy	Middle	2.0	26.37	26.37	26.37	7.89	7.89	7.89	33.16	33.16	33.16	69.6	69.5	69.5	4.65	4.65	4.65	7.29	6.61	7.05	8	9.00
	16:44		Middle	2.0	26.37	26.37		7.89	7.89		33.16	33.16		69.5	69.4		4.65	4.64		7.58	6.73		10	
12/10/2011	16:20	Cloudy	Middle	2.0	25.60	25.60	25.60	8.26	8.26	8.26	32.30	32.30	32.30	93.4	90.1	92.6	6.36	6.31	6.35	3.64	4.10	3.90	4	4.50
	16:21		Middle	2.0	25.60	25.60		8.26	8.26		32.29	32.29		93.0	93.7		6.33	6.38		3.98	3.89		5	
14/10/2011	17:46	Cloudy	Middle	2.0	26.40	26.40	26.40	8.19	8.19	8.19	33.08	33.08	33.08	90.6	90.6	90.6	6.05	6.05	6.05	4.82	4.73	4.70	8	8.00
	17:47		Middle	2.0	26.40	26.40		8.19	8.19		33.08	33.08		90.7	90.5		6.05	6.04		4.64	4.59		8	<u> </u>
17/10/2011	10:13	Fine	Middle	2.5	26.50	26.50	26.50	7.98	7.98	7.98	32.20	32.20	32.20	90.4	90.0	89.8	6.06	6.05	6.04	4.01	3.56	3.59	4	4.00
	10:16		Middle	2.5	26.50	26.50		7.97	7.97		32.20	32.20		89.5	89.4		6.03	6.03		3.30	3.48		4	<u> </u>
19/10/2011	16:20	Sunny	Middle	2.5	24.00	24.00	23.94	8.17	8.17	8.17	33.07	33.07	33.11	68.2	68.6	68.8	4.75	4.78	4.80	3.70	3.75	3.77	5	5.00
	16:23		Middle	2.5	23.87	23.87		8.16	8.16		33.14	33.14		69.0	69.2		4.82	4.83		3.48	4.15		5	
22/10/2011	15:52	Cloudy	Middle	2.5	26.00	26.00	25.95	8.10	8.10	8.09	33.30	33.30	33.31	99.1	97.5	98.3	6.67	6.56	6.62	3.79	3.70	3.80	8	8.00
	15:56		Middle	2.5	25.90	25.90		8.08	8.08		33.31	33.31		98.8	97.6		6.65	6.58		3.86	3.83		8	<u> </u>
24/10/2011	15:25	Sunny	Middle	2.5	26.10	26.10	26.15	8.13	8.13	8.13	33.34	33.34	33.33	100.3	99.9	100.1	6.73	6.70	6.71	3.74	3.97	4.05	6	5.50
	15:28		Middle	2.5	26.20	26.20		8.12	8.12		33.32	33.32		99.8	100.5		6.69	6.73		4.13	4.36		5	<u> </u>
26/10/2011	16:50	Cloudy	Middle	2.0	25.13	25.13	25.15	8.09	8.09	8.09	32.81	32.81	32.81	79.1	79.0	78.9	5.41	5.40	5.40	4.65	4.26	4.42	7	8.50
	16:51		Middle	2.0	25.17	25.17		8.08	8.08		32.80	32.80		78.8	78.7		5.39	5.38		4.41	4.34		10	

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Water Monitoring Result at WSD10 - Cha Kwo Ling Mid-Flood Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTL			led Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue ppt	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
00/0/0044	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	16:55	Cloudy	Middle	2.0	28.87	28.87	20.04	7.51	7.51	7.54	30.28	30.28	30.29	89.7	89.6	80 G	5.85	5.84	5.84	29.30	29.70	20.09	44	44.00
30/9/2011	16:56	Cloudy	Middle	2.0	28.81	28.81	28.84	7.57	7.57	7.54	30.29	30.29	30.29	89.6	89.6	89.6	5.84	5.84	5.64	28.60	28.70	<u>29.08</u>	44	<u>44.00</u>
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-	_	-	-		-	-	_	-	-	_	-	
3/10/2011	-	no.3	Middle	-	-	-	-	-	-		-	-	-	-	-	_	-	-		-	-		-	
6/10/2011	15:02	Cloudy	Middle	1.5	26.50	26.50	26.55	8.37	8.37	8.34	33.93	33.93	33.93	95.7	94.1	94.7	6.35	6.24	6.28	7.90	8.02	8.09	11	10.50
0/10/2011	15:05	Cloudy	Middle	1.5	26.60	26.60	20.33	8.31	8.31	0.34	33.93	33.93	33.95	95.5	93.6	94.7	6.33	6.20	0.20	8.19	8.23	0.05	10	10.50
8/10/2011	14:43	Fine	Middle	2.0	26.90	26.90	26.95	8.24	8.24	8.24	34.00	34.00	33.99	93.2	94.5	93.9	6.13	6.22	6.18	5.78	5.52	5.59	6	6.00
0,10,2011	14:46	1 110	Middle	2.0	27.00	27.00	20.00	8.24	8.24	0.24	33.98	33.98	00.00	95.0	92.9	00.0	6.25	6.11	0.10	5.57	5.49	0.00	6	0.00
10/10/2011	14:55	Cloudy	Middle	2.0	26.66	26.66	26.68	7.78	7.78	7.78	32.73	32.73	32.73	60.5	59.7	59.6	4.01	3.98	3.96	5.31	5.39	5.29	8	7.00
10/10/2011	14:56	Cloudy	Middle	2.0	26.69	26.69	20.00	7.78	7.78	1.10	32.72	32.72	32.13	59.0	59.0	33.0	3.93	3.93	5.50	5.24	5.20	3.23	6	1.00
12/10/2011	15:40	Cloudy	Middle	2.0	25.90	25.90	25.85	8.28	8.28	8.28	32.65	32.65	32.66	87.0	88.5	88.3	5.86	5.99	5.97	4.82	4.51	4.72	6	7.00
12,10,2011	15:41	Cloudy	Middle	2.0	25.80	25.80	20.00	8.28	8.28	0.20	32.67	32.67	02.00	88.6	88.9	00.0	6.00	6.02	0.01	4.78	4.77	1.12	8	1.00
14/10/2011	16:00	Cloudy	Middle	2.0	26.40	26.40	26.45	8.24	8.24	8.25	33.34	33.34	33.35	93.3	94.2	94.1	6.22	6.28	6.27	6.32	6.31	6.34	10	9.50
	16:01		Middle	2.0	26.50	26.50		8.25	8.25		33.35	33.35		94.2	94.5	•	6.28	6.30		6.29	6.42		9	
17/10/2011	10:48	Fine	Middle	2.5	26.40	26.40	26.40	7.98	7.98	7.98	32.70	32.70	32.70	92.5	92.3	92.2	6.22	6.21	6.20	5.60	5.14	5.02	8	8.50
	10:53		Middle	2.5	26.40	26.40		7.98	7.98		32.70	32.70		92.0	91.8		6.19	6.19		4.82	4.51		9	
19/10/2011	15:48	Sunny	Middle	2.5	25.56	25.56	25.54	8.18	8.18	8.18	32.98	32.98	32.98	64.3	64.4	64.6	4.36	4.37	4.38	4.81	4.95	4.81	7	6.00
	15:51		Middle	2.5	25.52	25.52		8.17	8.17		32.98	32.98		64.6	64.9		4.39	4.41		4.97	4.49		5	
22/10/2011	15:10	Cloudy	Middle	2.5	26.30	26.30	26.40	8.08	8.08	8.08	33.43	33.43	33.51	96.2	95.3	95.6	6.41	6.35	6.36	3.58	3.56	3.35	6	6.00
	15:13		Middle	2.5	26.50	26.50		8.08	8.08		33.58	33.58		96.4	94.5		6.41	6.28		3.18	3.08		6	
24/10/2011	14:51	Sunny	Middle	2.5	26.40	26.40	26.35	8.16	8.16	8.16	33.44	33.44	33.43	101.6	103.0	102.8	6.78	6.87	6.85	8.44	7.36	7.60	11	10.00
	14:54	-	Middle	2.5	26.30	26.30		8.15	8.15		33.42	33.42		103.7	102.7		6.91	6.84		6.95	7.64		9	<u> </u>
26/10/2011	14:50	Cloudy	Middle	2.0	25.56	25.56	25.56	7.85	7.86	7.88	31.98	31.98	32.00	79.0	79.0	79.0	5.39	5.39	5.39	4.01	3.66	3.84	4	4.50
	14:51		Middle	2.0	25.56	25.56		7.90	7.90		32.02	32.02		78.9	78.9		5.38	5.38		3.75	3.92		5	

Water Monitoring Result at WSD15 - Sai Wan Ho Mid-Flood Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU	ity	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/9/2011	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
30/9/2011	20:30	Cloudy	Middle	2.5	27.93	27.93	27.94	7.73	7.73	7.73	32.95	32.95	32.96	69.6	69.6	69.6	4.54	4.54	4.54	17.60	17.70	<u>16.80</u>	20	20.00
30/9/2011	20:31	Cloudy	Middle	2.5	27.94	27.94	27.94	7.73	7.73	1.15	32.96	32.96	52.90	69.6	69.5	09.0	4.54	4.54	4.54	16.00	15.90	10.00	20	20.00
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-		-	-		-	-		-	-	-	-	-		-	
0/10/2011	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	15:30	Cloudy	Middle	2.0	26.30	26.30	26.30	8.28	8.28	8.29	34.11	34.11	34.11	92.9	91.6	92.3	6.19	6.10	6.15	10.50	10.60	10.43	18	<u>15.00</u>
0/10/2011	15:33	Cloudy	Middle	2.0	26.30	26.30	20.30	8.29	8.29	0.29	34.11	34.11	34.11	93.4	91.4	92.5	6.22	6.09	0.15	10.10	10.50	10.45	12	15.00
8/10/2011	14:11	Fine	Middle	2.5	26.50	26.50	26.55	8.20	8.20	8.20	33.97	33.97	33.98	90.3	88.2	89.1	5.99	5.85	5.91	4.91	4.74	4.74	6	5.50
0,10,2011	14:15	1 110	Middle	2.5	26.60	26.60	20.00	8.20	8.20	0.20	33.99	33.99	00.00	90.0	87.8	0011	5.97	5.83	0.01	4.58	4.74		5	0.00
10/10/2011	19:30	Cloudy	Middle	2.5	26.03	26.03	26.03	7.98	7.98	7.98	33.46	33.46	33.46	62.8	62.7	62.7	4.22	4.21	4.21	6.79	6.72	6.94	10	- 11.00
10,10,2011	19:31	choudy	Middle	2.5	26.03	26.03	20.00	7.98	7.98		33.46	33.46	00.10	62.6	62.6	02.17	4.21	4.20		6.94	7.30	0.01	12	11100
12/10/2011	19:58	Cloudy	Middle	2.5	25.90	25.90	25.90	8.29	8.29	8.29	33.68	33.68	33.68	97.2	97.1	96.9	6.54	6.53	6.53	6.64	6.51	6.73	9	9.00
	19:59		Middle	2.5	25.90	25.90		8.29	8.29		33.68	33.68		96.9	96.4		6.53	6.51		6.92	6.85		9	
14/10/2011	19:55	Cloudy	Middle	3.0	26.20	26.20	26.25	8.25	8.25	8.25	33.48	33.51	33.50	89.2	92.2	91.3	5.99	6.13	6.09	5.62	5.98	5.75	9	10.00
	19:56		Middle	3.0	26.30	26.30		8.24	8.24		33.50	33.50		90.7	93.2		6.04	6.21		5.62	5.77		11	
17/10/2011	11:23	Fine	Middle	2.5	26.80	26.80	26.80	8.02	8.02	8.02	32.90	32.90	32.90	93.2	93.0	92.9	6.24	6.22	6.21	6.71	6.24	6.47	9	10.00
	11:26		Middle	2.5	26.80	26.80		8.02	8.02		32.90	32.90		92.8	92.7		6.20	6.19		6.67	6.25		11	
19/10/2011	15:20	Sunny	Middle	2.5	24.98	24.98	24.91	7.80	7.80	7.81	32.97	32.97	33.01	67.3	67.6	67.5	4.61	4.64	4.64	4.55	4.92	4.36	3	3.00
	15:23		Middle	2.5	24.83	24.83		7.81	7.81		33.04	33.04		67.5	67.7		4.64	4.65		3.95	4.01		3	
22/10/2011	14:41	Cloudy	Middle	2.0	26.00	26.00	26.00	8.14	8.14	8.14	33.60	33.60	33.61	100.6	98.6	100.0	6.76	5.62	6.46	4.07	4.88	4.29	4	5.00
	14:44		Middle	2.0	26.00	26.00		8.14	8.14		33.61	33.61		101.2	99.5		6.79	6.68		3.88	4.33		6	<u> </u>
24/10/2011	14:25	Sunny	Middle	2.5	26.60	26.60	26.55	8.07	8.07	8.08	33.55	33.55	33.55	88.7	89.2	88.6	5.89	5.92	5.88	4.34	4.52	4.50	11	8.50
	14:28		Middle	2.5	26.50	26.50		8.08	8.08		33.54	33.54		88.5	88.1		5.85	5.84		4.78	4.36		6	<u> </u>
26/10/2011	19:45	Cloudy	Middle	3.0	25.13	25.13	25.13	8.28	8.28	8.28	33.17	33.17	33.17	70.9	70.8	70.7	4.84	4.84	4.83	3.81	3.79	3.90	4	5.00
	19:46		Middle	3.0	25.13	25.13		8.27	8.27		33.17	33.17		70.6	70.5		4.82	4.82		4.08	3.92		6	

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

Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbic NTU		Suspend	ed Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	lue	Average	Va	lue	Average	Value	g/∟ Average
	-	Typhoon	Middle	-	-	-		-	-		-	-	Ŭ	-	-	Ŭ	-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
20/0/2014	19:50	Claudu	Middle	2.5	27.89	27.89	07.04	7.70	7.70	7 70	32.81	32.81	22.00	72.8	72.8	70.0	4.75	7.75	E E0	22.10	20.90	20 EE	30	24.00
30/9/2011	19:51	Cloudy	Middle	2.5	27.92	27.92	27.91	7.70	7.70	7.70	32.79	32.79	32.80	72.7	72.7	72.8	4.75	4.75	5.50	19.90	19.30	<u>20.55</u>	32	<u>31.00</u>
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-	_	-	-		-	-	_	-	-		-	
3/10/2011	-	no.3	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	_
6/10/2011	15:56	Cloudy	Middle	2.0	26.10	26.10	26.10	8.26	8.26	8.26	33.93	33.93	33.96	86.1	84.5	85.2	5.75	5.65	5.70	9.61	9.55	9.46	12	11.50
0/10/2011	16:00	Cloudy	Middle	2.0	26.10	26.10	20.10	8.26	8.26	0.20	33.98	33.98	33.90	85.9	84.4	05.2	5.74	5.64	5.70	9.48	9.21	<u>3.40</u>	11	11.50
8/10/2011	13:47	Fine	Middle	2.5	26.30	26.30	26.40	7.96	7.96	7.98	33.85	33.85	33.86	84.0	82.1	83.2	5.59	5.46	5.53	9.86	9.40	<u>9.59</u>	18	<u>16.50</u>
0,10,2011	13:50	1 110	Middle	2.5	26.50	26.50	20.10	8.00	8.00	1100	33.86	33.86	00.00	83.8	82.8	00.2	5.57	5.50	0.00	9.20	9.91	<u></u>	15	
10/10/2011	19:05	Cloudy	Middle	2.5	26.12	26.12	26.12	7.99	7.99	7.99	33.44	33.44	33.44	63.1	63.1	63.1	4.23	4.23	4.23	7.02	7.34	7.33	13	14.50
	19:06	choudy	Middle	2.5	26.12	26.12	20.12	7.99	7.99		33.44	33.44	00111	63.1	63.0	0011	4.23	4.22		7.50	7.46	1.00	16	
12/10/2011	19:27	Cloudy	Middle	2.5	26.00	26.00	26.00	8.28	8.28	8.28	33.55	33.55	33.55	95.9	95.8	95.5	6.44	6.42	6.42	6.15	6.16	6.06	8	8.00
	19:28		Middle	2.5	26.00	26.00		8.28	8.28		33.55	33.55		94.5	95.7		6.40	6.42		5.80	6.12		8	
14/10/2011	19:26	Cloudy	Middle	2.5	26.30	26.30	26.30	8.20	8.20	8.20	33.29	33.29	33.29	86.8	86.7	86.5	5.79	5.77	5.79	8.99	8.56	<u>8.97</u>	15	15.50
	19:27		Middle	2.5	26.30	26.30		8.20	8.20		33.29	33.29		86.1	86.2		5.79	5.79		9.37	8.94		16	
17/10/2011	11:47	Fine	Middle	2.5	26.10	26.10	26.15	8.02	8.02	8.02	32.80	32.80	32.80	93.8	93.7	93.2	6.34	6.33	6.30	8.58	8.63	<u>8.75</u>	17	<u>16.00</u>
	11:50		Middle	2.5	26.20	26.20		8.02	8.02		32.80	32.80		92.8	92.6		6.27	6.25		8.82	8.97		15	
19/10/2011	14:47	Sunny	Middle	2.5	25.31	25.31	25.14	8.12	8.12	8.11	32.72	32.72	32.72	85.9	85.4	85.1	5.90	5.87	5.85	4.05	4.43	4.13	7	8.00
	14:50		Middle	2.5	24.97	24.97		8.10	8.10		32.72	32.72		84.6	84.5		5.82	5.81		4.05	3.98		9	
22/10/2011	14:15	Cloudy	Middle	2.0	26.30	26.30	26.45	8.01	8.01	8.01	33.47	33.47	33.53	90.6	89.0	89.9	6.03	5.94	5.99	4.54	4.07	4.13	8	8.00
	14:18		Middle	2.0	26.60	26.60		8.01	8.01		33.59	33.59		90.3	89.8		6.00	5.97		3.92	3.97		8	<u> </u>
24/10/2011	13:45	Sunny	Middle	2.0	26.30	26.30	26.25	8.03	8.03	8.03	33.02	33.02	33.02	88.1	89.2	88.8	5.90	5.92	5.94	4.56	4.17	4.82	7	7.00
	13:48		Middle	2.0	26.20	26.20		8.02	8.02		33.01	33.01		88.9	89.0		5.96	5.97		5.61	4.93		7	<u> </u>
26/10/2011	19:20	Cloudy	Middle	3.0	25.27	25.27	25.27	8.22	8.23	8.22	33.11	33.11	33.11	70.9	70.9	70.9	4.84	4.83	4.83	3.98	3.68	4.07	6	6.00
	19:21		Middle	3.0	25.26	25.26		8.22	8.21		33.12	33.11		70.9	70.8		4.83	4.83		4.27	4.34		6	

Water Monitoring Result at C9 - Provident Centre 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	led Solids a/L
		Contaition	n	n	Va	ilue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2011	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
20/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30/9/2011	19:05	Cloudy	Middle	2.0	28.13	28.13	28.14	7.74	7.74	7.74	32.37	32.37	32.37	75.9	75.9	75.9	4.95	4.95	4.95	10.70	10.70	10.50	16	14.50
30/9/2011	19:06	Cloudy	Middle	2.0	28.14	28.14	20.14	7.74	7.74	1.14	32.37	32.37	52.57	75.9	75.9	15.5	4.94	4.94	4.90	10.30	10.30	10.50	13	14.30
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-	_	-	-	-	-	-	-	-	-		-	
0/10/2011	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	12:32	Cloudy	Middle	1.5	27.00	27.00	27.10	8.28	8.28	8.27	33.37	33.37	33.37	80.5	79.2	79.8	5.30	5.22	5.24	9.09	9.27	9.25	14	13.00
0/10/2011	12:33	Cloudy	Middle	1.5	27.20	27.20	27.10	8.26	8.26	0.27	33.36	33.36	00.01	80.7	78.7	10.0	5.31	5.13	0.24	9.37	9.26	0.20	12	10.00
8/10/2011	13:40	Fine	Middle	2.5	27.00	27.00	27.05	7.71	7.71	7.72	32.40	32.40	32.35	84.1	83.4	81.9	5.55	5.49	5.40	8.92	9.06	8.68	8	8.00
0,10,2011	13:43	1 1110	Middle	2.5	27.10	27.10	27100	7.72	7.72		32.30	32.30	02100	80.2	79.9	0110	5.29	5.25	0.10	8.53	8.20	0.00	8	0.00
10/10/2011	18:47	Cloudy	Middle	2.0	26.11	26.11	26.12	7.95	7.95	7.95	31.42	31.42	31.42	58.5	58.4	58.4	3.96	3.96	3.96	7.77	7.56	7.75	13	13.00
	18:48		Middle	2.0	26.12	26.12		7.95	7.95		31.42	31.42		58.4	58.3		3.96	3.95		7.71	7.94		13	
12/10/2011	19:14	Cloudy	Middle	1.5	26.00	26.00	26.00	8.21	8.21	8.21	32.27	32.27	32.27	84.4	84.4	84.5	5.70	5.71	5.76	5.87	5.89	6.04	8	7.50
	19:15		Middle	1.5	26.00	26.00		8.21	8.21		32.27	32.27		84.5	84.8		5.83	5.79		6.49	5.89		7	
14/10/2011	19:07	Cloudy	Middle	1.5	26.30	26.30	26.30	8.12	8.12	8.12	32.86	32.86	32.86	76.2	77.9	77.0	5.15	5.22	5.17	5.66	5.55	5.69	10	9.00
	19:08		Middle	1.5	26.30	26.30		8.12	8.12		32.86	32.86		76.0	77.8		5.09	5.21		5.63	5.93		8	
17/10/2011	11:31	Fine	Middle	2.0	26.10	26.10	26.15	8.07	8.07	8.07	33.12	33.12	33.11	59.6	59.6	59.6	4.00	3.98	3.99	7.87	7.85	7.95	11	10.50
	11:34		Middle	2.0	26.20	26.20		8.06	8.06		33.10	33.10		59.6	59.4		3.99	3.97		8.05	8.04		10	<u> </u>
19/10/2011	14:40	Sunny	Middle	2.5	26.50	26.50	26.45	7.90	7.90	7.91	32.60	32.60	32.55	91.7	91.3	91.2	6.19	6.16	6.15	5.99	5.73	5.83	6	6.50
	14:43		Middle	2.5	26.40	26.40		7.91	7.91	1	32.50	32.50		91.1	90.7		6.14	6.12		5.82	5.78		7	<u> </u>
22/10/2011	14:00	Cloudy	Middle	2.5	26.40	26.40	26.50	7.96	7.96	7.96	32.30	32.30	32.25	83.8	83.1	82.7	5.61	5.58	5.55	13.00	13.10	<u>13.03</u>	12	12.50
	14:03		Middle	2.5	26.60	26.60		7.95	7.95		32.20	32.20		82.3	81.7		5.52	5.49		12.50	13.50		13	<u> </u>
24/10/2011	13:45	Sunny	Middle	2.0	26.40	26.40	26.45	8.09	8.09	8.10	32.20	32.20	32.25	84.7	84.4	84.1	5.71	5.68	5.66	8.77	8.42	8.71	11	11.50
	13:47	-	Middle	2.0	26.50	26.50		8.11	8.11		32.30	32.30		83.9	83.4		5.65	5.61		8.56	9.07		12	<u> </u>
26/10/2011	19:05	Cloudy	Middle	2.0	25.20	25.20	25.21	8.13	8.13	8.13	32.90	32.90	32.90	69.6	69.5	69.5	4.76	4.74	4.74	6.23	6.79	6.56	9	10.00
	19:06		Middle	2.0	25.21	25.21		8.13	8.12		32.90	32.90		69.4	69.3		4.74	4.73		6.57	6.64		11	

am Water Monitoring Result at C8 - City Garden Mid-Flood Tide

Date	Time	Weater Condition	Samplin	Sampling Depth		er Temp °C	nperature		pН		Salinity ppt		ty	DO Satu %		ation		DO ma/L			Turbidity NTU			Suspended Solids ma/L	
		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va		Average	Va		Average	Va		Average	Va		Average		Average	
00/0/0014	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-		
28/9/2011	-	no.3	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		
30/9/2011	19:20	Cloudy	Middle	2.0	28.00	28.00	28.01	7.67	7.67	7.67	32.44	32.44	32.44	70.3	70.3	70.3	4.59	4.59	4.59	10.30	10.50	10.58	12	13.00	
30/9/2011	19:21	Cloudy	Middle	2.0	28.01	28.01	28.01	7.67	7.67	7.07	32.44	32.44	32.44	70.3	70.3	70.3	4.59	4.59	4.59	10.60	10.90	10.58	14	13.00	
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_	-		
3/10/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6/10/2011	12:23	Cloudy	Middle	1.5	27.60	27.60	27.70	8.24	8.24	8.22	33.44	33.44	33.43	78.7	77.1	78.5	5.12	5.01	5.10	7.16	7.45	7.51	9	8.50	
0/10/2011	12:24	Cloudy	Middle	1.5	27.80	27.80	27.70	8.20	8.20	0.22	33.41	33.41	33.43	79.9	78.2	76.5	5.19	5.08	5.10	7.97	7.46	7.51	8	0.50	
8/10/2011	13:49	Fine	Middle	2.5	27.10	27.10	27.15	7.77	7.77	7.78	31.80	31.80	31.85	78.6	78.0	77.8	5.23	5.18	5.17	11.80	13.00	<u>12.15</u>	12	10.00	
0/10/2011	13:51	1 IIIC	Middle	2.5	27.20	27.20	27.15	7.78	7.78	1.10	31.90	31.90	31.05	77.4	77.0	11.0	5.16	5.11	5.17	12.10	11.70	12.13	8	10.00	
10/10/2011	18:35	Cloudy	Middle	2.0	26.14	26.14	26.14	7.86	7.86	7.86	33.08	33.08	33.08	55.8	55.7	55.6	3.75	3.74	3.74	7.57	6.69	7.45	13	12.50	
10/10/2011	18:36	Cloudy	Middle	2.0	26.14	26.14	20.14	7.86	7.86	1.00	33.08	33.08	00.00	55.6	55.3	66.6	3.73	3.73	0.14	7.83	7.72	1.40	12	12.00	
12/10/2011	19:01	Cloudy	Middle	1.5	26.00	26.00	26.00	8.22	8.22	8.22	32.19	32.19	32.19	88.1	88.0	87.9	6.11	5.96	6.10	7.42	7.27	7.23	12	11.50	
12/10/2011	19:02	Cloudy	Middle	1.5	26.00	26.00	20.00	8.22	8.22	0.22	32.19	32.19	02.10	88.6	86.7	01.5	6.47	5.87	0.10	7.14	7.08	1.20	11	11.00	
14/10/2011	18:56	Cloudy	Middle	1.5	26.30	26.30	26.30	8.11	8.11	8.11	32.85	32.85	32.85	78.5	78.6	78.4	5.26	5.27	5.26	6.67	6.91	6.93	9	9.50	
14/10/2011	18:57	Cloudy	Middle	1.5	26.30	26.30	20.00	8.11	8.11	0.11	32.85	32.85	02.00	78.1	78.3	70.4	5.24	5.25	0.20	7.25	6.88	0.00	10	0.00	
17/10/2011	11:40	Fine	Middle	2.0	26.10	26.10	26.05	8.12	8.12	8.13	33.12	33.12	33.12	62.5	62.4	62.4	4.20	4.19	4.19	9.38	8.84	9.08	15	14.00	
	11:43		Middle	2.0	26.00	26.00		8.13	8.13		33.11	33.11		62.3	62.2		4.18	4.18		9.15	8.93		13		
19/10/2011	14:45	Sunny	Middle	2.0	26.10	26.10	26.15	7.95	7.95	7.96	32.50	32.50	32.45	86.1	85.5	85.4	5.81	5.79	5.77	6.39	6.31	6.51	8	8.00	
	14:48		Middle	2.0	26.20	26.20		7.96	7.96		32.40	32.40		85.3	84.5		5.76	5.73	-	6.96	6.38		8		
22/10/2011	14:05	Cloudy	Middle	2.0	26.40	26.40	26.45	7.94	7.94	7.94	32.10	32.10	32.15	79.4	78.1	78.0	5.33	5.26	5.25	11.00	10.90	<u>11.53</u>	13	12.00	
	14:08		Middle	2.0	26.50	26.50		7.93	7.93		32.20	32.20		77.5	77.0		5.21	5.18		12.30	11.90		11		
24/10/2011	13:52	Sunny	Middle	2.0	26.20	26.20	26.25	8.12	8.12	8.13	32.50	32.50	32.45	94.9	94.1	93.8	6.39	6.36	6.32	9.71	9.78	<u>9.71</u>	17	17.00	
	13:54		Middle	2.0	26.30	26.30		8.13	8.13		32.40	32.40		93.2	92.8		6.29	6.25		9.61	9.72		17		
26/10/2011	18:51	Cloudy	Middle	2.0	25.23	25.23	25.23	8.10	8.10	8.10	32.85	32.85	32.85	68.1	68.1	68.1	4.65	4.65	4.65	5.80	5.68	5.74	8	8.00	
	18:52	,	Middle	2.0	25.23	25.23		8.10	8.10		32.85	32.85		68.2	68.1		4.65	4.66		5.90	5.59		8		

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

		Weater	Sampling Depth		Water Temperature			рН				Salini	ty	D	O Satur	ation	DO mg/L				Turbid NTU	Suspended Solids ma/L		
		Condition	r	n	Va	llue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va		Average	Va	lue	Average	Value	g/∟ Average
28/9/2011	-	Typhoon	Middle	-	-	-	¥	-	-	¥	-	-		-	-	<u> </u>	-	-	<u> </u>	-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
30/9/2011	22:20	Cloudy	Middle	1.5	27.79	27.79	27.79	7.67	7.67	7.67	32.58	32.58	32.58	53.8	53.6	53.4	3.52	3.51	3.50	3.85	3.51	3.74	5	5.00
30/3/2011	22:21	Cloudy	Middle	1.5	27.79	27.79	21.13	7.67	7.67	1.01	32.58	32.58	32.00	53.2	53.1	55.4	3.49	3.48	5.50	3.78	3.81	3.74	5	5.00
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	12:14	Cloudy	Middle	1.5	27.60	27.60	27.65	8.14	8.14	8.15	33.23	33.23	33.21	76.8	76.3	76.8	5.02	4.98	5.02	4.14	4.57	4.10	5	6.00
	12:15		Middle	1.5	27.70	27.70		8.15	8.15		33.19	33.19		77.5	76.5		5.06	5.00		3.91	3.77		7	
8/10/2011	14:12	Fine	Middle	1.5	28.30	28.30	28.25	7.86	7.86	7.87	32.20	32.20	32.20	80.9	80.8	80.5	5.29	5.27	5.25	4.37	4.17	4.35	2	2.50
	14:15		Middle	1.5	28.20	28.20		7.87	7.87		32.20	32.20		80.3	80.1		5.22	5.20		4.32	4.54		3	<u> </u>
10/10/2011	18:12	Cloudy	Middle	1.5	26.33	26.33	26.33	7.80	7.80	7.80	32.68	32.68	32.68	44.5	44.3	44.3	2.98	2.97	<u>2.97</u>	4.64	4.38	4.39	5	6.00
	18:13		Middle	1.5	26.33	26.33		7.80	7.80		32.68	32.68		44.3	44.1		2.96	2.96		4.37	4.17		7	<u> </u>
12/10/2011	18:44	Cloudy	Middle	1.5	25.90	25.90	25.90	8.15	8.15	8.15	32.81	32.81	32.81	74.6	73.4	74.2	5.02	4.96	5.00	5.01	4.93	4.85	6	6.00
	18:45		Middle	1.5	25.90	25.90		8.15	8.15		32.81	32.81		73.9	74.7		4.99	5.04		4.72	4.72		6	<u> </u>
14/10/2011	18:38	Cloudy	Middle	1.5	26.30	26.30	26.30	8.07	8.07	8.07	32.45	32.45	32.45	61.3	61.7	61.5	4.11	4.14	4.12	4.98	4.74	4.81	6	6.50
	18:39		Middle	1.5	26.30	26.30		8.07	8.07		32.45	32.45		61.4	61.4		4.12	4.11		4.65	4.86		7	<u> </u>
17/10/2011	11:23	Fine	Middle	1.5	26.70	29.70	27.40	8.02	8.02	8.02	32.85	32.85	32.85	52.5	52.1	52.2	3.49	3.47	3.48	6.13	5.95	6.04	7	6.50
	11:26		Middle	1.5	26.60	26.60		8.01	8.01		32.84	32.84		52.3	52.0		3.48	3.46		6.03	6.06		6	<u> </u>
19/10/2011	14:55	Sunny	Middle	1.5	26.40	26.40	26.35	7.83	7.83	7.84	32.10	32.10	32.05	80.1	78.9	78.6	5.37	5.33	5.30	4.08	4.35	4.18	5	5.50
	14:58		Middle	1.5	26.30	26.30		7.84	7.84		32.00	32.00		78.3	77.2		5.26	5.22		4.14	4.13		6	<u> </u>
22/10/2011	14:15	Cloudy	Middle	1.5	27.60	27.60	27.65	7.87	7.87	7.88	31.80	31.80	31.75	80.6	79.0	78.8	5.29	5.21	5.18	9.01	9.21	<u>9.45</u>	10 7	8.50
	14:18 14:00		Middle	1.5	27.70	27.70		7.88	7.88		31.70	31.70		78.4	77.1		5.14	5.08		9.86	9.72		7	<u> </u>
24/10/2011	14:00	Sunny	Middle	1.5	27.00	27.00	27.00	8.04	8.04	8.03	32.00	32.00	32.00	87.0 85.1	85.9	85.6	5.81	5.74	5.72	8.68	8.86	8.60	5	6.00
	14:02		Middle	1.5 1.5	27.00 25.49	27.00 25.49		8.02 8.04	8.02 8.04		32.00 32.55	32.00 32.55		55.5	84.3 55.5		5.68 3.78	5.63 3.78		8.31 6.94	8.54 7.05		5 10	<u> </u>
26/10/2011	18:27	Cloudy	Middle	1.5	25.49	25.49	25.49	8.04	8.04	8.04	32.55	32.55	32.55	55.5	55.4	55.5	3.78	3.78	3.78	6.86	6.85	6.93	10	10.50

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

Date	Time	Weater Condition	Sampling Depth m		Water Temperature			pH			Salinity ppt			DO Saturation				DO ma/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-	_	-	-	_	-	-	_	-	-	_	-	-
20/9/2011	-	no.3	Middle	-	-	-	-	•	-		-	-	-	-	-		-	-	-	-	-	-	-	
30/9/2011	17:56	Cloudy	Middle	2.0	27.40	27.40	27.45	8.03	8.03	8.03	32.50	32.50	32.50	96.4	95.9	95.9	6.32	6.30	6.30	8.60	8.15	8.54	9	8.50
30/3/2011	17:57	Cloudy	Middle	2.0	27.50	27.50	27.45	8.03	8.03	0.00	32.50	32.50	32.30	95.5	95.6	55.5	6.29	6.28	0.50	8.30	9.09	0.04	8	0.00
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
0,10,2011	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	15:21	Cloudy	Middle	2.0	26.70	26.70	26.65	7.92	7.92	7.93	32.70	32.70	32.65	88.6	87.9	87.8	5.90	5.87	5.85	6.35	5.51	5.87	7	8.00
0,10,2011	15:24	choudy	Middle	2.0	26.60	26.60	20.00	7.93	7.93		32.60	32.60	02.00	87.6	86.9	0110	5.83	5.80	0.00	5.70	5.90	0.01	9	0.00
8/10/2011	14:43	Fine	Middle	2.5	27.20	27.20	27.15	7.91	7.91	7.91	32.80	32.80	32.75	82.6	82.2	82.1	5.45	5.43	5.42	4.66	4.25	4.39	5	6.00
	14:46		Middle	2.5	27.10	27.10		7.91	7.91		32.70	32.70		82.0	81.7		5.41	5.39		4.41	4.25		7	
10/10/2011	16:00	Cloudy	Middle	2.0	26.30	26.30	26.35	8.20	8.20	8.19	33.76	33.76	33.76	85.2	83.6	84.6	5.68	5.57	5.64	4.09	4.00	4.13	7	7.00
	16:03		Middle	2.0	26.40	26.40		8.18	8.18		33.75	33.75		86.0	83.6		5.73	5.56		4.17	4.26		7	
12/10/2011	17:02	Cloudy	Middle	2.0	26.50	26.50	26.45	7.98	7.98	7.98	31.97	31.97	31.97	85.0	84.7	84.8	5.79	5.77	5.78	4.19	4.20	4.16	7	6.50
	17:04		Middle	2.0	26.40	26.40		7.98	7.98		31.97	31.97		85.3	84.2		5.81	5.73		4.28	3.96		6	
14/10/2011	18:39	Cloudy	Middle	2.0	26.00	26.00	26.00	7.86	7.86	7.86	32.20	32.20	32.20	87.8	87.6	87.5	5.91	5.92	5.91	5.97	5.08	5.28	8	8.50
	18:40		Middle	2.0	26.00	26.00		7.86	7.86		32.20	32.20		87.4	87.2		5.90	5.89		5.06	4.99		9	
17/10/2011	11:00	Fine	Middle	2.5	26.40	26.40	26.35	8.06	8.06	8.06	33.12	33.12	33.13	70.8	70.9	70.9	4.74	4.75	4.74	5.54	5.96	5.81	4	7.00
	11:05		Middle	2.5	26.30	26.30		8.06	8.06		33.13	33.13		71.1	70.8		4.75	4.73		6.01	5.74		10	
19/10/2011	15:22	Sunny	Middle	2.5	25.70	25.70	25.75	7.90	7.90	7.91	32.60	32.60	32.55	91.4	91.0	90.5	6.19	6.15	6.13	4.22	4.33	4.14	10	7.50
	15:25		Middle	2.5	25.80	25.80		7.91	7.91		32.50	32.50		90.0	89.7		6.11	6.07		3.97	4.04		5	
22/10/2011	14:35	Cloudy	Middle	2.5	26.10	26.10	26.20	7.89	7.89	7.90	32.40	32.40	32.35	92.9	92.6	92.4	6.24	6.22	6.20	6.80	7.06	7.35	13	12.00
	14:38		Middle	2.5	26.30	26.30		7.90	7.90		32.30	32.30		92.2	91.7		6.18	6.14		7.75	7.77		11	<u> </u>
24/10/2011	14:33	Sunny	Middle	2.0	26.30	26.30	26.30	8.03	8.03	8.05	32.50	32.50	32.50	94.3	94.0	94.0	6.33	6.32	6.31	4.43	4.30	4.21	7	7.50
	14:35		Middle	2.0	26.30	26.30		8.06	8.06		32.50	32.50		93.9	93.7		6.31	6.29		3.82	4.30		8	<u> </u>
26/10/2011	17:15	Cloudy	Middle	2.5	25.40	25.40	25.35	8.22	8.22	8.22	32.50	32.50	32.45	93.6	93.2	93.0	6.40	6.38	6.37	7.76	6.59	7.51	9	10.00
	17:18		Middle	2.5	25.30	25.30		8.21	8.21		32.40	32.40		92.8	92.5		6.35	6.34		7.44	8.23		11	

am Water Monitoring Result at C2 - TH / APA / SOC Mid-Flood Tide

Date	Time Weate Conditi		Samplin	ng Depth	Wat	Water Temperature			рН			Salini	ity	D	O Satur	ation		DO		Turbidity				Suspended Solids mg/L	
Dato		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	lue %	Average	Va	mg/L lue	Average	Va	lue	Average	Value	J/L Average	
28/9/2011	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-		
20/9/2011	-	no.3	Middle	-	-	-	-	-	-		-	-		-	-	-	-	-		-	-	-	-		
30/9/2011	19:49	Cloudy	Middle	2.0	27.30	27.20	27.23	7.97	7.97	7.97	32.40	32.40	32.40	92.7	92.4	92.4	6.12	6.12	6.11	5.68	6.08	5.87	6	6.00	
00/0/2011	19:50	Cloudy	Middle	2.0	27.20	27.20	27.20	7.97	7.97	1.01	32.40	32.40	02.40	92.4	92.2	0 2 .4	6.11	6.10	0.11	5.59	6.12	0.07	6	0.00	
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-		
6/10/2011	15:10	Cloudy	Middle	1.5	26.70	26.70	26.65		7.84	7.84	32.80	32.80	32.75	86.1	85.6	85.0	5.77	5.74	5.69	6.65	6.15	6.80	10	10.00	
0,10,2011	15:13	Cloudy	Middle	1.5	26.60	26.60	20.00	7.83	7.83	1.04	32.70	32.70	02.10	84.5	83.9	66.6	5.64	5.62	0.00	6.95	7.44	0.00	10	10.00	
8/10/2011	15:40	Fine	Middle	1.5	27.00	27.00	27.05	7.94	7.94	7.95	32.90	32.90	32.85	90.6	90.2	90.1	6.00	5.98	5.97	4.04	3.95	3.72	5	5.00	
0,10,2011	15:43	1 1110	Middle	1.5	27.10	27.10	21.00	7.95	7.95	1100	32.80	32.80	02:00	89.9	89.7	0011	5.95	5.94	0.07	3.53	3.34	0.12	5	0.00	
10/10/2011	16:07	Cloudy	Middle	1.5	26.10	26.10	6.10 26.15	7.66	7.66	7.67	33.00	33.00	32.95	90.1	88.6	88.1	6.01	5.96	5.90	4.54	4.72	4.78	7	7.00	
10,10,2011	16:09	cloudy	Middle	1.5	26.20	26.20	20110	7.67	7.67		32.90	32.90	02.00	87.3	86.3	0011	5.85	5.77	0.00	4.95	4.92		7	1.00	
12/10/2011	16:05	Cloudy	Middle	1.5	26.10	26.10	26.05	7.97	7.97	7.97	32.60	32.60	32.55	89.7	89.1	88.9	6.05	5.99	5.98	3.73	3.86	3.86	6	6.00	
12/10/2011	16:08	cloudy	Middle	1.5	26.00	26.00	20.00	7.96	7.96		32.50	32.50	02.00	88.5	88.2	00.0	5.96	5.93	0.00	3.72	4.11	0.00	6	0.00	
14/10/2011	21:14	Cloudy	Middle	2.0	26.20	26.20	26.20	7.92	7.92	7.92	32.30	32.30	32.30	84.8	84.5	84.4	5.70	5.69	5.68	4.24	3.97	4.07	5	5.50	
	21:15	cloudy	Middle	2.0	26.20	26.20	20.20	7.92	7.92		32.30	32.30	02.00	84.3	84.1	0	5.67	5.66	0.00	4.26	3.80		6	0.00	
17/10/2011	9:50	Fine	Middle	2.0	25.50	25.50	25.55	7.94	7.94	7.94	33.02	33.02	33.02	66.5	66.9	67.2	4.53	4.56	4.58	7.86	6.22	6.55	5	6.00	
	9:53		Middle	2.0	25.60	25.60		7.93	7.93		33.01	33.01		67.2	68.2		4.58	4.65		6.21	5.90		7		
19/10/2011	16:25	Sunny	Middle	2.0	26.00	26.00	25.95	7.91	7.91	7.91	32.50	32.50	32.45	87.5	86.3	86.1	5.89	5.85	5.82	5.66	5.10	5.60	8	8.50	
	16:28		Middle	2.0	25.90	25.90		7.90	7.90		32.40	32.40		85.7	84.9		5.78	5.74		5.95	5.70		9		
22/10/2011	15:40	Cloudy	Middle	2.0	26.60	26.60	26.65	7.91	7.91	7.92	32.40	32.40	32.35	91.3	91.0	90.8	6.11	6.08	6.07	3.43	3.62	3.33	6	5.00	
	15:43	,	Middle	2.0	26.70	26.70		7.92	7.92		32.30	32.30		90.6	90.3		6.07	6.03		3.15	3.12		4		
24/10/2011	16:20	Sunny	Middle	1.0	26.70	26.70	26.80	8.04	8.04	8.04	32.50	32.50	32.45	95.8	95.1	95.1	6.37	6.33	6.33	4.48	4.67	4.16	5	4.50	
	16:21	-	Middle	1.0	26.90	26.90		8.03	8.03		32.40	32.40		94.9	94.5		6.31	6.30		3.87	3.61		4		
26/10/2011	16:18	Cloudy	Middle	1.5	25.50	25.50	25.45	8.11	8.11	8.11	32.50	32.50	32.55	94.4	94.0	93.9	6.46	6.44	6.43	4.22	4.28	4.07	7	7.50	
	16:21	,	Middle	1.5	25.40	25.40		8.10	8.10	-	32.60	32.60		93.7	93.3		6.41	6.40		3.77	4.02		8		

Water Monitoring Result at C3 - HKCEC Phase I Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth m		Wat	er Temp °C	nperature pH				Salinity ppt		ty	D	O Satur %	ation		DO ma/L			Turbidity NTU			led Solids a/L
		Contaition	n	n	Va	<u> </u>	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-		-	-	_	-	-	_	-	-	_	-	
20/9/2011	-	no.3	Middle	-	-	-	-	-	-		-	-		-	-	-	-	-		-	-	-	-	
30/9/2011	19:34	Cloudy	Middle	2.5	26.90	26.90	26.90	8.01	8.01	8.01	32.00	32.00	32.00	76.6	76.0	75.9	5.08	5.05	5.04	4.27	3.88	4.08	5	4.50
00/0/2011	19:35	Cloudy	Middle	2.5	26.90	26.90	20.00	8.01	8.01	0.01	32.00	32.00	02.00	75.7	75.3	10.5	5.03	5.01	0.04	4.51	3.67	4.00	4	4.00
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	16:10	Cloudy	Middle	3.0	26.50	26.50	26.45	7.96	7.96	7.96	32.60	32.60	32.55	87.0	86.3	85.8	5.85	5.79	5.76	3.61	3.36	3.67	4	3.50
	16:13		Middle	3.0	26.40	26.40		7.95	7.95		32.50	32.50		85.3	84.5		5.74	5.67		3.93	3.77		3	
8/10/2011	15:35	Fine	Middle	3.0	26.40	26.40	26.45	7.91	7.91	7.92	32.50	32.50	32.55	75.4	74.5	74.4	5.06	5.02	5.00	2.85	2.91	2.82	2	2.50
	15:38		Middle	3.0	26.50	26.50		7.92	7.92		32.60	32.60		74.2	73.6		4.98	4.95		2.79	2.72	-	3	
10/10/2011	16:20	Cloudy	Middle	3.0	26.50	26.50	26.50	7.95	7.95	7.96	32.70	32.70	32.70	78.8	77.8	78.1	5.28	5.21	5.22	19.90	19.70	<u>19.80</u>	23	23.50
	16:22		Middle	3.0	26.50	26.50		7.97	7.97		32.70	32.70		78.4	77.3		5.24	5.16		19.80	19.80		24	
12/10/2011	16:20	Cloudy	Middle	2.5	26.20	26.20	26.15	8.02	8.02	8.03	31.00	31.00	31.05	83.8	83.0	82.5	5.68	5.61	5.59	16.10	15.70	15.60	18	20.50
	16:23		Middle	2.5	26.10	26.10		8.03	8.03		31.10	31.10		82.0	81.1		5.57	5.48		15.40	15.20		23	
14/10/2011	20:57	Cloudy	Middle	2.5	26.30	26.30	26.30	8.13	8.13	8.13	32.56	32.56	32.56	79.7	80.2	80.2	5.35	5.39	5.39	3.61	4.02	3.87	3	3.50
	20:58		Middle	2.5	26.30	26.30		8.13	8.13		32.56	32.56		80.5	80.5		5.41	5.42		3.73	4.12		4	
17/10/2011	10:00	Fine	Middle	3.0	25.50	25.50	25.55	8.00	8.00	8.01	32.31	32.31	32.31	51.9	53.0	53.7	3.56	3.63	3.67	3.56	3.55	3.57	3	4.00
	10:03		Middle	3.0	25.60	25.60		8.01	8.01		32.30	32.30		54.3	55.5		3.71	3.79		3.58	3.58		5	
19/10/2011	16:15	Sunny	Middle	3.0	26.00	26.00	26.05	7.90	7.90	7.91	32.30	32.30	32.25	86.5	85.0	84.8	5.85	5.78	5.75	2.45	2.54	2.52	9	8.00
	16:18		Middle	3.0	26.10	26.10		7.91	7.91		32.20	32.20		84.2	83.6		5.70	5.68		2.63	2.47		7	
22/10/2011	15:30	Cloudy	Middle	3.0	25.70	25.70	25.65	7.89	7.87	7.87	32.10	32.10	32.10	84.6	83.4	83.2	5.71	5.66	5.64	5.81	6.01	5.91	10	9.00
	15:33		Middle	3.0	25.60	25.60		7.86	7.86		32.10	32.10		82.9	81.9		5.61	5.58		5.97	5.84		8	
24/10/2011	16:10	Sunny	Middle	2.5	26.50	26.50	26.50	8.03	8.03	8.04	32.20	32.20	32.20	85.4	85.0	84.7	5.73	5.71	5.69	6.00	5.47	5.72	7	7.00
	16:12		Middle	2.5	26.50	26.50		8.04	8.04	1	32.20	32.20		84.4	84.0		5.66	5.64		5.38	6.04		7	
26/10/2011	16:25	Cloudy	Middle	3.0	25.80	25.80	25.75	8.26	8.26	8.26	32.40	32.40	32.35	89.3	88.7	88.7	6.09	6.06	6.05	12.70	11.90	<u>12.03</u>	17	<u>16.50</u>
	16:28		Middle	3.0	25.70	25.70		8.25	8.25		32.30	32.30		88.6	88.2		6.04	6.02		11.20	12.30		16	

am Water Monitoring Result at C4e - WCT / GEC Mid-Flood Tide

Date	Time	Weater	Samplir	ng Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	
		Condition	I	m	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va	lue	Average	Va	lue	Average	Value	g/∟ Average
00/0/0014	-	Typhoon	Middle	-	-	-	0	-	-		-	-		-	-	0	-	-	0	-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	19:21	Cloudy	Middle	2.0	26.40	26.40	26.40	8.03	8.03	8.03	32.00	32.00	32.00	98.5	98.3	98.4	6.61	6.61	6.61	5.62	5.80	5.65	3	4.00
30/9/2011	19:22	Cloudy	Middle	2.0	26.40	26.40	20.40	8.03	8.03	6.03	32.00	32.00	32.00	98.5	98.2	90.4	6.61	6.62	0.01	5.51	5.68	5.65	5	4.00
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-	_	-	-	_	-	-	-	-	-	_	-	-	_	-	
0/10/2011	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	16:04	Cloudy	Middle	1.5	26.70	26.70	26.65	7.96	7.96	7.96	32.50	32.50	32.45	87.2	86.5	86.1	5.85	5.77	5.76	4.54	4.46	4.57	4	4.50
0,10,2011	16:07	choudy	Middle	1.5	26.60	26.60	20.00	7.95	7.95		32.40	32.40	02.10	85.6	84.9		5.73	5.67	0.10	4.41	4.88		5	
8/10/2011	15:27	Fine	Middle	1.5	26.40	26.40	26.45	7.91	7.91	7.92	32.60	32.60	32.55	85.6	84.1	84.0	5.72	5.64	5.63	3.59	3.33	3.65	2	2.50
	15:30		Middle	1.5	26.50	26.50		7.92	7.92	-	32.50	32.50		83.6	82.8		5.59	5.56		4.28	3.41		3	
10/10/2011	16:43	Cloudy	Middle	1.0	26.80	26.80	26.80	7.96	7.96	7.96	32.80	32.80	32.80	80.0	79.4	79.3	5.32	5.27	5.27	9.24	8.39	8.60	9	8.50
	16:45		Middle	1.0	26.80	26.80		7.96	7.96		32.80	32.80		78.9	78.7		5.28	5.21		8.52	8.24		8	
12/10/2011	16:42	Cloudy	Middle	1.5	26.50	26.50	26.55	8.01	8.01	8.02	31.50	31.50	31.45	91.3	90.9	90.5	6.14	6.11	6.09	6.53	6.64	6.46	7	7.00
	16:45		Middle	1.5	26.60	26.60		8.02	8.02		31.40	31.40		90.1	89.7		6.06	6.03		6.61	6.05		7	<u> </u>
14/10/2011	20:28	Cloudy	Middle	2.0	25.60	25.60	25.60	7.92	7.92	7.92	31.90	31.90	31.90	94.7	94.5	94.5	6.45	6.44	6.44	2.73	2.71	2.80	4	3.50
	20:29		Middle	2.0	25.60	25.60		7.92	7.92		31.90	31.90		94.4	94.4		6.44	6.44		2.91	2.85		3	
17/10/2011	10:12	Fine	Middle	1.5	25.90	25.90	25.95	8.02	8.02	8.03	32.72	32.72	32.72	63.7	64.8	65.1	4.32	4.40	4.42	2.82	3.09	2.96	4	4.00
	10:15		Middle	1.5	26.00	26.00		8.03	8.03		32.71	32.71		65.7	66.3		4.46	4.51		3.13	2.78		4	
19/10/2011	16:08	Sunny	Middle	1.5	25.60	25.60	25.55	7.91	7.91	7.92	32.40	32.40	32.35	88.3	87.3	87.1	5.98	5.94	5.91	3.15	2.86	3.05	4	4.50
	16:11		Middle	1.5	25.50	25.50		7.92	7.92		32.30	32.30		86.8	85.8		5.88	5.83		3.32	2.86		5	<u> </u>
22/10/2011	15:23	Cloudy	Middle	1.5	25.20	25.20	25.25	7.87	7.87	7.87	32.10	32.10	32.15	86.2	85.0	84.8	5.82	5.77	5.74	3.19	3.34	3.30	3	3.00
	15:26		Middle	1.5	25.30	25.30		7.86	7.86		32.20	32.20		84.5	83.3		5.71	5.67		3.28	3.39		3	<u> </u>
24/10/2011	15:18	Sunny	Middle	1.0	26.80	26.80	26.80	8.05	8.05	8.05	32.20	32.20	32.20	84.4	84.3	84.1	5.63	5.62	5.61	5.58	5.56	5.58	6	6.50
	15:20		Middle	1.0	26.80	26.80		8.05	8.05		32.20	32.20		84.0	83.7		5.61	5.59		5.29	5.88		7	<u> </u>
26/10/2011	16:57	Cloudy	Middle	1.5	26.10	26.10	26.05	8.28	8.28	8.28	32.40	32.40	32.35	88.9	88.5	88.4	6.03	6.02	6.00	4.10	4.08	4.44	7	6.50
	17:00		Middle	1.5	26.00	26.00		8.27	8.27		32.30	32.30		88.3	87.7		5.99	5.96		4.98	4.58		6	

Water Monitoring Result at C4w - WCT / GEC Mid-Flood Tide

Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition		m	Va	llue	Average	Va	lue -	Average	Va		Average	Va		Average	Va		Average	Va	lue	Average		Average
28/9/2011	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	_
20/9/2011	-	no.3	Middle	-	-	-	_	-	-	-	-	-	-	-	-		-	-		-	-	-	-	-
30/9/2011	19:11	Cloudy	Middle	2.0	26.60	26.60	26.60	8.02	8.02	8.02	32.10	32.10	32.10	89.3	89.2	89.2	6.01	6.00	6.00	3.48	3.08	3.34	6	5.00
00/0/2011	19:12	Cloudy	Middle	2.0	26.60	26.60	20.00	8.02	8.02	0.02	32.10	32.10	02.10	89.1	89.0	00.2	5.99	5.99	0.00	3.18	3.61	0.04	4	0.00
3/10/2011	-	Typhoon	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	15:55	Cloudy	Middle	1.5	27.00	27.00	26.95	7.95	7.95	7.95	32.40	32.40	32.35	81.7	81.3	80.9	5.45	5.41	5.39	5.63	5.13	5.41	8	8.00
	15:58		Middle	1.5	26.90	26.90		7.94	7.94		32.30	32.30		80.5	80.1		5.37	5.33		5.57	5.30		8	
8/10/2011	15:20	Fine	Middle	1.5	26.60	26.70	26.68	7.77	7.77	7.78	32.30	32.30	32.25	67.0	65.6	65.3	4.46	4.40	4.37	1.04	1.08	1.07	2	2.00
	15:23		Middle	1.5	26.70	26.70		7.78	7.78	-	32.20	32.20		64.9	63.6		4.33	4.27	-	1.00	1.14	-	<2	
10/10/2011	16:33	Cloudy	Middle	1.0	26.80	26.80	26.80	7.92	7.92	7.92	32.80	32.80	32.80	79.7	79.1	78.7	5.30	5.25	5.23	12.00	11.10	11.03	12	11.50
	16:35		Middle	1.0	26.80	26.80		7.91	7.91		32.80	32.80		78.3	77.7		5.22	5.16		10.50	10.50		11	
12/10/2011	16:35	Cloudy	Middle	1.5	26.50	26.50	26.45	7.97	7.97	7.98	31.60	31.60	31.65	86.3	86.1	85.9	5.81	5.78	5.77	7.10	6.71	6.74	7	7.50
	16:38		Middle	1.5	26.40	26.40		7.98	7.98		31.70	31.70		85.6	85.4		5.76	5.74		6.14	6.99		8	
14/10/2011	20:45	Cloudy	Middle	2.0	26.10	26.10	26.10	8.07	8.07	8.07	32.78	32.78	32.78	74.5	78.5	76.8	5.01	5.25	5.16	1.20	1.26	1.26	2	2.50
	20:46		Middle	2.0	26.10	26.10		8.07	8.07		32.77	32.77		76.9	77.4		5.17	5.21		1.23	1.35		3	<u> </u>
17/10/2011	10:07	Fine	Middle	1.5	26.00	26.00	26.05	8.04	8.04	8.04	32.84	32.84	32.83	63.6	64.2	64.7	4.30	4.35	4.39	5.91	5.10	5.19	7	6.00
	10:10		Middle	1.5	26.10	26.10		8.03	8.03		32.82	32.82		65.2	65.8		4.43	4.46		5.47	4.29		5	<u> </u>
19/10/2011	16:02	Sunny	Middle	1.5	25.90	25.90	25.85	7.93	7.93	7.93	32.50	32.50	32.45	85.5	84.4	84.2	5.78	5.73	5.70	4.29	3.94	4.31	6	5.50
	16:05		Middle	1.5	25.80	25.80		7.92	7.92		32.40	32.40		83.9	82.9		5.67	5.63		4.35	4.66		5	
22/10/2011	15:17	Cloudy	Middle	1.5	25.90	25.90	25.95	7.81	7.81	7.82	32.00	32.00	32.05	82.3	80.7	80.3	5.56	5.47	5.43	1.35	1.42	1.47	2	2.00
	15:20		Middle	1.5	26.00	26.00		7.82	7.82		32.10	32.10		79.8	78.3		5.37	5.31		1.75	1.36		2	
24/10/2011	15:23	Sunny	Middle	1.0	26.40	26.50	26.48	8.05	8.05	8.05	32.20	32.20	32.20	90.3	89.8	89.4	6.04	6.00	5.98	5.61	5.86	5.47	8	9.00
	15:25		Middle	1.0	26.50	26.50		8.04	8.04		32.20	32.20		89.1	88.5		5.96	5.91		5.12	5.29		10	<u> </u>
26/10/2011	16:50	Cloudy	Middle	1.0	25.90	25.90	25.95	8.25	8.25	8.26	32.50	32.50	32.45	88.8	88.0	87.9	6.03	5.99	5.98	5.00	4.65	4.78	6	6.50
	16:53		Middle	1.0	26.00	26.00		8.26	8.26		32.40	32.40		87.7	87.0		5.96	5.94		4.44	5.01		7	

Water Monitoring Result at C5e - Sun Hung Kai Centre 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			led Solids a/L
		Condition	n	n	Va	<u> </u>	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va	lue	Average	Va	lue	Average		g/∟ Average
	-	Typhoon	Middle	-	-	-		-	-		-	-	¥	-	-	¥	-	-	ŭ	-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
00/0/0011	18:41	Olavata	Middle	2.0	25.80	25.80	05.00	8.05	8.05	0.05	32.10	32.10	00.40	98.1	98.0	07.0	6.68	6.67	0.07	6.05	6.34	0.04	4	0.50
30/9/2011	18:42	Cloudy	Middle	2.0	25.80	25.80	25.80	8.05	8.05	8.05	32.10	32.10	32.10	97.8	97.8	97.9	6.67	6.66	6.67	5.80	5.97	6.04	3	3.50
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-		-	-	_	-	-	_	-	-	_	-	
3/10/2011	-	no.3	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
6/10/2011	15:50	Cloudy	Middle	1.0	27.20	27.20	27.15	7.98	7.98	7.99	32.40	32.40	32.35	86.5	85.9	85.4	5.71	5.67	5.65	5.19	5.13	5.16	8	7.00
0/10/2011	15:53	Cloudy	Middle	1.0	27.10	27.10	27.15	7.99	7.99	7.55	32.30	32.30	52.55	84.7	84.3	05.4	5.63	5.58	5.05	5.30	5.02	5.10	6	7.00
8/10/2011	15:01	Fine	Middle	1.5	27.80	27.80	27.85	7.87	7.87	7.88	30.60	30.60	30.65	80.3	79.5	79.1	5.30	5.27	5.23	7.17	7.56	7.13	7	7.50
0,10,2011	15:04	1 110	Middle	1.5	27.90	27.90	21.00	7.88	7.88	1100	30.70	30.70	00.00	78.7	77.9		5.20	5.16	0.20	7.05	6.75		8	1.00
10/10/2011	16:20	Cloudy	Middle	1.0	27.00	27.00	26.95	8.11	8.11	8.11	32.83	32.83	32.84	66.8	65.8	66.4	4.43	4.37	4.41	3.29	2.79	2.85	9	7.50
	16:21	choudy	Middle	1.0	26.90	26.90	20.00	8.11	8.11	0	32.85	32.85	02.01	67.0	66.0	00.1	4.45	4.38		2.62	2.70	2.00	6	
12/10/2011	16:30	Cloudy	Middle	1.5	26.40	26.00	26.30	7.94	7.94	7.94	30.08	30.08	30.08	87.2	86.6	86.8	6.06	6.02	6.03	3.25	3.09	3.09	4	4.00
	16:32		Middle	1.5	26.40	26.40		7.94	7.94		30.08	30.08		86.9	86.3		6.04	6.00		2.59	3.44		4	
14/10/2011	19:36	Cloudy	Middle	2.0	26.40	26.40	26.40	7.93	7.93	7.93	32.10	32.10	32.10	85.0	84.7	84.6	5.69	5.69	5.68	4.40	4.29	4.24	6	7.00
	19:37		Middle	2.0	26.40	26.40		7.93	7.93		32.10	32.10		84.5	84.1		5.67	5.66		4.06	4.19		8	
17/10/2011	10:38	Fine	Middle	1.5	26.50	26.50	26.45	8.04	8.04	8.04	32.57	32.57	32.58	59.9	61.4	61.4	4.02	4.12	4.12	2.88	2.66	2.62	5	4.00
	10:41		Middle	1.5	26.40	26.40		8.03	8.03		32.59	32.59		61.9	62.3		4.15	4.18		2.52	2.41		3	
19/10/2011	15:51	Sunny	Middle	1.5	26.50	26.50	26.45	7.92	7.92	7.93	32.20	32.20	32.15	87.4	86.8	86.7	5.87	5.84	5.82	4.79	5.14	5.13	5	4.50
	15:54		Middle	1.5	26.40	26.40		7.93	7.93		32.10	32.10		86.6	86.0		5.80	5.78		5.59	5.00		4	
22/10/2011	15:07	Cloudy	Middle	1.5	26.70	26.70	26.75	7.93	7.93	7.93	31.60	31.60	31.55	88.6	87.4	87.2	5.93	5.86	5.84	8.34	8.26	8.21	8	7.00
	15:10		Middle	1.5	26.80	26.80		7.92	7.92		31.50	31.50		86.9	86.0		5.80	5.78		7.98	8.25		6	
24/10/2011	15:05	Sunny	Middle	1.5	27.00	27.00	27.05	8.08	8.08	8.08	32.10	32.10	32.15	86.6	86.1	85.8	5.76	5.71	5.71	5.14	3.99	4.53	7	7.50
	15:07		Middle	1.5	27.10	27.10		8.08	8.08		32.20	32.20		85.5	84.9		5.70	5.65		4.61	4.38		8	
26/10/2011	16:18	Cloudy	Middle	1.5	25.50	25.50	25.50	8.00	8.00	8.00	32.78	32.78	32.78	75.6	73.3	75.4	5.14	4.98	5.13	3.07	2.92	2.84	5	5.50
	16:21		Middle	1.5	25.50	25.50		8.00	8.00		32.78	32.78		77.7	75.1		5.28	5.10		2.74	2.61		6	

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU	ity		led Solids a/L
		Condition	r	n	Va	•	Average	Va	lue	Average	Va		Average	Va	ilue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-		-	-		-	-	_	-	-	_	-	
20/3/2011	-	no.3	Middle	-	-	-	_	-	-		-	-		-	-	_	-	-	_	-	-	_	-	_
30/9/2011	18:45	Cloudy	Middle	2.0	25.70	25.70	25.70	8.05	8.05	8.05	32.00	32.00	32.00	97.8	97.8	97.8	6.68	6.67	6.67	5.46	5.81	5.66	7	6.00
	18:46	choudy	Middle	2.0	25.70	25.70	2011 0	8.05	8.05	0.00	32.00	32.00	02.00	97.7	97.7	0110	6.66	6.66	0.07	5.74	5.61	0.00	5	0.00
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-		-	-	_	-	-	-	-	-	-	-	-	-	-	
	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	15:43	Cloudy	Middle	1.0	27.20	27.20	27.15	7.95	7.95	7.95	32.30	32.30	32.25	81.1	81.0	80.8	5.42	5.39	5.37	5.39	5.01	5.13	6	7.00
	15:46	,	Middle	1.0	27.10	27.10		7.94	7.94		32.20	32.20		80.7	80.2		5.34	5.31		5.34	4.77		8	
8/10/2011	15:05	Fine	Middle	1.5	27.40	27.40	27.45	7.91	7.91	7.91	31.80	31.80	31.85	81.2	80.3	80.2	5.35	5.31	5.29	8.94	9.07	8.52	11	9.00
	15:08		Middle	1.5	27.50	27.50		7.90	7.90		31.90	31.90		79.9	79.2		5.27	5.24		7.94	8.12		7	
10/10/2011	16:16	Cloudy	Middle	1.5	26.70	26.70	26.70	8.12	8.12	8.13	33.17	33.17	33.19	77.7	76.7	77.2	5.16	5.10	5.13	4.21	4.31	4.24	12	8.50
	16:17		Middle	1.5	26.70	26.70		8.13	8.13		33.20	33.20		78.2	76.0		5.20	5.05		4.22	4.22		5	
12/10/2011	16:24	Cloudy	Middle	1.5	26.50	26.50	26.50	7.97	7.97	7.97	30.82	30.82	30.82	88.3	87.7	87.8	6.12	6.06	6.08	4.33	4.22	4.29	3	4.00
	16:26		Middle	1.5	26.50	26.50		7.96	7.96		30.82	30.82		88.0	87.1		6.10	6.02		4.42	4.20		5	
14/10/2011	19:46	Cloudy	Middle	2.0	26.40	26.40	26.40	7.92	7.92	7.92	32.10	32.10	32.10	78.6	78.2	78.3	5.27	5.25	5.25	3.63	3.51	3.69	6	5.50
	19:47		Middle	2.0	26.40	26.40		7.92	7.92		32.10	32.10		78.2	78.0		5.24	5.24		3.90	3.73		5	
17/10/2011	10:33	Fine	Middle	1.5	26.60	26.60	26.65	8.04	8.04	8.04	32.73	32.73	32.72	60.2	61.0	61.2	4.03	4.08	4.10	3.10	3.29	3.28	5	9.50
	10:36		Middle	1.5	26.70	26.70		8.03	8.03	1	32.71	32.71		61.6	62.0		4.12	4.15		3.61	3.12		14	
19/10/2011	15:45	Sunny	Middle	1.5	26.20	26.20	26.25	7.92	7.92	7.93	32.30	32.30	32.25	88.5	87.4	87.2	5.93	5.89	5.86	3.20	3.86	3.35	9	8.00
	15:48		Middle	1.5	26.30	26.30		7.93	7.93		32.20	32.20		86.9	86.1		5.83	5.80		3.14	3.19		7	<u> </u>
22/10/2011	15:00	Cloudy	Middle	1.5	26.90	26.90	26.95	7.94	7.94	7.94	31.50	31.50	31.45	86.5	85.8	85.7	5.76	5.73	5.72	13.20	13.10	<u>13.25</u>	10	10.00
	15:03		Middle	1.5	27.00	27.00		7.93	7.93		31.40	31.40		85.5	85.1		5.70	5.68		12.80	13.90		10	<u> </u>
24/10/2011	15:01	Sunny	Middle	1.5	27.00	27.00	27.05	8.04	8.04	8.05	32.10	32.10	32.15	85.8	85.6	85.4	5.72	5.70	5.69	5.70	5.33	5.50	6	6.50
	15:03		Middle	1.5	27.10	27.10		8.05	8.05		32.20	32.20		85.2	85.0		5.67	5.66		5.47	5.50		7	<u> </u>
26/10/2011	16:10	Cloudy	Middle	1.5	25.50	25.50	25.50	8.06	8.06	8.04	33.09	33.09	33.10	82.6	81.0	81.5	5.61	5.55	5.54	4.18	4.31	3.99	7	6.50
	16:13		Middle	1.5	25.50	25.50		8.02	8.02		33.10	33.10		82.3	80.0		5.58	5.43		3.71	3.75		6	

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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU	ity	Suspend	led Solids
		Condition	n	n	Va	<u> </u>	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/9/2011	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30/9/2011	18:05	Cloudy	Middle	2.0	25.20	25.20	25.23	8.06	8.06	8.06	32.30	32.30	32.30	95.5	95.2	95.2	6.55	6.53	6.53	4.54	4.05	4.17	4	5.00
30/9/2011	18:26	Cloudy	Middle	2.0	25.20	25.30	23.23	8.06	8.06	8.00	32.30	32.30	32.30	95.3	94.9	95.2	6.53	6.51	0.55	3.94	4.16	4.17	6	5.00
3/10/2011	-	Typhoon	Middle	-	-	-	-	-	-		-	-	_	-	-	-	-	-	-	-	-	_	-	
0/10/2011	-	no.3	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/10/2011	15:35	Cloudy	Middle	2.0	27.00	27.00	26.95	7.95	7.95	7.95	32.50	32.50	32.45	87.6	87.1	86.8	5.81	5.78	5.76	5.29	5.38	5.49	8	7.00
0,10,2011	15:38	cloudy	Middle	2.0	26.90	26.90	20.00	7.94	7.94	1.00	32.40	32.40	02.40	86.6	86.0	66.6	5.74	5.71	0.70	5.87	5.43	0.40	6	1.00
8/10/2011	14:55	Fine	Middle	2.0	27.10	27.10	27.15	7.92	7.92	7.93	32.70	32.70	32.65	84.9	84.3	84.0	5.62	5.59	5.57	5.11	4.80	5.12	4	5.00
	14:58		Middle	2.0	27.20	27.20		7.93	7.93		32.60	32.60		83.8	83.0		5.54	5.51		4.90	5.68		6	
10/10/2011	16:45	Cloudy	Middle	2.5	26.90	26.90	26.90	8.14	8.14	8.15	33.69	33.69	33.69	79.4	78.3	78.9	5.25	5.18	5.21	6.34	6.05	6.31	16	14.50
	16:48	,	Middle	2.5	26.90	26.90		8.15	8.15		33.69	33.69		80.3	77.5		5.30	5.12	-	6.71	6.14		13	
12/10/2011	16:46	Cloudy	Middle	2.0	26.40	26.40	26.40	7.94	7.94	7.94	31.68	31.68	31.68	86.6	86.0	85.8	5.93	5.88	5.87	3.62	4.00	3.86	5	5.00
	16:49		Middle	2.0	26.40	26.40		7.93	7.93		31.68	31.68		86.2	84.3		5.90	5.78		3.81	3.99		5	<u> </u>
14/10/2011	19:16	Cloudy	Middle	2.0	25.40	25.40	25.40	7.93	7.93	7.93	32.20	32.20	32.20	80.1	79.9	79.9	5.46	5.45	5.44	4.13	4.55	4.39	6	6.50
	19:17		Middle	2.0	25.40	25.40		7.93	7.93		32.20	32.20		79.8	79.6		5.44	5.42		4.13	4.76		7	<u> </u>
17/10/2011	10:25	Fine	Middle	2.0	25.80	25.80	25.85	8.04	8.04	8.04	32.94	32.94	32.93	66.7	67.2	67.7	4.52	4.55	4.58	5.24	5.48	5.20	13	8.00
	10:28		Middle	2.0	25.90	25.90		8.03	8.03		32.92	32.92		68.2	68.7		4.60	4.66		5.01	5.05		3	<u> </u>
19/10/2011	15:35	Sunny	Middle	2.0	26.30	26.30	26.25	7.88	7.88	7.89	32.10	32.10	32.15	76.8	76.5	76.7	4.92	4.90	4.91	3.93	3.60	3.65	7	7.50
	15:38		Middle	2.0	26.20	26.20		7.89	7.89		32.20	32.20		76.3	77.0		4.88	4.94		3.49	3.58		8	<u> </u>
22/10/2011	14:52	Cloudy	Middle	1.5	26.90	26.90	26.85	7.93	7.93	7.93	32.30	32.30	32.35	87.7	87.5	87.3	5.83	5.82	5.81	4.14	3.69	3.91	7	6.50
	14:55		Middle	1.5	26.80	26.80		7.92	7.92		32.40	32.40		87.1	86.9		5.80	5.79		4.13	3.66		6	<u> </u>
24/10/2011	14:49	Sunny	Middle	2.0	26.40	26.40	26.55	8.00	8.00	7.98	32.20	32.20	32.20	81.8	80.6	79.8	5.45	5.40	5.33	3.24	3.04	3.24	8	9.00
	14:51		Middle	2.0	26.70	26.70		7.96	7.96		32.20	32.20		78.9	77.7		5.28	5.20		3.28	3.39		10	<u> </u>
26/10/2011	16:26	Cloudy	Middle	2.0	25.70	25.70	25.70	8.02	8.02	8.02	33.19	33.19	33.20	82.0	80.3	81.7	5.55	5.43	5.52	3.95	3.76	4.13	4	3.50
	16:29		Middle	2.0	25.70	25.70		8.02	8.02		33.20	33.20		82.5	81.8		5.58	5.53		4.30	4.49		3	

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

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU	ity	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
20/0/2011	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
30/9/2011	21:40	Cloudy	Middle	1.5	27.81	27.96	27.93	7.73	7.73	7.73	32.66	32.66	32.66	65.6	65.3	65.3	4.28	4.26	4.26	6.81	6.78	6.79	12	12.00
30/9/2011	21:41	Cloudy	Middle	1.5	27.97	27.97	27.93	7.73	7.73	1.15	32.66	32.66	32.00	65.2	65.2	05.5	4.25	4.25	4.20	6.92	6.65	0.79	12	12.00
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-		-	-	_	-	-	_	-	-		-	_
3/10/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6/10/2011	13:22	Cloudy	Middle	1.5	26.60	26.60	26.65	8.15	8.15	8.16	33.67	33.67	33.67	88.5	87.4	87.9	5.87	5.80	5.83	11.20	11.30	10.88	15	14.00
0/10/2011	13:26	Cloudy	Middle	1.5	26.70	26.70	20.05	8.16	8.16	0.10	33.67	33.67	33.07	88.5	87.1	07.9	5.87	5.77	5.65	10.30	10.70	10.00	13	14.00
8/10/2011	16:41	Fine	Middle	1.5	26.70	26.70	26.70	8.12	8.12	8.12	33.74	33.74	33.76	84.9	82.5	83.7	5.62	5.47	5.55	7.77	7.83	7.85	12	13.50
0/10/2011	16:44	1 IIIC	Middle	1.5	26.70	26.70	20.70	8.12	8.12	0.12	33.77	33.77	33.70	84.8	82.5	00.7	5.61	5.48	0.00	8.12	7.66	1.00	15	10.00
10/10/2011	17:32	Cloudy	Middle	1.5	26.26	26.26	26.26	7.83	7.83	7.83	33.06	33.07	33.06	61.0	60.9	60.8	4.09	4.08	4.08	7.40	7.45	7.68	14	14.00
10/10/2011	17:33	Cloudy	Middle	1.5	26.26	26.27	20.20	7.83	7.83	7.00	33.06	33.05	55.00	60.7	60.6	00.0	4.07	4.06	4.00	8.17	7.69	7.00	14	14.00
12/10/2011	20:47	Cloudy	Middle	1.5	26.00	26.00	26.00	8.19	8.19	8.19	33.24	33.24	33.24	91.6	91.5	91.5	6.16	6.15	6.15	6.76	6.33	6.52	8	9.00
12,10,2011	20:48	Cloudy	Middle	1.5	26.00	26.00	20.00	8.19	8.19	0.10	33.24	33.24	00.24	91.4	91.5	01.0	6.14	6.15	0.10	6.68	6.32	0.02	10	0.00
14/10/2011	21:10	Cloudy	Middle	1.5	26.30	26.30	26.30	8.09	8.09	8.09	33.00	33.01	33.00	83.7	84.1	83.7	5.60	5.63	5.60	5.52	5.11	5.07	9	8.50
1., 10,2011	21:11	cicuay	Middle	1.5	26.30	26.30	20.00	8.09	8.09	0.00	33.00	33.00	00.00	83.8	83.3		5.60	5.57	0.00	4.79	4.84	0.07	8	0.00
17/10/2011	8:36	Fine	Middle	1.5	25.90	25.90	25.85	7.87	7.87	7.90	32.40	32.40	32.40	83.4	83.3	83.3	5.69	5.68	5.68	10.90	11.00	10.75	12	13.50
	8:39		Middle	1.5	25.80	25.80		7.92	7.92		32.40	32.40		83.4	83.1		5.68	5.67		10.40	10.70		15	
19/10/2011	12:50	Sunny	Middle	2.0	26.60	26.60	26.55	7.89	7.89	7.90	32.40	32.40	32.45	88.3	87.9	87.9	5.92	5.90	5.90	4.49	4.36	4.34	8	7.00
	12:53		Middle	2.0	26.50	26.50		7.90	7.90		32.50	32.50		87.8	87.4		5.89	5.87		4.29	4.21		6	
22/10/2011	12:02	Cloudy	Middle	1.5	26.50	26.50	26.50	7.88	7.88	7.88	33.11	33.11	33.13	87.4	84.7	86.0	5.83	5.65	5.74	6.37	7.06	6.11	26	24.50
	12:05		Middle	1.5	26.50	26.50		7.88	7.88		33.15	33.15		87.3	84.5		5.82	5.64		5.74	5.28		23	
24/10/2011	17:33	Sunny	Middle	2.0	26.00	26.00	26.05	8.00	8.00	8.01	33.13	33.13	33.13	84.3	83.8	84.3	5.67	5.64	5.68	7.41	7.01	7.63	13	12.50
	17:36		Middle	2.0	26.10	26.10		8.01	8.01		33.12	33.12		84.2	84.9		5.66	5.73		7.85	8.25		12	
26/10/2011	17:49	Cloudy	Middle	2.0	25.31	25.31	25.31	7.98	7.98	7.98	32.64	32.64	32.64	59.5	59.4	59.5	4.06	4.06	4.06	7.69	7.66	7.66	9	9.00
	17:50		Middle	2.0	25.31	25.31		7.98	7.98		32.64	32.64		59.5	59.5		4.06	4.06		7.72	7.58		9	



Water Monitoring Result at WSD20 - Kennedy Town Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
20/0/2011	21:20	Claudu	Middle	2.0	27.87	27.87	07.00	7.67	7.67	7.00	32.82	32.82	22.04	66.7	66.7	00.7	4.36	4.36	4.36	10.90	10.60	40.00	15	14.50
30/9/2011	21:21	Cloudy	Middle	2.0	27.92	27.92	27.90	7.68	7.68	7.68	32.79	32.79	32.81	66.7	66.6	66.7	4.36	4.36	4.36	10.50	10.70	<u>10.68</u>	14	14.50
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-		-	-	_	-	-	_	-	-	_	-	
3/10/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2011	13:06	Cloudy	Middle	1.5	26.70	26.70	26.75	8.15	8.15	8.16	33.71	33.71	33.71	88.1	86.6	87.8	5.83	5.73	5.81	5.85	5.82	5.86	8	8.50
0/10/2011	13:07	Cloudy	Middle	1.5	26.80	26.80	20.75	8.16	8.16	0.10	33.70	33.70	33.71	88.8	87.5	07.0	5.87	5.79	5.61	5.72	6.06	5.60	9	0.50
8/10/2011	16:20	Fine	Middle	1.5	26.70	26.70	26.80	8.17	8.17	8.18	33.86	33.86	33.86	88.7	86.2	87.9	5.86	5.70	5.81	11.80	11.70	<u>11.75</u>	20	24.00
0,10,2011	16:23		Middle	1.5	26.90	26.90	20.00	8.18	8.18	0.10	33.86	33.86	00.00	89.9	86.8	01.5	5.94	5.73	0.01	12.20	11.30	<u></u>	28	24.00
10/10/2011	17:15	Cloudy	Middle	1.5	26.29	26.29	26.29	7.79	7.79	7.79	33.08	33.08	33.08	63.0	62.9	62.9	4.22	4.21	4.21	8.86	7.72	8.21	12	12.50
10/10/2011	17:16	cloudy	Middle	1.5	26.29	26.29	20.20	7.79	7.79	1.10	33.08	33.08	66.66	62.9	62.8	02.0	4.21	4.21	4.21	7.60	8.64	0.21	13	12.00
12/10/2011	20:32	Cloudy	Middle	1.5	26.10	26.10	26.10	8.19	8.19	8.19	33.54	33.54	33.54	86.7	86.6	86.6	5.81	5.80	5.80	6.36	6.06	6.18	11	11.00
	20:33		Middle	1.5	26.10	26.10		8.19	8.19		33.54	33.54		86.6	86.4		5.80	5.78		6.09	6.19		11	
14/10/2011	20:40	Cloudy	Middle	1.5	26.50	26.50	26.50	8.15	8.15	8.15	33.30	33.30	33.30	91.7	91.6	91.5	6.10	6.10	6.11	7.20	6.82	6.71	11	11.00
	20:41		Middle	1.5	26.50	26.50		8.15	8.15		33.30	33.30		90.3	92.5		6.07	6.16		6.20	6.63		11	
17/10/2011	8:06	Fine	Middle	1.5	25.60	25.60	25.60	7.86	7.86	7.88	32.60	32.60	32.60	87.5	86.9	88.0	5.97	5.94	6.02	9.67	9.59	<u>9.66</u>	15	14.00
	8:07		Middle	1.5	25.60	25.60		7.89	7.89		32.60	32.60		89.1	88.6		6.10	6.07		9.77	9.59		13	
19/10/2011	12:33	Sunny	Middle	1.5	26.30	26.30	26.35	8.01	8.01	8.02	32.40	32.40	32.35	95.2	95.0	94.9	6.41	6.39	6.39	3.92	4.00	3.95	9	10.50
	12:36		Middle	1.5	26.40	26.40		8.02	8.02		32.30	32.30		94.7	94.5		6.38	6.37		3.87	4.02		12	
22/10/2011	11:46	Cloudy	Middle	1.5	26.20	26.20	26.25	8.04	8.04	8.02	33.09	33.09	33.10	92.5	90.3	91.1	6.20	6.04	6.10	5.58	4.99	5.28	11	10.50
	11:48	-	Middle	1.5	26.30	26.30		8.00	8.00		33.11	33.11		91.6	90.0		6.13	6.02		4.82	5.74		10	
24/10/2011	17:15	Sunny	Middle	1.5	26.30	26.30	26.25	8.03	8.03	8.03	33.09	33.09	33.09	93.5	94.1	93.7	6.27	6.31	6.28	4.45	4.46	4.22	7	9.00
	17:18		Middle	1.5	26.20	26.20		8.02	8.02		33.08	33.08		93.6	93.4		6.28	6.25		4.07	3.88		11	<u> </u>
26/10/2011	17:34	Cloudy	Middle	2.0	25.24	25.24	25.24	7.96	7.96	7.96	32.71	32.71	32.71	63.2	63.2	63.3	4.32	4.32	4.33	7.34	7.80	7.53	10	10.00
	17:35		Middle	2.0	25.24	25.24		7.96	7.96		32.71	32.71		63.4	63.3		4.33	4.33		7.39	7.60		10	

Water Monitoring Result at WSD7 - Kowloon South Mid-Flood Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbic NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
00/0/0011	-	Typhoon	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
28/9/2011	-	no.3	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
20/0/2014	17:45	Cloudy	Middle	1.5	28.46	28.45	20.45	7.60	7.60	7.60	32.31	32.31	32.31	71.7	71.6	71.6	4.65	4.65	4.65	10.20	9.16	0.00	14	14.50
30/9/2011	17:46	Cloudy	Middle	1.5	28.45	28.45	28.45	7.60	7.60	7.60	32.31	32.31	32.31	71.6	71.5	71.0	4.65	4.64	4.05	10.30	9.91	9.89	15	14.50
3/10/2011	-	Typhoon	Middle	-	-	-	_	-	-		-	-	_	-	-	_	-	-	_	-	-		-	_
3/10/2011	-	no.3	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
6/10/2011	13:53	Cloudy	Middle	1.5	26.50	26.50	26.55	8.23	8.23	8.23	33.70	33.70	33.69	86.0	85.3	85.5	5.71	5.66	5.68	8.09	8.48	8.24	9	9.50
0/10/2011	13:55	Cloudy	Middle	1.5	26.60	26.60	20.55	8.22	8.22	0.25	33.68	33.68	33.09	86.3	84.3	00.0	5.73	5.60	5.00	8.14	8.25	0.24	10	9.50
8/10/2011	15:52	Fine	Middle	1.5	27.20	27.20	27.25	8.12	8.12	8.13	33.75	33.75	33.75	82.5	80.5	81.7	5.42	5.29	5.37	5.73	6.10	6.10	8	7.50
0/10/2011	15:55	1 110	Middle	1.5	27.30	27.30	21.20	8.13	8.13	0.10	33.75	33.75	00.70	83.1	80.8	01.7	5.46	5.31	0.01	6.37	6.21	0.10	7	1.00
10/10/2011	16:00	Cloudy	Middle	1.5	26.58	26.59	26.59	7.69	7.69	7.69	32.94	32.94	32.94	55.9	55.8	55.8	3.73	3.72	3.72	6.82	7.21	6.72	7	8.00
10,10,2011	16:01	choudy	Middle	1.5	26.59	26.60	20.00	7.69	7.69		32.94	32.94	02.01	55.7	55.6	00.0	3.71	3.71	0.1.2	6.49	6.35	0.12	9	0.00
12/10/2011	17:40	Cloudy	Middle	1.5	26.00	26.00	26.05	8.17	8.17	8.17	33.41	33.41	33.41	88.7	88.7	88.2	5.96	5.96	5.93	6.51	6.80	6.65	9	9.00
	17:41		Middle	1.5	26.10	26.10		8.17	8.17		33.41	33.41		87.8	87.7		5.89	5.89		6.53	6.76		9	
14/10/2011	17:19	Cloudy	Middle	1.5	26.30	26.30	26.30	8.23	8.23	8.23	33.13	33.13	33.12	90.1	90.1	90.2	6.02	6.01	6.03	4.75	5.06	4.82	7	6.50
	17:20		Middle	1.5	26.30	26.30		8.23	8.23		33.11	33.10		90.5	90.2		6.04	6.04		4.72	4.75		6	
17/10/2011	9:07	Fine	Middle	1.5	25.90	25.90	25.90	7.97	7.97	7.97	32.60	32.60	32.60	84.9	84.8	84.5	5.77	5.76	5.75	7.99	7.80	7.81	9	10.00
	9:09		Middle	1.5	25.90	25.90		7.96	7.96		32.60	32.60		84.3	84.1		5.73	5.72		7.50	7.96		11	
19/10/2011	11:10	Sunny	Middle	1.5	26.60	26.60	26.65	7.86	7.86	7.87	32.60	32.60	32.55	88.3	88.2	87.9	5.93	5.92	5.90	7.22	7.64	7.22	12	11.50
	11:13		Middle	1.5	26.70	26.70		7.87	7.87		32.50	32.50		87.6	87.5		5.89	5.87		6.85	7.18		11	<u> </u>
22/10/2011	16:54	Cloudy	Middle	1.5	26.20	26.20	26.20	7.89	7.89	7.89	33.35	33.35	33.33	83.2	82.0	82.8	5.58	5.49	5.55	5.83	5.91	5.82	11	10.00
	16:57		Middle	1.5	26.20	26.20		7.89	7.89		33.30	33.30		83.7	82.3		5.61	5.51		5.71	5.81		9	
24/10/2011	15:52	Sunny	Middle	1.5	26.90	26.90	26.95	7.96	7.96	7.96	33.35	33.35	33.34	88.7	89.2	88.9	5.85	5.87	5.86	7.40	7.86	7.88	12	11.00
	15:55		Middle	1.5	27.00	27.00		7.95	7.95		33.32	33.32		88.8	89.0		5.86	5.87		7.93	8.33		10	<u> </u>
26/10/2011	16:05	Cloudy	Middle	1.5	25.65	25.65	25.65	7.81	7.81	7.81	32.58	32.58	32.58	67.3	67.4	67.4	4.57	4.58	4.58	4.62	4.50	4.53	8	9.00
	16:06		Middle	1.5	25.65	25.65		7.81	7.81		32.58	32.58		67.4	67.4		4.58	4.58		4.71	4.27		10	



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		Suspende	
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt Ilue	Average	Va	ilue %	Average	Va	mg/L lue	Average	Va	NTL ilue	Average	mg Value	g/L Average
28/9/2011	11:18	Fine	Middle	2.5	28.50	28.50	28.55	8.27	8.27	8.28	33.71	33.71	33.71	89.3	88.0	89.3	5.75	5.66	5.74	4.49	4.51	4.48	6	7.00
20/9/2011	11:22	1 ine	Middle	2.5	28.60	28.60	20.55	8.28	8.28	0.20	33.71	33.71	35.71	89.3	90.5	09.5	5.74	5.82	5.74	4.38	4.54	4.40	8	7.00
30/9/2011	13:47	Cloudy	Middle	2.5	27.00	27.00	26.95	8.27	8.27	8.28	33.64	33.64	33.63	91.2	89.8	90.3	6.02	5.93	5.97	9.17	9.29	9.20	11	10.50
30/3/2011	13:50	Cloudy	Middle	2.5	26.90	26.90	20.33	8.28	8.28	0.20	33.62	33.62	33.03	91.5	88.8	30.5	6.04	5.87	5.57	9.03	9.30	3.20	10	10.50
3/10/2011	1:53	Cloudy	Middle	2.5	26.10	26.08	26.02	8.07	8.07	8.07	30.74	30.74	30.76	88.6	88.7	88.6	6.08	6.08	6.08	6.71	6.55	6.72	7	7.50
0,10,2011	1:54	eleady	Middle	2.5	25.94	25.94	20.02	8.07	8.07	0.07	30.77	30.77	00110	88.6	88.6	00.0	6.08	6.08	0.00	6.95	6.65	0.12	8	1.00
6/10/2011	5:09	Cloudy	Middle	2.0	25.52	25.52	25.52	7.83	7.83	7.84	31.45	31.45	31.45	71.1	71.1	71.1	4.87	4.87	4.87	4.21	4.30	4.30	6	7.00
	5:10		Middle	2.0	25.52	25.51		7.85	7.85		31.44	31.44		71.1	71.1		4.87	4.87		4.35	4.33		8	
8/10/2011	21:25	cloudy	Middle	2.0	26.07	26.07	26.08	7.70	7.70	7.70	33.18	33.18	33.18	58.9	58.9	58.9	3.96	3.96	3.96	3.90	3.72	3.87	5	5.00
	21:26	,	Middle	2.0	26.08	26.08		7.70	7.70		33.18	33.18		58.7	58.9		3.95	3.95		3.96	3.91		5	
10/10/2011	8:52	Fine	Middle	3.0	26.50	26.50	26.55	8.23	8.23	8.23	34.07	34.07	34.07	92.3	90.3	91.7	6.12	5.98	6.08	4.53	4.40	4.54	9	8.00
	8:56		Middle	3.0	26.60	26.60		8.23	8.23		34.06	34.06		92.7	91.5		6.14	6.06		4.77	4.47		7	
12/10/2011	11:50	Rainy	Middle	2.5	25.60	25.60	25.60	8.29	8.29	8.29	33.49	33.49	33.49	95.4	92.9	94.7	6.45	6.29	6.41	4.90	5.27	5.02	7	6.50
	11:53		Middle	2.5	25.60	25.60		8.29	8.29		33.49	33.49		97.1	93.3		6.57	6.32		5.09	4.82		6	
14/10/2011	13:44	Cloudy	Middle	2.0	26.50	26.50	26.55	8.21	8.21	8.21	32.99	32.99	32.98	89.7	87.6	88.9	5.98	5.84	5.92	6.21	6.31	6.25	7	7.50
	13:46	-	Middle	2.0	26.60	26.60		8.21	8.21		32.96	32.96		90.3	88.0		6.00	5.86		6.05	6.42		8	
17/10/2011	0:50	Cloudy	Middle	2.5	25.70	25.70	25.70	8.11	8.11	8.15	30.94	30.94	30.94	92.2	90.4	91.1	6.37	6.18	6.24	3.31	3.21	3.27	7	6.00
	0:51		Middle	2.5	25.70	25.70		8.13	8.23		30.94	30.94		91.1	90.8		6.22	6.20		3.38	3.19		5	<u> </u>
20/10/2011	2:11	Cloudy	Middle	2.5	25.12	25.12	25.09	8.04	8.04	8.03	33.10	33.10	33.12	66.2	66.5	66.4	4.53	4.54	4.54	3.59	3.34	3.33	5	5.50
	2:12		Middle	2.5	25.06	25.06		8.02	8.02		33.13	33.13		66.4	66.4		4.54	4.54		3.24	3.16		6	<u> </u>
22/10/2011	8:30	Cloudy	Middle	2.0	25.30	25.30	25.35	8.02	8.02	8.02	33.31	33.31	33.31	89.2	87.5	88.8	6.06	5.94	6.03	1.94	2.01	1.99	5	8.00
	8:33		Middle	2.0	25.40	25.40		8.02	8.02		33.31	33.31		90.2	88.3		6.13	6.00		2.02	1.97		11	<u> </u>
24/10/2011	20:20	Misty	Middle	2.0	26.02	26.02	26.02	7.98	7.98	7.98	32.13	32.13	32.13	86.8	86.6	86.6	5.87	5.86	5.86	3.06	2.86	2.90	6	6.00
	20:21		Middle	2.0	26.02	26.02		7.98	7.98		32.13	32.13		86.5	86.5		5.85	5.85		2.93	2.73		6	
26/10/2011	9:50	Cloudy	Middle	2.5	25.00	25.00	24.95	8.07	8.07	8.08	33.49	33.49	33.49	91.1	90.1	90.4	6.23	6.17	6.19	3.38	3.46	3.41	4	4.00
	9:53		Middle	2.5	24.90	24.90		8.08	8.08		33.49	33.49		91.3	88.9		6.25	6.09		3.75	3.03		4	

Water Monitoring Result at WSD10 - Cha Kwo Ling Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	Ŭ I	Wat	er Temp °C	erature		pH -			Salini ppt	ty	C	O Satur %	ation		DO mg/L			Turbid NTL		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
00/0/0014	10:48	Fig.	Middle	2.5	28.20	28.20	00.00	8.26	8.26	0.07	33.67	33.67	00.07	88.7	87.2	00.0	5.72	5.63	5 74	6.38	6.55	0.50	6	0.00
28/9/2011	10:51	Fine	Middle	2.5	28.40	28.40	28.30	8.27	8.27	8.27	33.67	33.67	33.67	90.1	88.3	88.6	5.81	5.69	5.71	6.76	6.65	6.59	6	6.00
30/9/2011	14:23	Cloudy	Middle	2.5	27.70	27.70	27.70	8.27	8.27	8.27	33.60	33.60	33.60	88.3	87.6	87.7	5.76	5.72	5.72	13.50	12.40	12.80	16	15.00
30/9/2011	14:26	Cloudy	Middle	2.5	27.70	27.70	21.10	8.27	8.27	0.27	33.59	33.59	33.00	88.8	86.2	01.1	5.79	5.62	5.72	12.80	12.50	12.00	14	13.00
3/10/2011	1:20	Cloudy	Middle	2.5	26.02	26.02	26.02	8.08	8.08	8.08	32.06	32.06	32.06	85.6	85.5	85.5	5.79	5.79	5.79	6.20	6.42	6.39	7	6.50
0,10,2011	1:21	Cloudy	Middle	2.5	26.02	26.02	20.02	8.08	8.08	0.00	32.06	32.06	02.00	85.5	85.4	00.0	5.79	5.78	0.70	6.30	6.62	0.00	6	0.00
6/10/2011	4:45	Cloudy	Middle	2.0	25.60	25.60	25.60	7.96	7.96	7.94	32.47	32.47	32.47	70.6	0.6	53.1	4.80	4.80	4.80	5.33	5.84	5.58	7	7.50
	4:46		Middle	2.0	25.60	25.60		7.87	7.97		32.47	32.47		70.5	70.5		4.79	4.79		5.92	5.21		8	
8/10/2011	20:56	cloudy	Middle	2.0	26.24	26.24	26.24	7.73	7.73	7.74	33.24	33.24	33.24	60.0	60.0	60.0	4.02	4.02	4.02	6.10	5.56	5.82	7	7.50
	20:57	-	Middle	2.0	26.24	26.24		7.74	7.74		33.24	33.24		60.0	59.9		4.01	4.01		5.83	5.77		8	
10/10/2011	9:27	Fine	Middle	3.0	26.80	26.80	26.85	8.27	8.27	8.27	34.19	34.19	34.19	97.2	95.2	95.9	6.41	6.27	6.32	7.09	7.01	7.05	10	11.00
	9:30		Middle	3.0	26.90	26.90		8.27	8.27		34.19	34.19		97.2	94.0		6.40	6.19		7.24	6.84		12	
12/10/2011	12:28	Rainy	Middle	2.5	25.80	25.80	25.75	8.27	8.27	8.28	33.88	33.88	33.88	93.6	92.3	93.1	6.29	6.21	6.26	6.66	6.65	6.65	8	7.00
	12:31		Middle	2.5	25.70	25.70		8.28	8.28		33.88	33.88		94.0	92.4		6.32	6.22		6.70	6.57		6	<u></u>
14/10/2011	14:19	Cloudy	Middle	2.0	26.90	26.90	26.95	8.25	8.25	8.25	33.53	33.53	33.53	89.4	88.6	89.1	5.90	5.84	5.88	5.69	5.29	5.32	8	9.00
	14:21		Middle	2.0	27.00	27.00		8.24	8.24		33.53	33.53		89.8	88.6		5.92	5.84		5.19	5.10		10	
17/10/2011	23:15	Cloudy	Middle	2.5	26.00	26.00	26.00	8.17	8.17	8.17	33.50	33.50	33.50	94.6	93.0	94.5	6.58	6.32	6.48	4.24	4.02	4.13	8	8.50
	23:16		Middle	2.5	26.00	26.00		8.17	8.17		33.50	33.50		95.2	95.0		6.51	6.49		4.03	4.24		9	<u> </u>
20/10/2011	1:40	Cloudy	Middle	2.5	25.23	25.23	25.25	8.10	8.10	8.10	32.28	32.28	32.28	71.7	71.7	71.7	4.90	4.90	4.90	4.79	4.56	4.61	7	7.00
	1:41		Middle	2.5	25.27	25.27		8.10	8.10		32.28	32.28		71.6	71.6		4.89	4.89		4.46	4.63		7	<u> </u>
22/10/2011	7:42	Cloudy	Middle	2.0	25.70	25.70	25.70	8.06	8.06	8.06	33.54	33.54	33.55	91.9	91.0	91.7	6.21	6.15	6.19	2.99	2.95	2.88	12	9.50
	7:45		Middle	2.0	25.70	25.70		8.06	8.06		33.55	33.55		92.3	91.4		6.24	6.17		2.65	2.92		7	<u> </u>
24/10/2011	19:55 19:56	Misty	Middle	2.0	26.36	26.36	26.36	7.97	7.97	7.98	32.03	32.03	32.04	90.4	90.3	90.3	6.08	6.08	6.08	3.98	3.40	3.57	5	6.00
				2.0	26.35	26.35		7.99 8.04	7.99		32.04 33.55	32.04		90.3	90.3 96.0		6.08	6.08		3.34	3.56		-	
26/10/2011	9:08 9:10	Cloudy	Middle	3.0	25.40	25.40	25.40	8.04	8.04 8.05	8.05		33.55	33.56	97.6 97.1		96.6	6.61	6.51 6.49	6.55	4.73	4.29	4.44	6	6.00
<u> </u>	9:10		Middle	3.0	25.40	25.40		8.05	8.05		33.56	33.56		97.1	95.7		6.58	6.49		4.46	4.27		6	



Water Monitoring Result at WSD15 - Sai Wan Ho Mid-Ebb Tide

Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp	perature		pН			Salini ppt	y	D	O Satur %	ation		DO ma/L			Turbid NTU	ity	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	g/∟ Average
/- /	10:25		Middle	3	28.00	28.00		8.28	8.28		33.73	33.73		89.9	87.0		5.83	5.64		6.22	5.76		6	
28/9/2011	10:28	Fine	Middle	3	28.10	28.10	28.05	8.28	8.28	8.28	33.72	33.72	33.73	90.7	88.0	88.9	5.88	5.70	5.76	6.30	6.05	6.08	7	6.50
30/9/2011	14:54	Cloudy	Middle	3	27.80	27.80	27.80	8.26	8.26	8.26	33.56	33.56	33.57	87.7	86.4	87.7	5.71	5.63	5.70	14.10	13.70	<u>13.23</u>	10	11.00
00/0/2011	14:57	oloudy	Middle	3	27.80	27.80	21.00	8.26	8.26	0.20	33.57	33.57	00.07	89.5	87.2	07.1	5.76	5.68	0.70	12.40	12.70	10.20	12	11.00
3/10/2011	6:30	Cloudy	Middle	3	25.72	25.72	25.72	8.14	8.14	8.14	32.71	32.71	32.71	64.6	64.6	64.6	4.38	4.38	4.38	5.23	5.19	5.46	5	4.50
	6:31		Middle	3	25.71	25.71		8.14	8.14		32.71	32.71		64.6	64.6		4.38	4.38		5.36	6.05		4	
6/10/2011	8:30	Cloudy	Middle	3	25.80	25.80	25.81	7.94	7.94	7.94	33.04	33.04	33.04	64.7	64.7	64.7	4.37	4.37	4.37	4.33	4.46	4.28	6	6.00
	8:31		Middle	3	25.82	25.82		7.93	7.93		33.03	33.03		64.7	64.7		4.37	4.37		4.11	4.21		6	<u> </u>
8/10/2011	0:23	cloudy	Middle	3	25.72	25.71	25.73	7.77	7.77	7.77	33.17	33.17	33.17	55.9	55.9	56.2	3.78	3.78	3.80	3.26	3.23	3.22	5	4.50
	0:24		Middle	3	25.74	25.74		7.77	7.77		33.16	33.16		56.5	56.5		3.82	3.82		3.17	3.23		4	
10/10/2011	10:01	Fine	Middle	3	26.60	26.60	26.65	8.26	8.26	8.26	34.21	34.21	34.21	92.6	91.0	92.0	6.12	6.01	6.08	6.53	6.00	5.98	9	9.00
	10:04		Middle	3	26.70	26.70		8.26	8.26		34.21	34.21		93.2	91.1		6.15	6.02		5.34	6.06		9	<u> </u>
12/10/2011	12:56	Rainy	Middle	2	25.90	25.90	25.85	8.29	8.29	8.29	33.13	33.13	33.14	94.1	92.8	93.3	6.36	6.27	6.30	4.79	5.15	5.03	9	9.50
	12:59		Middle	2	25.80	25.80		8.29	8.29		33.15	33.15		94.4	91.8		6.38	6.20		5.06	5.13		10	<u> </u>
14/10/2011	11:38 11:41	Cloudy	Middle	3	26.20 26.30	26.20 26.30	26.25	8.25 8.25	8.25 8.25	8.25	33.33 33.34	33.33 33.34	33.34	92.4 92.7	90.1 90.6	91.5	6.18 6.21	6.03 6.07	6.12	6.72 6.47	5.93 5.48	6.15	10	10.00
	4:21		Middle	3	25.50	25.50		8.10	8.10		33.07	33.07		92.7 83.1	83.6		5.67	5.88		2.63	3.09		5	<u> </u>
17/10/2011	4:22	Cloudy	Middle	3	25.50	25.50	25.50	8.10	8.10	8.10	33.07	33.07	33.07	83.3	83.3	83.3	5.66	5.66	5.72	3.09	3.36	3.04	7	6.00
	6:00		Middle	3	24.65	24.65		8.26	8.26		33.22	33.22		67.6	67.4		4.66	4.64		4.03	3.90		6	<u> </u>
20/10/2011	6:01	Cloudy	Middle	3	24.64	24.64	24.65	8.25	8.25	8.26	33.22	33.22	33.22	67.2	67.2	67.4	4.61	4.62	4.63	3.75	3.76	3.86	5	5.50
	7:21		Middle	3	25.40	25.40		8.06	8.06		33.34	33.34		93.8	90.9		6.37	6.17		3.74	3.49		8	
22/10/2011	7:23	Cloudy	Middle	3	25.40	25.40	25.40	8.06	8.06	8.06	33.37	33.37	33.36	93.2	92.2	92.5	6.33	6.25	6.28	3.21	2.75	3.30	7	7.50
24/40/2214	23:32	Mi-+-	Middle	3	25.80	25.80	25.00	8.15	8.15	0.40	32.88	32.88	22.00	77.6	77.5	77.4	5.25	5.24	E 00	2.26	2.20	0.45	6	E 00
24/10/2011	23:33	Misty	Middle	3	25.86	25.86	25.83	8.09	8.09	8.12	32.84	32.84	32.86	77.3	77.1	77.4	5.23	5.21	5.23	2.06	2.07	2.15	4	5.00
26/10/2011	12:18	Cloudy	Middle	3	25.90	25.90	25.98	8.07	8.07	8.07	32.15	32.15	32.16	84.9	83.9	85.0	5.74	5.67	5 74	8.36	8.30	8.37	7	6.50
20/10/2011	12:20	Cloudy	Middle	3	26.10	26.00	20.90	8.07	8.07	8.07	32.16	32.16	32.16	86.1	85.0	05.0	5.82	5.74	5.74	8.46	8.36	0.31	6	0.00



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

Date	Time	Weater Condition	Samplin	* .	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/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	llue	Average		Average
00/0/0011	9:58	F ire e	Middle	3	28.10	28.10	00.40	8.18	8.18	0.40	33.09	33.09	00.00	81.9	80.2	04.4	5.32	5.21	5.00	8.77	8.53	0.75	14	44.00
28/9/2011	10:01	Fine	Middle	3	28.10	28.10	28.10	8.20	8.20	8.19	33.09	33.09	33.09	82.6	81.0	81.4	5.36	5.26	5.29	8.72	8.99	8.75	14	14.00
30/9/2011	13:18	Cloudy	Middle	2	27.80	27.80	27.80	8.23	8.23	8.23	33.20	33.20	33.27	82.4	82.0	82.1	5.38	5.36	5.37	8.62	8.23	8.46	10	9.00
30/3/2011	13:20	Cloudy	Middle	2	27.80	27.80	27.00	8.23	8.23	0.20	33.33	33.33	55.27	82.7	81.4	02.1	5.40	5.32	5.57	8.52	8.45	0.40	8	5.00
3/10/2011	6:12	Cloudy	Middle	3	25.65	25.65	25.64	8.04	8.04	8.04	31.62	31.62	31.62	61.7	61.7	61.7	4.22	4.22	4.22	8.70	8.41	8.53	7	6.50
	6:13		Middle	3	25.63	25.63		8.04	8.04		31.62	31.62		61.7	61.7		4.22	4.22		8.47	8.54		6	
6/10/2011	7:43	Cloudy	Middle	3	25.69	25.69	25.69	7.90	7.90	7.90	33.24	33.24	33.24	62.2	62.1	62.1	4.21	4.20	4.20	7.69	8.09	7.68	10	10.00
	7:44		Middle	3	25.69	25.69		7.90	7.90		33.24	33.24		62.0	62.0		4.20	4.19		7.44	7.50		10	
8/10/2011	0:09	cloudy	Middle	3	25.80	25.80	25.80	7.75	7.75	7.75	33.31	33.31	33.31	54.1	54.3	54.3	3.65	3.66	3.66	4.61	4.69	4.62	6	5.00
	0:10		Middle	3	25.79	25.79		7.75	7.75		33.31	33.31		54.4	54.4		3.67	3.67		4.51	4.66		4	<u> </u>
10/10/2011	10:27	Fine	Middle	3	26.40	26.40	26.45	8.23	8.23	8.23	33.94	33.94	33.95	81.7	80.6	81.4	5.43	5.36	5.41	7.09	6.20	6.40	11	11.50
	10:30		Middle	3	26.50	26.50		8.23	8.23		33.96	33.96		82.3	81.1		5.47	5.39		6.01	6.28		12	
12/10/2011	13:16	Rainy	Middle	2	25.80	25.80	25.75	8.26	8.26	8.26	32.40	32.40	32.41	88.6	87.8	88.3	6.02	5.96	6.00	4.91	4.83	4.95	6	6.00
	13:19		Middle	2	25.70	25.70		8.26	8.26		32.41	32.41		89.8	86.9		6.10	5.90		4.70	5.35		6	<u></u>
14/10/2011	11:12	Cloudy	Middle	3	26.20	26.20	26.25	8.23	8.23	8.23	33.29	33.29	33.31	91.6	89.9	91.0	6.13	6.02	6.09	8.75	9.03	<u>8.93</u>	11	11.50
	11:15		Middle	3	26.30	26.30		8.22	8.22		33.33	33.33		92.0	90.6		6.15	6.06		9.04	8.91		12	<u> </u>
17/10/2011	3:38 3:39	Cloudy	Middle	2	25.50	25.50	25.50	8.10	8.10	8.10	32.99	32.99	32.99	85.8	86.1	85.5	5.83	5.85	5.81	3.57	3.27	3.51	8	7.50
	5:39		Middle Middle	2	25.50 24.57	25.50 24.57		8.10 8.24	8.10 8.24		32.99 33.02	32.99 33.02		85.1 68.3	85.1 68.3		5.78 4.71	5.78 4.71		3.45 3.88	3.74 3.55		4	<u> </u>
20/10/2011	5:36	Cloudy	Middle	3	24.57	24.57	24.57	8.24	8.24	8.24	33.02	33.02	33.02	67.4	66.5	67.6	4.71	4.71	4.67	3.65	3.30	3.60	6	5.00
	6:55		Middle	3	25.50	25.50		7.95	7.95		32.95	32.95		82.9	79.3		5.64	5.39		5.52	4.09		5	<u> </u>
22/10/2011	6:57	Cloudy	Middle	3	25.50	25.50	25.50	7.95	7.95	7.95	32.95	32.95	32.95	82.6	81.8	81.7	5.63	5.56	5.56	4.10	4.06	4.44	6	5.50
	23:04		Middle	2	25.77	25.77		7.89	7.89		32.71	32.71		73.1	73.1		4.95	4.95		3.66	3.47		3	<u> </u>
24/10/2011	23:05	Misty	Middle	2	25.86	25.86	25.82	7.89	7.89	7.89	32.71	32.71	32.71	73.2	73.1	73.1	4.95	4.94	4.95	3.59	3.28	3.50	4	3.50
	12:38		Middle	3	25.70	25.70		8.07	8.07		33.38	33.38		85.6	83.7		5.78	5.66		6.52	6.28		10	<u>† </u>
26/10/2011	12:41	Cloudy	Middle	3	25.70	25.70	25.70	8.07	8.07	8.07	33.45	33.45	33.42	85.5	84.8	84.9	5.78	5.73	5.74	6.57	6.17	6.39	10	10.00



Water Monitoring Result at C9 - Provident Centre Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ration		DO mg/L			Turbid NTU	lity	Suspend	led Solids
		Oblightion	r	n	Va	lue	Average	Va	lue	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2011	14:03	Fine	Middle	2	28.20	28.20	28.15	8.18	8.18	8.19	33.38	33.38	33.39	80.1	79.8	80.4	5.18	5.16	5.20	10.10	10.00	10.10	13	14.50
28/9/2011	14:06	Fine	Middle	2	28.10	28.10	26.15	8.19	8.19	8.19	33.39	33.39	33.39	80.7	81.0	80.4	5.23	5.24	5.20	9.89	10.40	10.10	16	14.50
30/9/2011	12:15	Cloudy	Middle	2	27.70	27.70	27.75	8.27	8.27	8.27	33.58	33.58	33.58	81.5	82.6	82.3	5.31	5.39	5.37	12.80	12.60	12.73	12	13.00
30/9/2011	12:18	Cloudy	Middle	2	27.80	27.80	21.15	8.26	8.26	0.27	33.57	33.57	33.30	82.4	82.8	02.5	5.37	5.40	5.57	13.00	12.50	12.13	14	13.00
3/10/2011	5:37	Cloudy	Middle	2	26.04	26.04	26.04	8.05	8.05	8.05	32.62	32.62	32.62	62.7	62.7	62.8	4.23	4.24	4.24	6.50	6.33	6.55	8	7.00
0,10,2011	5:38	Cloudy	Middle	2	26.04	26.04	20.04	8.05	8.05	0.00	32.62	32.62	02.02	62.9	62.9	02.0	4.24	4.26	7.24	6.76	6.61	0.00	6	1.00
6/10/2011	7:17	Cloudy	Middle	2	25.79	25.79	25.79	7.87	7.87	7.88	32.97	32.97	32.97	57.3	57.5	57.5	3.88	3.88	3.89	8.31	8.24	7.98	10	- 10.00
0,10,2011	7:18	cicuaj	Middle	2	25.79	25.79	20.10	7.88	7.88	1.00	32.97	32.97	02.01	57.6	57.6	0110	3.90	3.90	0.00	7.85	7.53	1100	10	10100
8/10/2011	23:55	cloudy	Middle	2	25.98	25.98	25.98	7.75	7.75	7.75	33.06	33.06	33.06	56.0	56.1	56.1	3.78	3.78	3.78	4.75	4.95	4.90	8	8.00
	23:56	,	Middle	2	25.98	25.98		7.75	7.75		33.06	33.06		56.2	56.2		3.78	3.79		5.19	4.70		8	
10/10/2011	13:07	Fine	Middle	2	26.50	26.50	26.55	8.17	8.17	8.17	33.78	33.78	33.78	81.6	79.0	81.1	5.42	5.24	5.38	6.15	6.19	6.18	8	9.00
	13:10	-	Middle	2	26.60	26.60		8.17	8.17	-	33.78	33.78		82.5	81.3		5.47	5.39		6.20	6.17		10	
12/10/2011	12:15	Rainy	Middle	3	26.00	26.00	26.05	8.04	8.04	8.05	32.20	32.20	32.15	93.8	93.5	93.4	6.35	6.33	6.32	7.41	7.76	7.77	9	9.50
	12:18		Middle	3	26.10	26.10		8.05	8.05		32.10	32.10		93.3	93.0		6.31	6.30		7.85	8.07		10	
14/10/2011	11:05	Cloudy	Middle	2	26.10	26.10	26.15	7.80	7.80	7.82	32.30	32.30	32.25	89.4	89.0	88.9	6.03	6.00	6.00	8.37	7.76	8.17	6	7.00
	11:07		Middle	2	26.20	26.20		7.83	7.83		32.20	32.20		88.7	88.3		5.99	5.96		7.79	8.76		8	
17/10/2011	5:20	Cloudy	Middle	2	25.70	25.70	25.70	8.09	8.09	8.09	33.01	33.01	33.01	85.1	85.6	85.1	5.77	5.81	5.77	6.57	6.61	6.54	10	10.00
	5:21		Middle	2	25.70	25.70		8.09	8.09		33.01	33.01		84.7	84.9		5.74	5.75		6.41	6.57		10	<u> </u>
20/10/2011	5:10	Cloudy	Middle	2	25.06	25.06	25.06	8.24	8.24	8.24	33.03	33.03	33.03	66.6	66.5	66.5	4.56	4.65	4.58	4.07	4.08	4.12	5	5.00
	5:11		Middle	2	25.06	25.06		8.24	8.24		33.03	33.03		66.5	66.5		4.55	4.55		4.33	4.00		5	
22/10/2011	10:24	Cloudy	Middle	2	26.00	26.00	25.95	7.97	7.97	7.98	32.50	32.50	32.45	92.7	90.6	90.8	6.26	6.14	6.14	6.25	6.12	6.16	14	13.00
	10:27	-	Middle	2	25.90	25.90		7.98	7.98		32.40	32.40		90.2	89.5		6.09	6.07		6.52	5.74		12	
24/10/2011	22:48	Misty	Middle	2	26.11	26.11	26.15	7.98	7.98	7.98	32.62	32.63	32.63	72.8	72.6	72.5	4.90	4.88	4.88	5.19	4.52	4.80	7	6.50
	22:49	-	Middle	2	26.18	26.18		7.98	7.98		32.63	32.63		72.3	72.2		4.86	4.86		4.69	4.79		6	
26/10/2011	11:46	Cloudy	Middle	2	25.70	25.70	25.65	8.38	8.38	8.38	32.40	32.40	32.35	95.8	95.4	95.3	6.53	6.50	6.50	6.76	7.31	6.89	8	8.00
	11:49	-	Middle	2	25.60	25.60		8.37	8.37		32.30	32.30		95.2	94.9		6.49	6.47		6.93	6.57		8	

am Water Monitoring Result at C8 - City Garden Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	0 1	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		oonanon	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Value	Average
28/9/2011	13:40	Fine	Middle	2	28.30	28.30	28.25	8.09	8.09	8.10	32.69	32.69	32.70	70.4	70.8	71.4	4.57	4.61	4.63	12.40	12.50	<u>12.43</u>	14	12.50
	13:43		Middle	2	28.20	28.20	20.20	8.10	8.10	0.10	32.70	32.70	02.110	71.9	72.4		4.66	4.69		12.00	12.80		11	12100
30/9/2011	11:57	Cloudy	Middle	2	27.70	27.70	27.70	8.28	8.28	8.28	33.49	33.49	33.52	91.2	89.6	90.7	5.94	5.85	5.92	11.40	12.40	11.85	15	15.50
	12:00	-	Middle	2	27.70	27.70		8.27	8.27		33.50	33.58		92.1	90.0		6.01	5.87		11.50	12.10		16	
3/10/2011	5:13	Cloudy	Middle	2	25.92	25.92	25.92	7.98	7.98	7.98	32.09	32.09	32.09	58.7	58.7	58.7	3.98	3.98	3.98	8.83	9.09	8.81	9	8.50
	5:14		Middle	2	25.91	25.91		7.98	7.98		32.09	32.09		58.7	58.7		3.98	3.98		8.57	8.75		8	
6/10/2011	7:05	Cloudy	Middle	2	25.67	25.67	25.67	7.85	7.85	7.86	32.90	32.90	32.90	58.0	58.0	57.9	3.93	3.93	3.92	5.91	6.38	6.19	8	7.50
	7:06		Middle	2	25.67	25.67		7.86	7.86		32.90	32.90	1	57.9	57.6		3.92	3.90		6.56	5.89		7	<u> </u>
8/10/2011	23:42	cloudy	Middle	2	25.93	25.93	25.80	7.68	7.68	7.68	32.80	32.80	32.80	52.4	52.5	52.7	3.53	3.54	3.56	5.93	5.90	5.66	7	6.50
	23:43		Middle	2	25.40	25.94		7.68	7.68		32.80	32.80		52.8	52.9		3.58	3.57		5.55	5.25		6	<u> </u>
10/10/2011	12:50	Fine	Middle	2	26.70	26.70	26.80	8.02	8.02	8.02	32.87	32.87	32.87	73.5	72.3	73.6	4.88	4.80	4.88	9.35	9.88	<u>9.54</u>	12	13.00
	12:52		Middle	2	26.90	26.90		8.02	8.02		32.87	32.87		75.0	73.6		4.97	4.88		9.58	9.33		14	<u> </u>
12/10/2011	12:20	Rainy	Middle	2	26.10	26.10	26.15	8.06	8.06	8.06	31.00	31.00	31.05	87.7	87.6	87.4	5.96	5.95	5.94	9.40	9.10	<u>9.51</u>	11	11.50
	12:23		Middle	2	26.20	26.20		8.05	8.05		31.10	31.10		87.3	86.9		5.94	5.91		9.72	9.81		12	<u> </u>
14/10/2011	11:13 11:15	Cloudy	Middle	2	26.30 26.20	26.30 26.20	26.25	7.97 7.96	7.97 7.96	7.97	31.90 31.90	31.90 31.90	31.90	88.3 86.8	87.5 86.0	87.2	5.94 5.84	5.90 5.79	5.87	8.44 8.91	8.32 8.07	8.44	9	9.50
	5:05		Middle	2	25.80	25.80		8.07	8.07		32.98	32.98		83.3	83.0		5.63	5.61		5.54	5.97		7	
17/10/2011	5:06	Cloudy	Middle	2	25.80	25.80	25.80	8.07	8.07	8.07	32.98	32.98	32.98	83.0	83.0	83.1	5.61	5.61	5.62	5.25	5.72	5.62	6	6.50
	4:44		Middle	2	24.94	24.94		8.22	8.22		32.75	32.75		61.1	61.1		4.19	4.19		3.99	4.46		6	+
20/10/2011	4:45	Cloudy	Middle	2	24.94	24.94	24.94	8.21	8.21	8.22	32.75	32.75	32.75	61.1	61.1	61.1	4.19	4.19	4.19	4.10	4.21	4.19	7	6.50
	10:30		Middle	2	26.00	26.00		7.99	7.99		32.50	32.50		88.1	86.3		5.96	5.85		6.51	6.20		11	+
22/10/2011	10:33	Cloudy	Middle	2	25.90	25.90	25.95	8.00	8.00	8.00	32.40	32.40	32.45	85.3	84.7	86.1	5.77	5.75	5.83	6.03	5.96	6.18	10	10.50
	22:30		Middle	2	26.15	26.15		7.90	7.90		32.39	32.39		71.2	71.5		4.80	4.83		5.68	5.06		6	
24/10/2011	22:31	Misty	Middle	2	26.15	26.15	26.15	7.90	7.90	7.90	32.39	32.39	32.39	71.7	71.8	71.6	4.83	7.84	5.58	5.09	5.09	5.23	5	5.50
00/10/001/	11:40		Middle	2	25.80	25.80	05.75	8.34	8.34	0.05	32.40	32.40		94.0	92.2		6.40	6.28		8.36	8.44		9	
26/10/2011	11:43	Cloudy	Middle	2	25.70	25.70	25.75	8.35	8.35	8.35	32.30	32.30	32.35	92.0	91.7	92.5	6.27	6.26	6.30	8.13	8.72	8.41	11	10.00



Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini	ty	C	O Satur	ation		DO mg/L			Turbic NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt alue	Average	Va	alue	Average	Va		Average	Va	alue	Average	Value	g/∟ Average
28/9/2011	13:18	Fine	Middle	2	28.80	28.80	28.85	8.12	8.12	8.13	33.04	33.04	33.03	62.0	62.6	63.0	3.98	4.02	4.05	3.17	3.13	3.21	5	7.00
20/0/2011	13:21	1 110	Middle	2	28.90	28.90	20.00	8.13	8.13	0.10	33.02	33.02	00.00	63.4	63.9	00.0	4.07	4.11	4.00	3.11	3.41	0.21	9	1.00
30/9/2011	16:30	Cloudy	Middle	2	28.00	28.00	27.95	8.13	8.13	8.13	32.86	32.86	32.87	63.8	61.6	63.3	4.17	4.02	4.13	3.93	3.89	4.05	7	6.00
	16:33		Middle	2	27.90	27.90		8.13	8.13		32.87	32.87		64.9	62.7		4.24	4.10		4.26	4.13		5	
3/10/2011	4:35	Cloudy	Middle	2	26.18	26.18	21.17	8.00	8.00	8.00	32.40	32.40	32.41	58.0	58.0	58.0	3.97	3.97	3.97	8.78	8.70	8.89	14	11.00
	4:36	-	Middle	2	16.16	16.16		8.00	8.00		32.41	32.41		57.9	57.9		3.97	3.97		9.10	8.97	-	8	
6/10/2011	6:43	Cloudy	Middle	2	25.85	25.85	25.85	7.82	7.82	7.82	32.91	32.91	32.91	51.5	51.1	50.9	3.48	3.46	3.44	2.02	2.05	2.10	6	5.00
	6:44		Middle	2	25.84	25.84		7.82	7.82		32.91	32.91		50.5	50.5		3.41	3.41		2.01	2.32		4	
8/10/2011	23:25	cloudy	Middle	2	26.38	26.38	26.38	7.57	7.57	7.58	32.76	32.76	32.76	46.9	46.9	46.9	3.14	3.14	<u>3.14</u>	10.80	11.20	<u>11.08</u>	7	6.50
	23:26		Middle	2	26.38	26.38		7.58	7.58		32.76	32.76		46.8	46.8		3.14	3.14		11.70	10.60		6	<u></u>
10/10/2011	12:30	Fine	Middle	2	27.30	27.30	27.35	8.08	8.08	8.08	33.62	33.62	33.62	61.2	60.5	61.3	4.01	3.97	4.02	4.72	4.81	4.88	13	13.00
	12:32		Middle	2	27.40	27.40		8.08	8.08		33.61	33.61		62.5	60.8		4.10	3.99		4.95	5.05		13	<u> </u>
12/10/2011	12:05	Rainy	Middle	2	26.00	26.00	26.05	7.93	7.93	7.94	31.90	31.90	31.95	77.2	76.6	76.3	5.22	5.19	5.16	6.02	5.88	6.06	9	13.50
	12:08		Middle	2	26.10	26.10		7.94	7.94		32.00	32.00		76.1	75.2		5.14	5.10		6.42	5.92		18	<u> </u>
14/10/2011	11:28	Cloudy	Middle	2	26.60	26.60	26.55	7.89	7.89	7.89	31.80	31.80	31.80	78.5	78.2	78.0	5.26	5.24	5.23	8.84	9.75	<u>9.11</u>	14	15.00
	11:30		Middle	2	26.50	26.50		7.89	7.89		31.80	31.80		77.8	77.5		5.22	5.18		9.25	8.59		16	<u> </u>
17/10/2011	5:35 5:36	Cloudy	Middle	2	25.80	25.80 25.80	25.80	7.99 7.99	7.99 7.99	7.99	32.57 32.57	32.57 32.57	32.57	73.7	73.0 73.6	73.5	5.00	4.95 4.99	4.98	4.60 4.72	4.54 4.30	4.54	6	5.00
	6:45		Middle	2	25.80 24.95	25.80		8.10	8.10		32.57	32.57		73.6 64.3	64.0		4.99 4.49	4.99		5.44	6.00		4	
20/10/2011	6:46	Cloudy	Middle	2	24.95	24.95	24.95	8.10	8.10	8.10	32.70	32.70	32.70	63.7	63.7	63.9	4.49	4.40	4.41	5.67	5.53	5.66	12	8.00
	10:12		Middle	2	26.40	26.40		7.88	7.88		31.80	31.80		69.4	69.2		4.68	4.66		7.94	7.40		8	+
22/10/2011	10:15	Cloudy	Middle	2	26.30	26.30	26.35	7.87	7.87	7.88	31.70	31.70	31.75	69.0	68.9	69.1	4.65	4.64	4.66	8.03	7.73	7.78	30	<u>19.00</u>
	22:15		Middle	2	26.18	26.18		7.78	7.78		32.30	32.30		63.0	63.0		4.24	4.24		4.73	5.13	<u> </u>	15	+
24/10/2011	22:16	Misty	Middle	2	26.22	26.22	26.20	7.77	7.77	7.78	32.28	32.28	32.29	62.5	62.4	62.7	4.21	4.20	4.22	4.38	4.28	4.63	17	<u>16.00</u>
	11:26		Middle	2	26.10	26.10		8.24	8.24		32.10	32.10		80.9	80.7		5.50	5.49		7.20	7.30		6	
26/10/2011	11:29	Cloudy	Middle	2	26.00	26.00	26.05	8.23	8.23	8.24	32.20	32.20	32.15	78.5	78.2	79.6	5.33	5.32	5.41	7.91	8.09	7.63	4	5.00

am	
am	Water Monitoring Result at C1 - HKCEC

Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wate	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur %	ration		DO mg/L			Turbid NTU	ity	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/9/2011	10:32	Fine	Middle	1.5	28.30	28.30	28.35	7.94	7.94	7.94	32.50	32.50	32.50	88.2	87.3	86.9	5.65	5.58	5.56	6.72	6.09	6.39	6	6.00
20/3/2011	10:35	Tine	Middle	1.5	28.40	28.40	20.00	7.94	7.94	7.34	32.50	32.50	02.00	86.3	85.6	00.0	5.54	5.48	0.00	6.52	6.21	0.00	6	0.00
30/9/2011	14:05	Cloudy	Middle	2.0	28.20	28.20	28.25	7.95	7.95	7.96	32.50	32.50	32.45	92.9	92.6	92.5	6.02	6.01	6.00	8.17	8.58	8.65	10	- 11.00
00/0/2011	14:08	Cloudy	Middle	2.0	28.30	28.30	20.20	7.96	7.96	1.00	32.40	32.40	02.40	92.5	92.1	02.0	5.99	5.96	0.00	9.03	8.81	0.00	12	11.00
3/10/2011	3:10	Cloudy	Middle	2.0	26.40	26.40	26.40	8.03	8.03	8.03	32.50	32.50	32.50	62.5	62.4	62.4	4.19	4.18	4.18	3.07	3.17	3.10	3	4.00
	3:11		Middle	2.0	26.40	26.40		8.03	8.03		32.50	32.50		62.4	62.4		4.18	4.18		2.99	3.17		5	
6/10/2011	9:30	Cloudy	Middle	2.0	26.40	26.40	26.35	7.85	7.85	7.85	32.60	32.60	32.55	88.3	87.9	87.8	5.93	5.91	5.90	6.55	6.59	6.53	9	8.00
	9:33	-	Middle	2.0	26.30	26.30		7.84	7.84		32.50	32.50		87.6	87.4		5.88	5.86		6.53	6.44		7	
8/10/2011	21:23	cloudy	Middle	2.0	25.80	25.80	25.80	7.96	7.96	7.96	32.90	33.00	32.93	84.6	84.4	84.4	5.74	5.72	5.72	3.29	3.37	3.45	6	5.00
	21:24	-	Middle	2.0	25.80	25.80		7.96	7.96		32.90	32.90		84.2	84.2		5.71	5.71		3.78	3.37		4	
10/10/2011	11:15	Fine	Middle	2.0	26.80	26.80	26.85	7.98	7.98	7.99	33.00	33.00	33.10	89.8	88.8	88.7	5.95	5.92	5.90	5.10	5.24	5.22	10	11.00
	11:18		Middle	2.0	26.90	26.90		7.99	7.99		33.20	33.20		88.5	87.6		5.88	5.84		5.40	5.14		12	
12/10/2011	11:35	Rainy	Middle	2.5	26.60	26.00	26.50	7.96	7.96	7.97	32.40	32.40	32.35	92.7	92.2	92.1	6.22	6.20	6.19	4.75	4.41	4.59	6	5.00
	11:38	-	Middle	2.5	26.70	26.70		7.97	7.97		32.30	32.30		91.9	91.6		6.17	6.16		4.72	4.48		4	
14/10/2011	11:58	Cloudy	Middle	2.0	26.70	26.70	26.70	7.90	7.90	7.91	32.30	32.30	32.30	90.8	89.8	89.7	6.06	5.99	5.99	5.83	5.08	5.31	8	8.00
	12:00		Middle	2.0	26.70	26.70		7.91	7.91		32.30	32.30		89.3	89.0		5.96	5.93		5.17	5.15		8	
17/10/2011	1:41	Cloudy	Middle	1.5	25.60	25.60	25.60	8.09	8.09	8.09	32.99	32.99	32.99	94.0	94.1	94.8	6.41	6.41	6.43	2.31	1.48	1.86	3	3.00
	1:42		Middle	1.5	25.60	25.60		8.09	8.09		32.99	32.99		95.4	95.5		6.46	6.45		1.76	1.88		3	
20/10/2011	3:31	Cloudy	Middle	2.0	25.00	25.00	25.00	8.20	8.20	8.20	33.10	33.10	33.10	64.2	64.1	64.1	4.40	4.40	4.39	2.36	2.49	2.43	3	3.50
	3:32		Middle	2.0	25.00	25.00		8.20	8.20		33.10	33.10		64.0	64.0		4.38	4.38		2.49	2.38		4	
22/10/2011	9:45	Cloudy	Middle	2.0	26.40	26.40	26.45	7.92	7.92	7.92	32.60	32.60	32.55	94.8	94.1	94.2	6.40	6.33	6.34	5.54	6.04	5.05	8	8.00
	9:48		Middle	2.0	26.50	26.50		7.91	7.91		32.50	32.50		94.0	93.7		6.32	6.30		4.64	3.98		8	
24/10/2011	20:03	Misty	Middle	1.5	25.90	25.90	26.00	8.06	8.06	8.07	32.60	32.60	32.55	94.0	92.2	91.7	6.38	6.23	6.21	5.43	4.37	4.71	8	7.50
	20:05		Middle	1.5	26.10	26.10		8.07	8.07		32.50	32.50		90.5	90.2		6.14	6.10		4.78	4.25		7	<u> </u>
26/10/2011	10:52	Cloudy	Middle	2.0	26.00	26.00	25.95	8.32	8.32	8.32	32.50	32.50	32.55	92.0	91.9	91.5	6.27	6.25	6.24	8.37	7.25	7.24	7	8.00
	10:55		Middle	2.0	25.90	25.90		8.31	8.31		32.60	32.60		91.2	91.0		6.23	6.20		6.15	7.18		9	

am Water Monitoring Result at C2 - TH / APA / SOC

Mid-Ebb Tide

Date	Time	Weater	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid NTU			ed Solids
		Condition	r	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	llue %	Average	Va	mg/L lue	Average	Va	alue	Average	mg Value	g/L Average
00/0/0014	10:13	i	Middle	1.5	27.90	27.90	07.05	7.60	7.60	7.04	32.50	32.50	00.45	85.5	84.3		5.51	5.46	5.40	3.38	3.20	0.47	4	0.50
28/9/2011	10:16	Fine	Middle	1.5	28.00	28.00	27.95	7.62	7.62	7.61	32.40	32.40	32.45	83.5	82.3	83.9	5.39	5.32	5.42	3.12	2.96	3.17	3	3.50
30/9/2011	13:50	Cloudy	Middle	1.5	28.00	28.00	27.95	7.81	7.81	7.82	32.50	32.50	32.45	91.2	90.5	90.3	5.91	5.89	5.87	6.32	6.57	6.41	8	8.00
30/3/2011	13:53	Cloudy	Middle	1.5	27.90	27.90	21.33	7.82	7.82	7.02	32.40	32.40	52.45	90.0	89.6	30.3	5.84	5.83	5.67	6.33	6.41	0.41	8	0.00
3/10/2011	4:55	Cloudy	Middle	2.0	26.10	26.10	26.10	8.00	8.00	8.00	32.50	32.50	32.50	57.9	57.8	57.8	3.90	3.90	3.90	1.94	2.07	2.05	2	2.50
	4:56	,	Middle	2.0	26.10	26.10		8.00	8.00		32.50	32.50		57.8	57.8		3.89	3.89		2.21	1.97		3	
6/10/2011	9:15	Cloudy	Middle	1.5	26.20	26.20	26.15	7.32	7.32	7.32	32.70	32.70	32.65	88.8	87.7	87.7	5.98	5.91	5.90	6.72	6.69	7.00	12	11.50
	9:18	eleady	Middle	1.5	26.10	26.10	20.10	7.31	7.31		32.60	32.60	02.00	87.3	86.8	0.11	5.86	5.84	0.00	6.92	7.65		11	
8/10/2011	23:35	cloudy	Middle	1.5	25.90	25.90	25.90	7.99	7.99	7.99	33.00	33.00	33.00	84.1	84.2	84.0	5.70	5.69	5.69	4.00	3.44	3.55	8	6.00
	23:36	-	Middle	1.5	25.90	25.90		7.99	7.99		33.00	33.00		84.0	83.8		5.69	5.67		3.11	3.65		4	
10/10/2011	11:05	Fine	Middle	1.5	26.30	26.30	26.25	7.93	7.93	7.93	33.00	33.00	33.05	87.9	87.2	87.2	5.88	5.86	5.84	5.23	4.48	5.01	8	8.50
	11:08		Middle	1.5	26.20	26.20		7.92	7.92		33.10	33.10		87.0	86.5		5.83	5.80		5.08	5.23		9	
12/10/2011	10:20	Rainy	Middle	1.5	26.00	26.00	26.05	7.94	7.94	7.94	30.60	30.60	30.65	98.8	98.6	98.5	6.75	6.74	6.74	4.84	4.00	4.73	5	5.00
	10:23	,	Middle	1.5	26.10	26.10		7.93	7.93		30.70	30.70		98.4	98.3		6.73	6.72		5.02	5.06		5	
14/10/2011	12:55	Cloudy	Middle	1.5	26.90	26.90	26.95	7.90	7.90	7.91	32.30	32.30	32.30	84.4	84.0	83.9	5.59	5.58	5.56	4.49	4.42	4.49	6	6.00
	12:57		Middle	1.5	27.00	27.00		7.91	7.91		32.30	32.30		83.7	83.4		5.54	5.52		4.94	4.11		6	
17/10/2011	2:54	Cloudy	Middle	1.5	25.60	25.60	25.60	8.03	8.03	8.03	33.08	33.08	33.08	79.5	79.5	79.8	5.38	5.38	5.40	3.39	3.16	3.20	8	8.50
	2:55		Middle	1.5	25.60	25.60		8.03	8.03		33.08	33.08		80.1	80.0		5.42	5.41		3.33	2.91		9	
20/10/2011	3:53	Cloudy	Middle	2.0	25.20	25.20	25.20	8.18	8.18	8.17	33.00	33.00	33.05	62.9	62.3	62.3	4.29	4.26	4.25	1.86	1.94	1.85	4	3.50
	3:54		Middle	2.0	25.20	25.20		8.15	8.15		33.10	33.10		61.9	61.9		4.23	4.23		1.82	1.77		3	
22/10/2011	8:25	Cloudy	Middle	1.5	26.00	26.00	26.05	7.93	7.93	7.93	32.60	32.60	32.55	70.9	70.8	70.6	4.80	4.79	4.78	3.41	3.81	3.50	7	7.50
	8:28		Middle	1.5	26.10	26.10		7.92	7.92		32.50	32.50		70.6	70.2		4.77	4.75		3.18	3.58		8	
24/10/2011	19:50	Misty	Middle	1.0	26.20	26.20	26.25	8.06	8.06	8.06	32.50	32.50	32.50	90.0	89.6	89.2	6.07	6.02	6.01	3.24	2.80	3.08	6	5.50
	19:52		Middle	1.0	26.30	26.30		8.06	8.06		32.50	32.50		88.6	88.4		5.98	5.96		3.16	3.12		5	
26/10/2011	9:50	Cloudy	Middle	1.5	25.70	25.70	25.65	8.19	8.19	8.20	32.50	32.50	32.45	85.1	83.6	83.7	5.85	5.72	5.74	3.27	2.94	3.42	5	4.50
	9:53		Middle	1.5	25.60	25.60		8.20	8.20		32.40	32.40		83.2	82.9		5.71	5.69		4.11	3.36		4	



Water Monitoring Result at C3 - HKCEC Phase I Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	* '	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satu	ration		DO ma/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average		Average
20/0/2014	11:55	Fine	Middle	3.0	28.10	28.10	20.45	7.97	7.97	7.07	32.50	32.50	22.45	80.8	80.2	70.5	5.23	5.16	E 40	3.89	3.33	2.42	3	4.00
28/9/2011	11:58	Fine	Middle	3.0	28.20	28.20	28.15	7.96	7.96	7.97	32.40	32.40	32.45	79.1	78.0	79.5	5.12	5.02	5.13	3.17	3.27	3.42	5	4.00
30/9/2011	14:57	Cloudy	Middle	2.5	28.00	28.00	28.05	8.02	8.02	8.03	32.40	32.40	32.30	86.9	86.0	85.9	5.65	5.60	5.58	6.95	6.90	7.30	9	10.00
30/9/2011	15:00	Cloudy	Middle	2.5	28.10	28.10	26.05	8.03	8.03	8.03	32.20	32.20	32.30	85.5	85.0	65.9	5.55	5.51	5.56	7.59	7.74	7.30	11	10.00
3/10/2011	4:32	Cloudy	Middle	2.0	26.10	26.10	26.10	7.92	7.92	7.92	32.10	32.10	32.10	62.9	62.9	63.1	4.25	4.25	4.26	2.25	2.20	2.24	<2	<2
0/10/2011	4:33	Cloudy	Middle	2.0	26.10	26.10	20.10	7.92	7.92	1.02	32.10	32.10	02.10	63.2	63.3	00.1	4.27	4.28	4.20	2.26	2.25	2.24	<2	~~
6/10/2011	10:40	Cloudy	Middle	2.5	26.10	26.10	26.05	7.77	7.77	7.78	32.70	32.70	32.65	76.7	76.2	76.2	5.17	5.15	5.14	3.67	3.85	3.97	5	5.00
0,10,2011	10:43	eleady	Middle	2.5	26.00	26.00	20.00	7.78	7.78		32.60	32.60	02.00	76.1	75.6	. 0.2	5.13	5.11	0.11	4.15	4.22	0.07	5	0.00
8/10/2011	23:15	cloudy	Middle	2.0	25.80	25.80	25.80	7.99	7.99	7.99	32.60	32.60	32.60	97.2	96.9	96.9	6.59	6.59	6.59	8.53	8.66	8.52	6	5.50
	23:16		Middle	2.0	25.80	25.80		7.99	7.99		32.60	32.60		96.8	96.8		6.58	6.58		8.46	8.44		5	
10/10/2011	12:25	Fine	Middle	2.5	26.50	26.50	26.45	7.99	7.99	8.00	32.80	32.80	32.85	81.2	80.8	80.6	5.43	5.41	5.39	9.47	9.14	<u>9.41</u>	13	13.50
	12:28		Middle	2.5	26.40	26.40		8.00	8.00		32.90	32.90		80.5	79.9		5.37	5.35		9.51	9.53		14	
12/10/2011	10:40	Rainy	Middle	2.5	26.00	26.00	26.05	7.98	7.98	7.99	28.50	28.50	28.55	82.8	82.2	81.9	5.74	5.66	5.65	5.52	5.17	5.34	7	7.00
	10:43	-	Middle	2.5	26.10	26.10		7.99	7.99		28.60	28.60		81.4	81.1		5.63	5.58		5.24	5.41		7	
14/10/2011	13:34	Cloudy	Middle	2.5	26.70	26.70	26.70	7.96	7.96	7.96	32.00	32.00	32.00	83.1	82.6	82.4	5.56	5.51	5.51	3.70	3.94	3.83	6	5.50
	13:36		Middle	2.5	26.70	26.70		7.96	7.96		32.00	32.00		82.3	81.7		5.50	5.46		4.20	3.48		5	
17/10/2011	2:43	Cloudy	Middle	2.0	25.50	25.50	25.45	8.00	8.00	7.99	32.07	32.07	32.07	88.9	89.3	89.0	6.07	6.10	6.08	1.91	1.43	1.54	<2	3.00
	2:44		Middle	2.0	25.40	25.40		7.98	7.98		32.07	32.07		88.8	88.8		6.07	6.07		1.39	1.44		3	<u> </u>
20/10/2011	5:32	Cloudy	Middle	2.0	24.80	24.80	24.80	8.22	8.22	8.22	32.60	32.60	32.60	61.3	61.2	61.2	4.23	4.22	4.22	1.72	2.08	1.70	2	2.00
	5:33		Middle	2.0	24.80	24.80		8.22	8.22		32.60	32.60		61.3	61.1		4.21	4.23		1.47	1.53		2	
22/10/2011	8:40	Cloudy	Middle	2.5	25.70	25.70	25.65	7.91	7.91	7.92	32.10	32.10	32.15	76.3	75.8	75.4	5.22	5.15	5.14	3.64	3.35	3.43	6	7.00
	8:43		Middle	2.5	25.60	25.60		7.92	7.92		32.20	32.20		75.0	74.5		5.12	5.08		3.26	3.48		8	<u> </u>
24/10/2011	20:54	Misty	Middle	1.5	26.40	26.40	26.45	8.06	8.06	8.06	32.20	32.20	32.20	87.1	86.2	85.7	5.88	5.80	5.76	3.89	3.84	3.79	4	5.00
	20:56		Middle	1.5	26.50	26.50		8.05	8.05		32.20	32.20		85.1	84.3		5.74	5.63		3.92	3.49		6	<u> </u>
26/10/2011	10:01	Cloudy	Middle	3.0	25.00	25.00	25.05	8.13	8.13	8.13	30.60	30.60	30.65	72.2	71.6	71.2	5.05	4.99	4.97	3.81	5.12	4.48	3	4.00
	10:04		Middle	3.0	25.10	25.10		8.12	8.12		30.70	30.70		70.8	70.2		4.96	4.89		4.28	4.70		5	



Water Monitoring Result at C4e - WCT / GEC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini	ty	C	O Satur %	ation		DO ma/L			Turbid NTL		Suspend	
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt ilue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average		average
20/0/2011	11:46	Fine	Middle	1.5	28.30	28.30	20.25	7.99	7.99	7.00	32.60	32.60	22.55	88.7	88.2	87.6	5.71	5.65	E (2)	3.62	3.67	0.74	7	C 00
28/9/2011	11:49	Fine	Middle	1.5	28.40	28.40	28.35	7.98	7.98	7.99	32.50	32.50	32.55	87.0	86.3	07.0	5.59	5.52	5.62	3.57	4.09	3.74	5	6.00
30/9/2011	14:46	Cloudy	Middle	1.5	28.20	28.20	28.15	8.00	8.00	8.01	32.30	32.30	32.35	89.0	88.1	88.0	5.77	5.72	5.71	5.15	5.30	5.31	7	6.00
30/9/2011	14:49	Cloudy	Middle	1.5	28.10	28.10	20.13	8.01	8.01	0.01	32.40	32.40	32.33	87.7	87.2	88.0	5.68	5.65	5.71	5.22	5.55	3.31	5	0.00
3/10/2011	4:23	Cloudy	Middle	1.5	25.90	25.90	25.90	7.96	7.96	7.96	32.40	32.40	32.40	57.2	57.2	57.3	3.88	3.88	3.89	3.33	2.98	3.07	4	3.50
	4:24		Middle	1.5	25.90	25.90		7.96	7.96		32.40	32.40		57.4	57.4		3.89	3.89		3.09	2.89		3	
6/10/2011	10:30	Cloudy	Middle	1.5	26.10	26.10	26.05	7.95	7.95	7.95	32.50	32.50	32.45	88.1	87.2	87.7	5.92	5.89	5.90	5.52	5.19	5.44	6	6.50
	10:33	,	Middle	1.5	26.00	26.00		7.94	7.94		32.40	32.40		88.0	87.3		5.90	5.88		5.70	5.33		7	
8/10/2011	22:51	cloudy	Middle	1.5	25.80	25.80	25.85	7.94	7.94	7.94	32.60	32.60	32.60	80.5	80.2	80.1	5.45	5.43	5.43	4.80	4.69	4.80	4	4.00
	22:52		Middle	1.5	25.90	25.90		7.94	7.94		32.60	32.60		80.0	79.8		5.43	5.40		4.93	4.77		4	
10/10/2011	12:15	Fine	Middle	1.5	26.70	26.70	26.75	7.98	7.98	7.99	32.80	32.80	32.85	84.9	84.3	84.2	5.64	5.61	5.60	5.03	5.30	5.01	6	5.00
	12:18		Middle	1.5	26.80	26.80		7.99	7.99		32.90	32.90		84.1	83.6		5.59	5.57		4.72	5.00		4	<u> </u>
12/10/2011	11:02	Rainy	Middle	1.5	26.10	26.10	26.15	8.00	8.00	8.01	27.10	27.10	27.15	77.3	76.9	76.7	6.27	6.22	6.22	4.27	4.07	4.41	6	5.50
	11:05		Middle	1.5	26.20	26.20		8.01	8.01		27.20	27.20		76.4	76.3		6.20	6.17		4.96	4.34		5	<u> </u>
14/10/2011	13:17	Cloudy	Middle	1.5	26.70	26.70	26.70	7.92	7.92	7.92	32.10	32.10	32.05	84.9	84.4	84.3	5.65	5.64	5.62	3.75	4.26	3.94	6	6.00
	13:20		Middle	1.5	26.70	26.70		7.91	7.91		32.00	32.00		84.2	83.6		5.60	5.58		4.03	3.71		6	<u> </u>
17/10/2011	2:30	Cloudy	Middle	1.5	25.60	25.60	25.60	7.97	7.97	7.97	32.28	32.28	32.28	74.5	74.9	74.7	5.07	5.10	5.08	1.01	0.94	0.94	3	3.50
	2:31		Middle	1.5	25.60	25.60		7.97	7.97		32.28	32.28		74.8	74.5		5.09	5.07		0.84	0.97		4	
20/10/2011	5:10	Cloudy	Middle	1.5	24.50	24.50	24.50	8.14	8.14	8.14	32.70	32.70	32.65	61.2	61.2	61.1	4.23	4.23	4.22	1.75	1.60	1.66	2	2.00
	5:11		Middle	1.5	24.50	24.50		8.14	8.14		32.60	32.60		61.0	61.1		4.21	4.22		1.63	1.64		<2	
22/10/2011	8:51	Cloudy	Middle	1.5	25.80	25.80	25.75	7.91	7.91	7.91	32.10	32.10	32.05	88.6	85.6	86.0	6.01	5.84	5.85	5.78	6.00	5.80	3	3.00
	8:54		Middle	1.5	25.70	25.70		7.90	7.90		32.00	32.00		85.3	84.5		5.79	5.77		5.62	5.79		3	<u> </u>
24/10/2011	20:44	Misty	Middle	1.0	26.50	26.50	26.45	8.04	8.04	8.05	32.40	32.40	32.40	85.2	84.6	84.5	5.73	5.71	5.69	4.36	3.90	4.12	4	4.00
	20:47		Middle Middle	1.0	26.40	26.40		8.05	8.05		32.40	32.40		84.2	83.8		5.67	5.66		4.14	4.06		4	
26/10/2011	10:13	Cloudy		1.5	25.40	25.40	25.35	8.32	8.32	8.32	32.40	32.40	32.35	92.3	92.1	91.8	6.36	6.31	6.30	3.83	3.17	3.43	3	3.50
	10:16		Middle	1.5	25.30	25.30		8.31	8.31		32.30	32.30		91.6	91.2		6.29	6.25		3.26	3.46		4	



Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ed Solids
		Condition	n	n	Va	ilue	Average	Va	- Ilue	Average	Va	ppt ilue	Average	Va	% ilue	Average	Va	lue	Average	Va		Average	Value	Average
28/9/2011	11:40	Fine	Middle	1.5	28.70	28.70	28.65	7.96	7.96	7.96	32.50	32.50	32.50	80.2	79.8	79.6	5.12	5.09	5.09	3.53	3.40	3.45	5	5.00
20/9/2011	11:43	Fille	Middle	1.5	28.60	28.60	20.00	7.95	7.95	7.90	32.50	32.50	32.30	79.3	79.1	79.0	5.08	5.05	5.09	3.48	3.39	5.45	5	5.00
30/9/2011	14:41	Cloudy	Middle	1.0	28.30	28.30	28.25	7.98	7.98	7.98	32.30	32.30	32.35	87.2	86.7	86.5	5.63	5.61	5.59	6.35	5.10	5.52	8	8.50
50/9/2011	14:44	Cloudy	Middle	1.0	28.20	28.20	20.23	7.97	7.97	7.90	32.40	32.40	32.33	86.4	85.7	80.5	5.58	5.55	5.55	5.34	5.30	3.32	9	0.50
3/10/2011	4:29	Cloudy	Middle	1.5	26.10	26.10	26.10	7.90	7.90	7.90	32.40	32.40	32.40	52.7	52.7	52.5	3.56	3.56	3.55	2.24	2.49	2.25	3	4.00
0/10/2011	4:30	Cloudy	Middle	1.5	26.10	26.10	20.10	7.90	7.90	1.00	32.40	32.40	02.40	52.3	52.3	02.0	3.53	3.53	0.00	2.21	2.06	2.20	5	4.00
6/10/2011	10:20	Cloudy	Middle	1.0	26.30	26.30	26.25	7.94	7.94	7.95	32.50	32.50	32.45	81.6	79.8	80.0	5.46	5.37	5.37	4.44	5.35	4.64	10	7.50
0,10,2011	10:23	eleady	Middle	1.0	26.20	26.20	20.20	7.95	7.95		32.40	32.40	02.10	79.6	78.8	0010	5.33	5.30	0.01	4.45	4.33		5	1.00
8/10/2011	23:00	cloudy	Middle	1.5	25.80	25.80	25.80	7.87	7.87	7.87	32.60	32.60	32.60	96.3	96.3	96.3	6.55	6.54	6.55	1.72	1.53	1.50	<2	<2
	23:01	,	Middle	1.5	25.80	25.80		7.87	7.87		32.60	32.60		96.3	96.3		6.55	6.55		1.35	1.41		<2	
10/10/2011	12:07	Fine	Middle	1.0	26.70	26.70	26.65	7.97	7.97	7.97	32.90	32.90	32.85	86.2	85.7	85.7	5.72	5.70	5.69	5.42	5.40	5.53	7	6.00
	12:10	-	Middle	1.0	26.60	26.60		7.96	7.96		32.80	32.80		85.5	85.3		5.68	5.67		5.53	5.77		5	
12/10/2011	10:53	Rainy	Middle	1.5	26.10	26.10	26.15	7.97	7.97	7.97	27.90	27.90	27.85	84.4	84.2	84.0	5.85	5.81	5.81	4.35	4.53	4.57	6	5.00
	10:56		Middle	1.5	26.20	26.20		7.96	7.96		27.80	27.80		83.8	83.5		5.81	5.75		4.37	5.01	-	4	
14/10/2011	13:05	Cloudy	Middle	1.5	26.90	26.90	26.90	7.86	7.86	7.88	32.00	32.00	32.00	77.4	76.8	76.8	5.14	5.12	5.11	5.45	5.73	5.53	10	10.00
	13:07		Middle	1.5	26.90	26.90		7.89	7.89		32.00	32.00		76.6	76.5		5.09	5.08		5.89	5.03		10	
17/10/2011	2:36	Cloudy	Middle	1.5	25.50	25.50	25.50	7.91	7.91	7.91	32.38	32.38	32.39	70.6	71.9	71.2	4.81	4.90	4.85	1.22	0.86	1.03	5	5.00
	2:37	-	Middle	1.5	25.50	25.50		7.91	7.91		32.40	32.40		70.5	71.7		4.81	4.89		1.00	1.03		5	
20/10/2011	5:23	Cloudy	Middle	1.5	24.90	24.90	24.90	8.08	8.08	8.07	32.80	32.80	32.80	59.2	59.1	58.6	4.06	4.05	4.02	1.00	0.86	1.00	<2	<2
	5:24		Middle	1.5	24.90	24.90		8.06	8.06		32.80	32.80		58.0	58.1		3.98	3.99		0.86	1.27		<2	
22/10/2011	8:45	Cloudy	Middle	1.5	25.90	25.90	25.85	7.79	7.79	7.80	32.20	32.20	32.15	69.5	67.6	67.2	4.69	4.61	4.56	1.86	1.29	1.58	11	12.00
	8:48		Middle	1.5	25.80	25.80		7.80	7.80		32.10	32.10		66.5	65.3		4.50	4.45		1.29	1.89		13	
24/10/2011	20:49	Misty	Middle	1.0	26.50	26.50	26.55	8.04	8.04	8.04	32.40	32.40	32.35	87.7	86.9	86.4	5.87	5.84	5.80	1.67	1.54	1.54	2	2.00
	20:50		Middle	1.0	26.60	26.60		8.03	8.03		32.30	32.30		85.8	85.2		5.78	5.72		1.65	1.28		<2	<u> </u>
26/10/2011	10:07	Cloudy	Middle	1.0	25.30	25.30	25.25	8.24	8.24	8.24	32.30	32.30	32.25	89.1	88.3	88.1	6.14	6.07	6.06	3.51	3.19	2.84	3	3.50
	10:10	-	Middle	1.0	25.20	25.20		8.23	8.23		32.20	32.20		87.7	87.2		6.04	5.99		2.33	2.32		4	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini ppt	ty	C	O Satur %	ation		DO ma/L			Turbid NTU		Suspende	ed Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va		Average	Va	alue	Average	Va		Average	Va	lue	Average	, in the second s	g/∟ Average
00/0/0011	11:27	-	Middle	1.5	29.20	29.20	00.05	8.02	8.02		32.20	32.20		80.4	78.5	70.5	5.12	4.98	1.00	4.86	4.10	4.00	4	
28/9/2011	11:30	Fine	Middle	1.5	29.30	29.30	29.25	8.01	8.01	8.02	32.20	32.20	32.20	77.8	77.1	78.5	4.92	4.89	4.98	4.93	4.84	4.68	4	4.00
30/9/2011	14:26	Cloudy	Middle	1.0	28.50	28.50	28.45	7.99	7.99	7.99	31.80	31.80	31.75	87.8	87.4	87.3	5.67	5.65	5.64	5.15	4.72	4.74	6	7.00
30/9/2011	14:29	Cloudy	Middle	1.0	28.40	28.40	20.43	7.98	7.98	1.55	31.70	31.70	31.75	87.2	86.7	07.5	5.63	5.60	5.04	4.39	4.71	4.74	8	7.00
3/10/2011	3:45	Cloudy	Middle	1.5	25.60	25.60	25.60	8.00	8.00	8.00	32.30	32.30	32.30	61.2	61.2	61.2	4.17	4.17	4.17	3.25	3.27	3.15	4	4.00
0,10,2011	3:46	cicady	Middle	1.5	25.60	25.60	20.00	8.00	8.00	0.00	32.30	32.30	02.00	61.2	61.2	0.112	4.17	4.17		3.10	2.99	0.10	4	
6/10/2011	10:07	Cloudy	Middle	1.0	27.20	27.20	27.25	7.93	7.93	7.93	31.00	31.00	31.05	81.2	79.0	78.5	5.38	5.26	5.21	3.18	3.05	3.08	4	3.50
	10:10		Middle	1.0	27.30	27.30		7.92	7.92		31.10	31.10		77.9	76.0		5.14	5.07		2.86	3.23		3	
8/10/2011	22:14	cloudy	Middle	1.5	25.80	25.80	25.80	7.96	7.96	7.96	32.80	32.80	32.80	85.6	85.3	85.2	5.79	5.78	5.77	3.91	4.52	4.11	3	3.50
	22:15		Middle	1.5	25.80	25.80		7.96	7.96		32.80	32.80		85.1	84.7		5.77	5.75		4.07	3.94		4	
10/10/2011	11:40	Fine	Middle	1.0	26.90	26.90	26.95	7.90	7.90	7.91	31.30	31.30	31.25	82.1	81.3	81.1	5.49	5.43	5.43	3.29	2.97	3.00	5	4.50
	11:43		Middle	1.0	27.00	27.00		7.91	7.91		31.20	31.20		80.9	80.2		5.41	5.37		2.84	2.91		4	
12/10/2011	11:25	Rainy	Middle	1.0	29.20	29.20	29.15	7.70	7.70	7.71	29.00	29.00	29.05	88.3	87.4	87.1	5.99	5.91	5.90	7.68	7.67	7.68	10	10.00
	11:28		Middle	1.0	29.10	29.10		7.71	7.71		29.10	29.10		86.5	86.1		5.87	5.82		7.61	7.75		10	
14/10/2011	12:32	Cloudy	Middle	1.0	26.90	26.90	26.90	7.91	7.91	7.91	32.00	32.00	32.00	77.0	76.5	76.5	5.12	5.10	5.09	3.14	2.89	2.98	5	5.00
	12:34		Middle	1.0	26.90	26.90		7.91	7.91		32.00	32.00		76.4	76.0		5.08	5.07		3.01	2.87		5	
17/10/2011	2:11	Cloudy	Middle	1.5	25.40	25.40	25.40	8.05	8.05	8.05	32.23	32.23	32.23	83.2	83.1	83.1	5.69	5.68	5.68	1.54	1.49	1.49	3	3.50
	2:12		Middle	1.5	25.40	25.40		8.05	8.05		32.23	32.23		82.7	83.2		5.65	5.69		1.28	1.65		4	<u> </u>
20/10/2011	4:33	Cloudy	Middle	1.5	24.70	24.70	24.70	8.06	8.06	8.06	33.10	33.10	33.10	61.4	61.4	61.8	4.21	4.21	4.26	3.57	3.29	3.48	5	5.50
	4:34		Middle	1.5	24.70	24.70		8.06	8.06		33.10	33.10		62.2	62.3		4.30	4.31		3.84	3.22		6	<u> </u>
22/10/2011	9:25	Cloudy	Middle	1.0	25.80	25.80	25.75	7.87	7.87	7.87	29.80	29.80	29.75	82.3	79.4	79.2	5.63	5.49	5.43	2.15	1.88	2.14	9	8.00
	9:28		Middle	1.0	25.70	25.70		7.86	7.86		29.70	29.70		78.0	76.9		5.33	5.26		2.52	2.00		7	<u> </u>
24/10/2011	20:29	Misty	Middle	1.0	26.40	26.40	26.45	8.04	8.04	8.04	32.40	32.40	32.40	85.3	84.5	84.1	5.76	5.68	5.67	2.75	2.28	2.37	2	2.00
	20:31		Middle	1.0	26.50	26.50		8.03	8.03		32.40	32.40		83.6	82.8		5.64	5.59		2.21	2.22		2	<u> </u>
26/10/2011	10:39	Cloudy	Middle	1.0	25.90	25.90	25.85	8.32	8.32	8.32	32.40	32.40	32.30	88.4	87.6	87.4	6.03	5.97	5.96	4.06	3.84	3.88	4	3.50
	10:42		Middle	1.0	25.80	25.80		8.31	8.31		32.20	32.20		86.9	86.7		5.93	5.89		3.77	3.84		3	



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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	
		Condition	r	n	Va	alue	Average	Va	- Ilue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	g/∟ Average
00/0/0014	11:21		Middle	1.5	28.90	28.90		7.99	7.99	7.00	32.30	32.30		79.2	77.8		4.99	4.92	4.00	5.41	4.84	4.00	3	0.50
28/9/2011	11:23	Fine	Middle	1.5	28.90	28.90	28.90	7.99	7.99	7.99	32.30	32.30	32.30	76.4	77.5	77.7	4.80	4.88	4.90	4.90	4.80	4.99	2	2.50
30/9/2011	14:33	Cloudy	Middle	1.0	28.40	28.40	28.35	7.99	7.99	7.99	31.40	31.40	31.35	85.3	84.3	84.2	5.53	5.48	5.47	5.33	5.18	5.28	7	7.50
30/3/2011	14:36	Cloudy	Middle	1.0	28.30	28.30	20.00	7.98	7.98	1.55	31.30	31.30	51.55	84.1	83.2	04.2	5.46	5.41	5.47	5.10	5.50	5.20	8	7.00
3/10/2011	3:50	Cloudy	Middle	1.5	25.70	25.70	25.70	7.99	7.99	7.99	32.30	32.30	32.30	61.7	61.7	61.7	4.20	4.20	4.19	3.37	3.49	3.51	4	3.50
	3:51		Middle	1.5	25.70	25.70		7.99	7.99		32.30	32.30		61.6	61.6		4.19	4.18		3.69	3.48		3	
6/10/2011	10:02	Cloudy	Middle	1.0	27.40	27.40	27.35	7.87	7.87	7.87	30.80	30.80	30.75	79.1	77.2	77.2	5.24	5.16	5.13	2.27	2.22	2.42	2	2.50
	10:05		Middle	1.0	27.30	27.30		7.86	7.86		30.70	30.70		76.8	75.7		5.09	5.01		2.69	2.49		3	
8/10/2011	22:20	cloudy	Middle	1.5	25.90	25.90	25.90	7.96	7.96	7.96	32.80	32.80	32.80	80.6	80.3	80.2	5.46	5.43	5.43	4.21	3.90	3.90	4	4.00
	22:21	-	Middle	1.5	25.90	25.90		7.96	7.96		32.80	32.80		80.1	79.8		5.41	5.40		3.52	3.95		4	
10/10/2011	11:47	Fine	Middle	1.0	26.80	26.80	26.75	7.94	7.94	7.94	31.00	31.00	30.95	85.4	83.6	83.2	5.77	5.63	5.60	2.81	2.92	3.01	4	4.00
	11:50		Middle	1.0	26.70	26.70		7.93	7.93		30.90	30.90		82.4	81.5		5.53	5.48		3.14	3.16		4	
12/10/2011	11:20	Rainy	Middle	1.0	29.20	29.20	29.25	7.73	7.73	7.73	29.20	29.20	29.15	87.6	87.2	87.0	5.93	5.88	5.88	9.52	8.99	9.41	10	9.00
	11:23	-	Middle	1.0	29.30	29.30		7.72	7.72		29.10	29.10		86.7	86.3		5.86	5.83		9.40	9.74		8	
14/10/2011	12:40	Cloudy	Middle	1.0	27.00	27.00	27.00	7.93	7.93	7.93	32.00	32.00	32.00	82.0	81.6	81.4	5.44	5.40	5.39	2.94	3.48	3.06	4	3.50
	12:42		Middle	1.0	27.00	27.00		7.93	7.93		32.00	32.00		81.2	80.6		5.37	5.35		3.02	2.81		3	
17/10/2011	2:04	Cloudy	Middle	1.5	25.50	25.50	25.50	8.05	8.05	8.05	31.70	31.70	31.70	80.6	81.2	80.9	5.51	5.55	5.53	1.60	1.96	1.70	3	3.00
	2:05		Middle	1.5	25.50	25.50		8.05	8.05		31.70	31.70		81.1	80.8		5.54	5.51		1.56	1.67		3	
20/10/2011	4:40	Cloudy	Middle	1.5	24.70	24.70	24.70	8.13	8.13	8.12	33.00	33.00	33.00	61.2	60.5	60.6	4.22	4.17	4.18	3.16	3.14	3.15	5	4.50
	4:41		Middle	1.5	24.70	24.70		8.10	8.10		33.00	33.00		60.5	60.3		4.17	4.16		3.14	3.16		4	
22/10/2011	9:32	Cloudy	Middle	1.0	26.30	26.30	26.25	7.86	7.86	7.86	30.70	30.70	30.65	75.4	74.1	73.7	5.11	5.05	5.01	2.25	2.41	2.38	7	6.50
	9:35		Middle	1.0	26.20	26.20		7.85	7.85		30.60	30.60		73.1	72.0		4.96	4.92		2.52	2.34		6	<u> </u>
24/10/2011	20:23	Misty	Middle	1.0	26.60	26.60	26.60	8.05	8.05	8.06	32.30	32.30	32.30	85.2	84.7	84.5	5.74	5.71	5.69	4.05	4.38	4.06	5	4.50
	20:25		Middle	1.0	26.60	26.60		8.06	8.06		32.30	32.30		84.2	83.7		5.68	5.63		3.88	3.94		4	<u> </u>
26/10/2011	10:33	Cloudy	Middle	1.0	25.80	25.80	25.75	8.32	8.32	8.33	32.50	32.50	32.45	91.6	91.0	90.9	6.26	6.21	6.21	5.20	5.21	5.12	5	5.00
	10:36		Middle	1.0	25.70	25.70		8.33	8.33		32.40	32.40		90.7	90.3		6.19	6.16		5.09	4.96		5	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ration		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	ilue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Value	g/∟ Average
20/0/00/11	11:04	_:	Middle	2.0	28.80	28.80		7.99	7.99	7.00	32.30	32.30	00.05	81.0	80.4		5.16	5.13		3.30	3.52		4	
28/9/2011	11:07	Fine	Middle	2.0	28.80	28.80	28.80	7.99	7.99	7.99	32.40	32.40	32.35	80.0	79.4	80.2	5.09	5.07	5.11	3.44	3.43	3.42	3	3.50
30/9/2011	14:20	Cloudy	Middle	1.5	28.40	28.40	28.35	7.99	7.99	8.00	32.40	32.40	32.35	88.1	87.5	87.3	5.68	5.66	5.64	10.80	11.20	11.08	8	7.00
30/3/2011	14:23	Cloudy	Middle	1.5	28.30	28.30	20.00	8.00	8.00	0.00	32.30	32.30	32.33	87.2	86.5	07.0	5.62	5.58	5.04	10.60	11.70	11.00	6	7.00
3/10/2011	3:40	Cloudy	Middle	1.5	25.20	25.20	25.20	7.98	7.98	7.98	32.50	32.50	32.50	68.1	68.1	68.1	4.67	4.67	4.67	4.15	4.06	4.11	4	4.50
	3:41		Middle	1.5	25.20	25.20		7.98	7.98		32.50	32.50		68.1	68.1		4.67	4.67		4.12	4.12		5	
6/10/2011	9:50	Cloudy	Middle	2.0	26.50	26.50	26.55	7.90	7.90	7.91	32.40	32.40	32.35	80.2	78.3	78.5	5.37	5.26	5.26	4.72	3.91	4.05	5	5.00
	9:53		Middle	2.0	26.60	26.60		7.91	7.91		32.30	32.30		78.3	77.3		5.22	5.18		3.69	3.88		5	
8/10/2011	21:53	cloudy	Middle	2.0	25.90	25.90	25.90	7.98	7.98	7.98	32.80	32.80	32.80	88.4	88.1	88.2	5.98	5.97	5.97	4.07	4.10	4.01	6	6.00
	21:54		Middle	2.0	25.90	25.90		7.98	7.98		32.80	32.80		88.1	88.1		5.97	5.96		3.82	4.04		6	<u> </u>
10/10/2011	11:30	Fine	Middle	2.0	26.90	26.90	26.95	7.97	7.97	7.97	32.90	32.90	32.85	87.3	86.9	86.6	5.80	5.78	5.76	5.20	4.69	4.76	6	5.50
	11:33		Middle	2.0	27.00	27.00		7.96	7.96		32.80	32.80		86.5	85.8		5.74	5.71		4.52	4.63		5	
12/10/2011	11:15	Rainy	Middle	2.0	26.70	26.70	26.65	7.87	7.87	7.86	30.60	30.60	30.65	90.4	90.2	89.9	6.11	6.09	6.07	5.01	5.31	5.15	8	9.00
	11:18		Middle	2.0	26.60	26.60		7.80	7.88		30.70	30.70		89.7	89.3		6.07	6.02		5.12	5.14		10	<u> </u>
14/10/2011	12:15	Cloudy	Middle	2.0	27.00	27.00	27.00	7.89	7.89	7.90	32.20	32.20	32.20	84.3	83.8	83.4	5.60	5.55	5.54	5.79	5.87	5.87	5	5.00
	12:18		Middle	2.0	27.00	27.00		7.90	7.90		32.20	32.20		83.0	82.5		5.51	5.48		5.78	6.03		5	
17/10/2011	1:56	Cloudy	Middle	2.0	25.50	25.50	25.50	8.06	8.06	8.06	32.95	32.95	32.95	78.9	79.9	79.1	5.36	5.43	5.37	1.57	1.54	1.59	3	3.50
	1:57		Middle	2.0	25.50	25.50		8.06	8.06		32.95	32.95		78.8	78.8		5.35	5.35		1.63	1.61		4	
20/10/2011	4:16 4:17	Cloudy	Middle	2.0	24.50 24.50	24.50 24.50	24.50	8.09 8.08	8.09 8.08	8.09	33.00 33.00	33.00 33.00	33.00	62.4 62.1	62.3 62.0	62.2	4.31 4.29	4.31 4.29	4.30	3.26 3.26	3.15 3.47	3.29	5	5.00
	9:15		Middle	1.5	25.90	24.50		7.86	7.86		32.10	32.10		85.1	83.8		4.29 5.78	4.29 5.71		3.85	3.31		5	<u> </u>
22/10/2011	9:15	Cloudy	Middle	1.5	25.90	25.90	25.95	7.87	7.87	7.87	32.10	32.10	32.15	81.9	83.3	83.5	5.78	5.65	5.68	3.16	3.19	3.38	7	6.00
	20:15		Middle	1.5	26.70	26.70		7.98	7.98		32.20	32.20		74.3	73.7		4.99	4.95		1.95	1.74		<2	
24/10/2011	20:17	Misty	Middle	1.5	26.70	26.70	26.70	7.99	7.99	7.99	32.20	32.20	32.20	72.2	72.1	73.1	4.86	4.86	4.92	1.86	1.87	1.86	<2	<2
	10:25		Middle	1.5	25.60	25.60		8.26	8.26		32.50	32.50		92.4	92.1		6.33	6.30		3.54	3.53		4	+
26/10/2011	10:28	Cloudy	Middle	1.5	25.50	25.50	25.55	8.27	8.27	8.27	32.40	32.40	32.45	91.9	91.6	92.0	6.29	6.25	6.29	4.04	3.59	3.68	4	4.00



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

Date	Time	Weater Condition	Sampling Depth m		Wat	Water Temperature °C		pH				Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU	ity	Suspended Solids mg/L	
		Conduoli			Value Average		Value Avera		Average	Va	alue	Average	Va	alue	Average	Va	lue	Average	Va	ilue	Average	Value	Average	
28/9/2011	12:27		Middle	1.5	28.00		8.12	8.12	0.40	33.38	33.38	33.39	85.3	83.9	04.0	5.54	5.45	E E 4	7.46	7.62	7.00	7	0.00	
20/9/2011	12:30	Fine	Middle	1.5	28.00	28.00	28.00	8.13	8.13	8.13	33.39	33.39	33.39	85.8	84.0	84.8	5.58	5.46	5.51	6.25	6.73	7.02	9	8.00
30/9/2011	12:59	Cloudy	Middle	1.5	27.30	27.30	27.35	8.19	8.19	8.20	33.33	33.33	33.35	90.2	89.2	90.2	5.92	5.85	5.92	8.63	8.94	8.87	9	10.00
30/3/2011	13:04	Cloudy	Middle	1.5	27.40	27.40	21.00	8.20	8.20	0.20	33.37	33.37	33.33	91.0	90.5		5.97	5.94	0.02	8.91	8.98	0.07	11	10.00
3/10/2011	3:22	Cloudy	Middle	1.5	25.92	25.92	25.93	8.01	8.01	8.01	32.33	32.33	32.33	64.4	64.4	64.4	4.36	4.36	4.36	6.76	6.68	6.86	5	6.00
	3:23	0.0003	Middle	1.5	25.93	25.93	20.00	8.00	8.00	0.01	32.33	32.33	32.33	64.3	64.3	04.4	4.35	4.35		6.98	7.02	0.00	7	0.00
6/10/2011	6:15	Cloudy	Middle	1.5	26.00	26.00	25.97	7.86	7.86	7.87	32.73	32.74	32.75	55.3	55.3	55.2	3.73	3.73	3.73	4.21	4.05	4.08	5	5.00
	16:16		Middle	1.5	25.94	25.94		7.87	7.87	1.07	32.76	32.76		55.1	55.1	55.Z	3.72	3.72	0.10	4.09	3.95		5	
8/10/2011	0:59	cloudy	Middle	1.5	25.98	25.98	25.98	7.69	7.69	7.69	32.95	32.95	32.96	53.1 53.1	53.1	53.0	3.68	3.68	3.67	5.81	5.65	5.73	8	8.50
	1:00		Middle	1.5	25.97	25.97		7.69	7.69		32.96	32.96			52.7		3.68	3.65		5.77	5.69		9	<u> </u>
10/10/2011	11:24	Fine	Middle	1.5	26.30	26.30	26.30	8.17	8.17	8.18	33.77	33.77	33.77	84.2	82.5	83.8	5.61	5.49	5.58	7.11	7.28	6.99	10	10.50
	11:27		Middle	1.5	26.30	26.30		8.18	8.18		33.77	33.77		84.8	83.6		5.64	5.56		6.87	6.69		11	<u> </u>
12/10/2011	10:09	Rainy	Middle	1.5	25.60	25.60	25.60	8.17	8.17	8.17	33.08	33.08	33.08	88.7	86.0	88.4	6.02	5.83	6.00	9.40	9.17	<u>9.65</u>	16	<u>15.00</u>
	10:12	<u> </u>	Middle	1.5	25.60	25.60		8.17	8.17		33.07	33.07		89.8	89.0		6.09	6.04		10.20	9.84		14	<u> </u>
14/10/2011	12:25	Cloudy	Middle	1.5	25.90	25.90	25.90	8.07	8.07	8.07	32.91	32.91	32.95	80.7	79.4	80.3	5.45	5.36	5.42	6.22	5.46	5.87	8	9.00
	12:28		Middle	1.5	25.90	25.90		8.07	8.07		32.99	32.99		81.1	79.8		5.48	5.39	<u> </u>	5.41	6.37	<u> </u>	10	
17/10/2011	2:36	Cloudy	Middle	1.5	25.70	25.70	25.70	8.09	8.09	8.09	33.21	33.21	33.21	85.9	86.2	85.6	6.04	6.02	5.91	4.71	4.32	4.38	6	6.00
	2:37		Middle	1.5	25.70	25.70		8.09	8.09		33.21	33.21		85.2	85.2		5.79	5.79		4.21	4.26		6	<u> </u>
20/10/2011	3:52	Cloudy	Middle	1.5	25.05	25.05	25.05	8.00	8.00	8.00	33.04	33.04	33.06	63.5	62.1	62.7	4.35	4.25	4.29	3.99	4.21	4.04	8	7.00
	3:53		Middle	1.5	25.05	25.05		8.00	8.00		33.07	33.07		62.5	62.5		4.28	4.28		3.77	4.19		6	<u> </u>
22/10/2011	6:31	Cloudy	Middle	1.5	25.50	25.50	25.50	7.83	7.83	7.82	33.24	33.24	33.26	73.6	73.0	73.4	5.00	4.95	4.98	3.59	4.13	3.78	5	5.00
	6:33		Middle	1.5	25.50	25.50		7.81	7.81		33.27	33.27		74.1	72.7		5.03	4.93		3.40	3.99		5	<u> </u>
24/10/2011	0:31	Misty	Middle	1.5	26.05	26.05	26.05	7.95	7.95	7.95	32.37	32.37	32.37	72.6	72.3	72.3	4.90	4.86	4.87	3.78	3.90	3.61	6	5.50
	0:32		Middle	1.5	26.05	26.05		7.95	7.95		32.37	32.37		72.1	72.0		4.86	4.85		3.26	3.50		5	<u> </u>
26/10/2011	11:45	Cloudy	Middle	2.0	26.00	26.00	26.00	8.09	8.09	8.08	33.15	33.15	33.17	85.0	83.8	84.3	5.72	5.63	5.67	8.89	8.80	<u>8.75</u>	12	12.00
	11:48		Middle	2.0	26.00	26.00		8.06	8.06		33.18	33.18		84.8	83.5		5.70	5.61		8.82	8.47		12	



Water Monitoring Result at WSD20 - Kennedy Town Mid-Ebb Tide

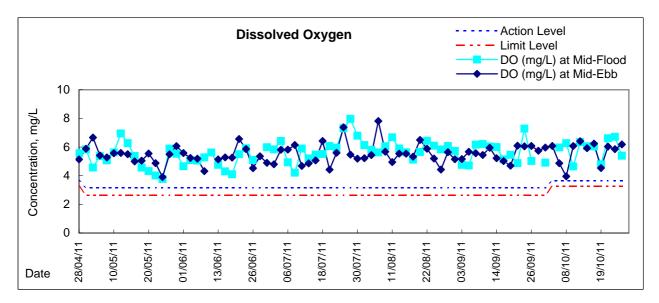
Date	Time	Weater Condition	Sampling Depth m		Water Temperature °C			pH			Salinity ppt			D	O Satu	ration		DO mg/L			Turbid NTL	ity	Suspended Solids mg/L	
		Condition			Value Average		Va	lue	Average	Va	lue ppt	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average	
28/9/2011	12:06	Fine	Middle	1.5	27.90		27.90	8.21	8.21	8.21	33.56	33.56	33.59	78.9	76.7	77.9	5.13	4.99	E 07	5.48	5.89		7	8.00
28/9/2011	12:08	Fine	Middle	1.5	27.90	27.90	27.90	8.21	8.21	0.21	33.62	33.62	33.59	79.1	76.9	77.9	5.15	5.00	5.07	5.39	5.32	5.52	9	8.00
30/9/2011	12:42	Cloudy	Middle	1.5	27.20	27.20	27.10	8.20	8.20	8.21	33.40	33.40	33.39	89.2	88.6	88.6	5.90	5.86	5.87	16.50	17.50	17.13	26	23.50
30/9/2011	12:44	Cloudy	Middle	1.5	27.00	27.00	27.10	8.22	8.22	0.21	33.38	33.38	33.39	88.8	87.9	00.0	5.88	5.83	5.67	17.20	17.30	<u>17.15</u>	21	23.30
3/10/2011	3:05	Cloudy	Middle	2.0	26.02	26.02	26.02	8.03	8.03	8.03	32.64	32.64	32.64	66.6	66.6	66.6	4.49	4.49	4.50	6.65	6.73	6.66	7	7.50
	3:06	elicady	Middle	2.0	26.02	26.02	20.02	8.02	8.03	0.00	32.64	32.64		66.6	66.6		4.50	4.50		6.39	6.86	0.00	8	1.00
6/10/2011	6:00	Cloudy	Middle	1.5	25.78	25.78	25.78	7.91	7.91	7.91	33.01	33.01	33.01	55.7	55.7	55.8	3.76	3.76	3.77	4.90	4.14	4.36	5	5.50
	6:01		Middle	1.5	25.78	25.78		7.91	7.91		33.01	33.01		55.8	55.8	0010	3.77	3.77		4.22	4.16		6	0.00
8/10/2011	0:47	cloudy	Middle	1.5	26.17	26.17	26.17	7.73	7.73	7.73	33.13	33.13	33.13	54.1	54.1	54.1	3.83	3.83	3.83	7.13	6.49	6.90	9	10.00
	0:48		Middle	1.5	26.16	26.16		7.73 7.73		33.13	33.14		54.0	54.0		3.83	3.83	<u> </u>	6.75	7.23		11		
10/10/2011	1:02	Fine	Middle	1.5	26.60	26.60	26.65	8.18	8.18	8.18	33.98	33.98	33.99	88.4	87.3	87.9	5.85	5.78	5.81	7.28	7.16	7.03	9	9.50
	11:04		Middle	1.5	26.70	26.70		8.18	8.18		33.99	33.99		89.0	86.9		5.88	5.74		7.09	6.60		10	
12/10/2011	9:45	Rainy	Middle	1.5	25.90	25.90	25.90	8.24	8.24	8.24	31.89	31.89	31.91	91.0	90.3	91.0	6.17	6.12	6.16	7.77	7.87	7.69	10	11.00
	9:47	<u> </u>	Middle	1.5	25.90	25.90		8.23	8.23		31.93	31.93		92.0	90.5		6.21	6.13		7.59	7.54		12	<u> </u>
14/10/2011	12:10	Cloudy	Middle	1.5	26.10	26.10	26.10	8.01	8.01	8.02	33.38	33.38	33.38	85.6	84.5	84.5	5.71	5.67	5.67	9.16	9.60	<u>8.93</u>	13	<u>13.50</u>
	12:12		Middle	1.5	26.10	26.10		8.03	8.03		33.37	33.37		84.7	83.2		5.70	5.59		8.13	8.82	<u> </u>	14	
17/10/2011	2:23	Cloudy	Middle	1.5	25.70	25.70	25.70	8.13	8.13	8.13	33.39	33.39	33.41	87.4	87.0	87.2	6.11	6.09	6.06	3.78	3.88	3.95	7	6.50
	2:24		Middle	1.5	25.70	25.70		8.13	8.13		33.42	33.42		87.2	87.2		6.02	6.02		4.14	3.99		6	
20/10/2011	3:36	Cloudy	Middle	1.5	25.11	25.11	25.13	8.17	8.17	8.16	32.92	32.92	32.92	71.0	71.0	70.3	4.89	4.89	4.82	3.15	2.76	2.87	6	5.00
	3:37		Middle	1.5	25.14	25.14		8.14	8.14		32.92	32.92		69.5	69.5		4.75	4.75		2.52	3.05		4	<u> </u>
22/10/2011	6:10	Cloudy	Middle	1.5	25.50	25.50	25.55	7.72	7.72	7.75	33.31	33.31	33.32	75.2	74.0	76.3	5.06	5.01	5.16	2.50	2.66	2.61	7	6.00
	6:12		Middle	1.5	25.60	25.60		7.78	7.78		33.32	33.32		76.9	78.9		5.21	5.34		2.54	2.75		5	<u> </u>
24/10/2011	0:02	Misty	Middle	1.5	25.98	25.98	25.98	7.97	7.97	7.97	32.63	32.63	32.63	73.0	72.9	72.8	4.93	4.92	4.91	4.02	4.06	4.17	7	7.00
	0:03		Middle	1.5	25.98	25.98		7.97	7.97		32.63	32.63		72.6	72.5		4.90	4.90		4.61	3.97		7	<u> </u>
26/10/2011	11:24	Cloudy	Middle	1.5	25.70	25.70	25.70	8.03	8.03	8.04	33.18	33.18	33.21	86.4	85.4	85.6	5.85	5.77	5.79	5.48	4.78	4.61	7	7.00
	11:25		Middle	1.5	25.70	25.70		8.04	8.04		33.23	33.23		86.1	84.5		5.83	5.72		4.02	4.15		7	

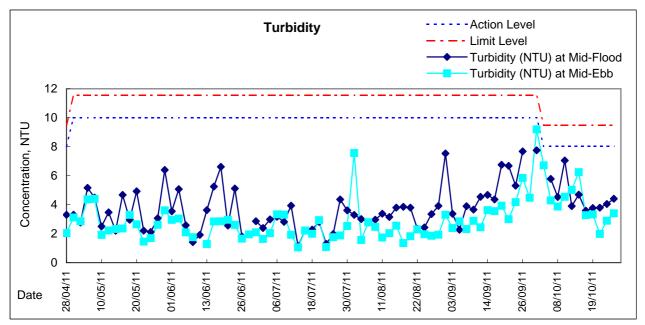


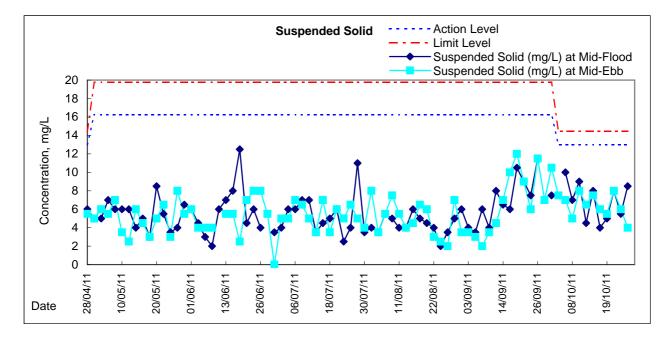
Water Monitoring Result at WSD7 - Kowloon South Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	· ·	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspended Solids ma/L	
		COndition	m		Value Average		Value Av		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average		Average	
28/9/2011	11:43	Fine	Middle 1.5	1.5	28.00	28.00	28.00	8.11	8.11	8.13	33.45	33.45	33.46	75.1	73.5	74.8	4.88	4.77	4.86	5.98	6.11	5.87	9	9.50
20/9/2011	11:46	FILIE	Middle	1.5	28.00	28.00	28.00	8.14	8.14	0.13	33.47	33.47	55.40	75.8	74.8	74.0	4.92	4.86	4.00	5.56	5.83	5.67	10	9.50
30/9/2011	13:18	Cloudy	Middle	1.5	27.40	27.40	27.35	8.15	8.15	8.16	32.53	32.53	32.61	83.5	82.9	82.9	5.52	5.48	5.49	8.67	8.79	8.72	10	10.00
30/9/2011	13:20	Cloudy	Middle	1.5	27.30	27.30	27.55	8.16	8.16	0.10	32.69	32.69	32.01	83.7	81.6		5.54	5.40	5.49	8.65	8.77	0.72	10	10.00
3/10/2011	7:30	Cloudy	Middle	1.5	25.69	25.69	25.70	7.96	7.96	7.97	32.52	32.52	32.52	57.8	57.8	57.8	3.93	3.93	3.93	5.01	4.78	4.73	6	6.00
3/10/2011	7:31	Cloudy	Middle	1.5	25.70	25.70	20.70	7.97	7.97	1.51	32.52	32.52	32.32	57.8	57.8		3.92	3.92	0.00	4.69	4.42	4.75	6	0.00
6/10/2011	5:30	Cloudy	Middle	1.5	25.55	25.54	25.54	7.89	7.89	7.89	32.92	32.92	32.92	59.4	59.6	59.7	4.05	4.05	4.06	3.63	3.50	3.45	4	5.00
0/10/2011	5:31	Cloudy	Middle	1.5	25.54	25.54	20.04	7.88	7.88	1.00	32.92	32.92	02.02	59.8	59.8	55.7	4.06	4.06	4.00	3.35	3.31	0.40	6	5.00
8/10/2011	22:05	cloudy	Middle	1.5	26.42	26.42	26.42	7.95	7.95	7.95	32.44	32.44	32.44	58.6	58.7	58.7	3.94	3.94	3.94	4.73	4.59	4.69	7	7.00
	22:06		Middle	1.5	26.41	26.41		7.95	7.95		32.44	32.44		58.7	58.7		3.94	3.94		5.01	4.41		7	
10/10/2011	8:21	Fine	Middle	1.5	26.90	26.90	27.00	8.07	8.07	8.08	33.88	33.88	33.89	87.0	85.2	86.5	5.72	5.60	5.68	4.10	4.60	4.30	6	6.00
	8:23		Middle	1.5	27.10	27.10		8.08	8.08		33.90	33.90		87.6	86.2		5.75	5.66		4.39	4.11		6	
12/10/2011	10:40	Rainy	Middle	1.5	25.90	25.90	25.85	8.18	8.18	8.18	33.44	33.44	33.47	81.3	80.8	81.1	5.48	5.45	5.47	5.65	5.32	5.61	7	- 7.50
	10:42		Middle	1.5	25.80	25.80		8.17	8.17		33.50	33.50		82.2	80.1		5.54	5.41	-	5.85	5.61		8	
14/10/2011	12:50	Cloudy	Middle	1.5	26.50	26.50	26.55	8.10	8.10	8.10	33.19	33.19	33.20	81.7	79.9	81.1	5.44	5.33	5.40	8.72	9.28	<u>9.22</u>	8	9.00
	12:52	-	Middle 1.5	1.5	26.60	26.60		8.10	8.10		33.20	33.20		81.9	80.9		5.45	5.38		9.50	9.36		10	
17/10/2011	0:19	Cloudy	Middle	1.5	25.70	25.70	- 25.70	8.22	8.22	8.22	33.18	33.18	33.18	97.3	97.3	96.9	6.58	6.58	6.55	5.27	4.52	5.05	7	6.50
	0:20		Middle	1.5	25.70	25.70		8.22	8.22		33.18	33.18		96.5	96.4		6.53	6.52		5.38	5.02		6	<u> </u>
20/10/2011	2:56	Cloudy	Middle	1.5	25.06	25.06	25.08	8.09	8.09	8.09	31.22	31.22	31.22	73.0	73.5	73.2	5.10	5.09	5.08	5.21	4.95	4.89	7	6.50
	2:57		Middle	1.5	25.09	25.09		8.09	8.09		31.21	31.21		73.2	73.0		5.07	5.04		4.75	4.64		6	
22/10/2011	9:30	Cloudy	Middle	1.5	25.60	25.60	25.65	7.86	7.86	7.86	33.19	33.19	33.24	78.7	77.6	78.1	5.31	5.24	5.27	7.17	7.01	7.08	15	<u>14.00</u>
	9:32		Middle	1.5	25.70	25.70		7.86	7.86		33.28	33.28		79.1	76.8		5.34	5.19		7.21	6.91		13	<u> </u>
24/10/2011	21:13	Misty	Middle	1.5	26.43	26.43	26.44	7.77	7.77	7.77	32.47	32.47	32.47	70.1	70.1	70.2	4.70	4.70	4.71	4.56	4.48	4.48	6	6.50
	21:14		Middle	1.5	26.45	26.45		7.76	7.76		32.47	32.47		70.2	70.2		4.71	4.71		4.50	4.39		7	<u> </u>
26/10/2011	10:52	Cloudy	Middle	1.5	25.60	25.60	25.60	7.91	7.91	7.92	33.24	33.24	33.25	82.1	80.7	81.6	5.56	5.47	5.53	3.81	3.56	3.68	5	5.00
	10:55	Cioudy	Middle	1.5	25.60	25.60		7.92	7.92		33.25	33.25		82.4	81.1	01.0	5.59	5.49	0.00	3.60	3.74		5	

Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

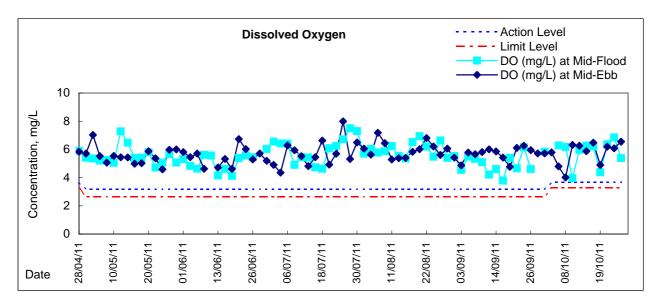


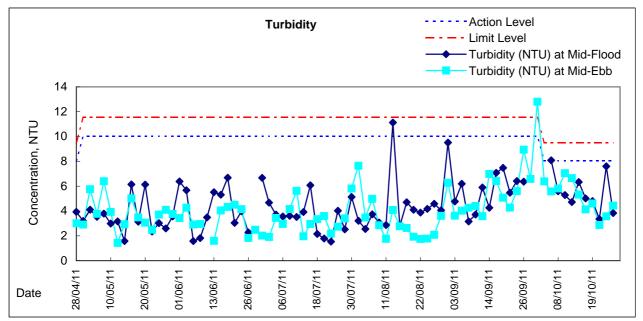


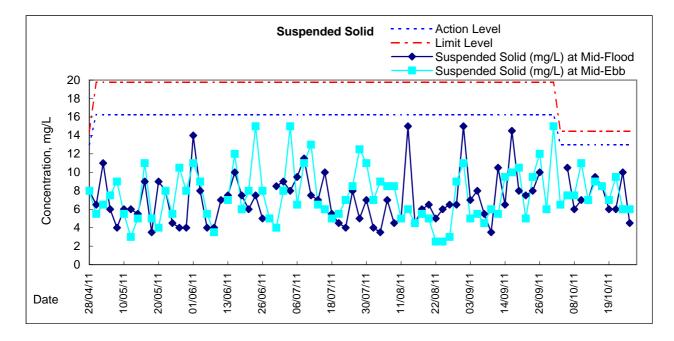




Graphic Presentation of Water Quality Result of WSD10 - Cha Kwo Ling

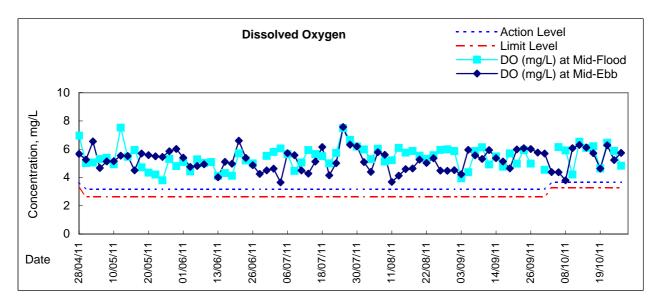


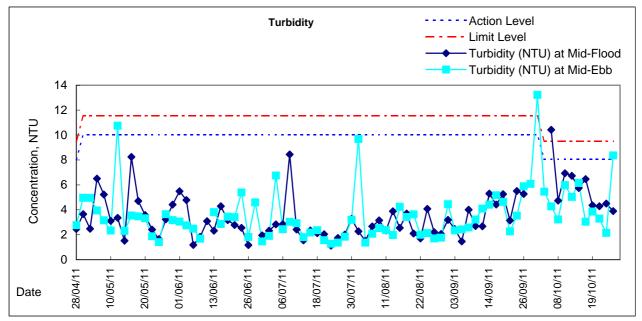


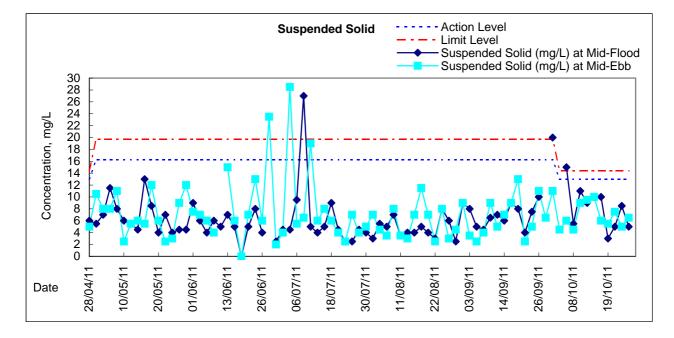




Graphic Presentation of Water Quality Result of WSD15 - Sai Wan Ho

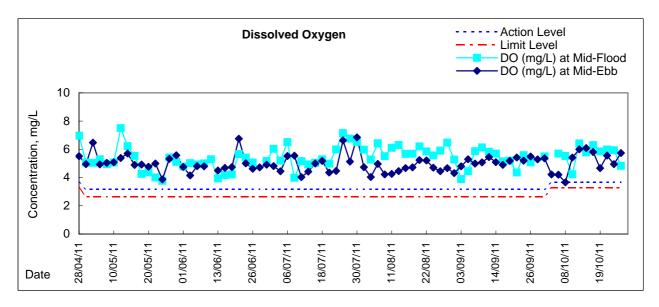


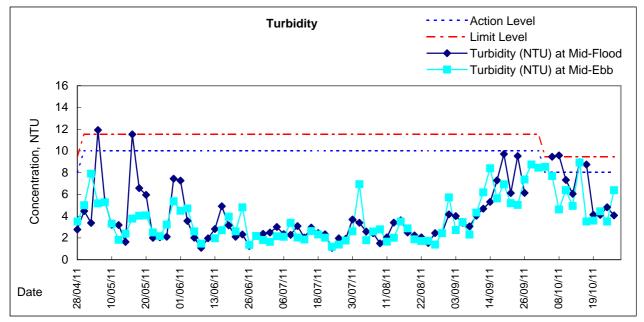


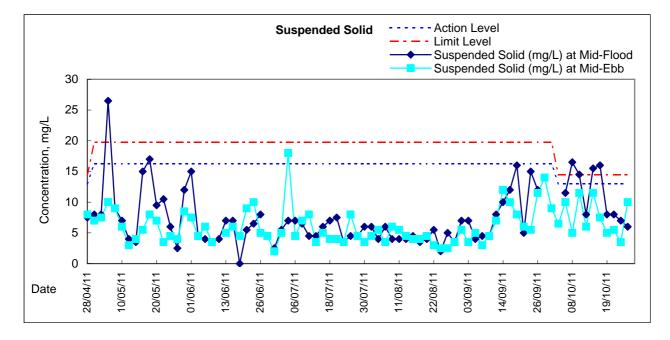




Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

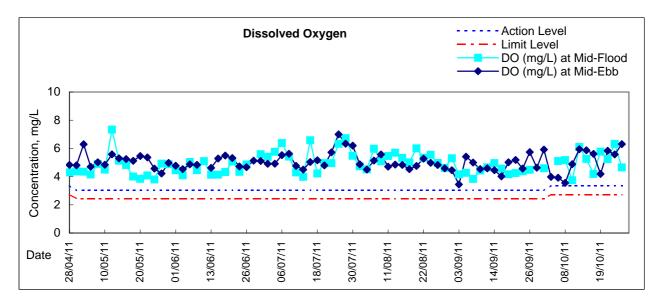


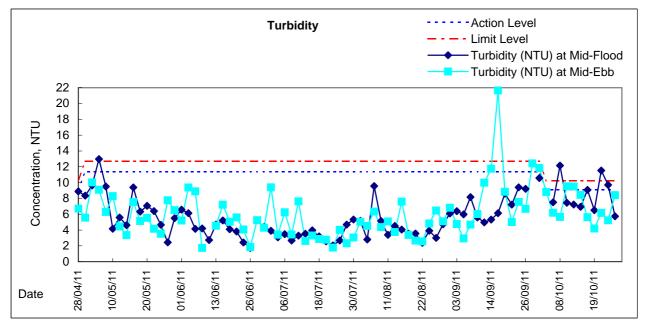


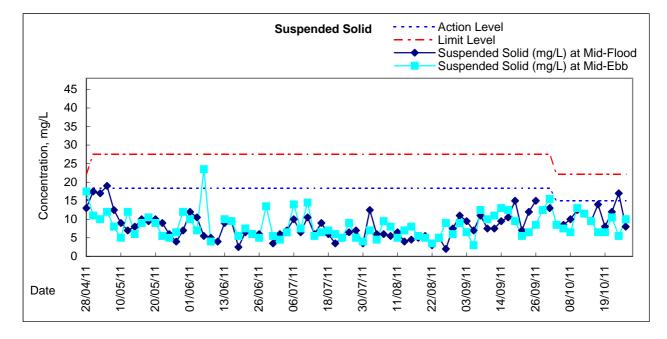




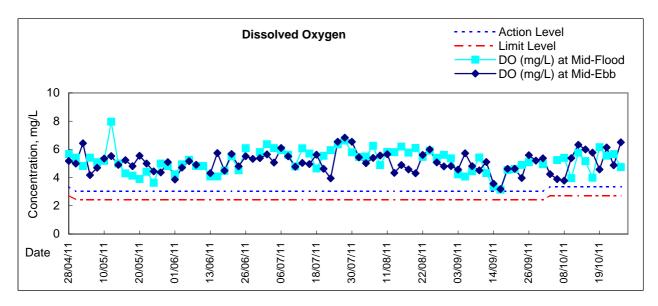
Graphic Presentation of Water Quality Result of C8 - City Garden

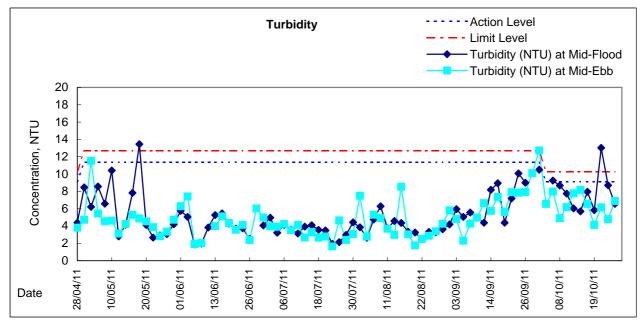


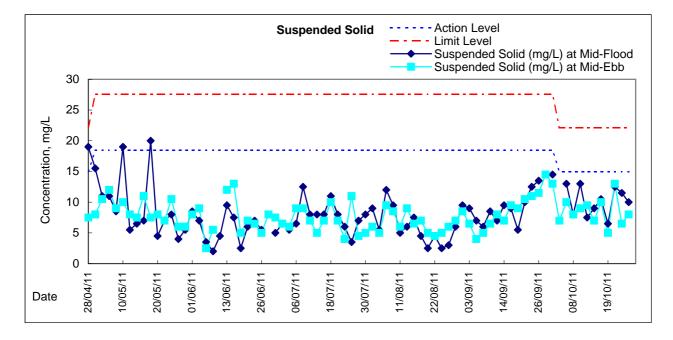




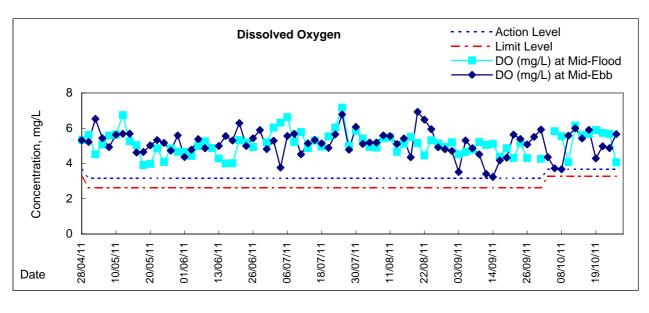
Graphic Presentation of Water Quality Result of C9 - Provident Centre

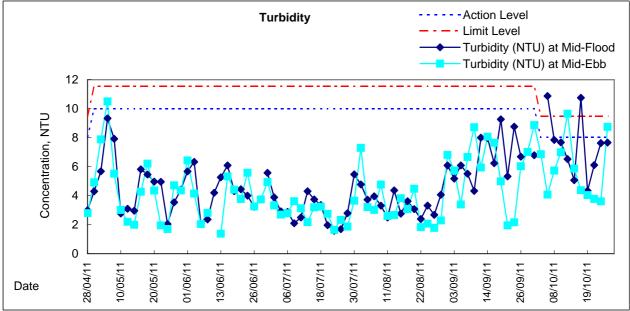


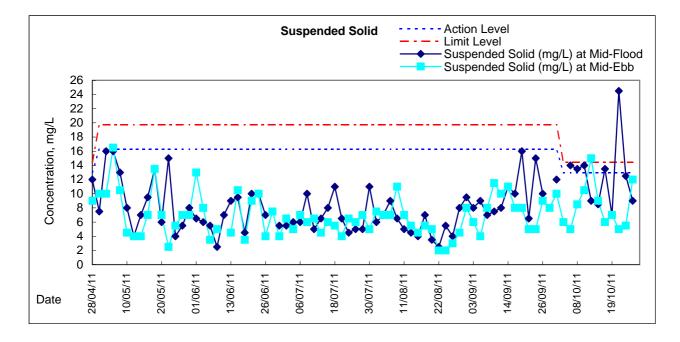




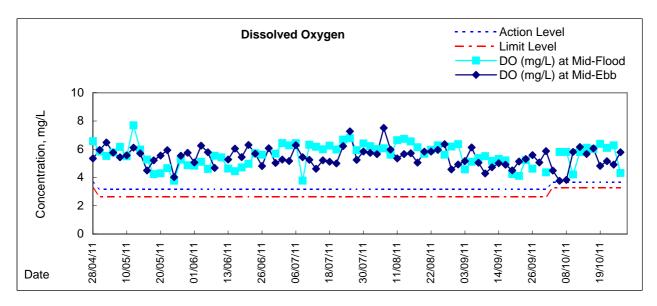
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

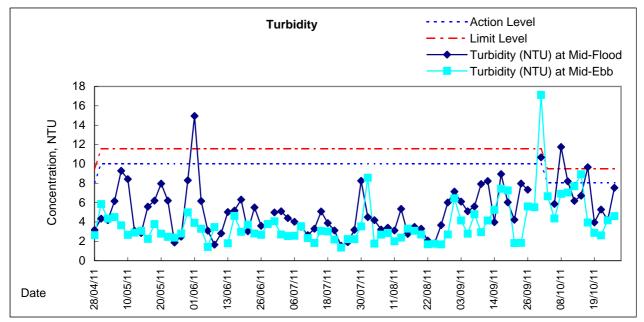


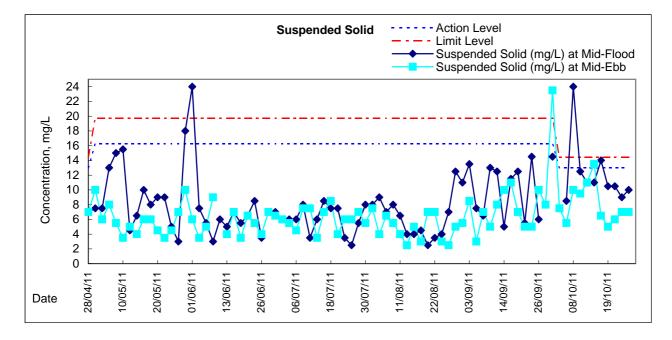




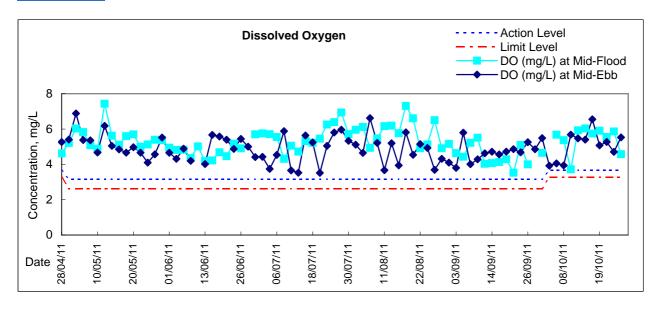
Graphic Presentation of Water Quality Result of WSD20 - Kennedy Town

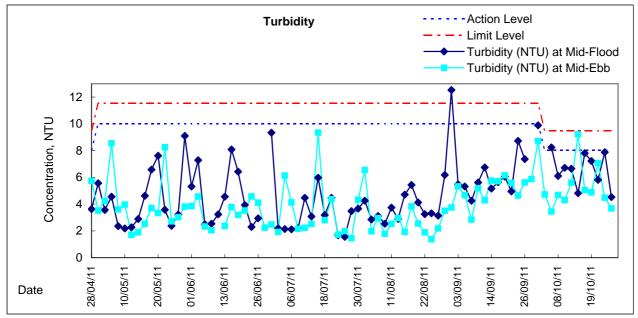


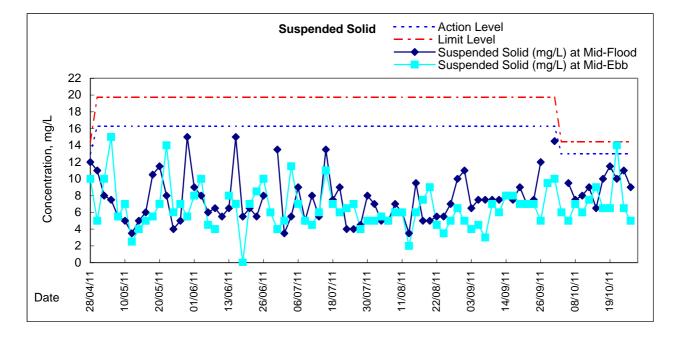




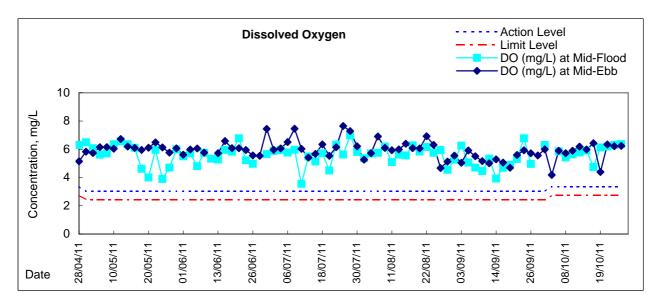
Graphic Presentation of Water Quality Result of WSD7 - Kowloon South

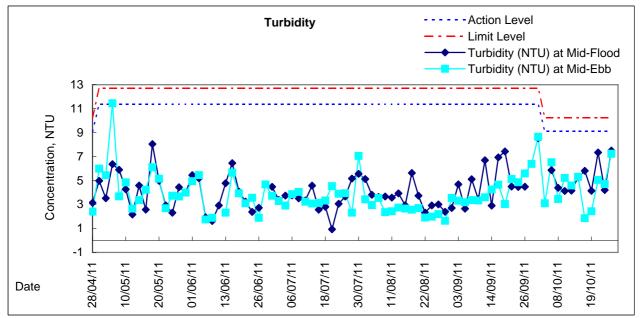


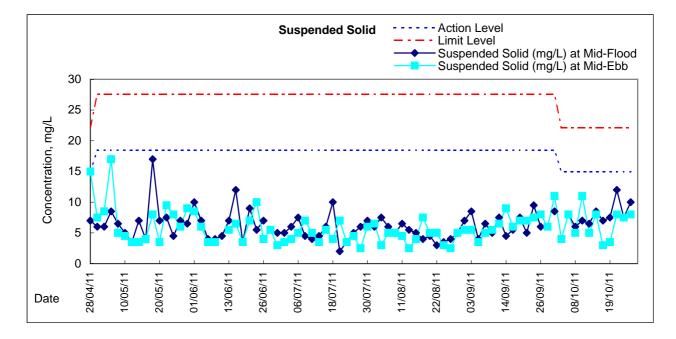




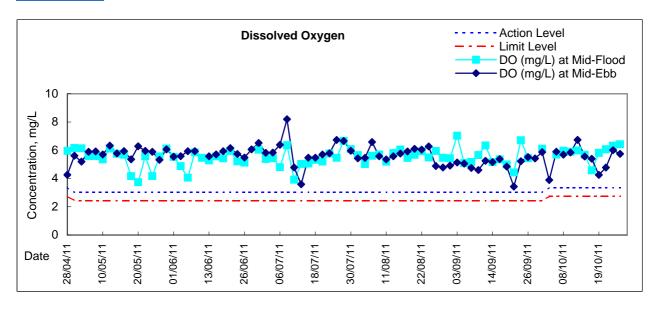
Graphic Presentation of Water Quality Result of C1 - HKCEC

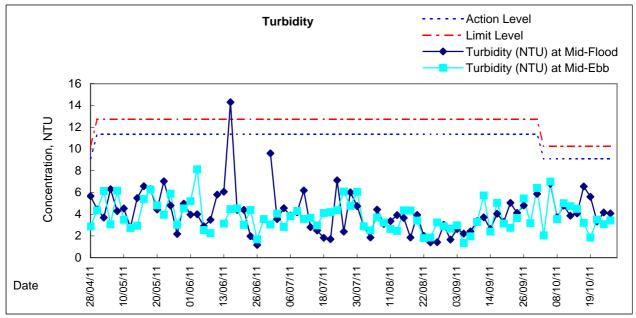


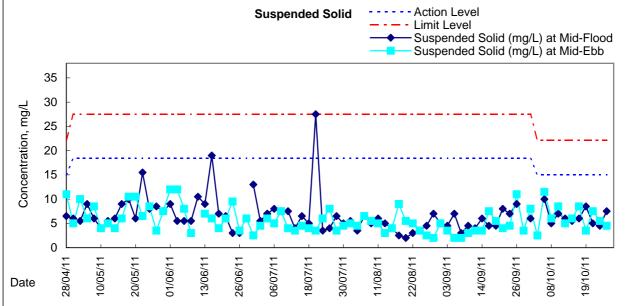




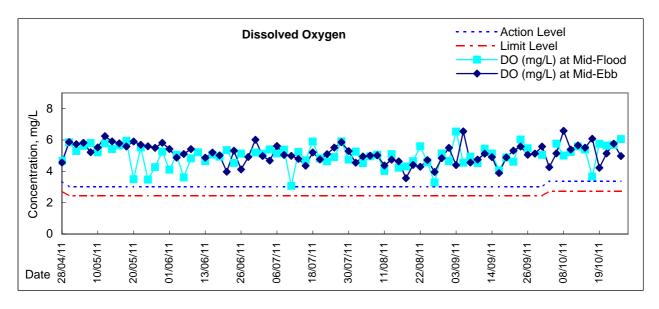
Graphic Presentation of Water Quality Result of C2 - TH / APA / SOC

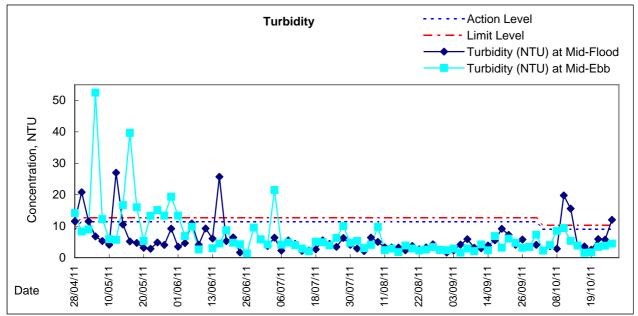


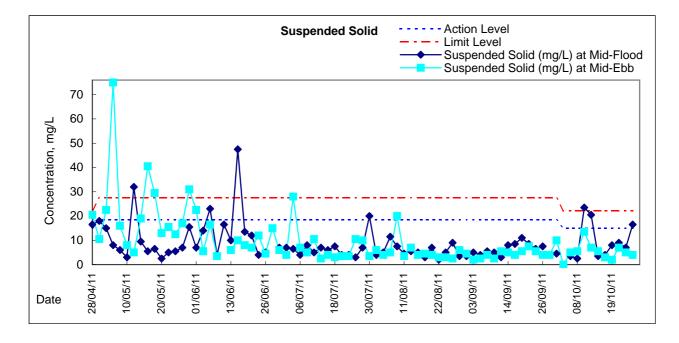




Graphic Presentation of Water Quality Result of C3 - WCT and GEC

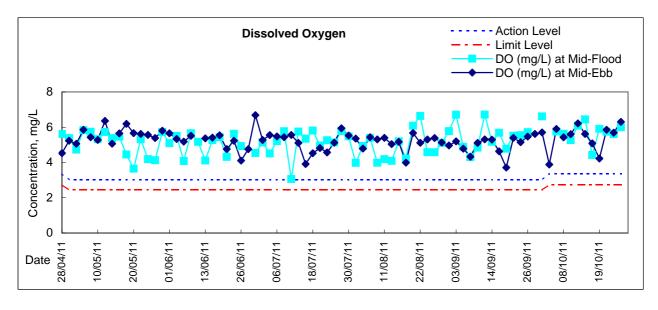


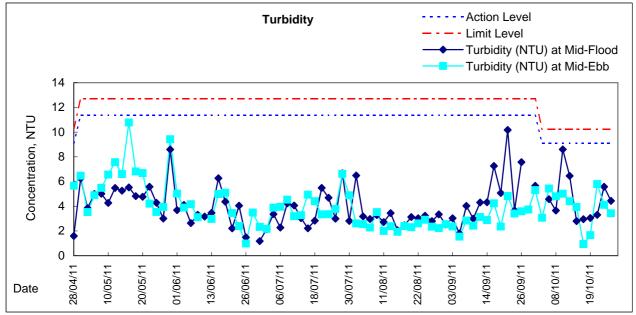


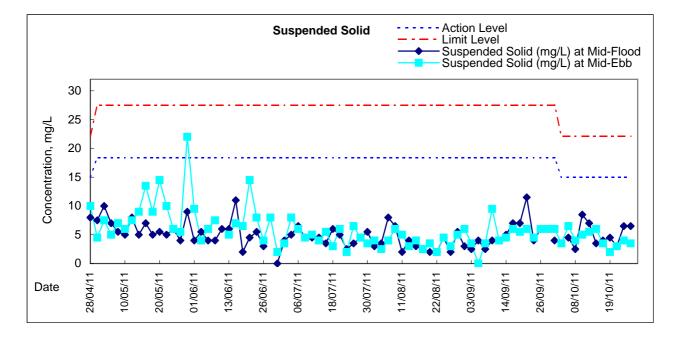




Graphic Presentation of Water Quality Result of C4e - WCT and GEC (Eastern)

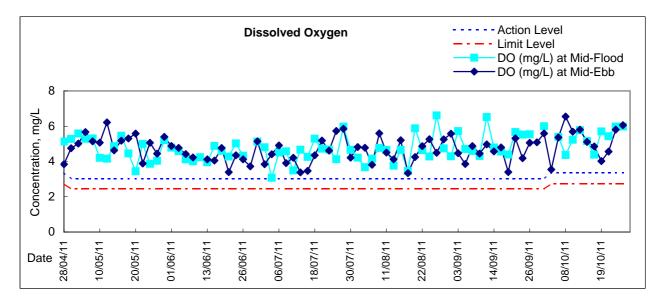


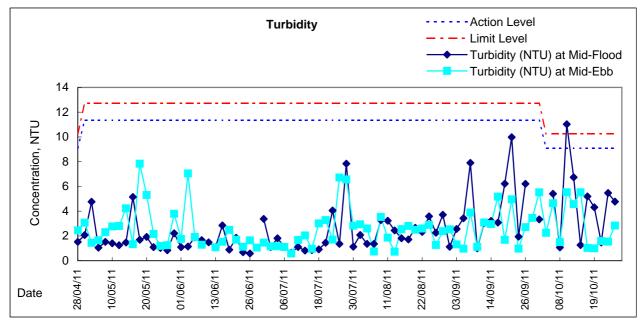


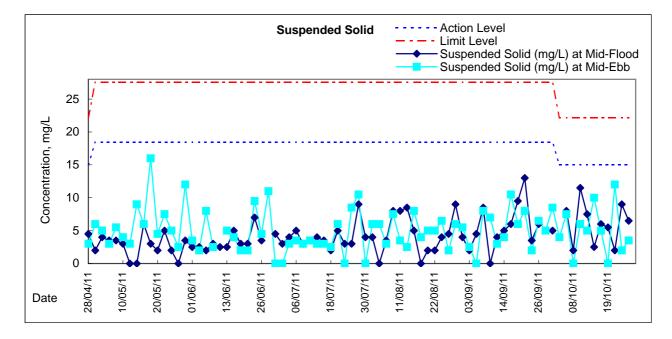




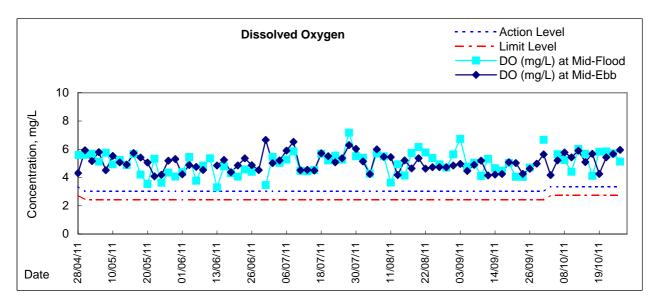
Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)

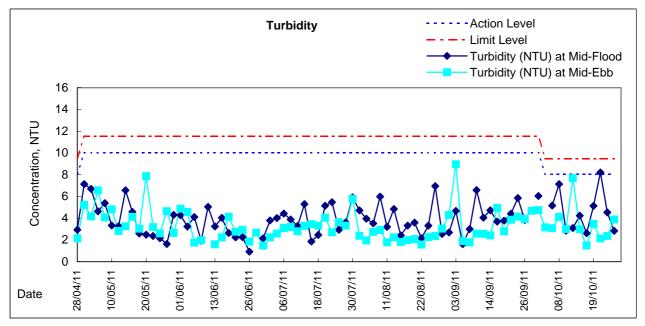


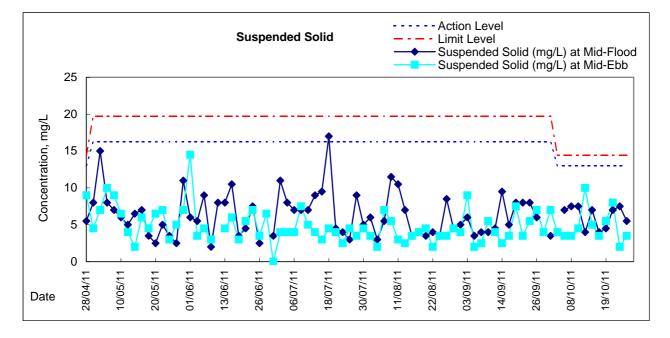




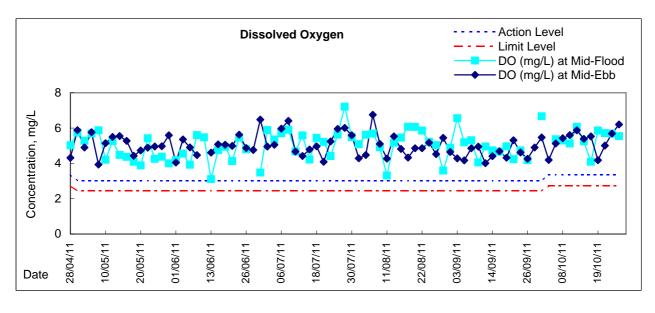
Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

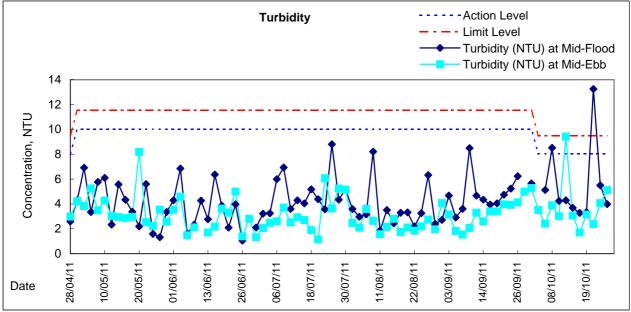


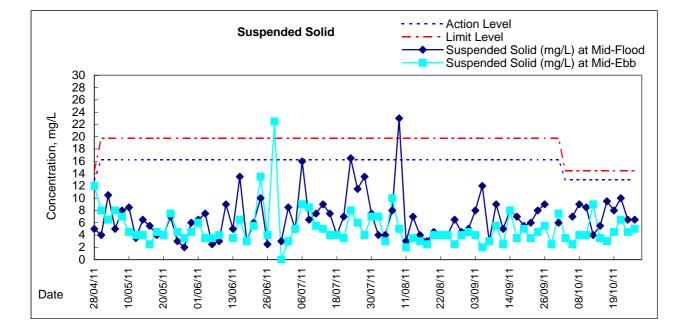




Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

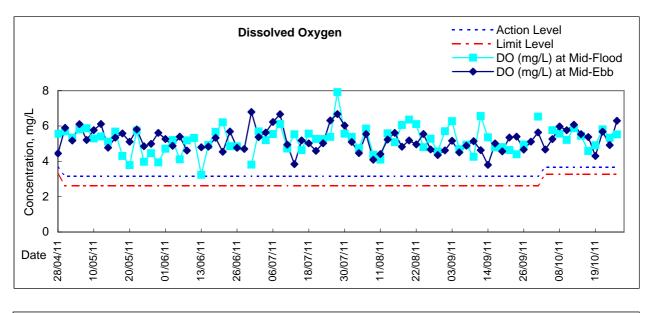


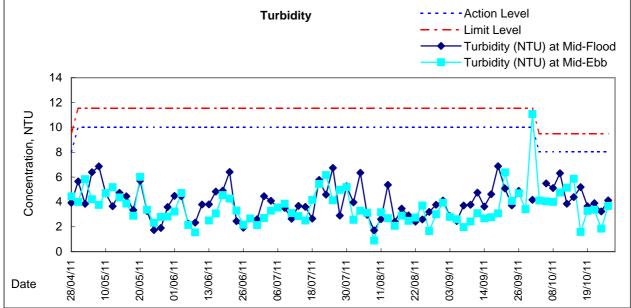


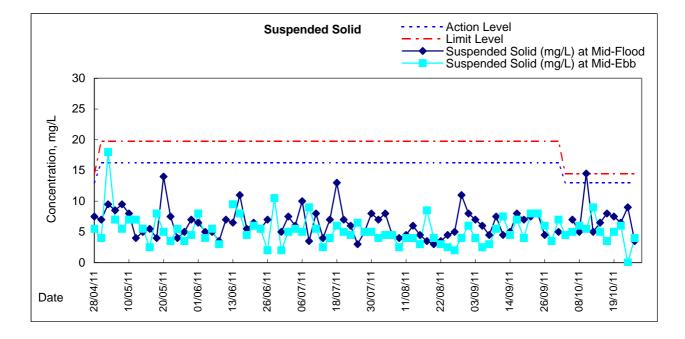




Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

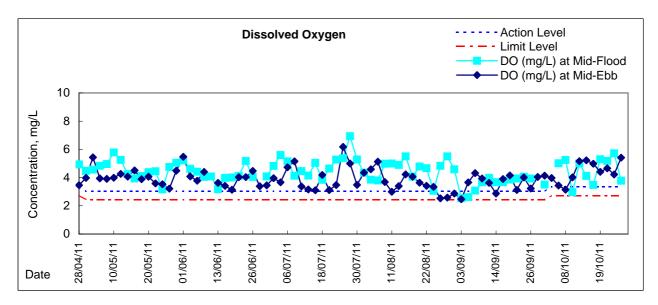


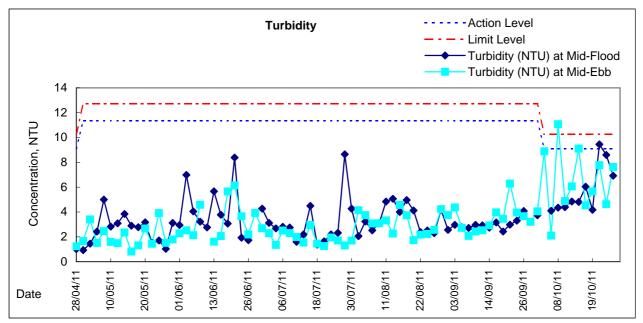


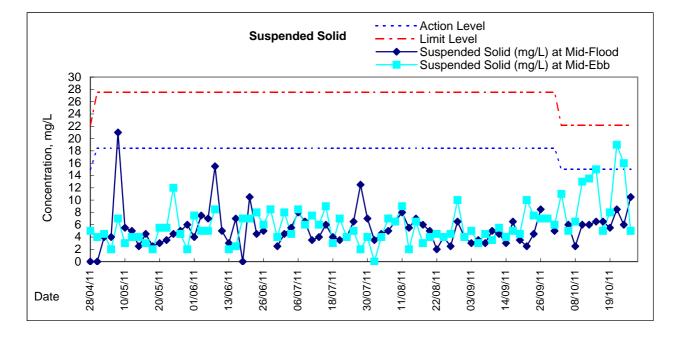




Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Date	Time	Weater	Samplin	ig Depth	Wat	er Temp	erature		pН			Salinit	y	D	O Satur	ration		DO	
2410		Condition	n	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2011	-	Typhoon signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	22:27	Cloudy	Middle	1.5	27.69	27.69	27.7	7.69	7.69	7.7	31.79	31.79	31.8	56.5	56.5	56.5	3.72	3.72	3.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/10/2011	-	Typhoon signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2011	12:40	Cloudy	Middle	1.5	26.80	26.80	26.8	8.34	8.34	8.3	32.76	32.76	32.8	55.1	54.3	54.7	3.67	3.55	3.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2011	14:18	Fine	Middle	1.5	27.60	27.60	27.6	7.95	7.95	8.0	32.10	32.10	32.1	80.9	80.2	80.6	5.31	5.27	5.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2011	18:22	Cloudy	Middle	1.5	26.28	26.28	26.3	7.95	7.96	8.0	32.66	32.66	32.7	54.7	54.8	54.8	3.67	3.68	3.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/10/2011	18:52	Cloudy	Middle	1.5	26.00	26.00	26.0	8.17	8.17	8.2	31.21	31.21	31.2	83.3	83.6	83.5	6.14	6.21	6.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/10/2011	18:46	Cloudy	Middle	1.5	26.30	26.30	26.3	8.12	8.12	8.1	32.31	32.31	32.3	73.9	73.8	73.9	4.97	4.95	4.96
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2011	11:17	Fine	Middle	1.5	26.40	26.40	26.4	8.03	8.03	8.0	32.26	32.26	32.3	44.2	44.3	44.3	2.97	2.98	2.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2011	15:03	Sunny	Middle	1.5	26.30	26.20	26.3	7.87	7.87	7.9	31.90	31.90	31.9	83.8	82.5	83.2	5.65	5.59	5.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2011	14:22	Sunny	Middle	1.5	26.80	26.80	26.8	7.90	7.90	7.9	31.70	31.70	31.7	79.5	77.9	78.7	5.30	5.22	5.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2011	14:05	Sunny	Middle	1.5	26.70	26.70	26.7	8.11	8.11	8.1	32.00	32.00	32.0	83.4	83.0	83.2	6.67	6.63	6.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2011	18:33	Cloudy	Middle	1.5	25.32	25.32	25.3	8.10	8.09	8.1	32.31	32.31	32.3	62.1	62.1	62.1	4.25	4.25	4.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	I							I	I					I	I			I	

Remarks:

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

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	y	D	O Satur	ation		DO	
Duio		Condition	r	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2011	-	Typhoon signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	22:20	Cloudy	Middle	1.5	27.79	27.79	27.8	7.67	7.67	7.7	32.58	32.58	32.6	53.8	53.6	53.7	3.52	3.51	3.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/10/2011	-	Typhoon signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	olghai no.o	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2011	12:44	Cloudy	Middle	1.5	27.70	27.70	27.7	8.15	8.15	8.2	33.19	33.19	33.2	77.5	76.5	77.0	5.06	5.00	5.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2011	14:12	Fine	Middle	1.5	28.30	28.30	28.3	7.86	7.86	7.9	32.20	32.20	32.2	80.9	80.8	80.9	5.29	5.27	5.28
	-		Bottom	-	-	_	-	-	-	-	-	_	-	-	-	-	-	_	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2011	18:12	Cloudy	Middle	1.5	26.33	26.33	26.3	7.80	7.80	7.8	32.68	32.68	32.7	44.5	44.3	44.4	2.98	2.97	2.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	_	_		_	-	-		_			_	_		-	-
12/10/2011	18:46	Cloudy	Middle	1.5	25.90	25.90	25.9	- 8.15	8.15	8.2	32.81	32.81	32.8	74.6	73.4	74.0	5.02	4.96	4.99
12/10/2011	-	Cloudy		-	-	-	-	-	-	-	-	-	52.0	-	-	-	-	4.50	4.55
			Bottom					-					-	-					
44/40/2044	-	Claudu	Surface	-	-	-	-		-	-	-	-	-		-	-	-	-	-
14/10/2011	18:38	Cloudy	Middle	1.5	26.30	26.30	26.3	8.07	8.07	8.1	32.45	32.45	32.5	61.3	61.7	61.5	4.11	4.14	4.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2011	11:23	Fine	Middle	1.5	26.70	26.70	26.7	8.02	8.02	8.0	32.85	32.85	32.9	52.1	52.5	52.3	3.47	3.49	<u>3.48</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2011	14:55	Sunny	Middle	1.5	26.40	26.40	26.4	7.83	7.83	7.8	32.10	32.10	32.1	80.1	78.9	79.5	5.37	5.33	5.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2011	14:15	Sunny	Middle	1.5	27.60	27.60	27.6	7.87	7.87	7.9	31.80	31.80	31.8	80.6	79.0	79.8	5.29	5.21	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2011	14:00	Sunny	Middle	1.5	27.00	27.00	27.0	8.04	8.04	8.0	32.00	32.00	32.0	94.9	94.1	94.5	6.39	6.36	6.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2011	18:27	Cloudy	Middle	1.5	25.49	25.49	25.5	8.04	8.04	8.0	32.55	32.55	32.6	55.5	55.5	55.5	3.78	3.78	<u>3.78</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
																			_

Remarks:

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

		ood Tide																	
Date	Time	Weater Condition		ig Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	у	D	O Satur %	ation		DO mg/L	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-	Typhoon	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2011	-	signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	22:11	Cloudy	Middle	1.5	27.72	27.72	27.7	7.70	7.70	7.7	32.50	32.50	32.5	61.9	61.4	61.7	4.06	4.03	4.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Turchasen	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/10/2011	-	Typhoon signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2011	16:33	Cloudy	Middle	1.5	26.80	26.80	26.8	8.20	8.20	8.2	33.64	33.64	33.6	71.5	70.4	71.0	4.73	4.66	4.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2011	14:30	Fine	Middle	1.5	27.10	27.10	27.1	7.98	7.98	8.0	32.90	32.90	32.9	73.1	71.3	72.2	4.82	4.74	4.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2011	17:57	Cloudy	Middle	1.5	26.37	26.34	26.4	7.89	7.89	7.9	32.92	32.93	32.9	56.2	55.9	56.1	3.96	3.94	3.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/10/2011	18:28	Cloudy	Middle	1.5	25.80	25.80	25.8	8.19	8.19	8.2	32.70	32.70	32.7	81.3	81.4	81.4	5.53	5.54	5.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/10/2011	18:24	Cloudy	Middle	1.5	26.50	26.50	26.5	8.13	8.13	8.1	32.88	32.89	32.9	77.6	76.5	77.1	5.16	5.11	5.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Surface	1.0	26.10	26.10	26.1	8.08	8.07	8.1	33.07	33.07	33.1	59.0	59.1	59.1	3.96	3.97	3.97
17/10/2011	11:11	Fine	Middle	2.5	26.20	26.20	26.2	8.09	8.08	8.1	33.07	33.07	33.1	59.2	59.0	59.1	3.97	3.96	3.97
	11:12		Bottom	4.0	26.20	26.20	26.2	8.09	8.10	8.1	33.07	33.07	33.1	58.8	58.9	58.9	3.95	3.96	<u>3.96</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2011	15:15	Sunny	Middle	1.5	26.20	26.20	26.2	7.93	7.93	7.9	32.50	32.50	32.5	91.2	90.6	90.9	6.14	6.09	6.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2011	14:30	Sunny	Middle	1.0	26.80	26.80	26.8	7.94	7.94	7.9	32.40	32.40	32.4	91.9	91.1	91.5	6.10	6.06	6.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2011	14:18	Sunny	Middle	1.5	26.50	26.50	26.5	8.13	8.13	8.1	32.40	32.40	32.4	94.8	93.6	94.2	6.34	6.28	6.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2011	18:14	Cloudy	Middle	1.5	25.36	25.36	25.4	8.24	8.23	8.2	32.79	32.79	32.8	62.4	62.5	62.5	4.26	4.26	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

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

	WIIG-FI	ood Tide																	
Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature	-	pН			Salinit	У	D	O Satur	ation	-	DO	
Date		Condition	r	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2011	-	Typhoon signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	22:16	Cloudy	Middle	1.5	27.77	27.77	27.8	7.70	7.70	7.7	32.46	32.46	32.5	61.0	60.9	61.0	4.00	4.00	4.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/10/2011	-	Typhoon signal no.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	1.0	26.90	26.90	26.9	8.20	8.20	8.2	33.61	33.61	33.6	68.3	67.8	68.1	4.52	4.49	4.51
6/10/2011	16:25	Cloudy	Middle	2.0	26.90	26.90	26.9	8.20	8.20	8.2	33.63	33.63	33.6	67.5	65.4	66.5	4.47	4.32	4.40
	-		Bottom	3.0	26.80	26.80	26.8	8.18	8.18	8.2	33.65	33.65	33.7	65.1	63.3	64.2	4.31	4.19	<u>4.25</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2011	14:25	Fine	Middle	1.5	27.00	27.00	27.0	7.96	7.96	8.0	32.90	32.90	32.9	68.1	67.9	68.0	4.52	4.50	4.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2011	18:04	Cloudy	Middle	1.5	26.34	26.34	26.3	7.85	7.85	7.9	32.91	32.90	32.9	55.4	55.3	55.4	3.71	3.71	<u>3.71</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/10/2011	18:34	Cloudy	Middle	1.5	25.50	25.50	25.5	8.18	8.18	8.2	32.54	32.60	32.6	84.1	84.6	84.4	5.69	5.70	5.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/10/2011	18:29	Cloudy	Middle	1.5	26.40	26.40	26.4	8.14	8.14	8.1	32.91	32.91	32.9	77.3	78.1	77.7	5.16	5.22	5.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:06		Surface	1.0	26.20	26.20	26.2	8.08	8.08	8.1	33.07	33.07	33.1	59.8	59.7	59.8	4.01	4.00	<u>4.01</u>
17/10/2011	11:07	Fine	Middle	2.5	26.20	26.20	26.2	8.08	8.08	8.1	33.07	33.07	33.1	59.5	59.6	59.6	3.99	4.00	<u>4.00</u>
	11:08		Bottom	4.0	26.20	26.20	26.2	8.08	8.08	8.1	33.05	33.05	33.1	58.9	58.8	58.9	3.95	3.94	<u>3.95</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/10/2011	15:10	Sunny	Middle	1.5	26.10	26.10	26.1	7.87	7.87	7.9	32.60	32.60	32.6	88.8	88.2	88.5	5.97	5.95	5.96
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2011	14:25	Sunny	Middle	1.0	27.10	27.10	27.1	7.93	7.93	7.9	32.30	32.30	32.3	85.3	84.7	85.0	5.67	5.65	5.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	1.0	26.90	26.90	26.9	8.11	8.11	8.1	32.40	32.40	32.4	94.7	94.2	94.5	6.30	6.28	6.29
24/10/2011	14:15	Sunny	Middle	2.0	26.80	26.80	26.8	8.12	8.12	8.1	32.40	32.40	32.4	94.8	94.1	94.5	6.32	6.29	6.31
	-		Bottom	3.0	26.60	26.60	26.6	8.13	8.13	8.1	32.40	32.40	32.4	95.8	95.1	95.5	6.39	6.37	6.38
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2011	18:16	Cloudy	Middle	1.5	25.34	25.34	25.3	8.11	8.10	8.1	32.81	32.81	32.8	63.3	63.2	63.3	4.31	4.31	4.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<u> </u>	1			I		1		I	I	I	I	I			I	I	I	L

Remarks:

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

		ob Tide																	
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	C	O Satur %	ration		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	ppt alue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2011	13:11	Fine	Middle	2	28.40	28.40	28.4	8.14	8.14	8.1	33.03	33.03	33.0	50.4	49.9	50.2	3.26	3.23	3.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	16:24	Cloudy	Middle	2	27.90	27.90	27.9	8.18	8.18	8.2	32.81	32.81	32.8	57.0	56.6	56.8	3.73	3.70	3.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/10/2011	4:20	Cloudy	Middle	2	26.01	26.01	26.0	7.92	7.92	7.9	31.33	31.33	31.3	60.3	60.2	60.3	4.10	4.09	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2011	6:52	Cloudy	Middle	2	25.75	25.75	25.8	7.82	7.82	7.8	32.45	32.45	32.5	57.8	57.5	57.7	3.92	3.90	3.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2011	23:30	Cloudy	Middle	2	26.54	26.54	26.5	7.65	7.65	7.7	32.45	32.45	32.5	53.0	53.0	53.0	3.55	3.55	3.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2011	12:28	Fine	Middle	2	26.60	26.60	26.6	8.11	8.11	8.1	33.41	33.41	33.4	54.3	54.5	54.4	3.61	3.62	3.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/10/2011	12:00	Rainy	Middle	2	25.90	25.90	25.9	7.95	7.95	8.0	29.90	29.90	29.9	89.7	89.0	89.4	6.28	6.24	6.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/10/2011	11:36	Cloudy	Middle	2	26.30	26.30	26.3	7.93	7.93	7.9	31.60	31.60	31.6	82.7	81.4	82.1	5.55	5.49	5.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:00		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2011	5:42	Cloudy	Middle	2	25.90	25.90	25.9	8.04	8.04	8.0	32.05	32.05	32.1	76.3	76.9	76.6	5.18	5.22	5.20
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2011	6:55	Cloudy	Middle	2	25.17	25.17	25.2	8.21	8.21	8.2	32.26	32.26	32.3	60.0	59.0	59.5	4.11	4.05	4.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2011	10:10	Fine	Middle	2	26.00	26.00	26.0	7.91	7.91	7.9	31.90	31.90	31.9	80.7	79.4	80.1	5.46	5.38	5.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2011	22:07	Misty	Middle	2	26.41	26.41	26.4	7.95	7.95	8.0	32.05	32.05	32.1	73.2	73.1	73.2	4.91	4.91	4.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2011	11:22	Cloudy	Middle	1	25.60	25.60	25.6	8.29	8.29	8.3	32.20	32.20	32.2	93.4	92.8	93.1	6.40	6.32	6.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

		ob I ide																	
Date	Time	Weater Condition		ig Depth	Wat	er Temp °C	perature		pH -			Salini ppt	ty	D	O Satur %	ration		DO mg/L	
		Contailion	r	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2011	13:18	Fine	Middle	2	28.80	28.80	28.8	8.12	8.12	8.1	33.04	33.04	33.0	62.0	62.6	62.3	3.98	4.02	4.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	16:30	Cloudy	Middle	2	28.00	28.00	28.0	8.13	8.13	8.1	32.86	32.86	32.9	63.8	61.6	62.7	4.17	4.02	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/10/2011	4:35	Cloudy	Middle	2	26.18	26.18	26.2	8.00	8.00	8.0	32.40	32.40	32.4	58.0	58.0	58.0	3.97	3.97	3.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2011	6:43	Cloudy	Middle	2	25.85	25.85	25.9	7.82	7.82	7.8	32.91	32.91	32.9	51.5	51.1	51.3	3.48	3.46	<u>3.47</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2011	23:25	Cloudy	Middle	2	26.38	26.38	26.4	7.57	7.57	7.6	32.76	32.76	32.8	46.9	46.9	46.9	3.14	3.14	<u>3.14</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2011	12:32	Fine	Middle	2	26.90	26.90	26.9	8.02	8.02	8.0	32.87	32.87	32.9	75.0	73.6	74.3	4.97	4.88	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/10/2011	12:08	Rainy	Middle	2	26.10	26.10	26.1	7.94	7.94	7.9	32.00	32.00	32.0	76.1	75.2	75.7	5.14	5.10	5.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/10/2011	11:28	Cloudy	Middle	2	26.60	26.60	26.6	7.89	7.89	7.9	31.80	31.80	31.8	78.8	78.2	78.5	5.26	5.24	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:00		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2011	5:35	Cloudy	Middle	2	25.80	25.80	25.8	7.99	7.99	8.0	32.57	32.57	32.6	73.7	73.0	73.4	5.00	4.95	4.98
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2011	6:45	Cloudy	Middle	2	24.95	24.95	25.0	8.10	8.10	8.1	32.70	32.70	32.7	64.3	64.0	64.2	4.49	4.40	4.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2011	10:00	Fine	Middle	2	26.30	26.30	26.3	7.87	7.87	7.9	31.70	31.70	31.7	69.0	68.9	69.0	4.65	4.65	4.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2011	22:15	Misty	Middle	2	26.18	26.18	26.2	7.78	7.78	7.8	32.30	32.30	32.3	63.0	63.0	63.0	4.24	4.24	4.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2011	11:26	Cloudy	Middle	2	26.10	26.10	26.1	8.24	8.24	8.2	32.10	32.10	32.1	80.9	80.7	80.8	5.50	5.49	5.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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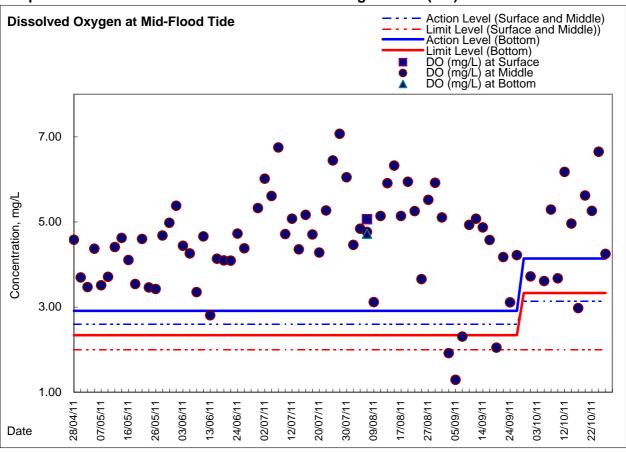
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

	MIG-EL																		
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	y	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2011	12:57	Fine	Middle	1.5	28.30	28.30	28.3	8.18	8.18	8.2	33.39	33.39	33.4	57.1	57.2	57.2	3.69	3.70	3.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/9/2011	16:11	Cloudy	Middle	1.5	27.90	27.90	27.9	8.18	8.19	8.2	33.27	33.27	33.3	67.2	66.4	66.8	4.38	4.33	4.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/10/2011	7:00	Cloudy	Middle	1.0	25.47	25.46	25.5	7.88	7.88	7.9	32.27	32.27	32.3	58.0	58.0	58.0	3.95	3.95	3.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2011	9:05	Cloudy	Middle	1.0	25.92	25.92	25.9	7.75	7.75	7.8	32.84	32.84	32.8	56.2	56.0	56.1	3.79	3.78	<u>3.79</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2011	23:05	Cloudy	Middle	1.5	26.45	26.45	26.5	7.64	7.64	7.6	32.49	32.49	32.5	56.0	56.0	56.0	3.75	3.75	<u>3.75</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	i	-	-	-	-	-	-
10/10/2011	12:19	Fine	Middle	1.5	26.40	26.40	26.4	8.16	8.16	8.2	33.85	33.85	33.9	64.5	64.2	64.4	4.29	4.27	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/10/2011	11:55	Rainy	Middle	1.5	26.20	26.20	26.2	7.98	7.98	8.0	32.10	32.10	32.1	92.3	91.4	91.9	6.21	6.18	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/10/2011	11:47	Cloudy	Middle	1.5	26.30	26.30	26.3	797	7.97	8.0	32.30	32.30	32.3	86.6	85.8	86.2	5.82	5.74	5.78
	-		Bottom	-	-	-	-	•	-	-	-	-	-	-	•	-	-	-	-
	0:00		Surface	-	-	-	-	•	-	-	-	-	-	-	•	-	-	-	-
17/10/2011	1:12	Cloudy	Middle	1.0	25.70	25.70	25.7	8.04	8.04	8.0	33.00	33.00	33.0	72.6	73.5	73.1	5.02	4.99	5.01
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2011	6:26	Cloudy	Middle	1.0	25.13	25.02	25.1	8.29	8.28	8.3	32.66	32.66	32.7	62.3	62.3	62.3	4.27	4.26	4.27
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2011	10:02	Fine	Middle	1.5	26.00	25.90	26.0	7.98	7.98	8.0	32.50	32.50	32.5	89.7	87.9	88.8	6.05	5.96	6.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/10/2011	21:43	Misty	Middle	1.0	26.23	26.23	26.2	7.91	7.91	7.9	32.16	32.16	32.2	71.2	71.0	71.1	4.80	4.79	4.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/10/2011	11:17	Cloudy	Middle	1.0	25.90	25.90	25.9	8.28	8.28	8.3	32.50	32.50	32.5	91.0	90.4	90.7	6.20	6.13	6.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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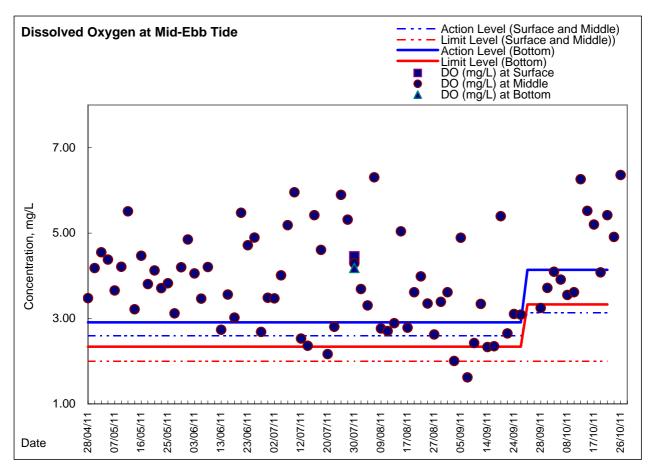
Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

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			Condition	r	n	Va		Average	Va	- lue	Average	Va		Average	Va		Average	Va		
Image		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28/9/2011	12:52	Fine	Middle	1.5	28.20	28.20	28.2	8.17	8.17	8.2	33.33	33.33	33.3	57.2	57.0	57.1	3.71	3.69	3.70
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1 1	30/9/2011	16:06	Cloudy	Middle	1.5	27.80	27.80	27.8	8.18	8.18	8.2	33.16	33.16	33.2	62.5	61.0	61.8	4.08	3.99	4.04
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1 1	3/10/2011	7:06	Cloudy	Middle	1.5	25.32	25.30	25.3	7.89	7.89	7.9	32.50	32.50	32.5	66.9	67.0	67.0	4.89	4.90	4.90
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1 2 2 5 6 1	6/10/2011	9:10	Cloudy	Middle	1.0	26.10	26.10	26.1	7.74	7.74	7.7	32.59	32.59	32.6	54.9	54.6	54.8	3.70	3.68	<u>3.69</u>
10000 10000 10000 1000 <		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image: state interm		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1 2 5 2 2 2 5	8/10/2011	23:10	Cloudy	Middle	1.5	26.38	26.38	26.4	7.65	7.65	7.7	32.64	32.64	32.6	56.4	56.4	56.4	3.78	3.78	<u>3.78</u>
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1 1	10/10/2011	12:13	Fine	Middle	1.5	26.40	26.40	26.4	8.17	8.17	8.2	33.86	33.86	33.9	65.4	65.5	65.5	4.35	4.36	4.36
1110 Rany Indication Constraint		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
indication indicat		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image: state independence independ	12/10/2011	11:50	Rainy	Middle	1.5	26.10	26.10	26.1	7.92	7.92	7.9	32.20	32.20	32.2	93.3	92.5	92.9	6.28	6.25	6.27
14/10/2011 1142 Cloudy Mide 1.5 26.0 26.0 26.0 7.96 7.96 8.00 32.0 32.0 82.0 88.0 88.0 5.80 5.90		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
index index <th< 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></th<>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 1171 Surface 1 <	14/10/2011	11:42	Cloudy	Middle	1.5	26.20	26.20	26.2	7.96	7.96	8.0	32.30	32.30	32.3	89.3	88.5	88.9	5.98	5.94	5.96
1710/2011 1:17 Cloudy Midel 1.0 2.60 2.60 2.60 8.08 8.08 8.11 3.03 3.03 3.03 72.7 72.8		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
no. $no.$ <t< td=""><td></td><td>0:00</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<>		0:00		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	17/10/2011	1:17	Cloudy	Middle	1.0	25.60	25.60	25.6	8.08	8.08	8.1	33.03	33.03	33.0	72.7	72.8	72.8	4.93	4.93	4.93
20/10/2011 6:34 Cloudy Middle 1.0 2.5.1 2.5.10 2.5.1 8.30 8.30 8.30 8.2.5 32.65 32.65 61.4 61.2 61.3 4.27 4.26 4.27 10 10 10.0		0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20/10/2011	6:34	Cloudy	Middle	1.0	25.12	25.10	25.1	8.30	8.30	8.3	32.75	32.75	32.8	61.4	61.2	61.3	4.27	4.26	4.27
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
And Antiparticipant And AntipArtipArticipant And AntipArticipant<	22/10/2011	9:57	Fine	Middle	1.5	26.00	26.00	26.0	7.98	7.95	8.0	32.40	32.40	32.4	88.3	87.4	87.9	6.01	5.91	5.96
24/10/2011 Ansatz Midule 1.0 26.30 26.30 7.83 7.83 7.83 32.00 32.00 32.20 72.4 72.6 72.50 4.88 4.89 4.89 24/10/2011 1.0 1.0 26.30 26.30 7.83 7.83 7.80 32.20 32.20 32.20 72.4 72.6 72.5 4.88 4.89 4.89 26/10/2011 1.0 26.00 1.0 2.0 1.0 1.0 2.0 1.0 2.0 32.0 32.00 32.20 32.0 72.4 72.5 4.88 4.89 4.89 26/10/2011 1.0 26.00 1.0		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image: state		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
And the second	24/10/2011	21:50	Misty	Middle	1.0	26.30	26.30	26.3	7.83	7.83	7.8	32.20	32.20	32.2	72.4	72.6	72.5	4.88	4.89	4.89
26/10/2011 11:15 Cloudy Middle 1.0 25.80 25.80 25.8 8.27 8.27 8.3 32.50 32.50 32.5 93.9 93.3 93.6 6.40 6.36 6.38		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Bottom	26/10/2011	11:15	Cloudy	Middle	1.0	25.80	25.80	25.8	8.27	8.27	8.3	32.50	32.50	32.5	93.9	93.3	93.6	6.40	6.36	6.38
		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

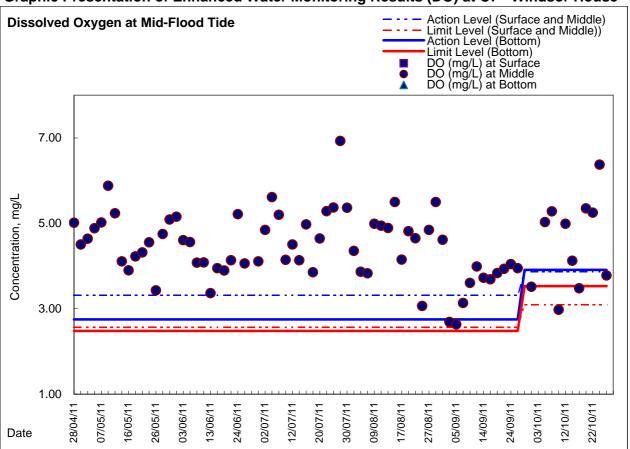




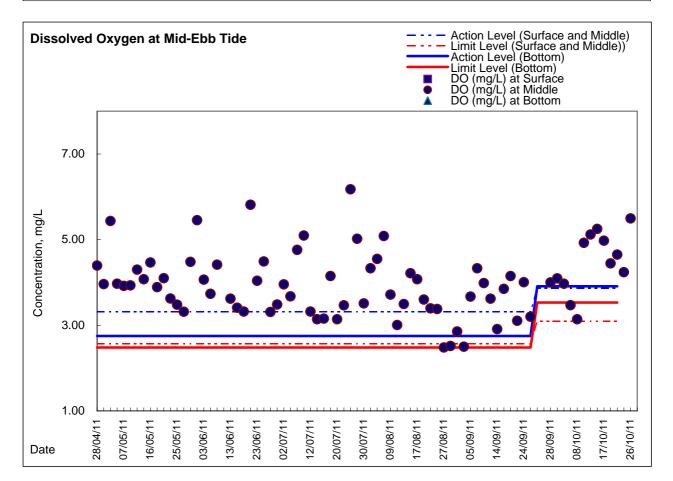
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





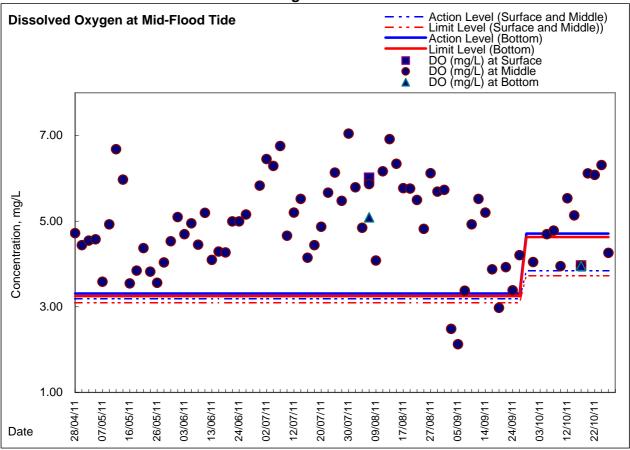


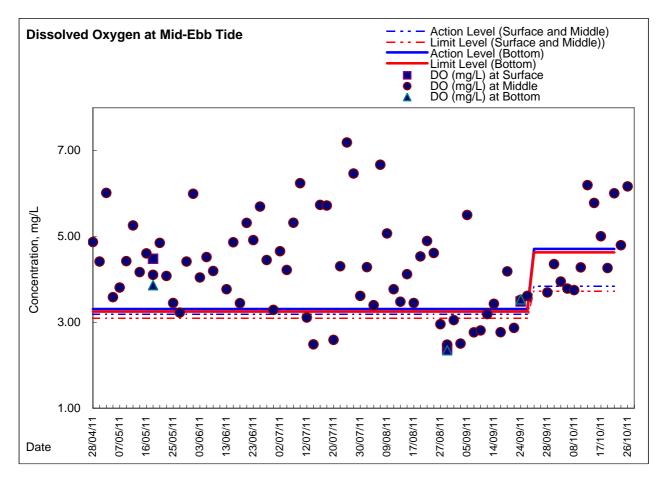
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House





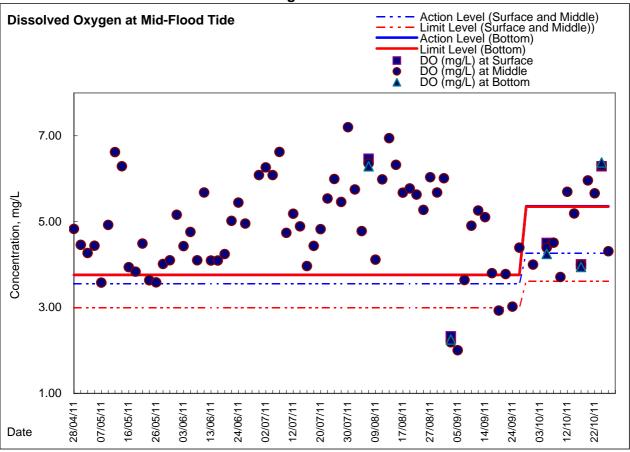
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

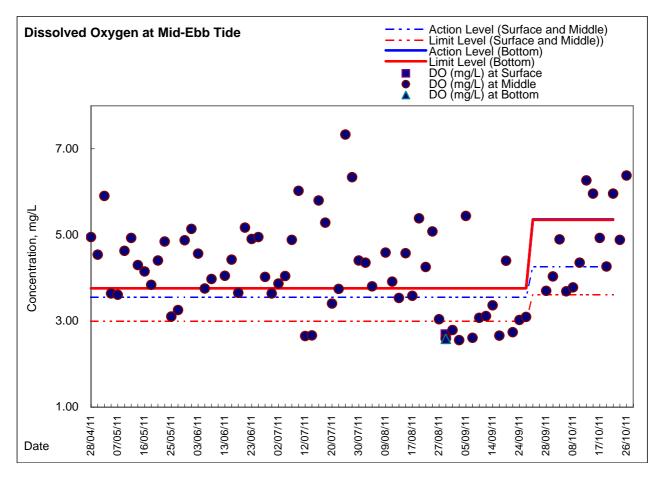


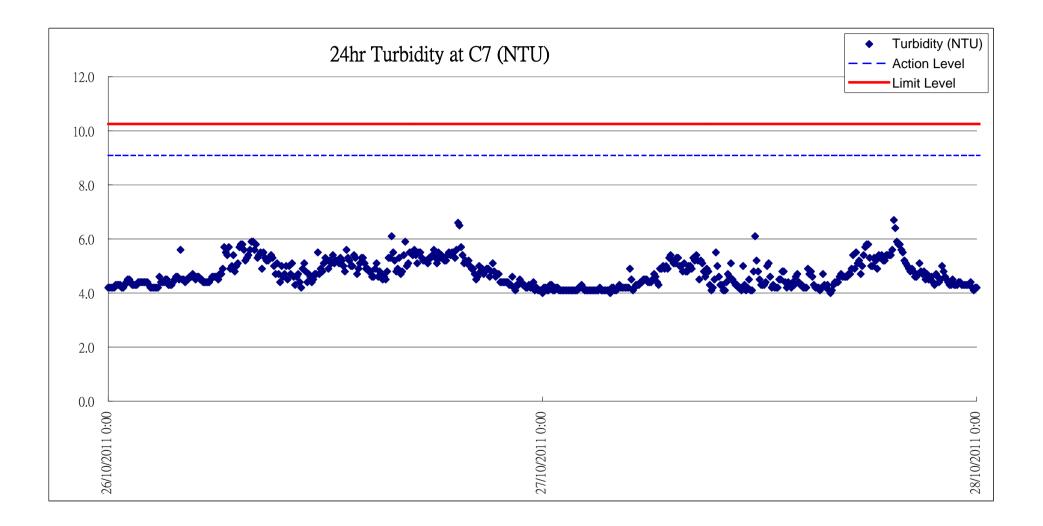




Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







am

Daily SS Monitoring at C7 - Windsor House

Date	Time	Weater Condition	Suspend mç Value	ed Solids g/L Average
26/10/2011	11:30	Cloudy	4	4.00
20/10/2011	11:30	Cloudy	4	4.00
27/10/2011	11:00	Fine	8	7.50
21/10/2011	11:00	i ille	7	7.50





Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real time Naise Data RTN	14 (FEHD Hong Kong Tropport S	Section Whitefield Depath			
Real-time Noise Data RTN Normal Day 07:00-19:00	11 (FEHD Hong Kong Transport S 4/10/2011 13:31 67.1	11/10/2011 8:31 68.7	15/10/2011 15:31 67.5	21/10/2011 10:31 61.1	26/10/2011 17:31 66.4
28/9/2011 7:01 65.0	4/10/2011 14:01 67.9	11/10/2011 9:01 67.0	15/10/2011 16:01 68.9	21/10/2011 11:01 72.4	26/10/2011 18:01 64.9
28/9/2011 7:31 65.6	4/10/2011 14:31 67.3	11/10/2011 9:31 66.5	15/10/2011 16:31 67.4	21/10/2011 11:31 68.2	26/10/2011 18:31 63.8
28/9/2011 8:01 66.0	4/10/2011 15:01 66.9	11/10/2011 10:01 68.2	15/10/2011 17:01 68.2	21/10/2011 12:01 66.0	27/10/2011 7:01 64.8
28/9/2011 8:31 68.5	4/10/2011 15:31 65.8	11/10/2011 10:31 70.7	15/10/2011 17:31 67.1	21/10/2011 12:31 65.9	27/10/2011 7:31 65.5
28/9/2011 9:01 68.6	4/10/2011 16:01 68.9	11/10/2011 11:01 67.4	15/10/2011 18:01 65.6	21/10/2011 13:01 67.1	27/10/2011 8:01 66.0
28/9/2011 9:31 69.0	4/10/2011 16:31 68.8	11/10/2011 11:31 70.7	15/10/2011 18:31 64.5	21/10/2011 13:31 68.1	27/10/2011 8:31 67.8
28/9/2011 10:01 70.0	4/10/2011 17:01 69.2	11/10/2011 12:01 65.3	17/10/2011 7:01 65.1	21/10/2011 14:01 68.1	27/10/2011 9:01 68.2
28/9/2011 10:31 69.8	4/10/2011 17:31 66.1	11/10/2011 12:31 65.0	17/10/2011 7:31 66.1	21/10/2011 14:31 67.2	27/10/2011 9:31 68.2
28/9/2011 11:01 69.8	4/10/2011 18:01 64.6	11/10/2011 13:01 69.5	17/10/2011 8:01 65.5	21/10/2011 15:01 67.4	27/10/2011 10:01 69.5
28/9/2011 11:31 68.4	4/10/2011 18:31 63.0	11/10/2011 13:31 67.1	17/10/2011 8:31 69.5	21/10/2011 15:31 65.8	27/10/2011 10:31 68.0
28/9/2011 12:01 66.1	6/10/2011 7:01 64.9	11/10/2011 14:01 67.1	17/10/2011 9:01 66.7	21/10/2011 16:01 66.7	27/10/2011 11:01 68.5
28/9/2011 12:31 65.3	6/10/2011 7:31 65.5	11/10/2011 14:31 66.8	17/10/2011 9:31 69.1	21/10/2011 16:31 66.5	27/10/2011 11:31 68.7
28/9/2011 13:01 70.1	6/10/2011 8:01 65.3	11/10/2011 15:01 68.5	17/10/2011 10:01 69.1	21/10/2011 17:01 66.3	27/10/2011 12:01 65.6
28/9/2011 13:31 71.6	6/10/2011 8:31 68.9	11/10/2011 15:31 69.7	17/10/2011 10:31 70.4	21/10/2011 17:31 65.4	27/10/2011 12:31 65.3
28/9/2011 14:01 70.5	6/10/2011 9:01 69.5	11/10/2011 16:01 71.2	17/10/2011 11:01 69.0	21/10/2011 18:01 64.0	27/10/2011 13:01 68.8
28/9/2011 14:31 70.1	6/10/2011 9:31 68.9	11/10/2011 16:31 66.6	17/10/2011 11:31 66.4	21/10/2011 18:31 64.4	27/10/2011 13:31 71.1
28/9/2011 15:01 70.0	6/10/2011 10:01 68.7	11/10/2011 17:01 65.3	17/10/2011 12:01 65.8	22/10/2011 7:01 64.4	27/10/2011 14:01 69.5
28/9/2011 15:31 69.0	6/10/2011 10:31 69.1	11/10/2011 17:31 69.1	17/10/2011 12:31 65.9	22/10/2011 7:31 65.4	27/10/2011 14:31 68.7
28/9/2011 16:01 66.1	6/10/2011 11:01 67.9	11/10/2011 18:01 65.4	17/10/2011 13:01 68.4	22/10/2011 8:01 67.2	27/10/2011 15:01 67.4
28/9/2011 16:31 65.8	6/10/2011 11:31 66.9	11/10/2011 18:31 63.2	17/10/2011 13:31 69.4	22/10/2011 8:31 67.9	27/10/2011 15:31 69.0
28/9/2011 17:01 70.1	6/10/2011 12:01 65.9	12/10/2011 7:01 66.6	17/10/2011 14:01 70.5	22/10/2011 9:01 68.9	27/10/2011 16:01 70.1
28/9/2011 17:31 67.1	6/10/2011 12:31 65.5	12/10/2011 7:31 65.7	17/10/2011 14:31 70.4	22/10/2011 9:31 68.4	27/10/2011 16:31 69.9
28/9/2011 18:01 65.0	6/10/2011 13:01 66.1	12/10/2011 8:01 67.1	17/10/2011 15:01 69.8	22/10/2011 10:01 67.9	27/10/2011 17:01 69.1
28/9/2011 18:31 64.4	6/10/2011 13:31 67.6	12/10/2011 8:31 68.4	17/10/2011 15:31 70.0	22/10/2011 10:31 69.3	27/10/2011 17:31 67.9
29/9/2011 7:01 65.0	6/10/2011 14:01 69.0	12/10/2011 9:01 67.0	17/10/2011 16:01 70.1	22/10/2011 11:01 70.7	27/10/2011 18:01 66.0
29/9/2011 7:31 67.2	6/10/2011 14:31 67.6	12/10/2011 9:31 66.3	17/10/2011 16:31 69.2	22/10/2011 11:31 68.9	27/10/2011 18:31 64.6
29/9/2011 8:01 67.2	6/10/2011 15:01 66.7	12/10/2011 10:01 67.8	17/10/2011 17:01 68.8	22/10/2011 12:01 65.3	Normal Day 19:00-23:00,
29/9/2011 8:31 66.2	6/10/2011 15:31 67.3	12/10/2011 10:31 68.5	17/10/2011 17:31 66.9	22/10/2011 12:31 65.1	
29/9/2011 9:01 67.4	6/10/2011 16:01 68.6	12/10/2011 11:01 68.4	17/10/2011 18:01 65.1	22/10/2011 13:01 72.9	Sunday & Holiday 07:00-23:00
29/9/2011 9:31 66.8	6/10/2011 16:31 70.9	12/10/2011 11:31 67.8	17/10/2011 18:31 65.5	22/10/2011 13:31 66.6	28/9/2011 19:01 64.0
29/9/2011 10:01 67.4	6/10/2011 17:01 71.9	12/10/2011 12:01 65.8	18/10/2011 7:01 65.4	22/10/2011 14:01 72.7	28/9/2011 19:06 64.0
29/9/2011 10:31 70.2	6/10/2011 17:31 68.9	12/10/2011 12:31 65.5	18/10/2011 7:31 66.6	22/10/2011 14:31 69.4	28/9/2011 19:11 64.0
29/9/2011 11:01 70.3	6/10/2011 18:01 64.4	12/10/2011 13:01 66.1	18/10/2011 8:01 66.0	22/10/2011 15:01 68.8	28/9/2011 19:16 64.2
29/9/2011 11:31 67.7	6/10/2011 18:31 62.6	12/10/2011 13:31 74.1	18/10/2011 8:31 67.5	22/10/2011 15:31 67.9	28/9/2011 19:21 64.4
29/9/2011 12:01 66.3	7/10/2011 7:01 65.0	12/10/2011 14:01 52.9	18/10/2011 9:01 69.3	22/10/2011 16:01 71.5	28/9/2011 19:26 64.6
29/9/2011 12:31 65.8	7/10/2011 7:31 65.6	12/10/2011 14:31 65.9	18/10/2011 9:31 68.0	22/10/2011 16:31 70.3	28/9/2011 19:31 64.7
29/9/2011 13:01 71.3	7/10/2011 8:01 65.7	12/10/2011 15:01 70.4	18/10/2011 10:01 68.6	22/10/2011 17:01 69.5	28/9/2011 19:36 64.6
29/9/2011 13:31 72.1	7/10/2011 8:31 68.2	12/10/2011 15:31 67.3	18/10/2011 10:31 65.1	22/10/2011 17:31 68.7	28/9/2011 19:41 64.5
29/9/2011 14:01 70.3	7/10/2011 9:01 68.8	12/10/2011 16:01 68.7	18/10/2011 11:01 57.7	22/10/2011 18:01 65.2	28/9/2011 19:46 64.8
29/9/2011 14:31 69.7	7/10/2011 9:31 68.9	12/10/2011 16:31 67.5	18/10/2011 11:31 69.6	22/10/2011 18:31 63.2	28/9/2011 19:51 65.0
29/9/2011 15:01 70.7	7/10/2011 10:01 69.2	12/10/2011 17:01 71.3	18/10/2011 12:01 66.6	24/10/2011 7:01 64.6	28/9/2011 19:56 64.5
29/9/2011 15:31 68.2	7/10/2011 10:31 69.3	12/10/2011 17:31 67.2	18/10/2011 12:31 66.3	24/10/2011 7:31 65.1	28/9/2011 20:01 64.7
29/9/2011 16:01 68.4	7/10/2011 11:01 69.1	12/10/2011 18:01 64.3	18/10/2011 13:01 69.6	24/10/2011 8:01 66.4	28/9/2011 20:06 64.9
29/9/2011 16:31 68.9	7/10/2011 11:31 68.2	12/10/2011 18:31 63.9	18/10/2011 13:31 70.1	24/10/2011 8:31 68.6	28/9/2011 20:11 65.1
29/9/2011 17:01 69.9	7/10/2011 12:01 65.7	13/10/2011 7:01 65.9	18/10/2011 14:01 69.2	24/10/2011 9:01 67.9	28/9/2011 20:16 65.3
29/9/2011 17:31 67.2	7/10/2011 12:31 65.7	13/10/2011 7:31 64.8	18/10/2011 14:31 68.8	24/10/2011 9:31 68.2	28/9/2011 20:21 64.7
29/9/2011 18:01 65.0	7/10/2011 13:01 67.4	13/10/2011 8:01 65.8	18/10/2011 15:01 69.5	24/10/2011 10:01 68.6	28/9/2011 20:26 64.9
29/9/2011 18:31 64.5	7/10/2011 13:31 69.8	13/10/2011 8:31 68.3	18/10/2011 15:31 67.1	24/10/2011 10:31 69.9	28/9/2011 20:31 64.6
30/9/2011 7:01 65.0	7/10/2011 14:01 69.9	13/10/2011 9:01 69.2	18/10/2011 16:01 68.0	24/10/2011 11:01 68.9	28/9/2011 20:36 64.8
30/9/2011 7:31 65.6	7/10/2011 14:31 69.4	13/10/2011 9:31 68.1	18/10/2011 16:31 67.4	24/10/2011 11:31 68.5	28/9/2011 20:41 64.7
30/9/2011 8:01 66.1	7/10/2011 15:01 69.7	13/10/2011 10:01 68.2	18/10/2011 17:01 66.8	24/10/2011 12:01 65.8	28/9/2011 20:46 64.6
30/9/2011 8:31 68.8	7/10/2011 15:31 68.1	13/10/2011 10:31 68.0	18/10/2011 17:31 65.6	24/10/2011 12:31 66.0	28/9/2011 20:51 64.5
30/9/2011 9:01 69.3	7/10/2011 16:01 67.9	13/10/2011 11:01 67.1	18/10/2011 18:01 65.0	24/10/2011 13:01 71.7	28/9/2011 20:56 64.5
30/9/2011 9:31 69.3	7/10/2011 16:31 70.0	13/10/2011 11:31 67.7	18/10/2011 18:31 63.5	24/10/2011 13:31 72.2	28/9/2011 21:01 64.6
30/9/2011 10:01 70.0	7/10/2011 17:01 70.3	13/10/2011 12:01 66.1	19/10/2011 7:01 64.8	24/10/2011 14:01 72.6	28/9/2011 21:06 64.5
30/9/2011 10:31 69.8	7/10/2011 17:31 67.3	13/10/2011 12:31 65.4	19/10/2011 7:31 66.7	24/10/2011 14:31 71.3	28/9/2011 21:11 64.4
30/9/2011 11:01 69.8	7/10/2011 18:01 65.0	13/10/2011 13:01 67.5	19/10/2011 8:01 65.8	24/10/2011 15:01 68.3	28/9/2011 21:16 64.9
30/9/2011 11:31 68.2	7/10/2011 18:31 64.4	13/10/2011 13:31 68.8	19/10/2011 8:31 71.2	24/10/2011 15:31 68.1	28/9/2011 21:21 64.6
30/9/2011 12:01 66.0	8/10/2011 7:01 65.1	13/10/2011 14:01 68.1	19/10/2011 9:01 71.8	24/10/2011 16:01 67.3	28/9/2011 21:26 64.6
30/9/2011 12:31 65.3	8/10/2011 7:31 65.6	13/10/2011 14:31 70.6	19/10/2011 9:31 71.9	24/10/2011 16:31 68.2	28/9/2011 21:31 64.5
30/9/2011 13:01 70.7	8/10/2011 8:01 65.6	13/10/2011 15:01 68.0	19/10/2011 10:01 72.2	24/10/2011 17:01 67.0	28/9/2011 21:36 64.2
30/9/2011 13:31 71.8	8/10/2011 8:31 68.1	13/10/2011 15:31 70.3	19/10/2011 10:31 71.6	24/10/2011 17:31 66.2	28/9/2011 21:41 64.7
30/9/2011 14:01 70.1	8/10/2011 9:01 68.8	13/10/2011 16:01 68.7	19/10/2011 11:01 69.5	24/10/2011 18:01 65.6	28/9/2011 21:46 64.5
30/9/2011 14:31 69.5	8/10/2011 9:31 68.8	13/10/2011 16:31 67.2	19/10/2011 11:31 67.9	24/10/2011 18:31 64.2	28/9/2011 21:51 64.4
30/9/2011 15:01 70.0	8/10/2011 10:01 70.1	13/10/2011 17:01 67.3	19/10/2011 12:01 65.1	25/10/2011 7:01 65.3	28/9/2011 21:56 64.2
30/9/2011 15:31 68.2	8/10/2011 10:31 69.8	13/10/2011 17:31 65.4	19/10/2011 12:31 65.5	25/10/2011 7:31 65.8	28/9/2011 22:01 64.6
30/9/2011 16:01 67.8	8/10/2011 11:01 69.3	13/10/2011 18:01 65.4	19/10/2011 13:01 69.2	25/10/2011 8:01 64.6	28/9/2011 22:06 64.4
30/9/2011 16:31 69.3	8/10/2011 11:31 66.9	13/10/2011 18:31 64.9	19/10/2011 13:31 69.7	25/10/2011 8:31 66.9	28/9/2011 22:11 64.1
30/9/2011 17:01 69.6	8/10/2011 12:01 65.2	14/10/2011 7:01 64.6	19/10/2011 14:01 69.7	25/10/2011 9:01 67.0	28/9/2011 22:16 64.0
30/9/2011 17:31 66.9	8/10/2011 12:31 65.4	14/10/2011 7:31 65.2	19/10/2011 14:31 68.6	25/10/2011 9:31 68.0	28/9/2011 22:21 64.1
30/9/2011 18:01 65.0	8/10/2011 13:01 66.2	14/10/2011 8:01 64.6	19/10/2011 15:01 70.1	25/10/2011 10:01 67.8	28/9/2011 22:26 63.9
30/9/2011 18:31 64.5	8/10/2011 13:31 69.0	14/10/2011 8:31 66.0	19/10/2011 15:31 67.4	25/10/2011 10:31 69.5	28/9/2011 22:31 64.0
3/10/2011 7:01 65.0	8/10/2011 14:01 70.5	14/10/2011 9:01 66.5	19/10/2011 16:01 70.1	25/10/2011 11:01 68.4	28/9/2011 22:36 64.3
3/10/2011 7:31 65.5	8/10/2011 14:31 68.1	14/10/2011 9:31 66.4	19/10/2011 16:31 69.0	25/10/2011 11:31 69.3	28/9/2011 22:41 64.1
3/10/2011 8:01 66.1	8/10/2011 15:01 72.1	14/10/2011 10:01 62.9	19/10/2011 17:01 66.9	25/10/2011 12:01 65.6	28/9/2011 22:46 63.8
3/10/2011 8:31 68.5	8/10/2011 15:31 68.8	14/10/2011 10:31 70.5	19/10/2011 17:31 65.8	25/10/2011 12:31 65.2	28/9/2011 22:51 64.3
3/10/2011 9:01 68.7	8/10/2011 16:01 68.1	14/10/2011 11:01 66.9	19/10/2011 18:01 65.1	25/10/2011 13:01 67.1	28/9/2011 22:56 64.5
3/10/2011 9:31 69.0	8/10/2011 16:31 68.4	14/10/2011 11:31 67.5	19/10/2011 18:31 64.4	25/10/2011 13:31 68.9	29/9/2011 19:01 63.9
3/10/2011 10:01 68.9	8/10/2011 17:01 67.1	14/10/2011 12:01 66.3	20/10/2011 7:01 65.2	25/10/2011 14:01 67.7	29/9/2011 19:06 64.0
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3/10/2011 11:01 69.5	8/10/2011 18:01 64.2	14/10/2011 13:01 68.7	20/10/2011 8:01 67.2	25/10/2011 15:01 70.3	29/9/2011 19:16 64.3
3/10/2011 11:31 68.9	8/10/2011 18:31 63.9	14/10/2011 13:31 67.6	20/10/2011 8:31 70.2	25/10/2011 15:31 70.4	29/9/2011 19:21 64.4
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3/10/2011 15:01 67.5	10/10/2011 10:01 68.0	14/10/2011 17:01 69.5	20/10/2011 12:01 66.5	26/10/2011 7:01 64.4	29/9/2011 19:56 64.4
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Real-time Noise Data RTI	N1 (FEHD Hong Kong Transport	Section Whitefield Depot			
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29/9/2011 22:01 64.1	1/10/2011 11:11 64.0	1/10/2011 20:21 63.7	2/10/2011 13:31 65.5	2/10/2011 22:41 63.7	5/10/2011 7:51 63.5
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1/10/2011 8:06 63.5	1/10/2011 17:16 64.8	2/10/2011 10:26 64.5	2/10/2011 19:36 64.3	4/10/2011 20:46 64.6	5/10/2011 13:56 65.2
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Real-time Noise Data RTI	N1 (FEHD Hong Kong Transport	Section Whitefield Depot)			
5/10/2011 16:41 64.6	6/10/2011 21:46 64.4	8/10/2011 22:56 63.4	9/10/2011 16:06 65.1	10/10/2011 21:16 63.8	12/10/2011 22:26 63.2
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23/10/2011 4:06 60.2	24/10/2011 5:16 59.7	25/10/2011 6:26 63.7	26/10/2011 23:36 63.3	
23/10/2011 4:11 59.5	24/10/2011 5:21 59.0	25/10/2011 6:31 63.0	26/10/2011 23:41 63.5	
23/10/2011 4:16 59.1	24/10/2011 5:26 58.9	25/10/2011 6:36 64.2	26/10/2011 23:46 62.7	
23/10/2011 4:21 59.7	24/10/2011 5:31 59.6	25/10/2011 6:41 64.5	26/10/2011 23:51 63.1	
23/10/2011 4:26 59.9	24/10/2011 5:36 59.7	25/10/2011 6:46 64.3	26/10/2011 23:56 62.8	
23/10/2011 4:31 60.3	24/10/2011 5:41 60.6	25/10/2011 6:51 64.4	27/10/2011 0:01 63.0	
23/10/2011 4:36 59.9	24/10/2011 5:46 60.8	25/10/2011 6:56 65.3	27/10/2011 0:06 62.6	
23/10/2011 4:41 59.3	24/10/2011 5:51 59.6	25/10/2011 23:01 63.4	27/10/2011 0:11 62.8	
23/10/2011 4:46 59.2	24/10/2011 5:56 61.5	25/10/2011 23:06 63.5	27/10/2011 0:16 62.8	
23/10/2011 4:51 59.3	24/10/2011 6:01 61.6	25/10/2011 23:11 64.4	27/10/2011 0:21 62.5	
23/10/2011 4:56 59.5	24/10/2011 6:06 62.0	25/10/2011 23:16 63.6	27/10/2011 0:26 62.5	
23/10/2011 5:01 60.6	24/10/2011 6:11 61.8	25/10/2011 23:21 63.4	27/10/2011 0:31 62.2	
23/10/2011 5:06 59.5	24/10/2011 6:16 62.2	25/10/2011 23:26 63.1	27/10/2011 0:36 61.9	
23/10/2011 5:11 59.6	24/10/2011 6:21 63.0	25/10/2011 23:31 63.3	27/10/2011 0:41 61.2	
23/10/2011 5:16 59.8	24/10/2011 6:26 63.2	25/10/2011 23:36 63.0	27/10/2011 0:46 61.9	
23/10/2011 5:21 59.1	24/10/2011 6:31 64.0	25/10/2011 23:41 62.8	27/10/2011 0:51 61.2	
23/10/2011 5:26 59.5	24/10/2011 6:36 63.6	25/10/2011 23:46 63.0	27/10/2011 0:56 61.7	
23/10/2011 5:31 59.7	24/10/2011 6:41 64.4	25/10/2011 23:51 63.1	27/10/2011 1:01 60.6	
23/10/2011 5:36 60.3	24/10/2011 6:46 63.9	25/10/2011 23:56 63.0	27/10/2011 1:06 60.9	
23/10/2011 5:41 60.2	24/10/2011 6:51 64.2	26/10/2011 0:01 63.6	27/10/2011 1:11 60.9	
23/10/2011 5:46 60.4	24/10/2011 6:56 64.6	26/10/2011 0:06 62.8	27/10/2011 1:16 60.7	
23/10/2011 5:51 60.7	24/10/2011 23:01 63.2	26/10/2011 0:11 63.4	27/10/2011 1:21 60.6	
23/10/2011 5:56 60.6	24/10/2011 23:06 62.8	26/10/2011 0:16 62.4	27/10/2011 1:26 60.2	
23/10/2011 6:01 60.2	24/10/2011 23:11 63.2	26/10/2011 0:21 62.4	27/10/2011 1:31 60.3	
23/10/2011 6:06 61.3	24/10/2011 23:16 63.5	26/10/2011 0:26 62.3	27/10/2011 1:36 60.4	
23/10/2011 6:11 61.6	24/10/2011 23:21 62.8	26/10/2011 0:31 61.9	27/10/2011 1:41 60.6	
23/10/2011 6:16 64.9	24/10/2011 23:26 62.5	26/10/2011 0:36 61.4	27/10/2011 1:46 60.2	
23/10/2011 6:21 62.2	24/10/2011 23:31 62.9	26/10/2011 0:41 60.2	27/10/2011 1:51 60.0	
23/10/2011 6:26 62.1	24/10/2011 23:36 63.2	26/10/2011 0:46 61.4	27/10/2011 1:56 60.2	
23/10/2011 6:31 61.1	24/10/2011 23:41 63.9	26/10/2011 0:51 60.9	27/10/2011 2:01 59.9	
23/10/2011 6:36 62.1	24/10/2011 23:46 61.9	26/10/2011 0:56 59.9	27/10/2011 2:06 59.6	
23/10/2011 6:41 62.5	24/10/2011 23:51 62.1	26/10/2011 1:01 59.5	27/10/2011 2:11 59.5	
23/10/2011 6:46 62.4	24/10/2011 23:56 62.4	26/10/2011 1:06 60.7	27/10/2011 2:16 59.6	
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23/10/2011 23:01 62.9 23/10/2011 23:06 62.3	25/10/2011 0:16 63.0	26/10/2011 1:26 59.3	27/10/2011 2:36 59.1	
23/10/2011 23:11 63.2	25/10/2011 0:21 62.3	26/10/2011 1:31 59.4	27/10/2011 2:41 59.2	
23/10/2011 23:16 63.4	25/10/2011 0:26 62.6	26/10/2011 1:36 59.3	27/10/2011 2:46 59.3	
23/10/2011 23:21 62.3	25/10/2011 0:31 62.5	26/10/2011 1:41 60.0	27/10/2011 2:51 59.9	
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23/10/2011 23:31 62.1	25/10/2011 0:41 60.9	26/10/2011 1:51 59.5	27/10/2011 3:01 58.8	
23/10/2011 23:36 62.3	25/10/2011 0:46 61.4	26/10/2011 1:56 59.9	27/10/2011 3:06 59.0	
23/10/2011 23:41 62.1	25/10/2011 0:51 60.5	26/10/2011 2:01 59.7	27/10/2011 3:11 59.1	
23/10/2011 23:46 63.0	25/10/2011 0:56 61.8	26/10/2011 2:06 58.5	27/10/2011 3:16 59.1	
23/10/2011 23:51 62.1	25/10/2011 1:01 60.0	26/10/2011 2:11 59.6	27/10/2011 3:21 59.0	
23/10/2011 23:56 62.1	25/10/2011 1:06 60.8	26/10/2011 2:16 59.9	27/10/2011 3:26 58.7	
24/10/2011 0:01 62.7	25/10/2011 1:11 61.1	26/10/2011 2:21 60.3	27/10/2011 3:31 58.8	
24/10/2011 0:06 62.1	25/10/2011 1:16 60.6	26/10/2011 2:26 60.1	27/10/2011 3:36 59.4	
24/10/2011 0:11 62.3	25/10/2011 1:21 60.3	26/10/2011 2:31 59.1	27/10/2011 3:41 59.7	
24/10/2011 0:16 62.8	25/10/2011 1:26 60.0	26/10/2011 2:36 58.6	27/10/2011 3:46 58.9	
24/10/2011 0:21 61.8	25/10/2011 1:31 60.4	26/10/2011 2:41 58.6	27/10/2011 3:51 60.1	
24/10/2011 0:26 62.2	25/10/2011 1:36 61.0	26/10/2011 2:46 59.2	27/10/2011 3:56 58.9	
24/10/2011 0:31 61.2	25/10/2011 1:41 60.8	26/10/2011 2:51 61.4	27/10/2011 4:01 58.8	
2-10/2011 0.31 01.2	20/10/2011 1.41 00.0	20/10/2011 2.31 01.4	121/10/2011 4.01 30.0	ļ

Real-time Noise Data RTN	I2 (Oil Street Community Liaison	Centre)			
Normal Day 07:00-19:00	4/10/2011 13:31 67.3	11/10/2011 8:31 71.3	15/10/2011 15:31 69.7	21/10/2011 10:31 71.1	26/10/2011 17:31 68.2
28/9/2011 7:01 62.9	4/10/2011 14:01 73.2	11/10/2011 9:01 72.8	15/10/2011 16:01 70.1	21/10/2011 11:01 71.8	26/10/2011 18:01 67.6
28/9/2011 7:31 64.2	4/10/2011 14:31 71.9	11/10/2011 9:31 71.8	15/10/2011 16:31 69.5	21/10/2011 11:31 69.6	26/10/2011 18:31 66.6
28/9/2011 8:01 70.5	4/10/2011 15:01 72.6	11/10/2011 10:01 72.5	15/10/2011 17:01 69.8	21/10/2011 12:01 66.6	27/10/2011 7:01 63.4
28/9/2011 8:31 71.6	4/10/2011 15:31 72.8	11/10/2011 10:31 72.9	15/10/2011 17:31 69.8	21/10/2011 12:31 68.2	27/10/2011 7:31 64.6
28/9/2011 9:01 66.3	4/10/2011 16:01 69.7	11/10/2011 11:01 72.5	15/10/2011 18:01 67.5	21/10/2011 13:01 69.7	27/10/2011 8:01 68.1
28/9/2011 9:31 71.1	4/10/2011 16:31 70.6	11/10/2011 11:31 71.2	15/10/2011 18:31 63.7	21/10/2011 13:31 65.2	27/10/2011 8:31 66.7
28/9/2011 10:01 67.4	4/10/2011 17:01 69.6	11/10/2011 12:01 66.3	17/10/2011 7:01 62.7	21/10/2011 14:01 66.5	27/10/2011 9:01 74.1
28/9/2011 10:31 64.4	4/10/2011 17:31 69.0	11/10/2011 12:31 67.4	17/10/2011 7:31 64.2	21/10/2011 14:31 72.0	27/10/2011 9:31 69.7
28/9/2011 11:01 65.4	4/10/2011 18:01 68.3	11/10/2011 13:01 73.2	17/10/2011 8:01 68.1	21/10/2011 15:01 73.2	27/10/2011 10:01 69.9
28/9/2011 11:31 70.7	4/10/2011 18:31 68.7	11/10/2011 13:31 72.6	17/10/2011 8:31 70.3	21/10/2011 15:31 73.1	27/10/2011 10:31 72.4
28/9/2011 12:01 67.9	6/10/2011 7:01 63.2	11/10/2011 14:01 72.4	17/10/2011 9:01 70.4	21/10/2011 16:01 72.8	27/10/2011 11:01 70.3
28/9/2011 12:31 67.9	6/10/2011 7:31 66.5	11/10/2011 14:31 57.7	17/10/2011 9:31 71.0	21/10/2011 16:31 73.1	27/10/2011 11:31 69.0
28/9/2011 13:01 70.8	6/10/2011 8:01 71.4	11/10/2011 15:01 64.1	17/10/2011 10:01 71.1	21/10/2011 17:01 62.7	27/10/2011 12:01 64.9
28/9/2011 13:31 62.9	6/10/2011 8:31 72.3	11/10/2011 15:31 72.2	17/10/2011 10:31 71.9	21/10/2011 17:31 70.7	27/10/2011 12:31 65.0
28/9/2011 14:01 69.2	6/10/2011 9:01 63.8	11/10/2011 16:01 72.9	17/10/2011 11:01 72.3	21/10/2011 18:01 65.6	27/10/2011 13:01 69.3
28/9/2011 14:31 57.5	6/10/2011 9:31 72.8	11/10/2011 16:31 72.8	17/10/2011 11:31 69.7	21/10/2011 18:31 64.3	27/10/2011 13:31 72.0
28/9/2011 15:01 72.2	6/10/2011 10:01 68.7	11/10/2011 17:01 63.9	17/10/2011 12:01 65.3	22/10/2011 7:01 63.1	27/10/2011 14:01 70.8
28/9/2011 15:31 71.5	6/10/2011 10:31 70.4	11/10/2011 17:31 69.7	17/10/2011 12:31 69.1	22/10/2011 7:31 65.8	27/10/2011 14:31 69.8
28/9/2011 16:01 72.8	6/10/2011 11:01 70.2	11/10/2011 18:01 67.8	17/10/2011 13:01 72.3	22/10/2011 8:01 66.2	27/10/2011 15:01 68.8
28/9/2011 16:31 72.5	6/10/2011 11:31 70.6	11/10/2011 18:31 65.5	17/10/2011 13:31 72.7	22/10/2011 8:31 66.1	27/10/2011 15:31 70.8
28/9/2011 17:01 72.5	6/10/2011 12:01 65.3	12/10/2011 7:01 67.0	17/10/2011 14:01 71.7	22/10/2011 9:01 73.2	27/10/2011 16:01 70.9
28/9/2011 17:31 69.2	6/10/2011 12:31 66.1	12/10/2011 7:31 65.4	17/10/2011 14:31 71.6	22/10/2011 9:31 72.7	27/10/2011 16:31 72.0
28/9/2011 18:01 68.1	6/10/2011 13:01 66.7	12/10/2011 8:01 70.4	17/10/2011 15:01 72.5	22/10/2011 10:01 72.3	27/10/2011 17:01 67.8
28/9/2011 18:31 65.8	6/10/2011 13:31 58.4	12/10/2011 8:31 58.6	17/10/2011 15:31 71.7	22/10/2011 10:31 73.2	27/10/2011 17:31 67.6
29/9/2011 7:01 61.8	6/10/2011 14:01 66.7	12/10/2011 9:01 72.7	17/10/2011 16:01 72.2	22/10/2011 11:01 72.3	27/10/2011 18:01 67.9
29/9/2011 7:31 61.2	6/10/2011 14:31 72.6	12/10/2011 9:31 70.6	17/10/2011 16:31 71.5	22/10/2011 11:31 71.0	27/10/2011 18:31 66.4
29/9/2011 8:01 62.2	6/10/2011 15:01 71.7	12/10/2011 10:01 70.2	17/10/2011 17:01 68.3	22/10/2011 12:01 64.8	Normal Day 19:00-23:00,
29/9/2011 8:31 62.0	6/10/2011 15:31 70.1	12/10/2011 10:31 70.4	17/10/2011 17:31 72.7	22/10/2011 12:31 64.9	
29/9/2011 9:01 61.5	6/10/2011 16:01 72.6	12/10/2011 11:01 73.0	17/10/2011 18:01 66.5	22/10/2011 13:01 71.5	Sunday & Holiday 07:00-23:00
29/9/2011 9:31 60.9	6/10/2011 16:31 70.2	12/10/2011 11:31 69.9	17/10/2011 18:31 66.2	22/10/2011 13:31 73.2	28/9/2011 19:01 64.2
29/9/2011 10:01 64.9	6/10/2011 17:01 69.7	12/10/2011 12:01 66.3	18/10/2011 7:01 64.1	22/10/2011 14:01 71.2	28/9/2011 19:06 64.3
29/9/2011 10:31 62.6	6/10/2011 17:31 68.7	12/10/2011 12:31 65.1	18/10/2011 7:31 65.4	22/10/2011 14:31 71.3	28/9/2011 19:11 62.9
29/9/2011 11:01 61.2	6/10/2011 18:01 65.2	12/10/2011 13:01 71.2	18/10/2011 8:01 72.0	22/10/2011 15:01 68.6	28/9/2011 19:16 62.6
29/9/2011 11:31 60.6	6/10/2011 18:31 64.2	12/10/2011 13:31 71.9	18/10/2011 8:31 72.9	22/10/2011 15:31 67.7	28/9/2011 19:21 62.1
29/9/2011 12:01 61.0	7/10/2011 7:01 63.2	12/10/2011 14:01 73.3	18/10/2011 9:01 71.5	22/10/2011 16:01 65.2	28/9/2011 19:26 62.5
29/9/2011 12:31 61.1	7/10/2011 7:31 65.9	12/10/2011 14:31 69.0	18/10/2011 9:31 73.8	22/10/2011 16:31 62.5	28/9/2011 19:31 62.2
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29/9/2011 14:01 61.6	7/10/2011 9:01 63.4	12/10/2011 16:01 74.2	18/10/2011 11:01 73.4	22/10/2011 18:01 65.2	28/9/2011 19:46 63.6
29/9/2011 14:31 61.9	7/10/2011 9:31 56.6	12/10/2011 16:31 73.5	18/10/2011 11:31 71.0	22/10/2011 18:31 63.9	28/9/2011 19:51 63.8
29/9/2011 15:01 65.1	7/10/2011 10:01 69.1	12/10/2011 17:01 73.2	18/10/2011 12:01 67.3	24/10/2011 7:01 63.4	28/9/2011 19:56 63.0
29/9/2011 15:31 66.9	7/10/2011 10:31 58.7	12/10/2011 17:31 72.2	18/10/2011 12:31 70.2	24/10/2011 7:31 63.4	28/9/2011 20:01 63.0
29/9/2011 16:01 63.4	7/10/2011 11:01 72.2	12/10/2011 18:01 68.1	18/10/2011 13:01 74.3	24/10/2011 8:01 70.9	28/9/2011 20:06 63.3
29/9/2011 16:31 63.3	7/10/2011 11:31 70.3	12/10/2011 18:31 64.1	18/10/2011 13:31 71.5	24/10/2011 8:31 65.1	28/9/2011 20:11 64.5
29/9/2011 17:01 63.2	7/10/2011 12:01 64.8	13/10/2011 7:01 63.4	18/10/2011 14:01 72.9	24/10/2011 9:01 71.5	28/9/2011 20:16 63.9
29/9/2011 17:31 63.5	7/10/2011 12:31 67.6	13/10/2011 7:31 63.4	18/10/2011 14:31 72.9	24/10/2011 9:31 70.6	28/9/2011 20:21 64.8
29/9/2011 18:01 63.1	7/10/2011 13:01 71.4	13/10/2011 8:01 64.9	18/10/2011 15:01 73.5	24/10/2011 10:01 68.9	28/9/2011 20:26 63.3
29/9/2011 18:31 63.2	7/10/2011 13:31 55.0	13/10/2011 8:31 69.0	18/10/2011 15:31 73.4	24/10/2011 10:31 70.2	28/9/2011 20:31 63.7
30/9/2011 7:01 66.0	7/10/2011 14:01 70.3	13/10/2011 9:01 68.2	18/10/2011 16:01 72.1	24/10/2011 11:01 71.7	28/9/2011 20:36 63.2
30/9/2011 7:31 68.9	7/10/2011 14:31 64.7	13/10/2011 9:31 67.7	18/10/2011 16:31 71.1	24/10/2011 11:31 69.2	28/9/2011 20:41 64.0
30/9/2011 8:01 68.8	7/10/2011 15:01 71.5	13/10/2011 10:01 72.0	18/10/2011 17:01 70.1	24/10/2011 12:01 64.3	28/9/2011 20:46 63.5
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30/9/2011 10:01 66.9	7/10/2011 17:01 65.2	13/10/2011 12:01 65.0	19/10/2011 7:01 64.5	24/10/2011 14:01 70.5	28/9/2011 21:06 62.7
30/9/2011 10:31 67.9	7/10/2011 17:31 70.9	13/10/2011 12:31 65.9	19/10/2011 7:31 64.8	24/10/2011 14:31 70.8	28/9/2011 21:11 62.5
30/9/2011 11:01 61.8	7/10/2011 18:01 68.8	13/10/2011 13:01 72.2	19/10/2011 8:01 69.8	24/10/2011 15:01 71.5	28/9/2011 21:16 64.5
30/9/2011 11:31 71.0	7/10/2011 18:31 69.6	13/10/2011 13:31 72.9	19/10/2011 8:31 71.5	24/10/2011 15:31 69.1	28/9/2011 21:21 63.2
30/9/2011 12:01 66.9	8/10/2011 7:01 62.8	13/10/2011 14:01 71.0	19/10/2011 9:01 57.1	24/10/2011 16:01 69.2	28/9/2011 21:26 64.5
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30/9/2011 13:01 71.6	8/10/2011 8:01 63.3	13/10/2011 15:01 68.7	19/10/2011 10:01 65.7	24/10/2011 17:01 71.1	28/9/2011 21:36 63.1
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30/9/2011 17:01 72.0	8/10/2011 12:01 67.1	14/10/2011 7:01 63.4	19/10/2011 14:01 63.0	25/10/2011 9:01 70.3	28/9/2011 22:16 63.5
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30/9/2011 18:01 67.1	8/10/2011 13:01 71.5	14/10/2011 8:01 72.2	19/10/2011 15:01 72.6	25/10/2011 10:01 69.9	28/9/2011 22:26 64.4
30/9/2011 18:31 66.1	8/10/2011 13:31 64.2	14/10/2011 8:31 68.6	19/10/2011 15:31 73.1	25/10/2011 10:31 69.1	28/9/2011 22:31 63.6
3/10/2011 7:01 63.2	8/10/2011 14:01 67.5	14/10/2011 9:01 71.0	19/10/2011 16:01 73.2	25/10/2011 11:01 69.1	28/9/2011 22:36 64.0
3/10/2011 7:31 64.9	8/10/2011 14:31 67.3	14/10/2011 9:31 71.4	19/10/2011 16:31 72.3	25/10/2011 11:31 67.3	28/9/2011 22:41 63.2
3/10/2011 8:01 70.3	8/10/2011 15:01 64.0	14/10/2011 10:01 69.9	19/10/2011 17:01 71.9	25/10/2011 12:01 64.2	28/9/2011 22:46 63.6
3/10/2011 8:31 72.2	8/10/2011 15:31 69.5	14/10/2011 10:31 71.5	19/10/2011 17:31 68.8	25/10/2011 12:31 64.4	28/9/2011 22:51 63.3
3/10/2011 9:01 71.8	8/10/2011 16:01 70.1	14/10/2011 11:01 70.4	19/10/2011 18:01 66.6	25/10/2011 13:01 70.1	28/9/2011 22:56 63.5
3/10/2011 9:31 72.2	8/10/2011 16:31 72.6	14/10/2011 11:31 71.5	19/10/2011 18:31 65.5	25/10/2011 13:31 70.2	29/9/2011 19:01 62.9
3/10/2011 10:01 72.6	8/10/2011 17:01 74.7	14/10/2011 12:01 67.8	20/10/2011 7:01 63.3	25/10/2011 14:01 69.7	29/9/2011 19:06 62.8
3/10/2011 10:31 72.1	8/10/2011 17:31 73.1	14/10/2011 12:31 69.6	20/10/2011 7:31 64.7	25/10/2011 14:31 71.2	29/9/2011 19:11 62.8
3/10/2011 11:01 72.0	8/10/2011 18:01 71.6	14/10/2011 13:01 70.1	20/10/2011 8:01 69.7	25/10/2011 15:01 72.1	29/9/2011 19:16 62.2
3/10/2011 11:31 70.1	8/10/2011 18:31 73.3	14/10/2011 13:31 71.0	20/10/2011 8:31 71.0	25/10/2011 15:31 70.3	29/9/2011 19:21 62.7
3/10/2011 12:01 66.7	10/10/2011 7:01 62.2	14/10/2011 14:01 72.5	20/10/2011 9:01 70.3	25/10/2011 16:01 70.2	29/9/2011 19:26 62.6
3/10/2011 12:31 66.9	10/10/2011 7:31 63.6	14/10/2011 14:31 69.9	20/10/2011 9:31 71.4	25/10/2011 16:31 68.7	29/9/2011 19:31 62.5
3/10/2011 13:01 71.5	10/10/2011 8:01 70.6	14/10/2011 15:01 70.1	20/10/2011 10:01 71.0	25/10/2011 17:01 67.7	29/9/2011 19:36 62.1
3/10/2011 13:31 73.3	10/10/2011 8:31 69.2	14/10/2011 15:31 71.5	20/10/2011 10:31 71.5	25/10/2011 17:31 69.6	29/9/2011 19:41 62.4
3/10/2011 14:01 72.5	10/10/2011 9:01 63.3	14/10/2011 16:01 74.2	20/10/2011 11:01 71.9	25/10/2011 18:01 68.6	29/9/2011 19:46 62.4
3/10/2011 14:31 72.8	10/10/2011 9:31 72.5	14/10/2011 16:31 69.6	20/10/2011 11:31 68.4	25/10/2011 18:31 67.9	29/9/2011 19:51 63.0
3/10/2011 15:01 71.7	10/10/2011 10:01 72.6	14/10/2011 17:01 68.4	20/10/2011 12:01 65.3	26/10/2011 7:01 62.4	29/9/2011 19:56 62.4
3/10/2011 15:31 72.0	10/10/2011 10:31 72.4	14/10/2011 17:31 69.9	20/10/2011 12:31 65.7	26/10/2011 7:31 64.2	29/9/2011 20:01 62.3
3/10/2011 16:01 72.0	10/10/2011 11:01 70.9	14/10/2011 18:01 66.3	20/10/2011 13:01 73.1	26/10/2011 8:01 68.5	29/9/2011 20:06 62.5
3/10/2011 16:31 72.3	10/10/2011 11:31 58.9	14/10/2011 18:31 63.8	20/10/2011 13:31 70.2	26/10/2011 8:31 70.3	29/9/2011 20:11 61.8
3/10/2011 17:01 72.0	10/10/2011 12:01 67.8	15/10/2011 7:01 62.5	20/10/2011 14:01 71.4	26/10/2011 9:01 70.1	29/9/2011 20:16 62.5
3/10/2011 17:31 67.7	10/10/2011 12:31 65.5	15/10/2011 7:31 64.3	20/10/2011 14:31 71.4	26/10/2011 9:31 70.5	29/9/2011 20:21 62.6
3/10/2011 18:01 64.3	10/10/2011 13:01 71.0	15/10/2011 8:01 71.5	20/10/2011 15:01 69.8	26/10/2011 10:01 70.0	29/9/2011 20:26 62.5
3/10/2011 18:31 63.2	10/10/2011 13:31 70.7	15/10/2011 8:31 60.1	20/10/2011 15:31 72.1	26/10/2011 10:31 70.3	29/9/2011 20:31 61.9
4/10/2011 7:01 63.5	10/10/2011 14:01 67.1	15/10/2011 9:01 72.6	20/10/2011 16:01 71.1	26/10/2011 11:01 70.5	29/9/2011 20:36 62.3
4/10/2011 7:31 64.1	10/10/2011 14:31 73.3	15/10/2011 9:31 66.9	20/10/2011 16:31 70.3	26/10/2011 11:31 67.8	29/9/2011 20:41 61.8
4/10/2011 8:01 69.4	10/10/2011 15:01 62.2	15/10/2011 10:01 71.3	20/10/2011 17:01 69.9	26/10/2011 12:01 67.8	29/9/2011 20:46 62.4
4/10/2011 8:31 59.8	10/10/2011 15:31 73.0	15/10/2011 10:31 71.2	20/10/2011 17:31 69.6	26/10/2011 12:31 67.4	29/9/2011 20:51 61.8
4/10/2011 9:01 71.0	10/10/2011 16:01 67.7	15/10/2011 11:01 54.4	20/10/2011 18:01 68.4	26/10/2011 13:01 69.7	29/9/2011 20:56 62.5
4/10/2011 9:31 59.0	10/10/2011 16:31 73.2	15/10/2011 11:31 70.4	20/10/2011 18:31 67.3	26/10/2011 13:31 71.2	29/9/2011 21:01 62.5
4/10/2011 10:01 65.9	10/10/2011 17:01 43.6	15/10/2011 12:01 65.9	21/10/2011 7:01 64.4	26/10/2011 14:01 68.3	29/9/2011 21:06 62.2
4/10/2011 10:31 73.0	10/10/2011 17:31 69.0	15/10/2011 12:31 66.0	21/10/2011 7:31 66.3	26/10/2011 14:31 68.6	29/9/2011 21:11 62.1
4/10/2011 11:01 72.4	10/10/2011 18:01 67.7	15/10/2011 13:01 71.4	21/10/2011 8:01 72.6	26/10/2011 15:01 70.6	29/9/2011 21:16 62.5
4/10/2011 11:31 71.3	10/10/2011 18:31 67.1	15/10/2011 13:31 71.0	21/10/2011 8:31 63.9	26/10/2011 15:31 69.7	29/9/2011 21:21 61.8
4/10/2011 12:01 66.4	11/10/2011 7:01 63.6	15/10/2011 14:01 71.0	21/10/2011 9:01 0.0	26/10/2011 16:01 70.8	29/9/2011 21:26 62.4
4/10/2011 12:31 67.0	11/10/2011 7:31 65.0	15/10/2011 14:31 70.9	21/10/2011 9:31 0.0	26/10/2011 16:31 70.0	29/9/2011 21:31 62.1
4/10/2011 13:01 71.8	11/10/2011 8:01 70.5	15/10/2011 15:01 71.1	21/10/2011 10:01 70.9	26/10/2011 17:01 69.3	29/9/2011 21:36 61.8

Real-time Noise Data RT	N2 (Oil Street Community Liaisc	on Centre)			
29/9/2011 21:41 62.1	1/10/2011 10:51 66.6	1/10/2011 20:01 64.0	2/10/2011 13:11 65.5	2/10/2011 22:21 62.1	5/10/2011 7:31 61.0
29/9/2011 21:46 61.8	1/10/2011 10:56 63.5	1/10/2011 20:06 62.3	2/10/2011 13:16 65.3	2/10/2011 22:26 61.7	5/10/2011 7:36 61.2
29/9/2011 21:51 62.3	1/10/2011 11:01 66.4	1/10/2011 20:11 61.2	2/10/2011 13:21 65.1	2/10/2011 22:31 61.6	5/10/2011 7:41 62.7
29/9/2011 21:56 61.8	1/10/2011 11:06 66.4	1/10/2011 20:16 61.2	2/10/2011 13:26 66.5	2/10/2011 22:36 61.5	5/10/2011 7:46 62.9
29/9/2011 22:01 61.7	1/10/2011 11:11 64.4	1/10/2011 20:21 60.5	2/10/2011 13:31 65.8	2/10/2011 22:41 62.0	5/10/2011 7:51 64.2
29/9/2011 22:06 62.0	1/10/2011 11:16 66.2	1/10/2011 20:26 61.5	2/10/2011 13:36 65.4	2/10/2011 22:46 62.0	5/10/2011 7:56 63.1
29/9/2011 22:11 62.5	1/10/2011 11:21 63.4	1/10/2011 20:31 64.8	2/10/2011 13:41 66.0	2/10/2011 22:51 61.3	5/10/2011 8:01 62.6
29/9/2011 22:16 62.5	1/10/2011 11:26 66.6	1/10/2011 20:36 61.4	2/10/2011 13:46 65.1	2/10/2011 22:56 61.7	5/10/2011 8:06 63.0
29/9/2011 22:21 61.8	1/10/2011 11:31 62.6	1/10/2011 20:41 60.9	2/10/2011 13:51 65.1	3/10/2011 19:01 63.8	5/10/2011 8:11 63.3
29/9/2011 22:26 62.3	1/10/2011 11:36 65.7	1/10/2011 20:46 61.6	2/10/2011 13:56 63.9	3/10/2011 19:06 64.3	5/10/2011 8:16 63.7
29/9/2011 22:31 62.7	1/10/2011 11:41 62.4	1/10/2011 20:51 60.4	2/10/2011 14:01 64.3	3/10/2011 19:11 63.2	5/10/2011 8:21 64.5
29/9/2011 22:36 62.4	1/10/2011 11:46 63.6	1/10/2011 20:56 61.9	2/10/2011 14:06 64.5	3/10/2011 19:16 62.7	5/10/2011 8:26 64.3
29/9/2011 22:41 61.7	1/10/2011 11:51 62.6	1/10/2011 21:01 62.0	2/10/2011 14:11 63.7	3/10/2011 19:21 63.2	5/10/2011 8:31 64.9
29/9/2011 22:46 61.6	1/10/2011 11:56 62.6	1/10/2011 21:06 62.2	2/10/2011 14:16 62.5	3/10/2011 19:26 62.0	5/10/2011 8:36 64.8
29/9/2011 22:51 62.2	1/10/2011 12:01 61.9	1/10/2011 21:11 61.6	2/10/2011 14:21 62.8	3/10/2011 19:31 63.5	5/10/2011 8:41 64.7
29/9/2011 22:56 62.0	1/10/2011 12:06 62.3	1/10/2011 21:16 61.1	2/10/2011 14:26 64.0	3/10/2011 19:36 63.6	5/10/2011 8:46 66.5
30/9/2011 19:01 66.7	1/10/2011 12:16 61.8	1/10/2011 21:21 62.1	2/10/2011 14:31 65.2	3/10/2011 19:41 63.0	5/10/2011 8:51 64.2
30/9/2011 19:06 65.7		1/10/2011 21:26 61.1	2/10/2011 14:36 65.6	3/10/2011 19:46 63.5	5/10/2011 8:56 67.1
30/9/2011 19:11 65.3	1/10/2011 12:21 62.3	1/10/2011 21:31 61.6	2/10/2011 14:41 65.8	3/10/2011 19:51 63.0	5/10/2011 9:01 66.1
30/9/2011 19:16 65.1	1/10/2011 12:26 62.2	1/10/2011 21:36 60.7	2/10/2011 14:46 65.8	3/10/2011 19:56 63.1	5/10/2011 9:06 66.9
30/9/2011 19:21 65.8	1/10/2011 12:31 63.2	1/10/2011 21:41 61.4	2/10/2011 14:51 64.5	3/10/2011 20:01 63.3	5/10/2011 9:11 68.6
30/9/2011 19:26 65.1	1/10/2011 12:36 62.9	1/10/2011 21:46 60.7	2/10/2011 14:56 63.0	3/10/2011 20:06 64.1	5/10/2011 9:16 66.2
30/9/2011 19:31 65.2	1/10/2011 12:41 65.4	1/10/2011 21:51 61.5	2/10/2011 15:01 63.1	3/10/2011 20:11 63.8	5/10/2011 9:21 66.1
30/9/2011 19:36 64.7	1/10/2011 12:46 64.4	1/10/2011 21:56 61.6	2/10/2011 15:06 63.3	3/10/2011 20:16 63.9	5/10/2011 9:26 64.3
30/9/2011 19:41 64.3	1/10/2011 12:51 63.4	1/10/2011 22:01 61.7	2/10/2011 15:11 62.9	3/10/2011 20:21 63.4	5/10/2011 9:31 64.8
30/9/2011 19:46 64.5	1/10/2011 12:56 64.9	1/10/2011 22:06 65.5	2/10/2011 15:16 62.7	3/10/2011 20:26 63.6	5/10/2011 9:36 65.8
30/9/2011 19:51 65.2	1/10/2011 13:01 66.0	1/10/2011 22:11 61.4	2/10/2011 15:21 62.2	3/10/2011 20:31 63.3	5/10/2011 9:41 65.0
30/9/2011 19:56 65.4	1/10/2011 13:06 65.0	1/10/2011 22:16 64.0	2/10/2011 15:26 62.8	3/10/2011 20:36 63.8	5/10/2011 9:46 65.1
30/9/2011 20:01 65.0 30/9/2011 20:06 64.3	1/10/2011 13:16 65.7	1/10/2011 22:21 61.6 1/10/2011 22:26 61.5	2/10/2011 15:36 63.6	3/10/2011 20:46 62.7	5/10/2011 9:56 64.7
30/9/2011 20:11 64.1	1/10/2011 13:21 62.8	1/10/2011 22:31 63.3	2/10/2011 15:41 64.0	3/10/2011 20:51 63.2	5/10/2011 10:01 64.3
30/9/2011 20:16 65.1	1/10/2011 13:26 65.9	1/10/2011 22:36 62.2	2/10/2011 15:46 64.5	3/10/2011 20:56 63.1	5/10/2011 10:06 64.4
30/9/2011 20:21 65.1	1/10/2011 13:31 63.6	1/10/2011 22:41 63.0	2/10/2011 15:51 65.1	3/10/2011 21:01 62.7	5/10/2011 10:11 64.3
30/9/2011 20:26 65.4	1/10/2011 13:36 64.5	1/10/2011 22:46 61.5	2/10/2011 15:56 65.2	3/10/2011 21:06 62.7	5/10/2011 10:16 64.9
30/9/2011 20:31 64.9	1/10/2011 13:41 64.0	1/10/2011 22:51 62.5	2/10/2011 16:01 65.3	3/10/2011 21:11 63.1	5/10/2011 10:21 65.1
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30/9/2011 20:41 65.2		2/10/2011 7:01 61.0	2/10/2011 16:11 65.4	3/10/2011 21:21 63.3	5/10/2011 10:31 64.8
30/9/2011 20:46 64.8	1/10/2011 13:56 64.7	2/10/2011 7:06 61.3	2/10/2011 16:16 64.6	3/10/2011 21:26 63.1	5/10/2011 10:36 65.6
30/9/2011 20:51 64.4	1/10/2011 14:01 64.6	2/10/2011 7:11 61.2	2/10/2011 16:21 64.8	3/10/2011 21:31 63.2	5/10/2011 10:41 64.6
30/9/2011 20:56 63.2	1/10/2011 14:06 65.4	2/10/2011 7:16 61.9	2/10/2011 16:26 64.7	3/10/2011 21:36 62.9	5/10/2011 10:46 66.0
30/9/2011 21:01 62.9	1/10/2011 14:11 62.2	2/10/2011 7:21 61.0	2/10/2011 16:31 63.9	3/10/2011 21:41 63.1	5/10/2011 10:51 65.3
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30/9/2011 21:21 63.6	1/10/2011 14:31 62.3	2/10/2011 7:41 61.8	2/10/2011 16:51 63.2	3/10/2011 22:01 63.8	5/10/2011 11:11 65.1
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30/9/2011 22:26 61.6	1/10/2011 15:36 62.2	2/10/2011 8:46 64.5	2/10/2011 17:56 62.6	4/10/2011 19:06 68.1	5/10/2011 12:16 66.8
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Real-time Noise Data RT	N2 (Oil Street Community Liaiso	n Centre)			
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Real-time Noise Data	TN2 (Oil Street Community Liaisc	n Centre)			
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Real-time Noise Data RTI	N2 (Oil Street Community Liaiso	o Contro)			
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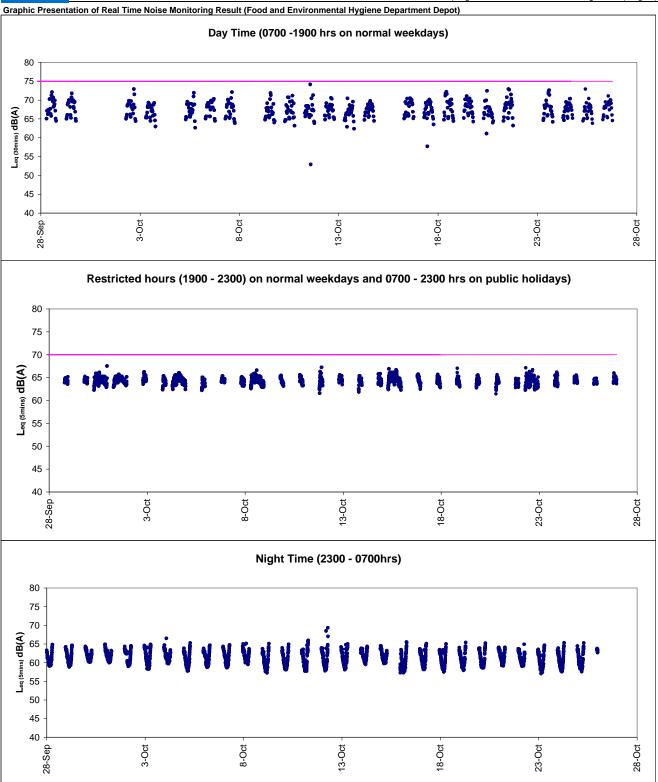
Real-time Noise Data RT	N2 (Oil Street Community Liais	on Centre)			
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23/10/2011 6:06 58.9	24/10/2011 23:16 61.3	26/10/2011 0:26 59.7	27/10/2011 1:36 59.3	
23/10/2011 6:11 59.1	24/10/2011 23:21 61.5	26/10/2011 0:31 59.3	27/10/2011 1:41 58.5	
23/10/2011 6:16 65.9	24/10/2011 23:26 61.3	26/10/2011 0:36 58.6	27/10/2011 1:46 59.3	
23/10/2011 6:21 59.9	24/10/2011 23:31 61.0	26/10/2011 0:41 57.8	27/10/2011 1:51 58.4	
23/10/2011 6:26 59.6	24/10/2011 23:36 60.9	26/10/2011 0:46 58.8	27/10/2011 1:56 58.7	
23/10/2011 6:31 59.0	24/10/2011 23:41 60.5	26/10/2011 0:51 58.4	27/10/2011 2:01 57.9	
23/10/2011 6:36 60.2	24/10/2011 23:46 59.6	26/10/2011 0:56 57.7	27/10/2011 2:06 57.4	
23/10/2011 6:41 60.3	24/10/2011 23:51 60.5	26/10/2011 1:01 57.2	27/10/2011 2:11 58.9	
23/10/2011 6:46 61.5	24/10/2011 23:56 60.0	26/10/2011 1:06 58.3	27/10/2011 2:16 57.7	
23/10/2011 6:51 62.0	25/10/2011 0:01 60.3	26/10/2011 1:11 57.1	27/10/2011 2:21 58.0	
23/10/2011 6:56 61.0	25/10/2011 0:06 59.8	26/10/2011 1:16 57.4	27/10/2011 2:26 58.3	
23/10/2011 23:01 61.1	25/10/2011 0:11 60.4	26/10/2011 1:21 58.2	27/10/2011 2:31 58.0	
23/10/2011 23:06 60.6	25/10/2011 0:16 60.4	26/10/2011 1:26 57.3	27/10/2011 2:36 58.9	
23/10/2011 23:11 60.6	25/10/2011 0:21 59.3	26/10/2011 1:31 58.0	27/10/2011 2:41 58.0	
23/10/2011 23:16 60.5	25/10/2011 0:26 61.1	26/10/2011 1:36 57.3	27/10/2011 2:46 57.3	
23/10/2011 23:21 60.2	25/10/2011 0:31 59.5	26/10/2011 1:41 57.5	27/10/2011 2:51 57.8	
23/10/2011 23:26 60.4	25/10/2011 0:36 59.0	26/10/2011 1:46 57.2	27/10/2011 2:56 57.8	
23/10/2011 23:31 59.7	25/10/2011 0:41 58.2	26/10/2011 1:51 57.4	27/10/2011 3:01 56.6	
20, 10, 2011 20.01 00.1	20, 10, 2011 0.41 00.2	120,10,2011 1.01 07.4	12.7.10,20110.01 00.0	I

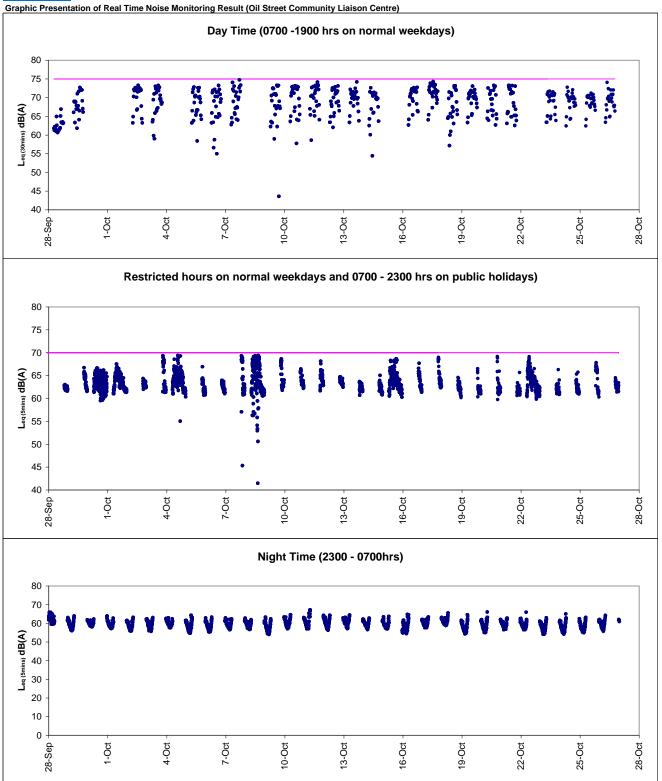
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Contract no. HK/2009/05 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 1)



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Contract no. HK/2009/05 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 1)





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION						
	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	ACTION								
	ET	IEC	ER	CONTRACTOR					
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	actions; 2. Review Contractor's remedial actions whenever necessary to	 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)	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	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W236	30-Sep-11	Mid-flood	WSD10	DO (mg/L)	5.84	3.17	2.63	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station, and water quality being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon signal no.8 on 29 Sep
				Turbidity	29.08	10.01	11.54	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities were transferring the fill material to backfilling area and installation the concrete blocks under water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition during the site inspection on 27 Sep and 4 Oct.
				Suspended Solid	44.00	16.26		Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the typhoon. The water monitoring results cannot represent the normal condition of water quality. It is concluded that the source of impact was due to the disturbance by the typhoon and not related to the project work.
X_W237	30-Sep-11	Mid-flood	WSD15	DO (mg/L)	4.54	3.17	2.63	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station, and water quality being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon signal no.8 on 29 Sep
				Turbidity	16.80	10.01	11.54	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities were transferring the fill material to backfilling area and installation the concrete blocks under water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition during the site inspection on 27 Sep and 4 Oct.
				Suspended Solid	20.00	16.26	19.74	Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the typhoon. The water monitoring results cannot represent the normal condition of water quality. It is concluded that the source of impact was due to the disturbance by the typhoon and not related to the project work.
X_W238	30-Sep-11	Mid-flood	WSD17	DO (mg/L)	5.50	3.17	2.63	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station, and water quality being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon signal no.8 on 29 Sep
				Turbidity	20.55	10.01	11.54	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities were transferring the fill material to backfilling area and installation the concrete blocks under water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition during the site inspection on 27 Sep and 4 Oct.
				Suspended Solid	31.00	16.26	19.74	Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the typhoon. The water monitoring results cannot represent the normal condition of water quality. It is concluded that the source of impact was due to the disturbance by the typhoon and not related to the project work.



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W239	30-Sep-11	Mid-flood	WSD20	DO (mg/L)	4.36	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	10.68	10.01	11.54	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Dredging works was observed at HKCEC during sampling.
				Suspended Solid	14.50	16.26	19.74	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site (M4w) were well below the Action level and the silt screen at WSD20 was in proper condition, the exceedance was considered not project related exceedance.
X_W240	30-Sep-11	Mid-ebb	WSD10	DO (mg/L)	5.72			Possible reason:	Accumulation of particles discharged from outfalls near monitoring station, and water quality being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon signal no.8 on 29 Sep
				Turbidity	12.80	10.01	11.54	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities were transferring the fill material to backfilling area and installation the concrete blocks under water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition during the site inspection on 27 Sep and 4 Oct.
				Suspended Solid	15.00	16.26	19.74	Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the typhoon. The water monitoring results cannot represent the normal condition of water quality. It is concluded that the source of impact was due to the disturbance by the typhoon and not related to the project work.
X_W241	30-Sep-11	Mid-ebb	WSD15	DO (mg/L)	5.70	3.17	2.63	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station, and water quality being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon signal no.8 on 29 Sep
				Turbidity	13.23	10.01	11.54	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities were transferring the fill material to backfilling area and installation the concrete blocks under water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition during the site inspection on 27 Sep and 4 Oct.
				Suspended Solid	11.00	16.26	19.74	Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the typhoon. The water monitoring results cannot represent the normal condition of water quality. It is concluded that the source of impact was due to the disturbance by the typhoon and not related to the project work.



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W242	30-Sep-11	Mid-ebb	WSD20	DO (mg/L)	5.87	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	17.13	10.01	11.54	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Checked with the results with monitoring stations near by this station (WSD7 and WSD19). No exceedance was found in them.
				Suspended Solid	23.50	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 and the silt screen at WSD20 was in proper condition, the exceedance was considered not project related exceedance.
X_W243	30-Sep-11	Mid-ebb	WSD21	DO (mg/L)	5.64	3.17	2.63	Possible reason:	Water quality being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon signal no.8 on 29 Sep
				Turbidity	11.08	10.01	11.54	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities were the filling and dredging for the pile casting at new ferry pier.
				Suspended Solid	7.00			Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the typhoon. The water monitoring results cannot represent the normal condition of water quality. It is concluded that the source of impact was due to the disturbance by the typhoon and not related to the project work.
X_W244	3-Oct-11	Mid-ebb	WSD17	DO (mg/L)	4.22	3.66	3.28	Possible reason:	Water quality being substantially affected after Typhoon signal no.1 on 3 Oct
				Turbidity	8.53	8.04	9.49	Action taken / to be taken:	Checked with the contractor marine work activities on 3 Oct 2011, the major work activity was at land-based only. No marine work was conducted at that day
				Suspended Solid	6.50	13.00	14.43	Remarks / Other Obs:	In view that the no marine work was conducted and water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was considered not project related exceedance.
X_W245	6-Oct-11	Mid-flood	WSD10	DO (mg/L)	6.28	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.09	8.04	9.49	Action taken / to be taken:	Checked with the contractor marine work activities on 6 Oct 2011, the major marine activities were installation of concrete blocks at seawall type 6 and 7 and backfilled the public sorted fill material to the reclamation area. The silt curtain was observed in proper condition during the site inspection on 4 Oct. No exceedance was recorded at C8 which is the nearest to the works area mentioned above.
				Suspended Solid	10.50	13.00	14.43	Remarks / Other Obs:	In view that WSD10 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance is definitely non-works related under the Project.



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W246	6-Oct-11	Mid-flood	WSD15	DO (mg/L)	6.15	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	10.43	8.04	9.49	Action taken / to be taken:	Checked with the contractor marine work activities on 6 Oct 2011, the major marine activities were installation of concrete blocks at seawall type 6 and 7 and backfilled the public sorted fill material to the reclamation area. The silt curtain was observed in proper condition during the site inspection on 4 Oct. No exceedance was recorded at C8 which is the nearest to the works area mentioned above.
				Suspended Solid	15.00	13.00	14.43	Remarks / Other Obs:	In view that WSD15 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances were definitely non-works related under the Project.
X_W247	6-Oct-11	Mid-flood	WSD17	DO (mg/L)	5.70	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
						Turbidity 9.46 8.04 9.49 Action taker	Action taken / to be taken:	Checked with the contractor marine work activities on 6 Oct 2011, the major marine activities were installation of concrete blocks at seawall type 6 and 7 and backfilled the public sorted fill material to the reclamation area. The silt curtain was observed in proper condition during the site inspection on 4 Oct. No exceedance was recorded at C8 which is the nearest to the works area mentioned above.	
				Suspended Solid	11.50	13.00	14.43	Remarks / Other Obs:	In view that WSD17 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W248	6-Oct-11	Mid-flood	WSD19	DO (mg/L)	5.83	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	10.88	8.04	9.49	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water quality, there was no dredging works for Cross Harbour Water Main and no any exceedance was recorded in the nearest monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w) on 6 Oct 2011. The silt curtain and silt screen were observed in proper condition during Monitoring.
				Suspended Solid	14.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD19 was in proper condition, the exceedance was considered not project related exceedance.



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W249	6-Oct-11	Mid-flood	WSD7	DO (mg/L)	5.68	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.24	8.04	9.49	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water quality, there was no dredging works for Cross Harbour Water Main and no any exceedance was recorded in the nearest monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w) on 6 Oct 2011. The silt curtain was observed in proper condition during Monitoring.
				Suspended Solid	9.50			Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD7 was in proper condition, the exceedance was considered not project related exceedance.
X_W250	8-Oct-11	Mid-flood	WSD17	DO (mg/L)	5.53	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.59	8.04	9.49	Action taken / to be taken:	Checked with the contractor marine work activities on 8 Oct 2011, the major marine activity was backfilled the sorted public fill to reclamation area. The silt curtain was in proper condition during the monitoring.
				Suspended Solid	16.50	13.00		Remarks / Other Obs:	In view that WSD17 was located in upstream of the Project during flood tide, the exceedance was definitely non-works related under the Project.
X_W251	8-Oct-11	Mid-flood	WSD20	DO (mg/L)	5.81	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	11.75	8.04	9.49	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water quality, there was no dredging works for Cross Harbour Water Main and no any exceedance was recorded in the nearest monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w) on 8 Oct 2011. The silt curtain was observed in proper condition during Monitoring.
				Suspended Solid	24.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt curtain was in proper condition, the exceedance was considered not project related exceedance.
X_W252	8-Oct-11	Mid-flood	WSD19	DO (mg/L)	5.55	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	7.85	8.04	9.49	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water quality, there was no dredging works for Cross Harbour Water Main and no any exceedance was recorded in the nearest monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w) on 8 Oct 2011. The silt screen and curtain were observed in proper condition during Monitoring.
				Suspended Solid	13.50	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD19 was in proper condition, the exceedance was considered not project related exceedance.



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured A	ction Level Lim	it Level Follow-up	
X_W253	10-Oct-11	Mid-flood	WSD20	DO (mg/L)	4.21	3.66	3.28 Possible reaso	 Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.21	8.04	9.49 Action taken / t	
				Suspended Solid	12.50	13.00	14.43 Remarks / Oth	er Obs: In view that no marine works for the Cross-Harbour Wate Mains and no turbidity exceedance was recorded in the downstream stations, it was considered not project related exceedance.
X_W254	10-Oct-11	Mid-flood	WSD17	DO (mg/L)	4.23	3.66	3.28 Possible reaso	
				Turbidity	7.33	8.04	9.49 Action taken / t	to be taken: Checked with the contractor marine work activities on 10 Oct 2011, the major marine activities were backfilled the sorted public fill to reclamation area where in front of the electric sub-station and preparation works for installation of berm stone. The silt curtain was observed in proper condition during the site inspection on 12 Oct. No exceedance was recorded at C8 which is the nearest to the works area mentioned above.
				Suspended Solid	14.50	13.00	14.43 Remarks / Oth	er Obs: In view that WSD17 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W255	10-Oct-11	Mid-flood	WSD21	DO (mg/L)	5.21	3.66	3.28 Possible reaso	 Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.31	8.04	9.49 Action taken / t	 marine activities below undertaken: Dredging inside the pitched marine pile casings in Wan Chai New Ferry Pier Area; Grout plug installation inside the piles in new ferry pier area; Reinforcement fixing of top slab at pumping station P8; Loading of C&D material by hopper barge; Driving of king posts as preparation works for sheet piling in WCR2; Installation of submarine outfall pipe line in submarine outfall area; and Reinforcement cage fixing inside the hopper of derrick lighter mooring near new ferry pier area. After reviewing the stations near the site area, there were no any exceedances recorded at WSD21. Checking with the Contractor's inspection record, the silt screen and silt curtain were in proper condition on 10 Oct. A site inspection was conducted on 13 Oct and the silt screen and silt curtain were observed in proper condition during the inspection.
				Suspended Solid	14.50	13.00	14.43 Remarks / Oth	U I



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W256	10-Oct-11	Mid-flood	WSD19	DO (mg/L)	4.08	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	7.68	8.04	9.49	Action taken / to be taken:	Checked with the Contractor's marine work, the major marine activities were in the HKCEC water channel and no dredging works for Cross Harbour Water Main. After reviewing the trend of water quality across Victoria Harbour, only exceedances recorded at C3 and C4w were considered in relation to the rock-filling works within HKCEC water channel. Other than that, there was no SS exceedance recorded in the downstream station.
				Suspended Solid	14.00	13.00	14.43	Remarks / Other Obs:	In view that no marine works for the Cross-Harbour Wate Mains and no SS exceedance was recorded in the downstream stations, it was considered not project related exceedance.
X_W257	12-Oct-11	Mid-ebb	WSD19	DO (mg/L)	6.00	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.65	8.04	9.49	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water quality, there was no dredging works for Cross Harbour W ater Main and no any exceedance was recorded in the nearest monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w). The silt curtain was observed in proper condition during Monitoring.
				Suspended Solid	15.00	13.00	14.43	Remarks / Other Obs:	In view that WSD19 was located in upstream of the Project during ebb tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W258	14-Oct-11	Mid-flood	WSD17	DO (mg/L)	5.79	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
	19:26			Turbidity	8.97	8.04	9.49	Action taken / to be taken:	Checked with the contractor marine work activities on 14 Oct 2011, the major marine activities were backfilled the fill material to reclamation area where in front of the electric sub-station and preparation works for installation of berm stone where in front of the former Suppliers Department of Hong Kong Government. The silt curtain was observed in proper condition during the site inspection on 12 Oct. No any exceedance was recorded at C8 and C9 which are the closest stations to the works area mentioned above.
				Suspended Solid	15.50	13.00	14.43	Remarks / Other Obs:	In view that WSD17 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W259	14-Oct-11	Mid-ebb	WSD17	DO (mg/L)	6.09	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the
	11:12			Turbidity	8.93	8.04	9.49	Action taken / to be taken:	water quality monitoring station Checked with the contractor marine work activities on 14 Oct 2011, the major marine activities were backfilled the fill material to reclamation area where in front of the electric sub-station and preparation works for installation of berm stone where in front of the former Suppliers Department of Hong Kong Government. The silt curtain was observed in proper condition during the site inspection on 12 Oct. No any exceedance was recorded at C8 and C9 which are the closest stations to the works area mentioned above.
				Suspended Solid	11.50	13.00	14.43	Remarks / Other Obs:	In view that silt curtain was in proper condition and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W260	14-Oct-11	Mid-ebb	WSD7	DO (mg/L)	5.40	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.22	8.04	9.49	Action taken / to be taken:	Reviewing the trend of the water quality, it was located at upstream of the Project. Checked with the Contractor's marine work, there were dredging works for Cross Harbour W ater Main. The silt screen and silt curtain were observed in proper condition during Monitoring.
				Suspended Solid	9.00	13.00	14.43	Remarks / Other Obs:	In view that WSD7 was located in upstream of the Project during ebb tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W261	14-Oct-11	Mid-ebb	WSD20	DO (mg/L)	5.67	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.93	8.04	9.49	Action taken / to be taken:	Reviewing the trend of the water quality, it was located at upstream of the Project. Checked with the Contractor's marine work, there were dredging works for Cross Harbour Water Main. The silt curtain was observed in proper condition during Monitoring.
				Suspended Solid	13.50	13.00	14.43	Remarks / Other Obs:	In view that WSD20 was located in upstream of the Project during ebb tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W262	17-Oct-11	Mid-flood	WSD17	DO (mg/L)	6.30	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
	11:47			Turbidity	8.75	8.04	9.49	Action taken / to be taken:	Checked with the contractor marine work activities on 17 Oct 2011, the major marine activities were backfilled the rock fill to the top of concrete blocks at seawall type 6 & 7, preparation works for installation of berm stone where in front of the former Suppliers Department of Hong Kong Government and formworks erection for sealing off the gaps between slotted panels & caissons. The silt curtain was observed in proper condition during the site inspection on 18 Oct. No any exceedance was recorded at C8 and C9 which are the closest stations to the works area mentioned above.
				Suspended Solid	16.00	13.00	14.43	Remarks / Other Obs:	In view that WSD17 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.



Ref no.	Date	Tidal	Location	Parameters (Avg.)			Limit Level		
X_W263	17-Oct-11	Mid-flood	WSD19	DO (mg/L)	5.68	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	10.75	8.04	9.49	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water
									quality, there was no dredging works for Cross Harbour Water
									Main and no any exceedance was recorded in the nearest
									monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w) on
									17 Oct 2011. The silt screen and curtain were observed in proper condition during Monitoring.
				Suspended Solid	13.50	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest
									the marine work site were well below the Action level and the silt
									screen at WSD19 was in proper condition, the exceedance was
X 14/004	17.0.1.11		WODOO		0.00	0.00	0.00	Describe second	considered not project related exceedance.
X_W264	17-Oct-11	Mid-flood	WSD20	DO (mg/L)	6.02	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.66	8.04	0.40	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water
				Turbiaity	5.00	0.04	5.45	Action taken / to be taken.	quality, there was no dredging works for Cross Harbour Water
									Main and no any exceedance was recorded in the nearest
									monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w) on
									17 Oct 2011. The silt curtain was observed in proper condition
									during Monitoring.
				Suspended Solid	14.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest
									the marine work site were well below the Action level and the silt
									screen at WSD20 was in proper condition, the exceedance was
X W265	22-Oct-11	Mid-flood	WSD19	DO(mall)	5.74	3.66	2.00	Possible reason:	considered not project related exceedance.
X_VV205	22-Oct-11	1000	WSD19	DO (mg/L)	5.74	3.00	3.20	Possible reason.	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.11	8.04	9 4 9	Action taken / to be taken:	Checked with the Contractor's marine work and trend of water
				. and land	0111	0.01	0110		quality, there was no dredging works for Cross Harbour Water
									Main and no any exceedance was recorded in the nearest
									monitoring station to the HKCEC3 (C1, C2, C3, C4e and C4w) on
									22 Oct 2011. The silt screen and silt curtain were observed in
		1							proper condition during Monitoring.
		1		Suspended Solid	24.50	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest
									the marine work site were well below the Action level and the silt
		1							screen at WSD19 was in proper condition, the exceedance was
		1							considered not project related exceedance.



Ref no.	Date	Tidal	Location	Parameters (Avg.)		Action Level			
X_W266	22-Oct-11	Mid-ebb	WSD7	DO (mg/L)	5.27	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	7.08	8.04	9.49	Action taken / to be taken:	Reviewing the trend of the water quality, it was located at upstream of the Project. Checked with the Contractor's marine work, there was only conducted the filling works at HKCEC water channel. The silt screen and silt curtain were observed in proper condition during Monitoring.
				Suspended Solid	14.00	13.00	14.43	Remarks / Other Obs:	In view that WSD7 was located in upstream of the Project during ebb tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W267	26-Oct-11	Mid-ebb	WSD15	DO (mg/L)	5.74	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.37	8.04	9.49	Action taken / to be taken:	Checked with the contractor marine work activities on 26 Oct 2011, the major marine activities were concreting for sealing off the gaps between slotted panels & caissons, preparation works for installation of berm blocks where in front of the substation of HKE, backfilled the general fill material to reclamation area where next to the Open Channel U and Backfilled the general fill to the reclamation area at seawall type 6 & 7. The silt curtain was observed in proper condition during the site inspection on 25 Oct. No any exceedance was recorded at C8, C9 and WSD17 which are the closest stations to the works area mentioned above.
				Suspended Solid	6.50	13.00	14.43	Remarks / Other Obs:	In view that silt curtain was in proper condition and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.
X_W268	26-Oct-11	Mid-ebb	WSD19	DO (mg/L)	5.67	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.75	8.04	9.49	Action taken / to be taken:	Reviewing the trend of the water quality, it was located at upstream of the Project. Checked with the Contractor's marine work, there were dredging works for Cross Harbour W ater Main. The silt curtain was observed in proper condition during Monitoring.
				Suspended Solid	12.00	13.00	14.43	Remarks / Other Obs:	In view that WSD19 was located in upstream of the Project during ebb tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.



X 10C305	28-Sep-11	Mid-ebb	C8	DO (mg/L)	4.63	3.02	2.44	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	12.43	11.35	12.71	Action taken / to be taken:	Checked with the contractor marine work activities on 28 Sep 2011, the major marine activities were transferring the fill material to backfilling area and installation the concrete blocks under
									water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition
									during the site inspection on 27 Sep and 4 Oct.
				SS (mg/L)	12.50	18.42	27.54	Remarks / Other Obs:	In view that proper silt curtain was in proper condition duringinspection, the exceedances were
									considered to be caused from the accumulation of particles discharged from the outfalls near
									monitoring station and not related to the Project works.
X_10C306	30-Sep-11	Mid-ebb	C8	DO (mg/L)	5.92	3.02	2.44	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station, and water quality being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon signal no.8 on 29 Sep
				Turbidity (NTU)	11.85	11.35	12.71	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities
									were transferring the fill material to backfilling area and installation the concrete blocks under
									water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition
									during the site inspection on 27 Sep and 4 Oct.
				SS (mg/L)	15.50	18.42	27.54	Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the
						-	-		typhoon. The water monitoring results cannot represent the normal condition of water quality.It
									is concluded that the source of impact was due to the disturbance by the typhoon and not
									related to the project work.
X 10C307	30-Sep-11	Mid-ebb	C9	DO (mg/L)	5.37	3.02	2 11	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station, and water quality
X_100307	30-0ep-11	Mild-CDD	03	DO (mg/L)	5.57	5.02	2.44		being substantially affected after Typhoon signal no.3 on 28 Sep and 30 Sep and Typhoon
									signal no.8 on 29 Sep
				Turbidity (NTU)	12.73	11.35	12.71	Action taken / to be taken:	Checked with the contractor marine work activities on 30 Sep 2011, the major marine activities
									were transferring the fill material to backfilling area and installation the concrete blocks under
									water at site area seawall Type 6 and 7. The silt curtain was observed in proper condition
									during the site inspection on 27 Sep and 4 Oct.
				SS (mg/L)	13.00	18.42	27.54	Remarks / Other Obs:	The water quality was being substantially affected and the sea bed was disturbed after the
									typhoon. The water monitoring results cannot represent the normal condition of water quality.It
									is concluded that the source of impact was due to the disturbance by the typhoon and not
									related to the project work.
X_10C308	6-Oct-11	Mid-flood	C9	DO (mg/L)	5.24	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	9.25	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 6 Oct 2011, the major marine activities
									were installation of concrete blocks at seawall type 6 and 7 and backfilled the public sorted fill
									material to the reclamation area. The silt curtain was observed in proper condition during the
									site inspection on 4 Oct. No exceedance was recorded at C8 which is nearer to the works area mentioned above.
				SS (mg/L)	13.00	15.00	22.13	Remarks / Other Obs:	In view that proper silt curtain was in proper condition during inspection, the exceedances were
									considered to be caused from the accumulation of particles discharged from the outfalls near
			l					<u> </u>	monitoring station and not related to the Project works.

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X_10C309	8-Oct-11	Mid-flood	C8	DO (mg/L) Turbidity (NTU)	5.17 <mark>12.15</mark>	3.36 9.1	-	Possible reason: Action taken / to be taken:	Accumulation of particles discharged from outfalls near monitoring station Checked with the contractor marine work activities on 8 Oct 2011, the major marine activity was backfilled the sorted public fill to reclamation area. The silt curtain was in proper condition during the monitoring.
				SS (mg/L)	10.00	15.00	22.13	Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C310	8-Oct-11	Mid-ebb	C7	DO (mg/L)	3.14	3.36	2.73	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide and ratural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity (NTU)	11.08	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4 - Maintenance dredging at northeast corner of CWBTS Checking with the Contractor's daily records,silt curtain at TS4 and silt screen were in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 11 Oct 2011.
				SS (mg/L)	6.50	15.00	22.13	Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtain and silt screen were in proper condition during monitoring, the exceedances were considered due to the natural variation and not related to the Project works.
X 10C311	10-Oct-11	Mid-flood	C7	DO (mg/L)	2.97	3.36	2.73	Possible reason:	Possible in relation to the low flow and low water depth
				Turbidity (NTU)	4.39	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4 Checking with the Contractor's daily records, silt curtain at TS4 and silt screen at C7 were in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 4 Oct 2011.
				SS (mg/L)	6.00	15.00	22.13	Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10C312	10-Oct-11	Mid-ebb	C8	DO (mg/L)	4.88	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
-				Turbidity (NTU)	9.54	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 8 Oct 2011, the major marine activity were backfilled the sorted public fill to reclamation area where in front of the electric sub-station and preparation works for installation of berm stone in front of the former Suppliers Department
				SS (mg/L)	13.00	15.00	22.13	Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.



X_10C313	10-Oct-11	Mid-ebb	C3	DO (mg/L)	5.39	3.36	2.73	Possible reason:	Fine particles passing through the geotextiles with respect to the rock filling conducted right in front of the intake
	12:25			Turbidity (NTU)	9.41	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen at intake and additional silt curtain along the promenade deck. The turbidity level outside the silt screen was 6.36NTU. Checking with Contractor works, there were filling at HKCEC3W and rock bund filling works along the promenade deck which is carried out to facilitate subsequent sheet piling works on that day. The frame type silt screen at intake, frame type silt curtain for rock-filling and additional silt curtain along the promenade deck were deployed. Other than that, Contractor's daily records was checked. It shows silt curtains were deployed during filling works and both silt curtains were in proper condition in their daily inspection. According to contractor provided information, same grade of filling materials were used for filling works during June to August 2011, no exceedance was recorded that was related to filling at that time. Nevertheless, Contractor was reminded to open the grab used for rock bund filling at lower level so as to avoid any loose materials spreading out of siltcurtain and enter into the water body. An additional 20m long silt curtain along the HKCEC promenade deck, at Ch120 to ch140 was deployed acting as an additional barrier between frame-type silt curtain and the deck on 13 Oct. The efficiency of the additional mitigation measures would be kept in view in coming monitoring.
				SS (mg/L)	13.50	15.00	22.13	Remarks / Other Obs:	A diver inspection on the frame type silt screen was conducted on 14 Oct. It shows that the geotextile and sinker were in good condition. No obstruction was flown between geotextiles. The exceedance was considered in relation to the rock filling is located too close to the intake such that the geotextile sheets are not adequate to eliminate the water quality impact from the rock bund filling along the promenade deck. The trend of water quality monitoring data would be kept in view by ET for any further deterioration of water quality in water channel and the effectiveness of the remedial measures. Contractor has implemented the mitigation measures to replace the geotextile near the water monitoring station C3 and add additional 20m long silt curtain at promenade deck on 13 Oct 2011 to minimize the water quality impact arising from the rock-filling. After reviewing the trend of water quality data, the remedial measures have function effectively and no further exceedance was recorded the week after the exceedance.



X_10C314	10-Oct-11	Mid-flood	C3	DO (mg/L)	5.22	3.36	2.73	Possible reason:	Fine particles passing through the geotextiles with respect to the rock filling conducted right in front of the intake
	16:20			Turbidity (NTU)	19.80	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen at intake and additional silt curtain along the promenade deck. The turbidity level outside the silt screen was also 9.63NTU which was higher that Action Level. Checking with Contractor works, there were filling at HKCEC3W and rock bund filling works along the promenade deck which is carried out to facilitate subsequent sheet piling works on that day. The frame type silt screen at intake, frame type silt curtain for rock-filling and additional silt curtain along the promenade deck were deployed. Other than that, Contractor's daily records was checked. It shows silt curtains were deployed during filling works and both silt curtains were in proper condition in their daily inspection. According to contractor provided information, same grade of filling materials were used for filling works during June to August 2011, no exceedance was for rock bund filling at lower level so as to avoid any loose materials spreading out of silt curtain and enter into the water body. An additional 20m long silt curtain along the HKCEC promenade deck, at Ch120 to ch140 was deployed acting as an additional barrier between frame-type silt curtain and the deck on 13 Oct. The efficiency of the additional mitigation measures would be kept in view in coming monitoring.
				SS (mg/L)	23.50	15.00	22.13	Remarks / Other Obs:	A diver inspection on the frame type silt screen was conducted on 14 Oct. It shows that the geotextile and sinker were in good condition. No obstruction was flown between geotextiles. The exceedance was considered in relation to the rock filling is located too close to the intake such that the geotextile sheets are not adequate to eliminate the water quality impact from the rock bund filling along the promenade deck. The trend of water quality monitoring data would be kept in view by ET for any further deterioration of water quality in water channel and the effectiveness of the remedial measures. Contractor has implemented the mitigation measures to replace the geotextile near the water monitoring station C3 and add additional 20m long silt curtain at promenade deck on 13 Oct 2011 to minimize the water quality impact arising from the rock-filling. After reviewing the trend of water quality data, the remedial measures have function effectively and no further exceedance was recorded the week after the exceedance.



X_10C315	10-Oct-11	Mid-flood	C4w	DO (mg/L)	5.23	3.36	2.73	Possible reason:	Fine particles passing through the geotextiles with respect to the rock filling conducted right in front of the intake
				Turbidity (NTU)	11.03	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen. The turbidity level outside the silt screen was 9.63NTU which was also higher that Action Level. Checking with Contractor works, there were filling at HKCEC3W and rock bund filling works along the promenade deck which is carried out to facilitate subsequent sheet pilling works on that day. The frame type silt screen at intake, frame type silt curtain for rock-filling and additional silt curtain along the promenade deck were deployed. Other than that, Contractor's daily records was checked. It shows silt curtains were deployed during filling works and both silt curtains were in proper condition in their daily inspection. According to contractor provided information, same grade of filling materials were used for filling works during June to August 2011, no exceedance was recorded that was related to filling at that time. Nevertheless, Contractor was reminded to open the grab used for rock bund filling at lower level so as to avoid any loose materials spreading out of silt curtain and enter into the water body.
				SS (mg/L)	11.50	15.00	22.13	Remarks / Other Obs:	A diver inspection was conducted on 14 Oct. It shows that the geotextile and sinker were in good condition. No obstruction was flown between geotextiles. The exceedance was considered in relation to the rock filling is located too close to the intake such that the geotextile sheets are not adequate to eliminate the water quality impact from the rock bund filling along the promenade deck. No exceedance was recorded in the next consecutive monitoring. The trend of water quality monitoring data would be kept in view by ET for any further deterioration of water quality in water channel and the effectiveness of the remedial measures.



X_10C316	12-Oct-11	Mid-flood	C3	DO (mg/L)	5.59	3.36	2.73	Possible reason:	Fine particles passing through the geotextiles with respect to the rock filling conducted right in front of the intake
	16:20			Turbidity (NTU)	15.60	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen at intake and additional silt curtain along the promenade deck when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 12 Oct 2011 Mid-flood: 13.5NTU Investigation indicated that the turbidity levels outside the silt screen were also higher than the Limit Level. Checking with Contractor works, there were filling at HKCEC3W and rock bung filling along the promenade deck conducted at HKCEC Water Channel. Contractor's daily records were also checked. The frame type silt screen at intake, frame type silt curtain for rock-filling and additional silt curtain along the promenade deck were deployed. Both silt screen and silt curtains were in proper condition in their daily inspection. As filling work was too closed to C3 and implemented mitigation measures were not enough to protect the intake. The contractor suggested installing an additional silt curtain, replacing new silt screen at C3 prior recommence filling works. RE requested Contractor suspended the rock filling works starting from 13 Oct. An additional 20m long silt curtain along the HKCEC promenade deck, at Ch120 to ch140 was deployed acting as an additional barrier between frame-type silt curtain and the deck on 13 Oct. The efficiency of the additional mitigation measures would bekept in view in coming
				SS (mg/L)	20.50	15.00	22.13	Remarks / Other Obs:	monitoring. A diver inspection on the frame type silt screen was conducted on 14 Oct. It shows that the geotextile and sinker were in good condition. No obstruction was flown between geotextiles. As such, the exceedance was considered in relation to the rock filling is located too close to the intake such that the geotextile sheets are not adequate to eliminate the water quality impact from the rock bund filling along the promenade deck. No exceedance was recorded in the consecutive monitoring date.
									Contractor has implemented the mitigation measures to replace the geotextile near the water monitoring station C3 and add additional 20m long silt curtain at promenade deck on 13 Oct 2011 to minimize the water quality impact arising from the rock-filling. After reviewing the trend of water quality data, the remedial measures have function effectively and no further exceedance was recorded the week after the exceedance.

X 10C317	12-Oct-11	Mid-ebb	C8	DO (mg/L)	5.94	3.36	2,73	Possible reason:	Accumulation of particles near monitoring station by heavy rain
				Turbidity (NTU)	9.51	9.1		Action taken / to be taken:	Checked with the contractor marine work activities on 12 Oct 2011, the major marine activity was backfilled the rock fill material to reclamation area where in front of the electric sub-station and preparation works for installation of berm stone where in front of the former Suppliers Department of Hong Kong Government. The silt curtain was in proper condition during the site
				SS (mg/L)	11.50	15.00	22.13	Remarks / Other Obs:	inspection on 12 Oct 2011. No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X 10C318	12-Oct-11	Mid-ebb	C5w	DO (mg/L)	5.88	3.36	2.73	Possible reason:	Unknown source of floating oil was observed in the vicinity of the water quality monitoring
				(station during monitoring
				Turbidity (NTU)	9.41	9.1	10.25	Action taken / to be taken:	Checked with Contractor's works on 12 Oct 2011, there were marine activities below undertaken:
									 Dredging inside the pitched marine pile casings in Wan Chai New Ferry Pier Area; Sheet Piling Work (2 nos. of box type FSP IV sheet Pile) at interface of WCR2 & WCR3; Fill of type 2 material in submarine outfall area.
									After reviewing the stations near the site area, there were no exceedances recorded at WSD21 and C5e. Besides, no consecutive exceedance was recorded at C5w and no sign of traceable source of the floating oil was identified. A site inspection was conducted on 13 Oct. The silt screen and silt curtain were observed in proper condition and no floating oil was observed during the inspection. Nevertheless, Contractor was reminded to take appropriate action when any floating oil was observed within their site area.
				SS (mg/L)	9.00	15.00	22.13	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at C5w was in proper condition, the exceedance was considered related to the interference from the unknown source of floating oil and not project related exceedance.
X_10C319	14-Oct-11	Mid-ebb	C7	DO (mg/L)	5.23	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity (NTU)	9.11	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4 Site inspections were conducted on 11 and 18 Oct 2011, silt screen and silt curtain were
									observed in proper condition during inspection.
				SS (mg/L)	15.00	15.00	22.13	Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtain and silt screen were in proper condition during monitoring, the exceedances were considered due to the natural variation and not related to the Project works.
X_10C320	22-Oct-11	Mid-flood	C7	DO (mg/L)	5.18	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity (NTU)	9.45	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4; - Maintenance dredging of navigation channel and mooring area (Row G+H) Checking with Contractor's silt curtain inspection record, silt curtain at TS4 was in proper condition on 22 Oct. Also, ET site inspections were conducted on 18 and 25 Oct 2011, silt screen and silt curtain were observed in proper condition during inspection.
				SS (mg/L)	8.50	15.00	22.13	Remarks / Other Obs:	No consecutive turbidity exceedance was recorded in the next monitoring. In view that proper silt curtain and silt screen were in proper condition during monitoring, the exceedances were considered due to the natural variation and not related to the Project works.

well below the Action level, the exceedance was considered related to the interference from the

routine screen washing and not project related exceedance.

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(10C321	22-Oct-11	Mid-flood	C8	DO (mg/L)	5.25	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	11.53	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 22 Oct 2011, the major marine activities were reinforcement fixing of slotted panels on top of installed caisson seawalls and preparation
									works for installation of berm blocks (total 35 nos) where in front of Oil Street. The silt curtain was in proper condition during the site inspection on 25 Oct 2011.
				SS (mg/L)	12.00	15.00	22.13	Remarks / Other Obs:	In view that proper silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
_10C322	22-Oct-11	Mid-flood	C9	DO (mg/L)	5.55	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
			Turbidity (NTU)	13.03	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 22 Oct 2011, the major marine activities were reinforcement fixing of slotted panels on top of installed caisson seawalls and preparatior works for installation of berm blocks (total 35 nos) where in front of Oil Street. The silt curtain was in proper condition during the site inspection on 25 Oct 2011.	
				SS (mg/L)	12.50	15.00	22.13	Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtai was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
<_10C323	22-Oct-11	Mid-ebb	C7	DO (mg/L)	4.66	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring statio
				Turbidity (NTU)	7.78	9.1	10.25	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4;
									 Maintenance dredging of navigation channel and mooring area (Row G+H) Checking with Contractor's silt curtain inspection record, silt curtain at TS4 was in proper condition on 22 Oct. Also, ET site inspections were conducted on 18 and 25 Oct 2011, silt
				00 (40.00	45.00	00.40		screen and silt curtain were observed in proper condition during inspection.
				SS (mg/L)	19.00	15.00	22.13	Remarks / Other Obs:	No consecutive SS exceedance was recorded in the next monitoring. In view that proper silt curtain and silt screen were in proper condition during monitoring, the exceedances were considered due to the natural variation and not related to the Project works.
_10C324	22-Oct-11	Mid-flood	C5w	DO (mg/L)	5.72	3.36	2.73	Possible reason:	Routine screen washing at intake was observed during monitoring
				Turbidity (NTU)	13.25	9.1	10.25	Action taken / to be taken:	Checked with Contractor's works on 22 Oct 2011, there were marine activities below undertaken:
									 Temporary Sheet Piling Work in WCR2; Pile Concreting in new Ferry Pier Area in Wan Chai East;
									- Loading of C&D material by Derrick Lighter in WCR-1;
									- Placing of armour rock in submarine outfall area.
									After reviewing the stations near the site area, there were no exceedances recorded at WSD2: and C5e. Besides, no consecutive exceedance was recorded at C5win next consecutive monitoring. The silt screen and silt curtain were observed in proper condition during the site inspection on 19 and 27 Oct 2011.
				SS (mg/L)	10.00	15.00	22.13	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 exceedance was considered related to the interference from the



X 10C325	24-Oct-11	Mid-flood	C8	DO (mg/L)	6.32	3.36	2 73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
A_100020	24 000 11			Turbidity (NTU)	9.71	9.1	-	Action taken / to be taken:	Checked with the contractor marine work activities on 24 Oct 2011, the major marine activities were reinforcement fixing for slotted panels on top slab of installed caisson seawalls (C18 and C19), installation of berm blocks (precast concrete block) where in front of the former Suppliers Department of Hong Kong Government, Preparation works for installation of berm blocks where in front of the substation of HKE, and Rock trimming where at seawall type 8 Street. The silt curtain was in proper condition during the site inspection on 25 Oct 2011.
				SS (mg/L)	17.00	15.00	22.13	Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C326	24-Oct-11	Mid-ebb	C7	DO (mg/L)	4.22	3.36	2.73	Possible reason:	Accumulation of particles near monitoring station
	22:15			Turbidity (NTU)	4.63	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 24 Oct 2011, the major marine activity was construction of temporary sloping seawall. The silt curtain was in place to surround the the sloping seawall and the silt screen at C7 was observed in proper condition during the monitoring.
				SS (mg/L)	16.00	15.00		Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. In view that proper silt curtain and silt screen were in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles near monitoring station and not related to the Project works.
X_10C327	26-Oct-11	Mid-flood	C3	DO (mg/L)	6.05	3.36	2.73	Possible reason:	Accumulation of particles under the promenade deck
				Turbidity (NTU)	12.03	9.1		Action taken / to be taken:	Immediate repeated measurements was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen at intake and additional silt curtain along the promenade deck. The turbidity level outside the silt screen was 8.87NTU. Checking with Contractor works, there were filling at HKCEC3W, rock bund filling works and sheeting pile along the promenade deck on that day. The frame type silt screen at intake, frame type silt curtain for rock-filling, additional silt curtain along the promenade deck and an additional 20m long silt curtain along the HKCEC promenade deck, at Ch120 to ch140 (the channel in front of the rock filing)were deployed. Other than that, Contractor's daily records was checked. It showsthat the silt curtains for filling works and both silt curtains were in proper condition in their daily inspection.
				SS (mg/L)	16.50	15.00	22.13	Remarks / Other Obs:	A diver inspection on the frame type silt screen was conducted on 1 November. It shows that the geotextile and sinker were in good condition. No obstruction was flown between geotextiles. In view that no exceedance in the consecutive monitoring date and proper silt curtain and silt screen were in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles near monitoring station and not related to the Project works



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured A	Action Level L	imit Level	Follow-up action	
X_10D346	6-Oct-11	Mid-flood	Ex-WPCWA SE	Bottom	DO (mg/L)	4.25	5.36		Possible reason:	Possible in relation to the low flow and low water depth
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Seawall block laying works at TS4 - Maintenance dredging at northeast corner of CWBTS There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records,silt curtain at TS4 were in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 4 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D347	6-Oct-11	Mid-ebb	C7	Middle	DO (mg/L)	3.47	3.87		Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Seawall block laying works at TS4 - Maintenance dredging at northeast corner of CWBTS Checking with the Contractor's daily records, silt curtain at TS4 and silt screen at C7 were in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 4 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D348	6-Oct-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.79	3.84		Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Seawall block laying works at TS4 - Maintenance dredging at northeast corner of CWBTS There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records,silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 4 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D349	6-Oct-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.69	4.26	3.61	Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Seawall block laying works at TS4 - Maintenance dredging at northeast corner of CWBTS There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records,silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 4 Oct 2011.1.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured A	ction Level	Limit Level	Follow-up action	
X_10D350	8-Oct-11	Mid-ebb	C7	Middle	DO (mg/L)	3.14	3.87	3.09	Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4 - Maintenance dredging at northeast corner of CWBTS Checking with the Contractor's daily records,silt curtain at TS4 and silt screen were in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 11 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D351	8-Oct-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.75	3.84	3.73	Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4 - Maintenance dredging at northeast corner of CWBTS There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records,silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 11 Oct 2011.1.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D352	8-Oct-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.78	4.26	3.61	Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4 - Maintenance dredging at northeast corner of CWBTS There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records,silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 11 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D353	10-Oct-11	Mid-flood	C7	Middle	DO (mg/L)	2.98	3.87	3.09	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Possible in relation to the low flow and low water depth Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - General filling and land works at TS4 Checking with the Contractor's daily records,silt curtain at TS4 and silt screen at C7 were in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 4 Oct 2011. In view that there was no odour was detected during monitoring, it was considered



		Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level Limit	t Level Follow	w-up action	
X_10D354	10-Oct-11	Mid-flood	Ex-WPCWA SE	Middle	DO (mg/L)	3.71	4.26		ible reason:	Possible in relation to the low flow and low water depth
								Action	n taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No
										odour nuisance was detected during the DO monitoring. Checked with Contractor
										works, there were conducted below marine works on that day:
										- General filling and land works at TS4
										There were no marine activities conducted at ex-PCWA. Checking with the
										Contractor's daily records, silt curtain at TS4 were in proper condition in their daily
										inspection. The silt curtain was also observed in proper condition during site
										inspection on 11 Oct 2011.
								Rema	arks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered
										not related to Project works.
X_10D355	17-Oct-11	Mid-flood	C6	Middle	DO (mg/L)	2.98	3.13		ible reason:	Possible in relation to the low flow and low water depth
								Action	n taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No
										odour nuisance was detected during the DO monitoring. Checked with Contractor
										works, there was conducted below marine works on that day: - General filling and land works at TS4
										- General mining and land works at 154 Checking with the Contractor's dredging daily record, silt curtain at TS4 and silt
										screen at C6 were in proper condition in their daily inspection. Also, no dredging work
										was conducted during monitoring. In addition, the silt curtain was also observed in
										proper condition during site inspection on 18 Oct 2011.
								Rema	arks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered
								Rome		not related to Project works.
X_10D356	17-Oct-11	Mid-flood	C7	Middle	DO (mg/L)	3.48	3.87	3.09 Possi	ible reason:	Possible in relation to the low flow and low water depth
								Action	n taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No
										odour nuisance was detected during the DO monitoring. Checked with Contractor
										works, there was conducted below marine works on that day:
										- General filling and land works at TS4
										Checking with the Contractor's dredging daily record, silt curtain at TS4 and silt
										screen at C6 were in proper condition in their daily inspection. Also, no dredging work
										was conducted during monitoring. In addition, the silt curtain was also observed in
										proper condition during site inspection on 18 Oct 2011.
								Rema	arks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered
										not related to Project works.
X_10D357	17-Oct-11	Mid-flood	Ex-WPCWA SW	Bottom	DO (mg/L)	3.96	4.71		ible reason:	Possible in relation to the low flow and low water depth during ebb tide
								Actio	n taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No
										odour nuisance was detected during the DO monitoring. Checked with Contractor
										works, there ws conducted below marine works on that day:
										- General filling and land works at TS4
										There were no marine activities conducted at ex-PCWA. Checking with the
										Contractor's daily records, silt curtain at TS4 was in proper condition in their daily
										inspection. The silt curtain was also observed in proper condition during site
								Bame	arks / Other Obs:	inspection on 18 Oct 2011.
				1				Rema	aiks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
					ļ					



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D358			Ex-WPCWA SE	Surface	DO (mg/L)	4.01	4.26		Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was conducted below marine works on that day: - General filling and land works at TS4 There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records, silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 18 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D359	17-Oct-11	Mid-flood	Ex-WPCWA SE	Middle	DO (mg/L)	4.00	4.26		Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was conducted below marine works on that day: - General filling and land works at TS4 There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records, silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 18 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D360	17-Oct-11	Mid-flood	Ex-WPCWA SE	Bottom	DO (mg/L)	3.95	5.36	5.35	Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was conducted below marine works on that day: - General filling and land works at TS4 There were no marine activities conducted at ex-PCWA. Checking with the Contractor's daily records, silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 18 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D36	26-Oct-11	Mid-flood	C7	Middle	DO (mg/L)	3.78	3.87	3.09	Possible reason: Action taken / to be taken:	Possible in relation to the low flow near the intake Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were landworks at TS4 and removal of odorous sediment conducted on that day. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 25 Oct 2011.
									Remarks / Other Obs:	In view that there was no odour was detected during monitoring, 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).	1)	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	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	Closed
						from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010.	
					3)	No further complaints were received in the reporting month. The complaint is considered closed.	
100731	31/7/2010	by ICC (CC Case:		Complaint on the noise nuisance due to the dredging works.	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed
		1-250702681)		operated concurrently.	2)	There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	
					3)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.	
					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	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
				works area adjacent to the Harbour Height during the period from 0700 to 2200.	2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.	
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	



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
					2)	Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.	
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
					2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.	
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point	1)	The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed
		Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.	
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1)	ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1- 266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the 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 complainant 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	tcome	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	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson	'	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.	Closed
		Office		Road in part of the site area was related to CWB under Contract no. HY/2009/11	2)	According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.	
					3)	In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.	
					4)	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.	
					5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	1) 2) 3) 4)	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
					.,	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.	1)	ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed
					2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	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 holiday.	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)	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	2011 regarding construction noise generated by the	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. No noise exceedance was recorded at construction noise	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	tcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.		monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC	North Point	Noise nuisance from the excavation works for the	1)	It was referred by AECOM to ET on 28 July 2011	
		no.1-304615409		Highways Department adjacent to the Victoria Centre was conducted from 7am	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	
	08/08/2011				4)	However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed
					5)	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
					Rei	marks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC	North Point	Muddy water was discharged	1)	It was referred by AECOM to ET on 17 August 2011.	Closed
		no. 1 – 306740207		from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	2)	Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	
					3)	Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. Contractors were advised to relocate the loose materials	



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	Closed
						 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall. An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outc	ome	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 	
						According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					,	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.	
						All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
						It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
						Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
						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)	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	Out	tcome	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.	



Appendix 10.1

Construction Programme of Individual Contracts

eclamation in NPR3 ver.9.5	Executive	Summary		Data Date: 21-Oct-11										
tivity ID Activity Name		Original Remaining Start		Finish	Total	2011								
	Duration	Duration			Float S	ep Oct	Nov	De						
Reclamation in NPR3 ver.9.5	129	60	21-Jul-11 A	19-Dec-11	-49									
Landside	129	60	05-Aug-11 A	19-Dec-11	-49			-						
Installation Seawall Blocks to B6 and B7	69	0	13-Aug-11 A	18-Oct-11 A										
Construct the Concrete Coping at B6 and B7	71	18	13-Aug-11 A	07-Nov-11	-11									
Laying Geotextile & Filter Material	77	24	05-Aug-11 A	13-Nov-11	-13									
Construct Open Channel U under IEC	14	10	23-Sep-11 A	30-Oct-11	1		₹							
Construct Open Channel U outside IEC	21	16	30-Sep-11 A	11-Nov-11	-30									
Construct the Drainage Pipeline at West of Open Channel	U 26	11	30-Sep-11 A	31-Oct-11	0		—							
Construct the Drainage Pipeline at East of Open Channel I	J 32	32	10-Nov-11	16-Dec-11	-42			<u>i – – –</u>						
Unloading Sorted Public Fill behind new seawall	66	31	15-Aug-11 A	20-Nov-11	-30		_							
Reclamation	113	60	13-Aug-11 A	19-Dec-11	-49	_								
Seaside	94	41	21-Jul-11 A	30-Nov-11	-30			-						
Construction of Outlet Pipe from City Garden	59	51	12-Oct-11 A	19-Dec-11	-42									
Construction of B8	21	21	15-Nov-11	08-Dec-11	-33									

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	FebMalApiMaJunJul Au SepOctNo De	Jan Feb Ma Apa 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				

2009/02-Marine & Reclamation Works Contract Commencement General Submission & obtain approval for marine GI	2008 d				
Contract Commencement General		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
Seneral	0 d	Thu 28/1/10	•		
	1879 d	Mon 22/2/10	¢		
	21 d	Mon 22/2/10			
Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10			
Engineer's Design review for Dredging of WCR1, WCR2 & WCR4	30 d	Mon 22/3/10			
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Construction of Permanent Seawall Blocks for curved coastline					-
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	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 Ummarine Outfall Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea Hase 1 - WCR1 Mobilization of plants Seabed dredging Bedding Filling and Permanent seawall (precast cassion) Bulk reclamation Hase 2 - WCR2 Mobilization of plants Temp seawall and Seabed dredging Bulk reclamation Hase 3 - TWCR4 & WCR4 Mobilization of plants Temp Seawall and Seabed dredging Bulk & temp reclamation Hase 4 - WCR3 Mobilization of plants Seabed dredging for Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Hase 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4 Mobilization of plants Dredging and Filling for permanent seawall construction Construction of Permanent Seawall Blocks for curved coastline Remove temp seawall and reinstate the location of TWCR4	Relocation 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 dExavate & remove top of d-wall for permanet seawall construction50 dStubmarine Outfall500 dDredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dPhase 1 - WCR1158 dMobilization of plants1 dBedding Filling and Permanent seawall (precast cassion)60 dBulk reclamation37 dWhase 2 - WCR2149 dMobilization of plants1 dTemp seawall and Seabed dredging77 dBulk reclamation73 dWhase 3 - TWCR4 & WCR498 dMobilization of plants1 dTemp Seawall and Seabed dredging75 dBulk k temp reclamation24 dWhase 4 - WCR3294 dMobilization of plants1 dTemp Seawall and Seabed dredging75 dBulk k temp reclamation24 dWhase 4 - WCR3294 dMobilization of plants1 dSeabed dredging for Permanent Seawall Blocks along curved coastline & Remove TWCR4108 dMobilization of plants1 dDedging and Filling for permanent seawall construction74 dMobilization of plants1 dDerdging and Filling for permanent seawall Blocks along curved coastline & Remove TWCR4105 dMobilization of plants	Relocation 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 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15bubmarine Outfall500 dTue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10base - WCR1158 dWed 21/4/10Mobilization of plants1 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 16/5/12Buk reclamation1 dSat 28/4/12Mobilization of plants1 dSat 28/4/12Temp Seawall and Seabed dredging75 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Sabeb dredging for Permanent Seawall1 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Backfil	Relocation of New Star Ferry Pier 0 d Tue 18/3/14 Demolition of Existing Star Ferry Pier 10 d Tue 18/3/14 Stage 2 Marrine GI for Reclamation 14 d Tue 18/3/14 Engineer's Design review for Dredging of WCR3 21 d Tue 25/3/14 Complete Diversion of Hung Hing Road Traffic Back to Original 20 d Fri 6/2/15 Excavate & remove top of d-wall for permanet seawall construction 50 d Wed 21/9/10 Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea 500 d Tue 21/9/10 Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea 500 d Wed 21/4/10 Mobilization of plants 1 d Wed 21/4/10 Seabed dredging 63 d Wed 21/4/10 Bedding Filling and Permanent seawall (precast cassion) 60 d Tue 21/9/10 Buk reclamation 37 d Fri 20/8/10 These 2 - WCR2 149 d Thu 1/3/12 Mobilization of plants 1 d Thu 1/3/12 Temp seawall and Seabed dredging 75 d Sat 28/4/12 Mobilization of plants 1 d Tue 18/3/14 Temp Seawall and Seabed dredging 75 d Sat 28/4/12	Relocation of New Star Ferry Pier 0 d Tue 18/3/14 Demolition of Existing Star Ferry Pier 100 d Tue 18/3/14 Stage 2 Marine GI for Reclamation 14 d Tue 18/3/14 Engineer's Design review for Dredging of WCR3 21 d Tue 25/3/14 Complete Diversion of Hung Hing Road Traffic Back to Original 20 d Fri 6/2/15 Excavate & remove top of d-wall for permanet seawall construction 50 d Wed 21/9/10 Threag 1. WCR1 158 d Wed 21/4/10 Mobilization of plants 1 d Wed 21/4/10 Beaded redging 63 d Wed 21/4/10 Bulk reclamation 37 d Fri 20/8/10 Temp seawall and Seabed dredging 1 d Thu 1/3/12 Bulk reclamation 73 d Wed 16/5/12 Mobilization of plants 1 d Sta2/4/12 Bulk reclamation 24 d Wed 11/7/12 Busk reclamation of plants 1 d Sta2/4/12 Mobilization of plants 1 d Sta2/4/12 Bulk reclamation 73 d Wed 16/5/12 Temp seawall and Seabed dredging 75 d Sat 28/4/12 Bulk a temp reclamation of p

ID	Cal		Orig	Early	Early	2010 2011 2012 2013 2014 2015 2016 2017											
BRIE (T	1.	Description	Dur	Start	Finish	2010 2011 2012 2013 2014 2015 2016 2017											
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	00	00050404	learnau												
110	1			03DEC10*	26FEB11	11 TCBR1E (TS1)-temporary reclamation											
		TCBR1E (TS1)-temporary reclamation		28JAN11*	06APR11												
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12	12 ITCBR1E (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 ve											
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											
8R1W (1	S4 Are																
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											
GWAW					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	TPCWAWremoval 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 Date Prepared: 28 Oct 2010 NNEL (CBTS SECTION) Date Prepared: 28 Oct 2010											

Act ID	Description	Orig Early Dur Start	Early Finish	JAN FEB MAR	APR MA		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
Section I	·																						
Contract C	bligation																						
			.	♦ Commenceme	nt of Section I	of works																	
Initial Wor	Commencement of Section I of works	0 20JAN11*	·	Commenceme	III OF SECTOR I	OI WOIKS									+++								
	n3																						
1050	Apply Marine notice to Marine Department	30 21JAN11	19FEB11	Apply N	Marine notice to	o Marine De	epartment (dree	dg)															
1060	Apply Marine notice to Marine Dept. Piling	30 18FEB11	19MAR11		Apply Marine r	notice to Ma	arine Dept. Pili	ing															
1080	Apply FEP under EP356/2009	21 28FEB11	20MAR11]	Apply FEP und	der EP356/2	2009																
1081	Submission of Works Schedule for FEP	14 05MAR11	21MAR11		Submission of																		
1082	Submission of Location Plan for FEP	14 05MAR11	21MAR11		Submission of	그 그 [] 그 드 님 !																	
1083	Submission of Silt Curtain Deployment	14 05MAR11	21MAR11		Submission of																		
1084	Submission of Silt Screen Deployment Plan	14 05MAR11	21MAR11		Submission of Submission No			Plan															
1085	Submission Noise Management Plan Apply Dumping Permit	14 05MAR11 30 18FEB11	21MAR11 19MAR11		Apply Dumping		ement Plan																
1100	Apply CNP	30 31JAN11	01MAR11		y CNP	greinit																	
1110	Apply C&D waste disposal	30 20JAN11	18FEB11		&D waste disp	osal		+		- + + + + + -				+	-1-1-1-1-		+ + + + +				- + + - +		
1120	Apply Discharge licence	30 18FEB11	19MAR11		Apply Discharg																		
1130	Notification of chemical waste Producer	30 20JAN11	18FEB11		tion of chemic		oducer																
1140	Notification to Labor Dept-Works	30 20JAN11	18FEB11	Notifica	tion to Labor D	Dept-Works C	Commencemer	nt															
1150	Submit Risk Ass to MTR	21 28FEB11	20MAR11	1.	Submit Risk As	ss to MTR																	
1260	Erect Hoarding	30 28FEB11	29MAR11	h hahara kasa	Erect Hoardi	ing		10000			10000			ורררד			T T T T I					1110	
1270	Demarcation of Marine Site Boundary	21 01MAR11	21MAR11]	Demarcation of	of Marine Si	te Boundary																
1280	Working Site Office establishment	14 27JAN11	09FEB11	🔲 Working S	ite Office estat	olishment																	
Monitoring]																						
1160	Takeover monitoring system from C1	0 21MAR11	•		Takeover mor		om from C1																
1180	Commence Monitoring- ADMS,etc	0 21MAR11			Commence N		la a a di la a in																
Dredging	•	0 2100/4111														1 1 1 1							
1070	Submit Dredging MS	30 18FEB11	19MAR11]::::::::::::::::::::::::::::::::::::::	Submit Dredgi	ng MS																	
1075	Accpetance of Dredging MS	0	19MAR11		Accpetance of																		
1078	Initial Hydrographic Survey	1 20MAR11	20MAR11		Initial Hydrogra																		
1200	Initial Dredging Works for Piling	15 22MAR11	05APR11		lnitial Drec	dging Works	for Piling																
1210	Final Hydrographic survey	3 07MAY12			+++++++++++++++++++++++++++++++++++++++			++++++					++++	Final I		ing Wor					++++		
1220	Final Dredging Works	7 10MAY12 70 17MAY12	16MAY12 25JUL12											Filla	Dieug	1.1.1		tion Hydi	rographi	SIIVEV			
Piling Wo	Confirmation Hydrographic survey	70 17/04112	200012													+ + +							
1240	Submit stage platform MS	30 10FEB11	11MAR11	Su Su	ıbmit stage pla	atform MS																	
1250	Submit piling MS	30 10FEB11	11MAR11	Su 💷 Su	រbmit piling Mទ	S																	
P1000	Erect temporary Piling Platform	120 06APR11	03AUG11				Erect	t tempora	ry Piling Pl	e qui t t t													
P1020	Pre-drilling	150 06JUN11	02NOV11						P	e-drilling						 T - "							
P1040	Bored Piles Construction and Testing	250 06JUL11	11MAR12		+++++++++++++++++++++++++++++++++++++++			+	1-1-1-1-1-1-1-	- + + + + + -	+	and and any local law law law of	- And the second second	Construct et piles a	and and the law lines	- tes tes tes all					-++-		
P1060	Drive Sheet piles along Bored piles	140 03NOV11	21MAR12											mantle Te				m					
P1080 P1100	Dismantle Temporary Piling Platform Dive sheet piles beyond precast seawall	50 25FEB12 90 17JAN12	14APR12 15APR12											e sheet p									
P1120	Trim pilehead to cut-off level	210 29SEP11	25APR12	1									Liii.	Trim pileł	1111								
P1140	Cut steel casing of bore piles	210 06OCT11	02MAY12	1										Cut stee	l casing	of bore	piles						
P1160	Cut sheet piles to design level for box units	120 08JAN12	06MAY12				L L L L L L L L . 							Cut she	et piles	s to desi	n level	for box i	units				
Act	Description	Orig Early Dur Start	Early Finish	JAN FEB MAR	APR MA		JUL AUG	CED.												NOV	DEC	JAN	FEB MAR
ID	Boompion	Dur Start	Finish	OAN PEB MAH	APR MA		2011 AUG	3EP		ON DEC	JAN	TEB MAK	APR	MAT	JUN 201		AUG	- SEP	001	NOV	DEC.	0AIA	2013
	20JAN11 19DEC12																					arly bar	
Data date 2	20JAN11					G	AMMON-LE	ADER J	IV							Works	Schedu	le of Ma				rogress l ritical bi	
Run date (Page number	05MAR11 IA Contract no. HK/2010/06																		EP-356/	2009	s	ummary	
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	1																						