



Lam Geotechnics Limited

Contract No. HK/2009/05  
Wanchai Development Phase II and Central-Wanchai Bypass  
Sampling, Field Measurement and testing Works (Stage 1)  
Monthly EM&A Report (September 2011)

**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 ENVIRONMENTAL 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**

**- SEPTEMBER 2011 -**

**CLIENTS:**

**Civil Engineering and Development  
Department**

**and**

**Highways Department**

**PREPARED BY:**

**Lam Geotechnics Limited**

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**CERTIFIED BY:**

Raymond Dai  
Environmental Team Leader

**DATE:**

11 October 2011

Ref.: AACWBIECEM00\_0\_1956L.11

13 October 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 (September 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 September 2011 dated 11 October 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	Mr. Jones Lai	by fax: 2714 5289
	CEDD	Mr. Patrick Keung	by fax: 2577 5040
	AECOM	Mr. Francis Leong / Mr. Stephen Lai	by fax: 2691 2649
	Lam	Mr. Raymond Dai	by fax: 2882 3331

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**EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – September 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 28<sup>th</sup> August 2011 to 27<sup>th</sup> September 2011. The cut-off date of reporting is at 27<sup>th</sup> 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:
- Reclamation works;
  - Geo-textile laying;
  - Drainage Construction works;
  - Outfall construction works (Open Channel U);
  - Sheet Piling;
  - Pre-casting of Coping; and
  - Construction & installation of Seawall Concrete Block
- iii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
- Installation of silt screen (type 1) at TST;
  - Seawall toe block installation for reinstating seawall at Zone B1-3;
  - Dredging within HKCEC Water Channel from CH160 to CH190 for Type 1 & 2 sediment;
  - Trench backfilling and seawall reinstatement for both the completed cross-harbour watermains and the seawall near Expo Promenade (Zone B1-3);
  - Installation of cross-harbour watermains nos. A8 & B8;
  - Final trimming within Principle Fairway for cross-harbour watermains installation;
  - Platform erection for crawler crane mobilization near the existing seawall at Salisbury Garden had been completed and WSD's consent had been given for mobilization of crawler crane to the jack-up barge. Mobilization;
  - The trench excavation works at Zone B1-4, B4-2, A1-2, A2-4A, A3-3, A4-3B, A4-3B, A4-3C and A5-5;
  - Trench excavation works at Zone A3-2A;
  - Excavation for jacking pits for pipe laying works by heading method along Convention Avenue at Zone A1-2A, A1-4A and A2-4A;
  - Heading No. H2, H5 and H6 (Mainlaying works by trenchless method); and
  - Trench excavation for a 1000 dia. Watermains at Salisbury Garden
- iv. During this reporting period, the major work activities for Contract no. HK/2009/02 included:

- Tseung Kwan O public fill sorting facility 18,615.6 m<sup>3</sup> sorted fill produced this month.
  - Steel fixing of Passenger Terminal Building was completed on 8 September 2011;
  - Demolition of existing ferry pier;
  - Racking piles and dredging work of Ferry Pier;
  - Formwork for lift shaft of Passenger Terminal Building;
  - Fixing G/F to 1/F R.C wall waling on Passenger Terminal Building;
  - 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;
  - Approximate 55m cooling water pipe was laid at Harbour Centre, Harbour Road and ex-pet garden;
  - Grouting for the cross road pipeline of Harbour Road;
  - Installation of PVC and G.I cable ducts was ongoing at Harbour Road;
  - Wall and column construction below -0.8 mPD;
  - Installation of submarine outfall pipe up to CHA-105 and CHB-130, continue backfill on the HDPE pipelines;
  - Dredging for submarine outfall pipe;
  - 3 out of 12 nos of pre-bored H-pile for box culverts N1 was reached to founding levels;
  - 1st and 2nd loading test of New Ferry Pier;
  - Marine piling works for new ferry pier was ongoing. 83 out of 83 nos. marine piles;
  - Dredging inside the piles was ongoing. 45 out of 83 piles;
  - Wall and column construction below -0.8 mPD;
  - Casting of the base slab of WSD Receiving Pit;
  - Excavation and lateral support for DSD receiving pits;
  - Half landing slab for P7, P8 & P9 Pumping Stations was completed, top slab false work & formwork erection;
  - Expo Drive East mass concreting coping formwork erection;
  - Levelling for proposed beam blocks in progress at Vertical Seawall T4 to T6; and
  - Commenced fabricating the steel frames for water diversion and temporary sheet piles walls for WCR2 reclamation.
- v. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
- Seawall block construction, reclamation work at TS4;
  - Maintenance dredging of navigation channel and mooring area;
  - Night time protection works at CHT;
  - Construction of dewatering well at Hung Hing Road and POC; and

- Precautionary works at Abutment A
- 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; and
  - 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. Three limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 7, 15 and 20 September 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 CMA1b, CMA2a, CMA3a, CMA4a, CMA5a and CMA6a. No exceedance was recorded in the reporting month.
- x. The odour patrol along the odour route with 8 sniffing locations was conducted by a qualified odour patrol member on 7 and 20 September 2011 at the concerned hours (afternoon for higher daily temperature). The odour intensity detected at 8 locations was found to be from level 0 up to level 1 which were below the Action Level.

Water Quality Monitoring

- xi. 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**.

**Table I Summary of Water Quality Monitoring Exceedances in Reporting Month**

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb						
		DO		Turbidity		SS		DO		Turbidity		SS		
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	0	0	0	0	0

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	0	0	0	0	0	0	1	1	0	0
	C9	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
	WSD7	0	0	0	1	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	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	0	0	0	0	0	0	0	0	0
	WSD21	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	2	0	0	0	0	0	4	0	0	0	0	0
<b>Total</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>

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.

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

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

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	2	2	4	1
	C7	3	0	4	2
	Ex-WPCWA SW	0	3	0	9
	Ex-WPCWA SE	1	5	5	8
<b>Total</b>		<b>6</b>	<b>10</b>	<b>13</b>	<b>20</b>

Complaints, Notifications of Summons and Successful Prosecutions

- xiii. There was one environmental complaints received on 26 August 2011. No further complaint was received after follow-up action and investigation in this reporting month.

Site Inspections and Audit

- xiv. 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

- xv. 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;
- Slotted panel fixing;
- Geo-textile laying;
- Drainage Construction works;
- Outfall construction works (Open Channel U);
- Sheet Piling;
- Pre-casting and Installation of Coping; and
- Construction & installation of Seawall Concrete Block

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

- Dredging works from CH190 to CH260 for the reclamation of HKCEC3W would be commenced upon giving 7-day advance notice to EPD;
- Reclamation of HKCEC3W (up to CH120) within the HKCEC Water Channel;
- Installation of sheet pile water channel at Dome Promenade (from CH120 to CH160);
- Installation of silt screen (type 3) at TST;
- Dredging works from CH50 to CH250 for subsequent cross-harbour watermain installation off TST would be commenced. A trial dredging operation near the Avenue of Stars would be demonstrated to the representatives of LCSD on 22 September.
- Installation of cross harbour watermain nos. A9 & B9 and A10 & B10;
- Sheet pile wall and the associated ground treatment works for the trenches of the proposed cross harbour watermain nos. A18 & B18 works be commenced after the subsequent removal of the temporary steel platform;
- Trench excavation works at Zone A1-2;
- Works would be continued out at Zone A2-3B, A3-3, A3-2A, A4-3B, A4-3B, A4-3C, A5-5, B1-4, B4-2 and B4-5;
- Heading Nos. H2, H5 and H6 (Mainlaying works by trenchless method); and
- Heading Nos. H3, H4 and H9 (Mainlaying works by trenchless method) would be

commenced after their corresponding jacking pits had been excavated in Convention Avenue.

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;
- Demolition of remaining finger pier;
- 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;
- Top soffit slab 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;
- The 3rd and 4th loading test of New Ferry Pier;
- All piles excavation at new ferry pier;
- 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 lateral support for receiving pits at Hung Hing Road;
- Installation of temporary sheet piles wall at WCR2; and
- Installation of the temporary water diversion steel frame

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

- Mooring rearrangement and dredging at ME4;
- Night time protection works at CHT;
- Construction of dewatering well at Hung Hing Road and POC; and
- Precautionary works at Abutment A

Contract no. HK/2010/06 - Wan Chai Development Phase II – Central – Wan Chai Bypass 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 28<sup>th</sup> August to 27<sup>th</sup> September 2011. The cut-off date of reporting is at 27<sup>th</sup> of each reporting month.

### 1.2 Structure of the Report

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



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

## 2. Project Background

### 2.1 Background

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

### 2.2 Scope of the Project and Site Description

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

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

2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. **Table 2.1** summarises the five individual DPs under this Project. **Figure 2.1** shows the locations of these Schedule 2 DPs.

**Table 2.1 Schedule 2 Designated Projects under this Project**

Item	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross-harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

### 2.3 Division of the Project Responsibility

2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.

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

**Table 2.2 Details of Individual Contracts under the Project**

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
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

## 2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in **Figure 2.2**. Key personnel and contact particulars are summarized in **Table 2.3**:

**Table 2.3 Contact Details of Key Personnel**

Party	Role	Post	Name	Contact No.	Contact Fax
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



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 Venture	Contractor under Contract no. HK/2009/01	Project Director	Mr. Simon Tong	9124 2471	2634 1626
		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 Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Chan Sing Cho	3658 3002	2827 9996
		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 Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Manager	Mr. M Y Wong	2823 7879	2528 5651
		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 no.	Project Manager	Mr. Simon Tong	9124 2471	2529 2880
		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:

- Reclamation works;
- Geo-textile laying;
- Drainage Construction works;
- Outfall construction works (Open Channel U);
- Sheet Piling;
- Pre-casting of Coping; and
- Construction & installation of Seawall Concrete Block

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

- Installation of silt screen (type 1) at TST;
- Seawall toe block installation for reinstating seawall at Zone B1-3;
- Dredging within HKCEC Water Channel from CH160 to CH190 for Type 1 & 2 sediment;
- Trench backfilling and seawall reinstatement for both the completed cross-harbour watermains and the seawall near Expo Promenade (Zone B1-3);
- Installation of cross-harbour watermains nos. A8 & B8;
- Final trimming within Principle Fairway for cross-harbour watermains installation;
- Platform erection for crawler crane mobilization near the existing seawall at Salisbury Garden had been completed and WSD's consent had been given for mobilization of crawler crane to the jack-up barge. Mobilization;
- The trench excavation works at Zone B1-4, B4-2, A1-2, A2-4A, A3-3, A4-3B, A4-3B, A4-3C and A5-5;
- Trench excavation works at Zone A3-2A;
- Excavation for jacking pits for pipe laying works by heading method along Convention Avenue at Zone A1-2A, A1-4A and A2-4A;
- Heading No. H2, H5 and H6 (Mainlaying works by trenchless method); and
- Trench excavation for a 1000 dia. Watermains at Salisbury Garden

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

- Tseung Kwan O public fill sorting facility 18,615.6 m<sup>3</sup> sorted fill produced this month.
- Steel fixing of Passenger Terminal Building was completed on 8 September 2011;
- Demolition of existing ferry pier;
- Racking piles and dredging work of Ferry Pier;
- Formwork for lift shaft of Passenger Terminal Building;
- Fixing G/F to 1/F R.C wall waling on Passenger Terminal Building;
- 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;
- Approximate 55m cooling water pipe was laid at Harbour Centre, Harbour Road and ex-pet garden;
- Grouting for the cross road pipeline of Harbour Road;
- Installation of PVC and G.I cable ducts was ongoing at Harbour Road;
- Wall and column construction below -0.8 mPD;
- Installation of submarine outfall pipe up to CHA-105 and CHB-130, continue backfill on the HDPE pipelines;
- Dredging for submarine outfall pipe;
- 3 out of 12 nos of pre-bored H-pile for box culverts N1 was reached to founding levels;
- 1st and 2nd loading test of New Ferry Pier;
- Marine piling works for new ferry pier was ongoing. 83 out of 83 nos. marine piles;
- Dredging inside the piles was ongoing. 45 out of 83 piles;
- Wall and column construction below -0.8 mPD;
- Casting of the base slab of WSD Receiving Pit;
- Excavation and lateral support for DSD receiving pits;
- Half landing slab for P7, P8 & P9 Pumping Stations was completed, top slab falsework & formwork erection;
- Expo Drive East mass concreting coping formwork erection;
- Levelling for proposed beam blocks in progress at Vertical Seawall T4 to T6; and
- Commenced fabricating the steel frames for water diversion and temporary sheet piles walls for WCR2 reclamation.

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

- Seawall block construction, reclamation work at TS4;
- Maintenance dredging of navigation channel and mooring area;
- Night time protection works at CHT;
- Construction of dewatering well at Hung Hing Road and POC; and



- Precautionary works at Abutment A

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; and
- 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;
- Slotted panel fixing;
- Geo-textile laying;
- Drainage Construction works;
- Outfall construction works (Open Channel U);
- Sheet Piling;
- Pre-casting and Installation of Coping; and
- Construction & installation of Seawall Concrete Block

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

- Dredging works from CH190 to CH260 for the reclamation of HKCEC3W would be commenced upon giving 7-day advance notice to EPD;
- Reclamation of HKCEC3W (up to CH120) within the HKCEC Water Channel;
- Installation of sheet pile water channel at Dome Promenade (from CH120 to CH160);
- Installation of silt screen (type 3) at TST;
- Dredging works from CH50 to CH250 for subsequent cross-harbour watermain installation off TST would be commenced. A trial dredging operation near the Avenue of Stars would be demonstrated to the representatives of LCSD on 22 September.
- Installation of cross harbour watermain nos. A9 & B9 and A10 & B10;
- Sheet pile wall and the associated ground treatment works for the trenches of the proposed cross harbour watermain nos. A18 & B18 works be commenced after the subsequent removal of the temporary steel platform;
- Trench excavation works at Zone A1-2;
- Works would be continued out at Zone A2-3B, A3-3, A3-2A, A4-3B, A4-3C, A5-5, B1-4, B4-2 and B4-5;
- Heading Nos. H2, H5 and H6 (Mainlaying works by trenchless method); and
- Heading Nos. H3, H4 and H9 (Mainlaying works by trenchless method) would be commenced after their corresponding jacking pits had been excavated in Convention

Avenue.

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;
- Demolition of remaining finger pier;
- 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;
- Top soffit slab 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;
- The 3rd and 4th loading test of New Ferry Pier;
- All piles excavation at new ferry pier;
- 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 lateral support for receiving pits at Hung Hing Road;
- Installation of temporary sheet piles wall at WCR2; and
- Installation of the temporary water diversion steel frame

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

- Mooring rearrangement and dredging at ME4;
- Night time protection works at CHT;
- Construction of dewatering well at Hung Hing Road and POC; and
- Precautionary works at Abutment A

Contract no. HK/2010/06 - Wan Chai Development Phase II – Central – Wan Chai Bypass 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	Valid
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	314911	9 Mar 2010	N/A	Valid
	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
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

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

- 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-RS0107-11	8 Feb 2011	16 Mar 2011 to 15 Sep 2011	Expired
	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	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) & Type 2 – Confined Marine Disposal)	EP/MD/12-043	2 Aug 2011	08 Aug 2011 to 07 Sept 2011	Expired
	EP/MD/12-057	5 Sep 2011	08 Sept 2011 to 07 Oct	Valid
Permit for Dumping at Sea - Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	EP/MD/12-050	18 Aug 2011	19 Aug 2011 to 18 Sept 2011	Expired
	EP/MD/12-063	22 Sept 2011	23 Sept 2011 to 22 Oct 2011	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010

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
Conditions 2.8 and 2.9	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010

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

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 (CNP) for non-piling equipment	GW-RS0343-11	11 April 2011	25 Apr 2011 to 10 Oct 2011	Valid
	GW-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Valid



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
	GW-RE0311-11	4 May 2011	5 May 2011 to 31 Oct 2011	Valid
	GW-RS0401-11	3 May 2011	18 May 2011 to 17 Nov 2011	Valid
	GW-RS0414-11	3 May 2011	9 May 2011 to 8 Nov 2011	Withdrawn
	GW-RS0423-11	9 May 2011	22 May 2011 to 21 Nov 2011	Valid
	GW-RS0430-11	9 May 2011	16 May 2011 to 15 Nov 2011	Withdrawn
	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-RS0473-11	27 May 2011	01 Jun 2011 to 30 Nov 2011	Withdrawn
	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	Valid
	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
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 May 2015	Valid
	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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
	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 Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-046	4 Aug 2011	10 Aug 2011 to 9 Sept 2011	Expired
	EP/MD/12-056	2 Sept 2011	10 Sept 2011 to 9 Oct 2011	Valid

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

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	Silt Curtain Deployment Plan Rev. H	15 Feb 2011
Condition 2.9	Silt Screen Deployment Plan	21 April 2010
	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
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

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



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-RS0220-11	16 Mar 2011	16 Mar to 15 Sep 2011	Expired
	GW-RS0308-11	1 Apr 2011	4 Apr to 27 Sep 2011	Cancelled
	GW-RS0594-11	27 Jun 2011	29 Jun to 28 Dec 2011	Cancelled
	GW-RS0710-11	3 Aug 2011	5 Aug 2011 to 1 Feb 2012	Cancelled
	GW-RS0727-11	11 Aug 2011	24 Aug 2011 to 23 Feb 2012	Cancelled
	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
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-037	20 Jul 2011	20 Jul 2011 to 19 Jan 2012	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-042	28 Jul 2011	1 Aug 2011 to 31 Aug 2011	Expired
	EP/MD/12-051	29 Aug 2011	1 Sep 2011 to 30 Sep 2011	Valid till 30 Sep 2011
	EP/MD/12-069	27 Sep 2011	1 Oct 2011 to 31 Oct 2011	To be Valid on 1 Oct 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 Condition**

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**.

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0293-11	1 Apr 2011	6 Apr 2011 to 5 Oct 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	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) & Type 2 – Confined Marine disposal)	EP/MD/12-029	11 Aug 2011	12 Aug 2011 to 11 Sept 2011	Expired
	EP/MD/12-059	11 Sep 2011	12 Sep 2011 to 11 Oct 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 Station**

Station	Description
M1a	Harbour Road Sports Centre
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

###### REAL-TIME NOISE MONITORING STATIONS

- 4.1.2. The real-time noise monitoring stations for the Project are listed and shown in **Table 4.2** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

**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 ( $L_{eq}$ ).  $L_{eq(30\text{ minutes})}$  shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods,  $L_{eq(5\text{ minutes})}$  shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.4. 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 <sup>TM</sup> 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.

**Table 4.3 Air Monitoring Station**

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

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

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and

any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

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

#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

- 0.6 - 1.7 m<sup>3</sup> 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 cm<sup>2</sup>;
- 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 demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit the measurement performed by the laboratory to ensure the accuracy of measurement results.

- 4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

#### IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
- be at least 16 years of age;
  - be free from any respiratory illnesses; and
  - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min before and during odour patrol
- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in **Figure 4.1** to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
- 0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
  - 1 - Slight Identifiable odour, and slight chance to have odour nuisance;
  - 2 - Moderate Identifiable odour, and moderate chance to have odour nuisance;
  - 3 - Strong Identifiable, likely to have odour nuisance;
  - 4 - Extreme Severe odour, and unacceptable odour level.
- 4.2.16. The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in **Appendix 6.1**.

4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb. The certificate for the qualified odour panel member is shown in **Appendix 4.2**.

### 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.

**Table 4.4 Marine Water Quality Stations for Water Quality Monitoring**

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
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
<b>Cooling Water Intake</b>			
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



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.

**Table 4.5 Marine Water Quality Monitoring Frequency and Parameters**

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

Notes:

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

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

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

4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

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

#### TURBIDITY MEASUREMENT INSTRUMENT

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

#### SAMPLER

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

#### SAMPLE CONTAINER AND STORAGE

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

#### WATER DEPTH DETECTOR

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

#### SALINITY

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

#### MONITORING POSITION EQUIPMENT

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

#### CALIBRATION OF IN-SITU INSTRUMENTS

- 4.3.16. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 4.3.17. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 4.3.18. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 4.3.19. Current calibration certificates of equipments are presented in **Appendix 4.2**.

**LABORATORY MEASUREMENT / ANALYSIS**

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

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

- 4.3.21. The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 4.3.22. Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in **Table 4.6** and **Figure 4.1**.

**Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring**

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

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

**DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM**



- 4.3.24. During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 4.3.25. The 24 hours monitoring of turbidity 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 shall 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 **Appendix 5.2**.

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

Station	Description
M1a	Harbour Road Sports Centre

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

5.1.6. Three limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 7, 15 and 20 September 2011 during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool.

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

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.

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

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

5.1.8. 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 **Appendix 5.5**.

**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.

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

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

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 until obtainment of a representative long-term air monitoring station.

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

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**

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

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

- 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

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

- 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
CMA3a	CWB PRE Site Office

- 5.3.7. The odour patrol along the odour route with 8 sniffing locations was conducted by a qualified odour patrol member on 7 and 20 September 2011 at the concerned hours (afternoon for higher daily temperature). The odour intensity detected at 8 locations was found to be from level 0 up to level 1 which were below the Action Level. The details of the odour patrol results and meteorological conditions and on the date of odour patrol are shown in **Appendix 5.3**.
- 5.3.8. Additional sniffing location, OP2a was conducted for the place where is in the new shoreline of ex-WPCWA (reclamation area) or odour likely detected by the odour patrol member. The odour patrol route and the sniffing locations are shown in **Figure 4.1**.

#### 5.4 Water Monitoring Results

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

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

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

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
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
<b>Cooling Water Intake</b>			



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

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

5.4.2. 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
<b>WSD Salt Water Intake</b>			
WSD7	Kowloon South	834150.0	818300.3
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
<b>Cooling Water Intake</b>			
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.

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

5.4.3. 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
<b>WSD Salt Water Intake</b>			
WSD21	Wan Chai	836220.8	815940.1
<b>Cooling Water Intake</b>			
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.

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

- 5.4.4. 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
<b>Cooling Water Intake</b>			
C2	Telecom House	835647.9	815864.4

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

- 5.4.5. 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.

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

Station Ref.	Location	Easting	Northing
<b>Cooling Water Intake</b>			
C6	Excelsior Hotel	837009.6	815999.3
C7	Windsor House	837193.7	816150.0

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

- 5.4.6. 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 29 August 2011, 1, 3, 5, 8, 10, 12, 14, 16, 19, 21, 24 and 26 September 2011 were exceeded. These DO exceedances were considered not related to Project.
- 5.4.7. There was no dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter in this reporting month. Thus, no daily monitoring of suspended solids and 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted.
- 5.4.8. 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 and no compliance checking for intake water monitoring at C6 was undertaken in this reporting month.

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

**Table 5.14 Summary of Water Quality Monitoring Exceedances in Reporting Month**

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	0	0	0	0	0	0	1	1	0	0
	C9	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
	WSD7	0	0	0	1	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	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	0	0	0	0	0	0	0	0	0
	WSD21	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	2	0	0	0	0	0	4	0	0	0	0	0
<b>Total</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>

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.

5.4.10. 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**

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	2	2	4	1
	C7	3	0	4	2
	Ex-WPCWA SW	0	3	0	9

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
	Ex-WPCWA SE	1	5	5	8
<b>Total</b>		<b>6</b>	<b>10</b>	<b>13</b>	<b>20</b>

5.4.11. Investigations were found that the exceedances are not related to the Project works. The details of the recorded exceedances 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**.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	NIL	N/A
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	146.25	589.875	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Chemical waste disposed, kg	N/A	N/A	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	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 <sup>3</sup>	0 (Bulk Volume)	129,200 (Bulk Volume)	East of Sha Chau

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

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

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	2259.75	9,088.50	TKO137, TM38

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
disposed, m <sup>3</sup>			
Inert C&D materials recycled, m <sup>3</sup>	0	389.96	N/A
			N/A
Non-inert C&D materials disposed, m <sup>3</sup>	31.78	433.00	SENT Landfill
Non-inert C&D materials recycled, kg	459	116,917	N/A
Chemical waste disposed, kg	1,000	4,830	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	6,163 (Bulk Volume)	82,733.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	2,428 (Bulk Volume)	15,027 (Bulk Volume)	East of Cha Chau

- 5.5.4. There were marine sediments Type 1 – Open Sea Disposal disposed in the reporting month. The maximum dredging rate in HKCEC3w and cross harbour water main are 446m<sup>3</sup> and 623m<sup>3</sup> per day respectively, which is complied with the recommended maximum dredging rate, 1500m<sup>3</sup> per day listed in Table 2 of FEP-02/356/2009.

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	12,712	38,347	TKO137
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	16	184	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Chemical waste disposed, kg	0	2,115	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	0	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 <sup>3</sup>	0	104,390 (Bulk volume)	East of Sha Chau

5.5.6. There was no marine sediment disposed in the reporting month.

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

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**.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	16,543.8	26,093.7	Tuen Mun Area 38
	5.4	64.1	TKO137 FB
Inert C&D materials recycled, m <sup>3</sup>	NIL	184.0	To Contract HY/2009/11
	275	304	ex-PCWA
Non-inert C&D materials disposed, m <sup>3</sup>	12.7	117.2	SENT Landfill
Non-inert C&D materials recycled, kg	0	13,815	N/A
Chemical waste disposed, kg	2,000	4,000	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	5,237 (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 <sup>3</sup>	560 (Bulk Volume)	142,602 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL (Bulk Volume)	2,750 (Bulk Volume)	East of Sha Chau

5.5.8. In the reporting month, there were marine sediment Type 1 – Open Sea Disposal and marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed from the maintenance dredging of navigation channel and mooring area. The maximum dredging rate, 907m<sup>3</sup> 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.

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	678	678	N/A
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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 <sup>3</sup>	0 (Bulk Volume)	2,338 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	0 (Bulk Volume)	11,165 (Bulk Volume)	East Sha Chau

5.5.10. In the reporting month, there was no dredging works at MTR tunnel crossing and no marine sediment disposed.

## 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.

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

- 6.1.3. Three limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 7, 15 and 20 September 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.

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

- 6.1.4. No exceedance was recorded in the reporting month.

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

- 6.1.5. 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.

- 6.3.2. Odour patrol was conducted on 7 and 20 September 2011. No exceedance was recorded in reporting month.



## 6.4 Water Quality Monitoring

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

6.4.1. Referring to the exceedances shown in **Table 5.9**, the turbidity exceedances were recorded at C8 on 14 and 16 September 2011. Since there were numerous unknown outfalls from the nearby coastal area closed to the cooling intakes C8, it causes the potential for accumulation of pollutants near the intakes and may lead to potential water quality deterioration at the seawater intake points.

6.4.2. Major marine work was backfilling at NPR2E on 14 and 16 September 2011. Proper condition of silt curtain was provided between the barge and the seawall during the filling material transportation. The recorded turbidity 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. Exceedance of turbidity level at WSD7 was recorded on 1 September 2011. Checked with Contractor's works on 1 Sep 2011, there was no marine 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 screen at WSD7 was in proper condition, it was considered that recorded exceedance was no related to Project.

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

6.4.4. No exceedance was recorded in the reporting month.

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

6.4.5. There were DO level exceedances recorded at the ex- WPCWA and Causeway Bay Typhoon Shelter on 31 August, 1, 3, 5, 8, 10, 12, 14, 16, 19, 21, 24 and 26 September 2011. The low DO levels were possible in relation to the low flow and recorded low water depth. In view that no odour nuisance was detected during monitoring, the DO exceedances were considered not related to the Project. With reference to the odour patrol results on 7 and 20 September 2011, the detected odour intensity at ex- WPCWA and Causeway Bay Typhoon Shelter was found to be from level 0 up to level 1 which were below the Action Level. These DO 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

6.4.6. No exceedance was recorded in the reporting month.

6.4.7. Summary for notification of exceedances can be referred to **Appendix 6.2**.

## 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. There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

## **7. Cumulative Construction Impact due to the Concurrent Projects**

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

7.0.2. From the Monthly EM&A report (August 2011) of Central Reclamation Phase III (CRIII) the key works in September 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 and HKCEC1, seawall block construction at TCBR1W, maintenance dredging of navigation channel and mooring area, HKCEC3w 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. As no project related exceedance was recorded in the Project, it was considered no adverse environmental impact caused by the Project works. Thus, it is evaluated the cumulative construction impact 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. Five site inspections for Contract no. HY/2009/11 were carried out on 31 August, 6, 14, 20 and 27 September 2011. The results of these inspections and outcomes are summarized in **Table 8.1**.

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

Item	Date	Observations	Action taken by Contractor	Outcome
110831_01	31-Aug-11	No particular finding.	--	--
110906_01	6-Sep-11	As the material at the seafront dropped into the sea at NPR3 during the filling material transshipment, silty water was observed between caisson seawall and barge. Even though silt curtain was deployed during the operation, the contractor should clear those filling materials near the seafront.	Removal of the filling materials near the seafront	Completion as observed on 20-Sep-11
110914_01	14-Sep-11	Fill material accumulated along the seafront of NPR3 due to dropping off during transshipment used to be cleaned up before end of work everyday.	Removal of the filling materials near the seafront	Completion as observed on 20-Sep-11
110914_02	14-Sep-11	Fill material temporary stored at the north of channel U need to be cleaned to avoid being washed by tidal wave.	Removal of the fill material in the U-channel	Completion as observed on 20-Sep-11
110920_01	20-Sep-11	No particular finding	--	Completion as observed on 27-Sep-11
110927_01	27-Sep-11	Idle stockpiles shall be covered well or transported away from seafront.	Trimming down the stockpile and cover the stockpile where applicable.	Completion as observed on 4-Oct-11

8.0.3. Four site inspections for Contract no. HK/2009/01 were carried out on 31 August, 7, 14 and 22 September 2011. Results of these inspections and outcomes are summarized in Table 8.2.

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

Item	Date	Observations	Action taken by Contractor	Outcome
110831_01	31-Aug-11	Floating silt curtain at HKCEC water channel and east bridge shall be maintained.	Weighting down the silt curtain	Completion as observed on 7-Sep-11
110831_02	31-Aug-11	3-sides with top cover enclosure for the grouting work shall be enhanced the effectiveness to avoid dust emission.	Providing the proper shelter when grouting mixing	Completion as observed on 7-Sep-11
110831_03	31-Aug-11	FEP and relevant CNP shall be displayed at site access of Pump House P5.	Adhering permit s and licences at the site access	Completion as observed on 7-Sep-11
110831_04	31-Aug-11	Material shall be relocated away from the trees at P5.	Relocation of the material away from	Completion as observed on

Item	Date	Observations	Action taken by Contractor	Outcome
			the trees	7-Sep-11
110907_01	7-Sep-11	Contractor was reminded to close the door of the plants to avoid noise emission.	Closure of the door of plants	Completion as observed on 14-Sep-11
110914_01	14-Sep-11	The discharge pipes arrangement at TST shall be improved to proceed the wastewater treatment	Improvement of the drainage system at TST	Completion as observed on 22-Sep-11
110922_01	22-Sep-11	The construction material was found located closed to the trees at TST. Contractor was reminded to relocate the materials away from the trees.	Relocation of the material away from the trees	Completion as observed on 28-Sep-11
110922_02	22-Sep-11	The drain hole of the drip tray at HKCEC1 shall be plugged.	Plugging the drain hole of the drip tray and remove the stagnant water inside it	Completion as observed on 28-Sep-11

8.0.4. Four site inspections for Contract no. HK/2009/02 were carried out on 1, 8, 15 and 21 September 2011 during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.3**.

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

Item	Date	Observations	Action taken by Contractor	Outcome
110901_01	1-Sep-11	Protective screen at mud-barge shall be regular maintained.	Providing the proper protective screen at the mud barge	Completion as observed on 8-Sep-11
110908_01	8-Sep-11	Rock-fill material along the walkway of derrick barge (B22338Y) shall be removed.	Regular removal of the fill material at the walkway	Completion as observed on 15-Sep-11
110908_02	8-Sep-11	Sand was observed located next to the gully at Wan Shing Street. Protective measure to the drain shall be provided.	Removal of the sand near the gully. Sand bags were provided around the gully.	Completion as observed on 15-Sep-11
110908_03	8-Sep-11	Idling stockpile at Wan Shing Street and Finger Pier shall be covered or other measures to avoid dust emission.	Covered the stockpile by tarpaulin sheet	Completion as observed on 15-Sep-11
110915_01	15-Sep-11	Oil leakage was observed from the crawler drill rig at receiving pit.	Maintenance of the excavator and clearance of the oil stain.	Completion as observed on 21-Sep-11
110921_01	21-Sep-11	The silt curtain shall be enhanced to have sufficient depth for the rock filling works.	Providing proper silt curtain when the rock filling work was undertaken.	Completion as observed on 30-Sep-11
110921_01	21-Sep-11	The sedimentation tank shall be enhanced for the wastewater treatment in Wan Shing Street.	Additional sedimentation tanks were provided at Wan Ching Street.	Completion as observed on 30-Sep-11
110921_01	21-Sep-11	Chemical container at Wan Shing Street shall be properly stored.	Drip tray was provided for the chemical container.	Completion as observed on 30-Sep-11

8.0.5. Five site inspections for Contract no. HY/2009/15 were carried out on 30 August, 6, 15, 20 and 27 September 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**

Item	Date	Observations	Action taken by Contractor	Outcome
110830_01	30-Aug-11	Drip tray shall be plug and the stagnant water inside it shall be removed.	Plugging the drain hole of the drip tray and removed the stagnant water inside it	Completion as observed on 6-Sep-11
110830_02	30-Aug-11	Water spraying shall be conducted for dust suppression.	Water spraying on dry dusty surface.	Completion as observed on 6-Sep-11
110830_03	30-Aug-11	The contractor was reminded to instruct the concrete driver to use wheel washing facilities at EXTCPWA.	Instructed the concrete trucks' drivers to use wheel washing facilities	Completion as observed on 6-Sep-11
110906_01	6-Sep-11	Gaps were found between seawall blocks (SE and NE corner of TS1). The contractor was reminded to fill them up in order to prevent any overflow.	Filling the gaps up in order to prevent any overflow of surface runoff	Completion as observed on 15-Sep-11
110906_02	6-Sep-11	Drip tray shall be provided for oil drum as well as chemical label.	Providing drip tray and chemical label for oil drum	Completion as observed on 15-Sep-11
110915_01	15-Sep-11	Oil leakage was observed from the broken oil drums. The contractor should provide drip tray for oil drum storage, and disposed of the oil stains as chemical waste. (abutment A)	Provide drip tray for oil drum and treated the contaminated soil as chemical waste	Completion as observed on 27-Sep-11
110915_02	15-Sep-11	Silty water was observed discharged into the sea, even through the water was treated by waste water treatment plant. The contractor was reminded to review the efficiency of the waste water treatment plant. (TS1)	Reviewed the efficiency of the waste water treatment plant	Completion as observed on 20-Sep-11
110920_01	20-Sep-11	Some Gaps between seawall blocks were found not filled at TS1.	Filling the gaps up in order to prevent any overflow	Completion as observed on 27-Sep-11
110920_02	20-Sep-11	Wastewater from shoes washing facility was found leakage from the drainage at TS1. The contractor should improve the drainage system to collect the water	Improvement of the drainage system to collect and treat the waste water	Completion as observed on 27-Sep-11
110920_03	20-Sep-11	Relocation of the oil drums under abutment A was observed and without drip tray. The soil was contaminated by the leakage oil.	Provided drip tray for oil drum and treated the contaminated soil as chemical waste	Completion as observed on 27-Sep-11
110920_04	20-Sep-11	Stockpile at TS4 near the seafront should be covered properly.	Provide tarpaulin or clean up the stockpile near the seafront	Completion as observed on 27-Sep-11
110927_01	27-Sep-11	Wastewater was found discharged	Treated the water	Completion as

Item	Date	Observations	Action taken by Contractor	Outcome
		to the u-channel near POC. The contractor was reminded to treat the water prior to discharge properly.	prior to discharge properly	observed on 4-Oct-11
110927_02	27-Sep-11	Wastewater leakage generated from the hydraulic excavator was observed at Ex-WPCWA.	Tidy up the wastewater	Completion as observed on 4-Oct-11
110927_03	27-Sep-11	The contractor was reminded to enclose the dredging point by silt curtain (temporary monitoring area)	Enclosed the dredging point by silt curtain	Completion as observed on 4-Oct-11

8.0.6. Five site inspections for Contract no. HK/2010/06 were carried out on 29 August, 5, 12, 22 and 27 September 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**

Item	Date	Observations	Action taken by Contractor	Outcome
110829_01	29-Aug-11	Floating debris was found between western platform and barge. It shall be cleared up.	Maintenance of the silt curtain	Completion as observed on 5-Sep-11
110829_02	29-Aug-11	Drain pipe shall be extended the edge at eastern platform.	Extension of drain pipe to the edge at eastern platform.	Completion as observed on 5-Sep-11
110905_01	5-Sep-11	Floating debris inside the silt curtain shall be removed.	Regular clearance of floating debris.	Completion as observed on 12-Sep-11
110912_01	12-Sep-11	Drainage pipe along the west platform shall be improved	Improvement of the drainage pipe at west platform.	Completion as observed on 22-Sep-11
110922_01	22-Sep-11	The tarpaulin for the shelter of grouting mixer shall be sealed up to achieve the dust suppression.	Sealing up the tarpaulin for the shelter	Completion as observed on 27-Sep-11
110922_02	22-Sep-11	Regular water spraying on the dusty surface on the platform.	Water spraying on the surface regularly.	Completion as observed on 27-Sep-11
110927_01	27-Sep-11	The debris at west platform shall be removed.	Removal of debris at the platform.	Completion as observed on 4-Oct-11

## 9. Complaints, Notification of Summons and Prosecution

- 9.0.1. There was one environmental complaint received on 26 August 2011 for the investigation and follow-up action in the reporting month.
- 9.0.2. A water impact complaint was received by ET on 29 August 2011. It was complained by Mr. Au from Cayley Property Management Limited (CPML) that large amount of rubbishes were found at the harbour 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 after the contractors 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. An ad-hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractors of HY/200911 and HY/2009/19, ET and IEC on 29 August 2011.
- 9.0.3. During on-site inspection, floating refuses were 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. The contractors were reminded to strengthen the communication with City Garden and no further complaint from complainant was received after proposed the mitigation measure.
- 9.0.4. To follow up the ICC complaint no. 1 – 306740207 regarding the discharged muddy water from work site to the seafront near Oil Street during heavy rain in last month, it was confirmed with RE that 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.
- 9.0.5. 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.
- 9.0.6. Contractors were advised to relocate the loose materials 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.
- 9.0.7. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1.**

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

**Table 9.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	21
September 2011	1
<b>Project-to-Date</b>	<b>22</b>

**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
<b>Total</b>	<b>-</b>	<b>0</b>	<b>0</b>



**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**.

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/11	<ul style="list-style-type: none"> <li>• Reclamation works;</li> <li>• Slotted panel fixing;</li> <li>• Geo-textile laying;</li> <li>• Drainage Construction works;</li> <li>• Outfall construction works (Open Channel U);</li> <li>• Sheet Pilling;</li> <li>• Pre-casting and Installation of Coping; and</li> <li>• Construction and installation of seawall concrete block</li> </ul>	<ul style="list-style-type: none"> <li>• To avoid concurrent noisy operation</li> <li>• To locate the plant and equipments far away to the noise sensitive receivers</li> <li>• Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> <li>• Daily clearance of floating debris behind the silt screen</li> </ul>
HK/2009/01	<ul style="list-style-type: none"> <li>• Dredging works from CH190to CH260 for the reclamation of HKCEC3W would be commenced upon giving 7-day advance notice to EPD;</li> <li>• Reclamation of HKCEC3W (up to CH120) within the HKCEC Water Channel;</li> <li>• Installation of sheet pile water channel at Dome Promenade (from CH120 to CH160);</li> <li>• Installation of silt screen (type 3) at TST;</li> <li>• Dredging woks from CH50 to Ch250 for subsequent cross-harbour watermain installation off TST would be commenced. A trial dredging operation near the Avenue of Stars would be demonstrated to the representatives of LCSD on 22 September.</li> <li>• Installation of cross harbour watermain nos. A9 &amp;B9 and A10 &amp; B10;</li> <li>• Sheet pipe pile wall and the associated ground treatment works for the trenches of the proposed cross harbour watermaines nos. A18 &amp; B18 works be commenced after the subsequent removal of the temporary steel platform;</li> <li>• Trench excavation works at Zone A1-2;</li> <li>• Works would be continued out at Zone A2-3B, A3-3, A3-2A, A4-3B, A4-3B, A4-3C, A5-5, B1-4, B4-2 and B4-5;</li> <li>• Heading Nos. H2, H5 and H6</li> </ul>	<ul style="list-style-type: none"> <li>• To conform the installation and setting as in the silt screen deployment plan</li> <li>• Frequency spray water on the dry dusty road and on the surface of concrete breaking</li> <li>• To cover the dusty material or stockpile by impervious sheet</li> <li>• To space out noisy equipment and position as far as possible from sensitive receiver.</li> <li>• To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance.</li> <li>• Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum</li> <li>• Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>

Contract No.	Key Construction Works	Recommended Mitigation Measures
	<p>(Mainlaying works by trenchless method); and</p> <ul style="list-style-type: none"> <li>• Heading Nos. H3, H4 and H9 (Mainlaying works by trenchless method) would be commenced after their corresponding jacking pits had been excavated in Convention Avenue.</li> </ul>	
HK/2009/02	<ul style="list-style-type: none"> <li>• Operating Tseung Kwan O Public Fill Sorting Facility;</li> <li>• Construction of passenger terminal;</li> <li>• Demolition of remaining finger pier;</li> <li>• Construction of mass seawall coping at Expo Drive East;</li> <li>• Trench excavation and pipe laying works along Harbour Road;</li> <li>• Trench excavation and deck over at Tonnochy Road;</li> <li>• Top soffit slab at P7, P8 &amp; P9 pump stations;</li> <li>• Construction above -0.8mPD at Wan Shing Street for WSD Salt Water Intake;</li> <li>• Pipeline jacking WSD intake A.</li> <li>• Pre-bored sheet pile works for salt water intake culvert Bay1b &amp; Bay 2;</li> <li>• Pre-bored H-pile for Box Culvert N1 at WCR1 Area;</li> <li>• The 3rd and 4th loading test of New Ferry Pier;</li> <li>• All piles excavation at new ferry pier;</li> <li>• Grouting plug in piles of New Ferry Pier;</li> <li>• Concreting for marine piles at new ferry pier;</li> <li>• Dredging and fabrication of HDPE pipe diffuser section for submarine outfall pipes;</li> <li>• Backfilling of bagged concrete and rockfills for the installed submarine outfall pipes;</li> <li>• Excavation and lateral support for receiving pits at Hung Hing Road;</li> <li>• Installation of temporary sheet piles wall at WCR2; and</li> <li>• Installation of the temporary water diversion steel frame</li> </ul>	<ul style="list-style-type: none"> <li>• To cover the dusty material or stockpile by impervious sheet;</li> <li>• Frequency spray water on the dry dusty road and on the surface of concrete breaking</li> <li>• To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission</li> <li>• To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>• Movable noise barrier shall be deployed for demolition works</li> <li>• Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>
HY/2009/15	<ul style="list-style-type: none"> <li>• Mooring rearrangement and dredging at ME4;</li> <li>• Night time protection works at CHT;</li> <li>• Construction of dewatering well at Hung Hing Road and POC; and</li> <li>• Precautionary works at Abutment A</li> </ul>	<ul style="list-style-type: none"> <li>• To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>• Frequency spray water on the dry dusty road and on the surface of concrete breaking</li> <li>• To cover the dusty material or stockpile by impervious sheet</li> <li>• To space out noisy equipment and position as far as possible from sensitive receiver.</li> </ul>

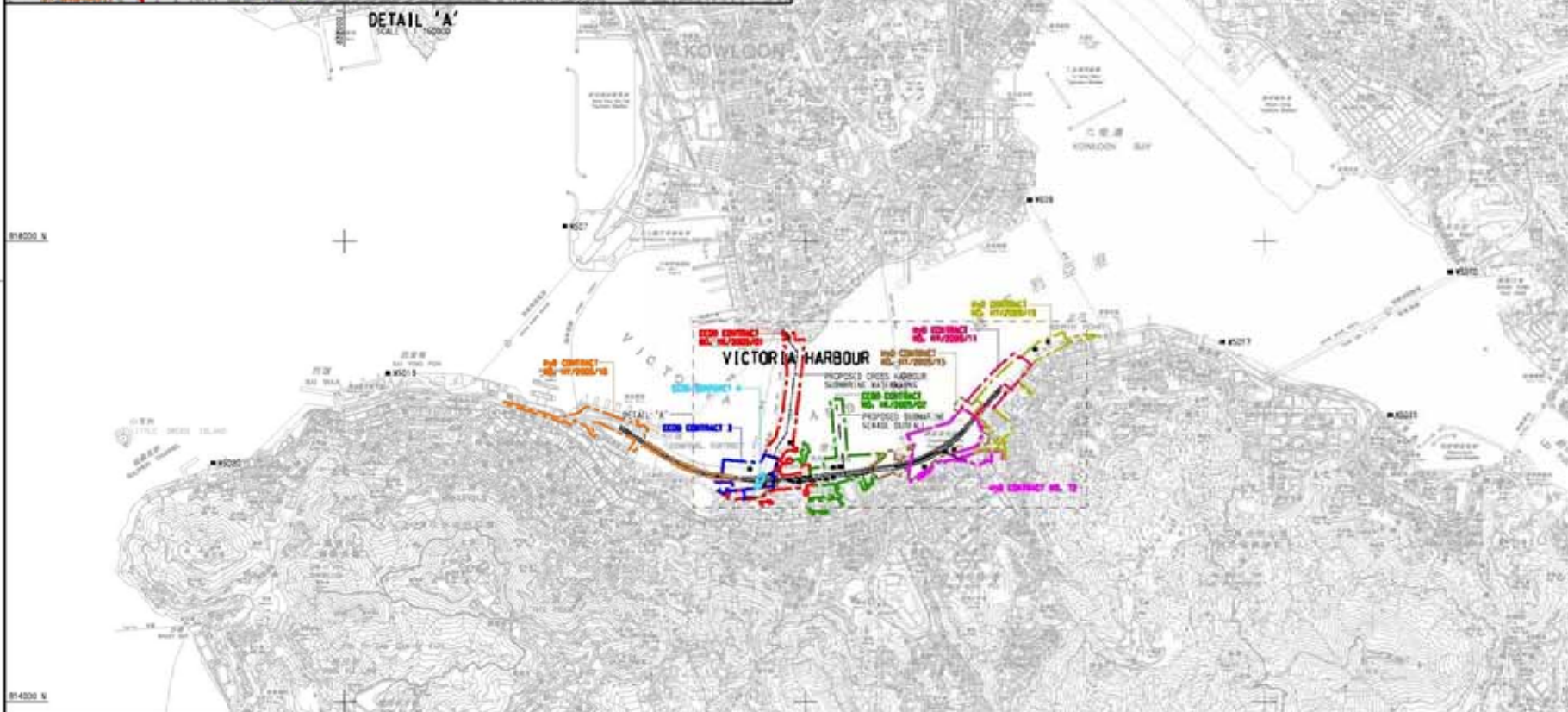
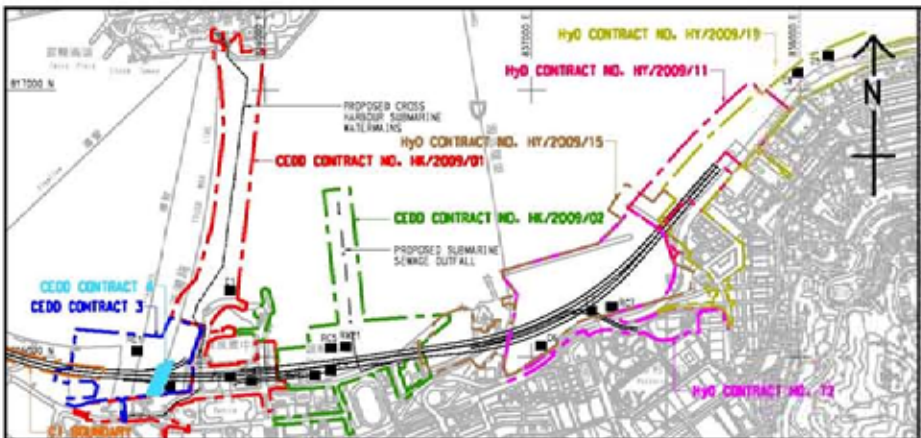


Contract No.	Key Construction Works	Recommended Mitigation Measures
		<ul style="list-style-type: none"><li>• Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li></ul>
HK/2010/06	<ul style="list-style-type: none"><li>• Installation of bored pile casing;</li><li>• Excavation of bored piles;</li><li>• Bored Pile Concreting;</li><li>• Pre-drilling works; and</li><li>• Installation of temporary staging platforms</li></ul>	<ul style="list-style-type: none"><li>• To conform the installation and setting as in the silt screen and silt curtain deployment plan</li><li>• To space out noisy equipment and position as far as possible from sensitive receiver.</li><li>• Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li></ul>



***Figure 2.1***

***Project Layout***



- LEGEND:**
- WATER QUALITY MONITORING STATIONS
- COOLING WATER INTAKES**
- D1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
  - D2 TELECOM HONG KONG ACADEMY FOR PERFORMING ARTS / SALT ON CENTRE
  - D3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE 1
  - D4 WAN CHAI TOWER AND GREAT EXHIBITION CENTRE
  - D5 SUN HANG KAI CENTRE
  - D6 PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
  - D7 WINDSOR HOUSE
  - D8 CITY GARDEN
  - D9 PREVIENT CENTRE
  - H03 PROPOSED HERFA EXTENSION
  - H05 SUN HANG KAI CENTRE (REPROVISION)
  - H07 WINDSOR HOUSE (TEMPORARY REPROVISION)
- MSD SALT WATER INTAKE**
- W521 WAN CHAI
  - W401 WAN CHAI (REPROVISION)
  - W501 GEMUNION ISLAND
  - W525 TAI BAA
  - W5210 CHA KWO LING
  - W5215 SAI WAN HO
  - W5217 SCARRY BAY
  - W5219 SHEUNG WAN
  - W5220 KENNEDY TOWN

**DESIGNATED PROJECTS (DP)**

DP1	- CENTRAL WAN CHAI BYPASS (CWB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS
DP2	- ROAD P2 AND OTHER ROADS (PRIMARY / DISTRICT DISTRIBUTOR ROADS)
DP3	- PERMANENT AND TEMPORARY REDUPLICATION WORKS INCLUDING ASSOCIATED DREDGING WORKS IN WAN CHAI DEVELOPMENT PHASE 1 (WCH1) AREA
DP4	- TEMPORARY-EMERSON-SHELTER (DP4 NOT TO BE IMPLEMENTED)
DP5	- WAN CHAI EAST SEWAGE OUTFALL
DP6	- DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 314/2008  
 DP2 IS COVERED BY EP - 316/2008  
 DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2005

WORKS CONTRACT	DESIGNATED PROJECTS INVOLVED	CONSTRUCTION COMMENCEMENT
CEDD CONTRACT NO. HK/2009/01	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT NO. HK/2009/02	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT 3	DP1, DP3	END 2011
CEDD CONTRACT 4	DP1, DP3	END 2012
CEDD CONTRACT 5	DP3	2015
HyO CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyO CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2010
HyO CONTRACT NO. HY/2009/18	DP1	OCTOBER 2010
HyO CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyO CONTRACT 12	DP1, DP3	MID 2013

**CEPD** 土木工程師學會  
Civil Engineering and Development Department

**WAN CHAI DEVELOPMENT PHASE II**

WAN CHAI DEVELOPMENT PHASE II, PWD CENTRAL - WAN CHAI BYPASS - CANAL, PLOTS REDEMPTION AND TESTING WORKS (STAGE 1)

**LOCATIONS OF WATER QUALITY MONITORING STATIONS**

**AECOM**

PROJECT NUMBER: **60041297/C5/SK001**

DESIGNED BY: AEC	CHECKED BY: AEC	SCALE: 1:10000
DATE: 11/2008	DATE: 11/2008	DATE: 11/2008

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**NOTES:**

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

**LEGEND:**

[Dotted pattern]	PORTION NPR1	[Cross-hatch pattern]	PORTION NPR4
[Diagonal lines /]	PORTION NPR2	[Diagonal lines \]	PORTION NPR5
[Diagonal lines /]	PORTION NPR3	[Diagonal lines \]	PORTION NPR6
[Diagonal lines /]	PORTION NPR4	[Diagonal lines \]	PORTION NPR7
[Diagonal lines /]	PORTION NPR5	[Diagonal lines \]	PORTION NPR8
[Diagonal lines /]	PORTION NPR6	[Diagonal lines \]	PORTION NPR9
[Diagonal lines /]	PORTION NPR7	[Diagonal lines \]	PORTION NPR10
[Diagonal lines /]	PORTION NPR8	[Diagonal lines \]	PORTION NPR11
[Diagonal lines /]	PORTION NPR9	[Diagonal lines \]	PORTION NPR12
[Diagonal lines /]	PORTION NPR10	[Diagonal lines \]	PORTION NPR13
[Diagonal lines /]	PORTION NPR11	[Diagonal lines \]	PORTION NPR14
[Diagonal lines /]	PORTION NPR12	[Diagonal lines \]	PORTION NPR15
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B	WORKING DRAWING	REV	DEC 09
A	TENDER ADDENDUM NO. 1	RC	DEC 09
-	TENDER DRAWING	RC	SEP 09

Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK  
CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION

PORTION OF SITE  
SHEET 1 OF 2

**AECOM**

DRG. NO.	60095653/NP/1651B
DESIGNED BY	TTF
CHECKED BY	CJH
DATE	AT 17 1000
SCALE	AS SHOWN
UNIT	METRES

WORKING DRAWING  
COPYRIGHT RESERVED





LOCATION PLAN  
SCALE 1 : 5000

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
  2. THE RESTRICTION ZONE IS THIS DRAWING WILL COME INTO EFFECT AFTER THE OPERATION OF THE GOVERNMENT HULLING AT EIP/D/D/16 LAST.

LEGEND:

- CONTRACT BOUNDARY
- WORKING RESTRICTION ZONE
- NAVIGATION AND WORKING RESTRICTION ZONE
- WORKING BARGE, NAVIGATION AND WORKING RESTRICTION ZONE

TENDER ADDENDUM NO. 4	SEP 25, 2009
TENDER ADDENDUM NO. 1	SEP 25, 2009
TENDER DRAWING	SEP 25, 2009

CEDD 土木工程發展署  
Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II  
WAN CHAI DEVELOPMENT PHASE II -  
KONG KONG CONVENTION AND EXHIBITION CENTRE  
**RESTRICTED ZONE FOR  
CONSTRUCTION VESSELS**  
(Contract no: HK/2009/01)

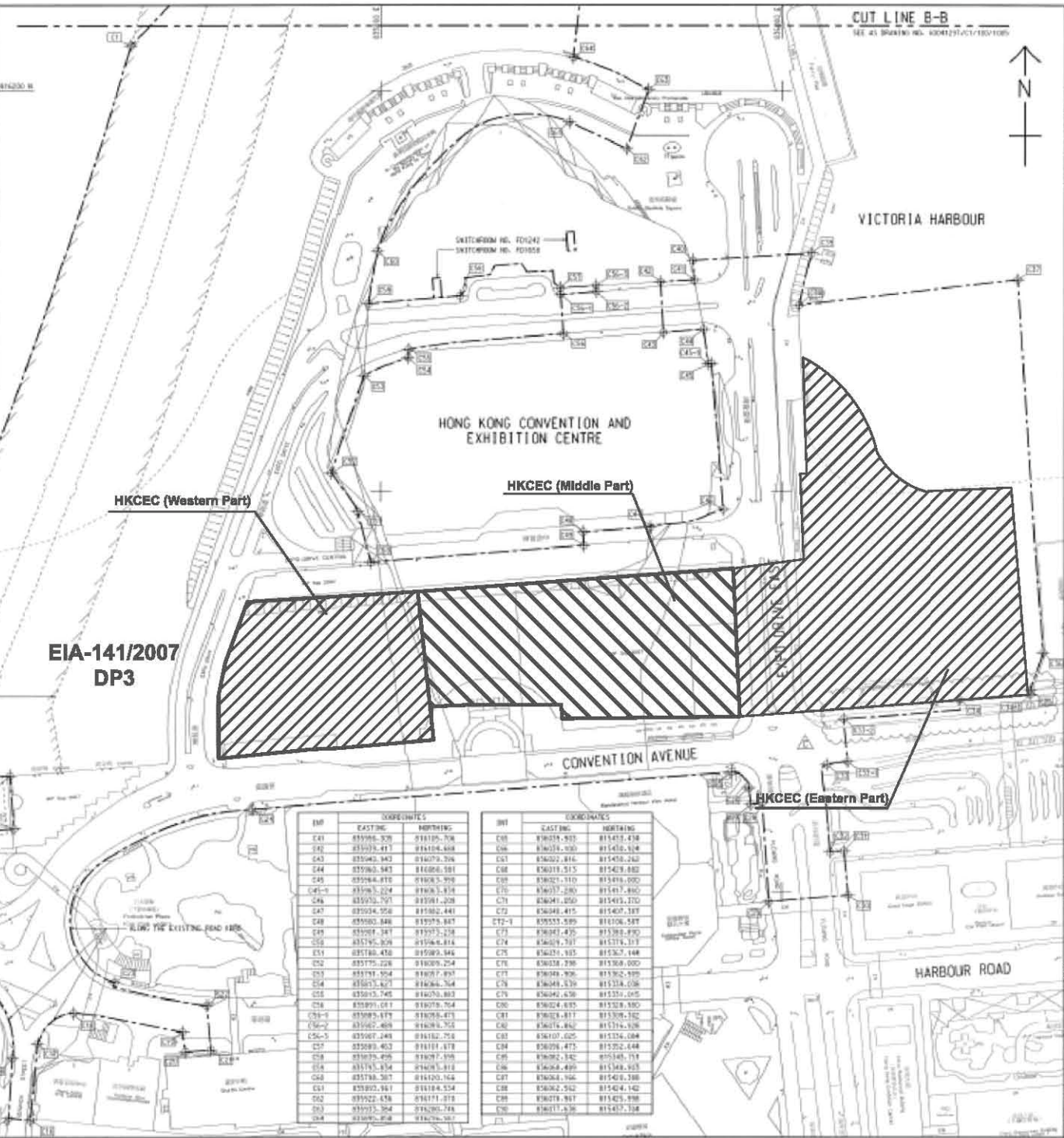
**AECOM**

DRGNO. 圖號	60041297/C1/100/1010B
DATE 日期	16/2009/01
SCALE 比例	AS 1:8000
COPYRIGHT RESERVED	



INSET 'A'  
SCALE 1 : 1000

CENTRAL DISTRICT



EIA-141/2007  
DP3

HKCEC (Western Part)

HKCEC (Middle Part)

HKCEC (Eastern Part)

INT	COORDINATES	
	EASTING	NORTHING
C41	835986.528	818105.708
C42	835973.417	818104.468
C43	835963.943	818079.706
C44	835963.543	818086.581
C45	835964.818	818085.258
C46	835963.524	818083.814
C46	835953.757	818081.208
C47	835954.956	818082.441
C48	835960.846	818075.887
C49	835961.347	818073.258
C50	835956.828	818066.814
C51	835948.478	818080.846
C52	835975.226	818089.254
C53	835971.504	818077.897
C54	835973.627	818084.764
C55	835973.745	818079.883
C56	835991.071	818078.764
C56-1	835993.679	818078.871
C56-2	835982.468	818078.765
C56-3	835987.248	818182.758
C57	835983.463	818181.878
C58	835978.496	818097.198
C58	835978.574	818098.818
C59	835978.507	818120.164
C60	835993.881	818184.524
C60	835993.434	818171.812
C61	835993.304	818280.788
C64	835993.818	818276.307

INT	COORDINATES	
	EASTING	NORTHING
C65	836028.933	818478.438
C66	836034.030	818478.614
C67	836022.816	818478.260
C68	836019.515	818478.882
C69	836025.110	818478.000
C70	836027.289	818477.880
C71	836041.050	818493.270
C72	836048.415	818487.187
C72-1	835555.589	818106.587
C73	836047.435	818388.890
C74	836049.797	818374.107
C75	836021.185	818382.148
C76	836038.298	818388.000
C77	836048.906	818382.898
C78	836048.439	818374.038
C79	836042.638	818351.045
C80	836024.635	818328.880
C81	836028.417	818308.182
C82	836021.882	818378.148
C83	836107.025	818326.084
C84	836098.473	818322.444
C85	836082.342	818348.714
C86	836084.499	818348.925
C87	836084.198	818348.388
C88	836082.512	818348.142
C89	836078.987	818345.898
C90	836077.638	818347.198



KEY PLAN  
SCALE 1 : 10000

NOTE:  
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. 60041297/C1/100/1006.

INT	COORDINATES	
	EASTING	NORTHING
C1	835875.205	818222.551
C2	835975.971	818282.299
C3	836414.363	818284.825
C4	836417.020	818281.014
C5	836582.492	818295.522
C6	836581.584	818288.612
C7	836586.545	818281.197
C8	836586.439	818287.147
C9	836486.433	818282.241
C10	836481.082	818287.050
C11	836485.389	818288.075
C12	836487.486	818288.027
C13	836525.468	818284.817
C14	836486.433	818287.122
C15	836474.289	818288.593
C16	836475.195	818285.525
C17	836488.138	818284.441
C18	836486.085	818288.816
C19	836781.421	818280.587
C20	836782.537	818282.881
C21	836715.295	818271.484
C22	836713.183	818282.445
C23	836827.086	818288.074
C24	836726.984	818283.676
C25	836715.288	818288.261
C26	836801.647	818282.286
C27	836804.605	818283.836
C28	836786.218	818284.445
C29	836781.725	818280.180
C30	836833.781	818288.487
C31	836831.216	818288.470
C32	836824.142	818282.117
C33	836821.081	818284.882
C34	836828.290	818284.759
C35	836828.428	818282.286
C36	836808.187	818288.280
C37	836824.812	818288.093
C38	836824.747	818282.285
C39	836828.850	818288.134
C40	836818.190	818288.057
C41	836828.810	818287.295
C42	836818.986	818288.088
C43	836825.682	818288.552

C	TENDER ADDENDUM NO.4	SHEN JYL DEP 08
B	TENDER ADDENDUM NO.2	SHEN JYL DEP 08
A	TENDER ADDENDUM NO.1	SHEN JYL DEP 08
-	TENDER DRAWING	SHEN JYL DEP 08

土木工程師事務所  
Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

WHS PH2 DEVELOPMENT PHASE II -  
CONTRACT NO. HK/2009/01  
HONG KONG CONVENTION AND EXHIBITION CENTRE

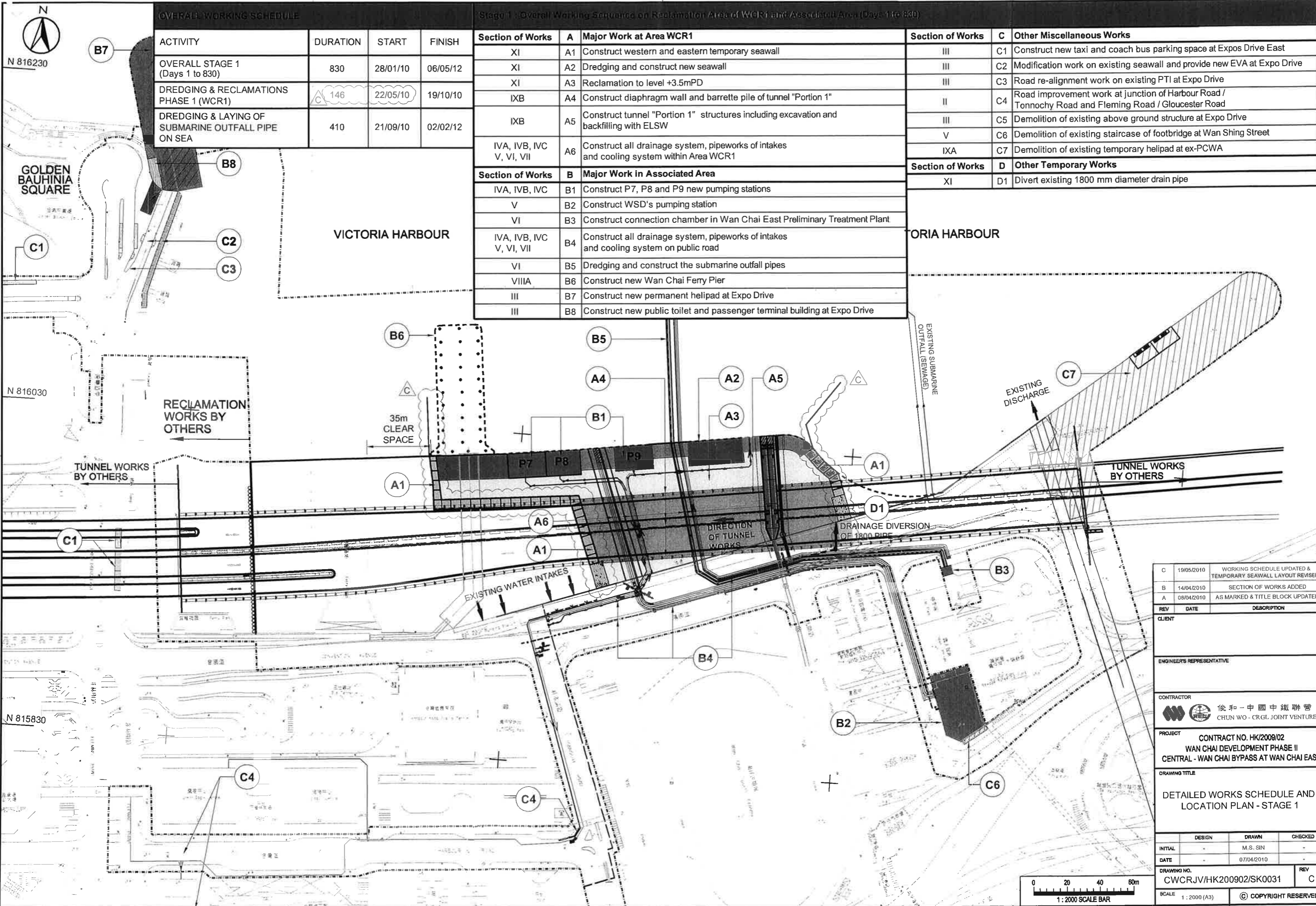
SITE BOUNDARY  
SETTING OUT PLAN  
(Contract no. HK/2009/01)

**AECOM**

DRGNO. 60041297/C1/100/1006C

SCALE	AS 1 : 2000
DATE	18/2009/01
DESIGNER	PM
CHECKER	PM
DATE	18/2009/01
SCALE	AS 1 : 2000
DATE	18/2009/01





**OVERALL WORKING SCHEDULE**

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

**Stage 1: Overall Working Sequence on Reclamation Area of WCR1 and Associated Area (Days 1 to 830)**

Section of Works	A	Major Work at Area WCR1	Section of Works	C	Other Miscellaneous Works
XI	A1	Construct western and eastern temporary seawall	III	C1	Construct new taxi and coach bus parking space at Expos Drive East
XI	A2	Dredging and construct new seawall	III	C2	Modification work on existing seawall and provide new EVA at Expo Drive
XI	A3	Reclamation to level +3.5mPD	III	C3	Road re-alignment work on existing PTI at Expo Drive
IXB	A4	Construct diaphragm wall and barrette pile of tunnel "Portion 1"	II	C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
IXB	A5	Construct tunnel "Portion 1" structures including excavation and backfilling with ELSW	III	C5	Demolition of existing above ground structure at Expo Drive
IVA, IVB, IVC, V, VI, VII	A6	Construct all drainage system, pipeworks of intakes and cooling system within Area WCR1	V	C6	Demolition of existing staircase of footbridge at Wan Shing Street
			IXA	C7	Demolition of existing temporary heliport at ex-PCWA
Section of Works	B	Major Work in Associated Area	Section of Works	D	Other Temporary Works
IVA, IVB, IVC	B1	Construct P7, P8 and P9 new pumping stations	XI	D1	Divert existing 1800 mm diameter drain pipe
V	B2	Construct WSD's pumping station			
VI	B3	Construct connection chamber in Wan Chai East Preliminary Treatment Plant			
IVA, IVB, IVC, V, VI, VII	B4	Construct all drainage system, pipeworks of intakes and cooling system on public road			
VI	B5	Dredging and construct the submarine outfall pipes			
VIIIA	B6	Construct new Wan Chai Ferry Pier			
III	B7	Construct new permanent heliport at Expo Drive			
III	B8	Construct new public toilet and passenger terminal building at Expo Drive			

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

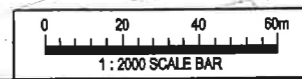
CLIENT: \_\_\_\_\_  
 ENGINEER'S REPRESENTATIVE: \_\_\_\_\_

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

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

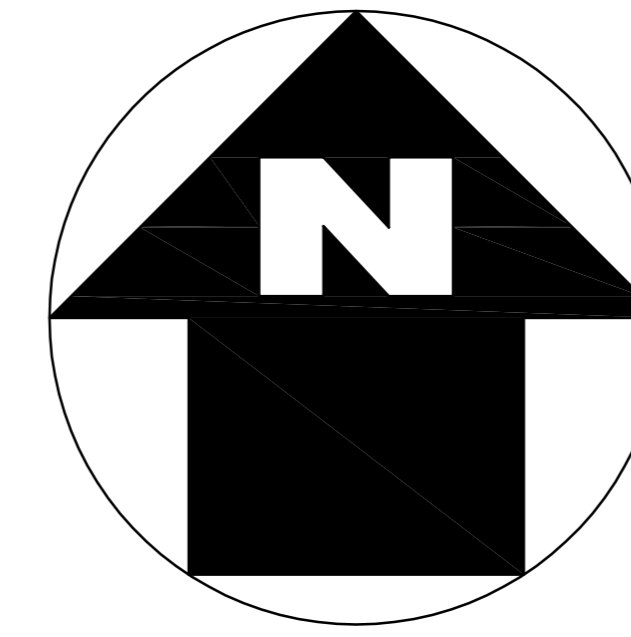
DRAWING TITLE: DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

DESIGN	DRAWN	CHECKED
INITIAL	M.S. SIN	
DATE	07/04/2010	
DRAWING NO.	CWCRJV/HK200902/SK0031	REV C
SCALE	1:2000 (A3)	© COPYRIGHT RESERVED

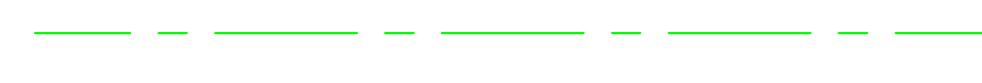




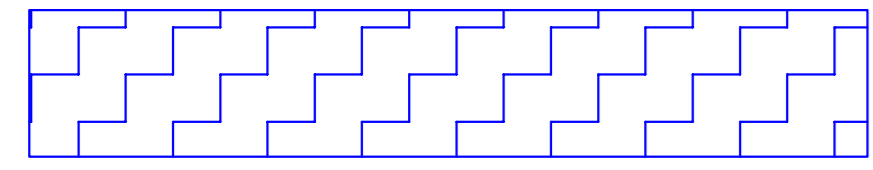
港口  
HARBOUR



LEGEND:



WORKS AREA



DREDGING AREA FOR  
MITIGATION OF ODOUR(DP3)



SITE BOUNDARY

TCBR1E

TCBR2  
AND  
TCBR3

銅鑼灣避風塘  
CAUSEWAY BAY TYPHOON SHELTER

TCBR4

TCBR1W

貨物裝卸灣  
Cargo Handling Basin  
TPCWAW

TPCWAE

DP3

中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGR. (HONG KONG) LTD.

Highways Department  
CONTRACT NO. HY/2009/15  
CENTRAL-WAN CHAI BYPASS -TUNNEL  
(CAUSEWAY BAY TYPHOON  
SHELTER SECTION)

TITLE  
LOCATION PLAN OF WORKS AREA

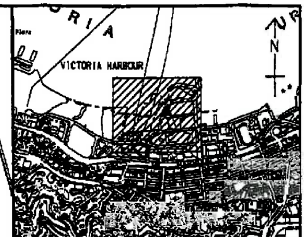
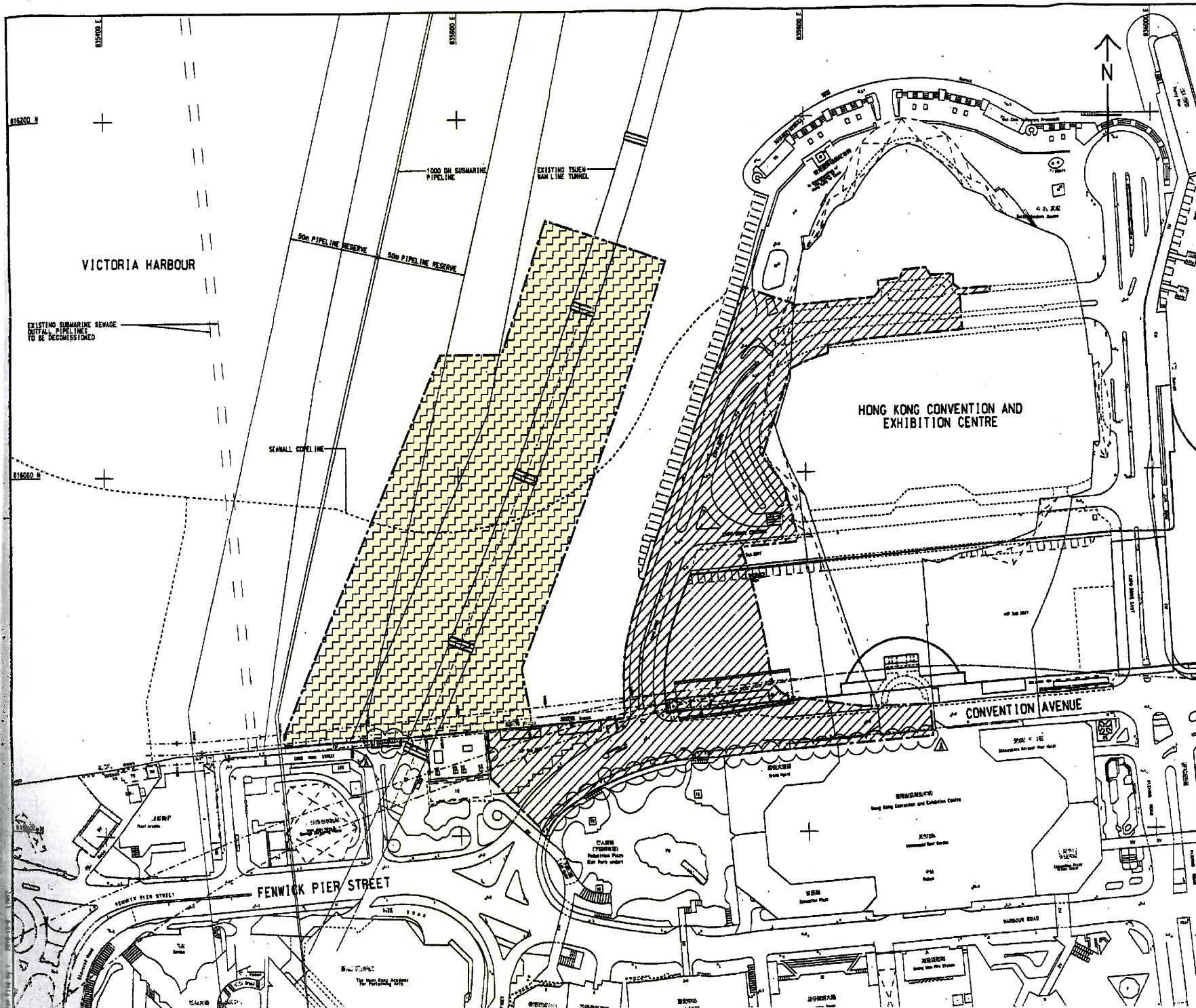
DRG. NO.  
CWBT/EPD/001B

SCALE  
1:1000 @ A0

STATUS  
DIMENSIONS ARE IN  
MILLIMETERS  
COPYRIGHT RESERVED

維多利亞公園  
Victoria Park





**KEY PLAN**  
SCALE 1 : 20000

- NOTES:**
- COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.
  - LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (1985) UNLESS OTHERWISE NOTED.
  - DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
  - SETTING OUT DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRICALLY FROM THE DRAWINGS OR FILES.
  - SITE BOUNDARY SETTING OUT POINTS SHALL REFER TO DRAWING NO. 60041297/C4/100/1201.

**LEGEND:**

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

TENDER ADDENDUM NO.1	SHW JYL OCT 10
TENDER DRAWING	SHW JYL SEP 10

**CDP** 土木工務發展局  
Civil Engineering and Development Department

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

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

**AECOM**

DRAWING NO. 60041297/C4/100/1301A

DATE: 16/2010/06

SCALE: A1 1:11000

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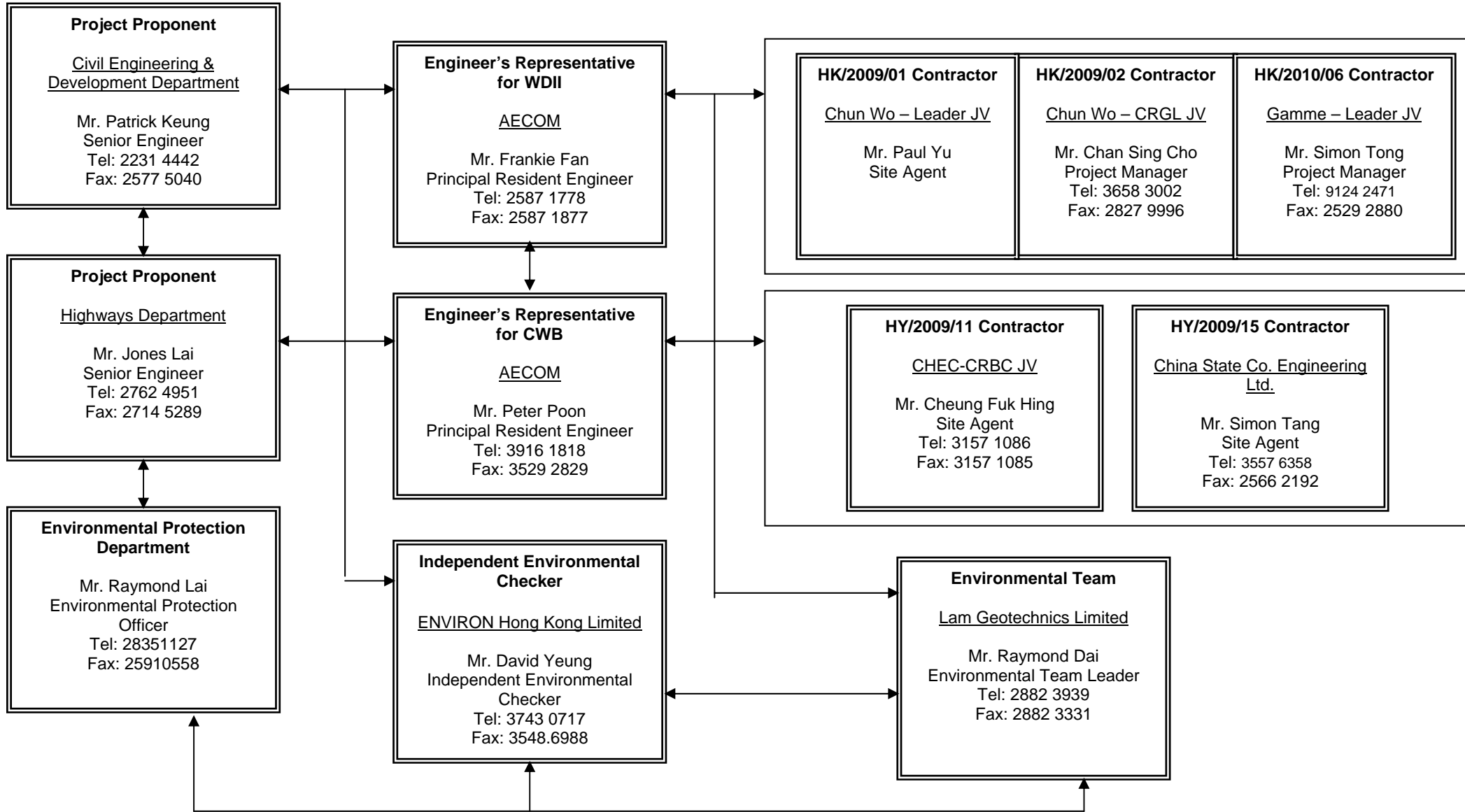


***Figure 2.2***

***Project Organization Chart***



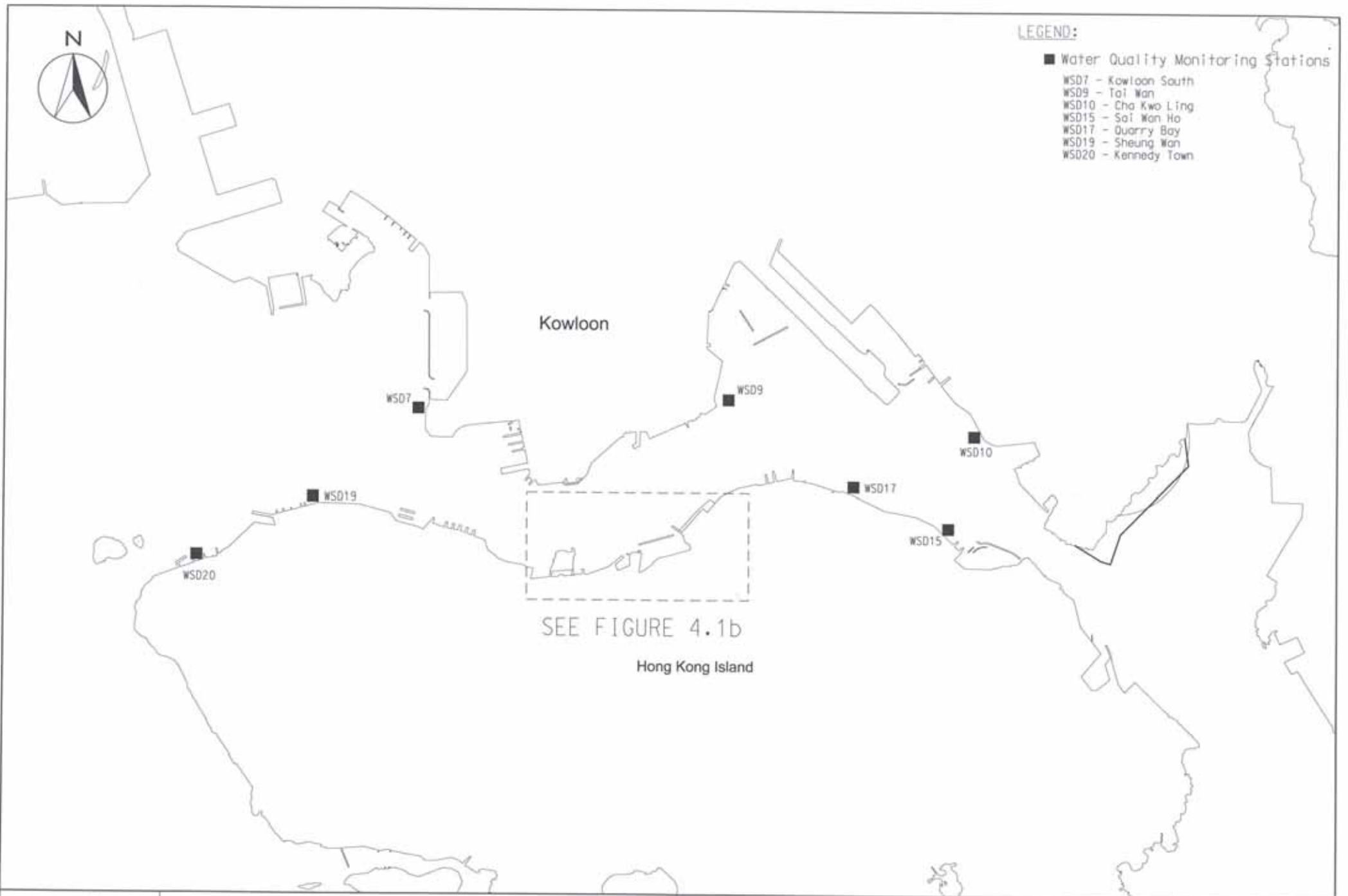
**Project Organization Chart**





***Figure 4.1***

***Locations of Monitoring Stations***





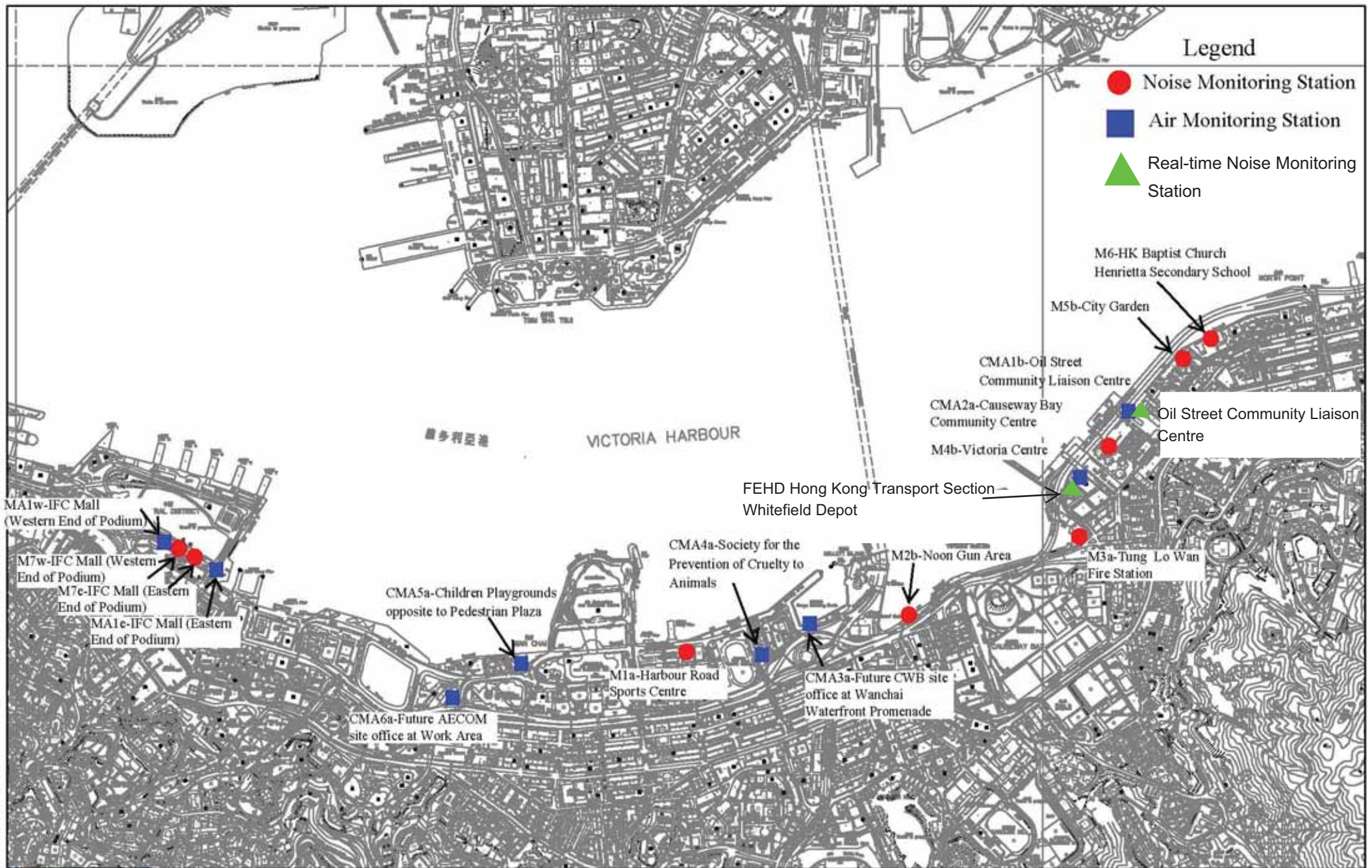
**LEGEND:**

**WATER QUALITY MONITORING STATIONS**

- C1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
- C2 TELECOM HOUSE/HK ACADEMY FOR PERFORMING/ SHUI ON CENTRE
- C3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE I
- C4 WAN CHAI TOWER AND GREAT EAGLE CENTRE
- C5 SUN HUNG KAI CENTRE
- C6 PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
- C7 WINDSOR HOUSE
- C8 CITY GARDEN
- C9 PROVIDENT CENTRE
- RC1 PROPOSED HKAPA EXTENSION
- RC5 SUN HUNG KAI CENTRE (REPROVISION)
- RC7 WINDSOR HOUSE (TEMPORARY REPROVISION)
- WSD21 WAN CHAI
- RW1 WAN CHAI (REPROVISION)





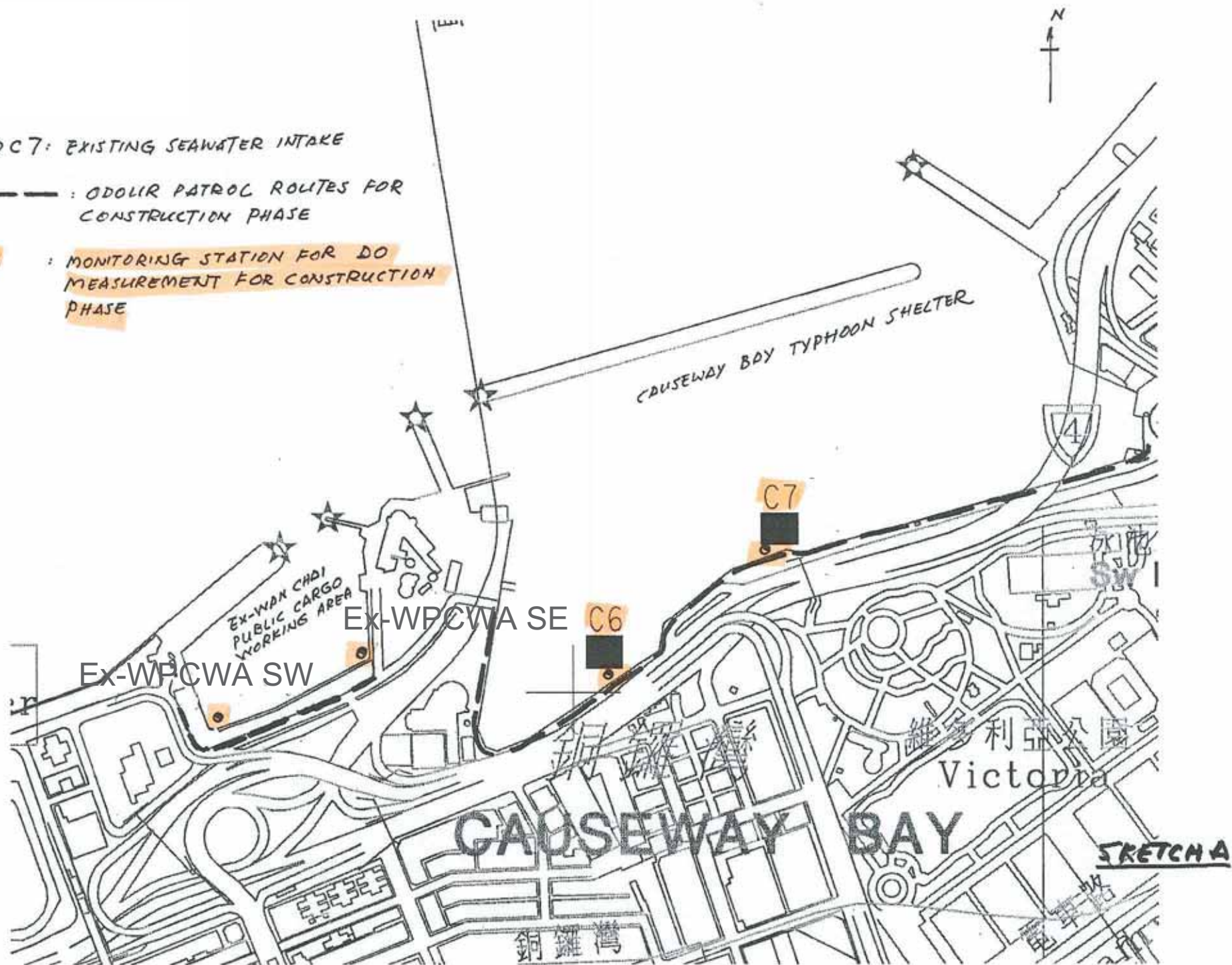




C6 AND C7: EXISTING SEAWATER INTAKE

----- : ODOR PATROL ROUTES FOR CONSTRUCTION PHASE

● : MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE



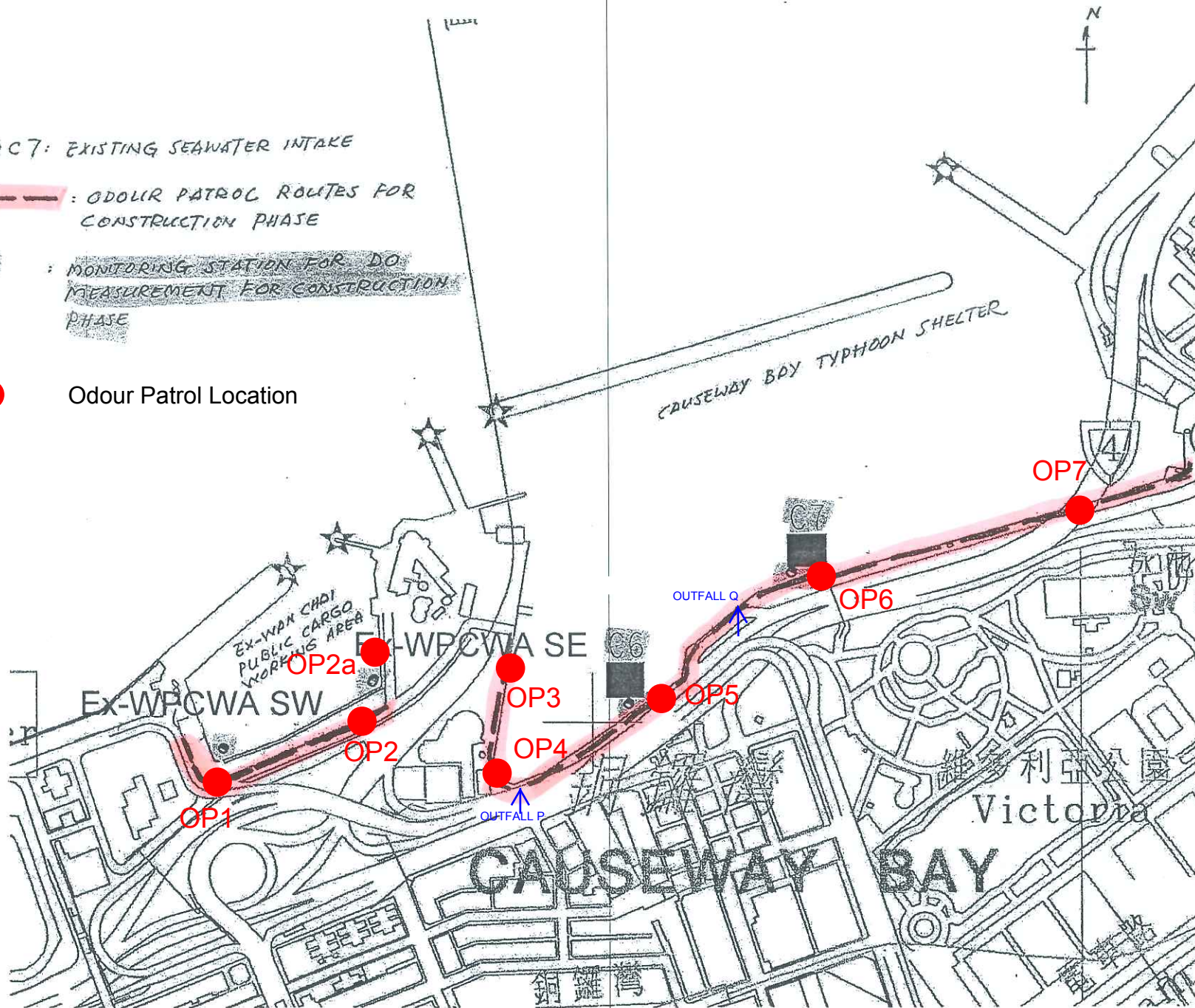


C6 AND C7: EXISTING SEAWATER INTAKE

--- : ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE

⊙ : MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE

● Odour Patrol Location





***Appendix 3.1***

***Environmental Mitigation Implementation Schedule***

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. <ul style="list-style-type: none"> <li>Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition;</li> <li>Watering during excavation and material handling;</li> <li>Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> </ul>	Work site / during construction	Contractor		√			

Appendix 3.1

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

<sup>1</sup> CEDD will identify an implementation agent.

<sup>2</sup> CEDD will identify an implementation agent.

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on-going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD <sup>1</sup>			√		EIAO-TM
<b>For DPI – CWB (Within the Project Boundary)</b>								
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			√		
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			√		EIAO-TM

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

Appendix 3.1

**Table A13.2 Implementation Schedule for Noise Control**

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

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.9.4	<p>Good Site Practice:</p> <ul style="list-style-type: none"> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>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.</li> <li>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.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<b>For DP1 – CWB (Within the Project Boundary)</b>								

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.3 – S4.8.5	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> <li>Slip road 8 tunnel</li> <li>Construction of diaphragm wall and substructures of the tunnel approach ramp</li> <li>Excavation</li> <li>Construction of slabs</li> <li>Backfill</li> <li>Demolition and construction of substructures for the IEC</li> <li>Demolition works of existing piers and crossheads of the marine section of the existing IEC</li> </ul> <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<b>For DP2 – WDII Major Roads (Road P2)</b>								
S4.8.3 – S4.8.4	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> <li>Temporary road diversion</li> <li>Resurfacing</li> <li>At-grade roadwork</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<b>For DP3 – Reclamation Works</b>								
S4.8.3 – S4.8.4	<p>Use of quiet powered mechanical equipment for the following task:</p> <ul style="list-style-type: none"> <li>Filling behind seawall</li> <li>Seawall construction</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>For DP5 – Wan Chai East Sewage Outfall</b>								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: <ul style="list-style-type: none"> <li>Submarine pipelines (marine section)</li> </ul> Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: <ul style="list-style-type: none"> <li>Installation of a new pipeline (land section)</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<b>For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui</b>								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: <ul style="list-style-type: none"> <li>Submarine pipelines (marine section)</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 3.1

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

Appendix 3.1



EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.14 – S4.8.18	<ul style="list-style-type: none"> <li>For Existing NSRs</li> <li>about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC</li> <li>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</li> <li>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</li> <li>about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC</li> <li>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</li> </ul> <p>For Future/Planned NSRs</p> <ul style="list-style-type: none"> <li>about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> </ul>	<p>Near North Point / Before commencement of operation of road project</p> <p>In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.</p>	HyD	√	√	√		EIAO-TM
				√	√ #			

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> <li>The openable windows of the temple, if any, should be orientated so as to avoid direct line of sight to the existing Victoria Park Road as far as practicable.</li> </ul>	Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple	Project Proponent for the re-provisioned Tin Hau Temple	√				

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

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

Appendix 3.1

**Table A13.3 Implementation Schedule for Water Quality Control**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For DP3 – Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui), DP1 – CWB (within the Project Boundary)</i>								
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	Dredging shall be carried out by closed grab dredger for the following works: <ul style="list-style-type: none"> <li>Seawall construction in all the reclamation areas;</li> <li>Construction of the CWB Tunnel</li> <li>Construction of the proposed WSD water mains; and</li> <li>Construction of the proposed Wan Chai East sewage outfall pipelines.</li> </ul>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: <ul style="list-style-type: none"> <li>Dredging along the proposed cross-harbour water mains;</li> <li>Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).</li> </ul>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines																								
				Des	C	O	Dec																									
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																								
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																								
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Reclamation Area</th> <th colspan="2">Maximum Dredging Rate</th> <th rowspan="2">Maximum Dredging Rate (m<sup>3</sup> per week)</th> </tr> <tr> <th>m<sup>3</sup> per day</th> <th>m<sup>3</sup> per hour (for 16 hrs per day)</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Dredging along seawall or breakwater</b></td> </tr> <tr> <td>North Point Shoreline Zone (NPR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>Causeway Bay</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Shoreline Zone</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>PCWA Zone</td> <td>5,000</td> <td>313</td> <td>35,000</td> </tr> </tbody> </table>		Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m <sup>3</sup> per week)	m <sup>3</sup> per day	m <sup>3</sup> per hour (for 16 hrs per day)	<b>Dredging along seawall or breakwater</b>				North Point Shoreline Zone (NPR)	6,000	375	42,000	Causeway Bay	1,500	94	10,500	Shoreline Zone	6,000	375	42,000	PCWA Zone	5,000	313	35,000					
Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m <sup>3</sup> per week)																													
	m <sup>3</sup> per day	m <sup>3</sup> per hour (for 16 hrs per day)																														
<b>Dredging along seawall or breakwater</b>																																
North Point Shoreline Zone (NPR)	6,000	375	42,000																													
Causeway Bay	1,500	94	10,500																													
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Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures				Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines																						
							Des	C	O	Dec																							
	<table border="1"> <tr> <td>Wan Chai Shoreline Zone (WCR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>HKCEC Shoreline Zone (HKCEC)</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>HKCEC Stage 1 &amp; 3</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>HKCEC Stage 2</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Cross Harbour Water Mains</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Wan Chai East Submarine Sewage Pipeline</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> </table> <p>Note: 1,500 m<sup>3</sup> per day shall be applied for construction of the western seawall of WCR1.</p>	Wan Chai Shoreline Zone (WCR)	6,000	375	42,000	HKCEC Shoreline Zone (HKCEC)	1,500	94	10,500	HKCEC Stage 1 & 3	6,000	375	42,000	HKCEC Stage 2	1,500	94	10,500	Cross Harbour Water Mains	1,500	94	10,500	Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500								
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Cross Harbour Water Mains	1,500	94	10,500																														
Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500																														
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m <sup>3</sup> per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																								
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																								
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																								
S5.8, Figure 5.3	<p>Silt screens shall be applied to seawater intakes at interim construction stages as stated below:</p> <table border="1"> <thead> <tr> <th>Interim Construction Stage</th> <th>Location of Applications</th> </tr> </thead> <tbody> <tr> <td>Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,</td> <td>WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South</td> </tr> <tr> <td></td> <td>Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong</td> </tr> </tbody> </table>	Interim Construction Stage	Location of Applications	Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,	WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South		Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																		
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Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines						
					Des	C	O	Dec							
	<table border="1"> <tr> <td>TBW, NP and Water Mains Zone</td> <td>Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre</td> </tr> <tr> <td>Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.</td> <td>WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.</td> </tr> <tr> <td>Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.</td> <td>WSD saltwater intakes at Sheung Wan and Re-provisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel &amp; World Trade Centre and re-provisioned Windsor House.</td> </tr> </table>	TBW, NP and Water Mains Zone	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	Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Re-provisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and re-provisioned Windsor House.								
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S5.8	<p>Other mitigation measures include:</p> <ul style="list-style-type: none"> <li>mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used;</li> <li>all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;</li> <li>loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and</li> </ul>	Work site / During the construction period	Contractor		√				ProPECC PN 1/94; WPCO (TM-DSS)						

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> <li>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.</li> </ul>							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Appendix 3.1

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

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	
				Des	C	O	Dec		
<b>For the Whole Project</b>									
S5.8	<ul style="list-style-type: none"> <li>Construction Runoff and Drainage</li> <li>use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>Work site / During the construction period</li> </ul>	Contractor		√				ProPECC PN 1/94; WPCO (TM-DSS)

<sup>3</sup> CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>required.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>							
	<ul style="list-style-type: none"> <li>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.</li> </ul>							
S5.8	<p><i>Sewage from Construction Work Force</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<p><i>Floating Debris and Refuse</i></p> <p>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.</p>	Work site and adjacent water / During the construction period.	Contractor		√			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	<p><i>Storm Water Discharges</i></p> <p>Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.</p>	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
<b>Operation Phase</b>								
<b>DPI – CWB (within the Project Boundary)</b>								
S5.8	<p>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:</p> <ul style="list-style-type: none"> <li>The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes.</li> <li>Petrol interceptors shall be regularly cleaned and maintained in good working condition.</li> <li>Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.</li> <li>Sewage arising from ancillary facilities of CWB (for examples, car park,</li> </ul>	CWB/During design and operational period	HyD/TD <sup>3</sup>	√		√		WPCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities.</p> <ul style="list-style-type: none"> <li>Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff.</li> <li>The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.</li> </ul>							

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

<sup>3</sup> if employ Management, Operation and Maintenance (MOM) Contract

Appendix 3.1

**Table A13.4 Implementation Schedule for Waste Management**

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
S6.7.6	During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: <ul style="list-style-type: none"> <li>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.</li> </ul>							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>							
S6.6.12	<p><b>Floating Refuse</b></p> <p>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.</p>	Work site / During the construction period	Contractor		√			
<b>For the Whole Project</b>								

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.7	<p><b>Good Site Practices</b></p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> <li>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;</li> <li>training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>provision of sufficient waste disposal points and regular collection for disposal;</li> <li>appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and</li> <li>a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	Work site / During the construction period	Contractor		√			Waste Disposal Ordinance (Cap.354)

Appendix 3.1



EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.8	<p><i>Waste Reduction Measures</i></p> <p>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:</p> <ul style="list-style-type: none"> <li>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;</li> <li>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;</li> <li>any unused chemicals or those with remaining functional capacity shall be recycled;</li> <li>use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&amp;D material.</li> <li>prior to disposal of C&amp;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;</li> <li>proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> <li>plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	Work site / During planning and design stage, and construction stage	Contractor	√	√			

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.10	<p><i>General Refuse</i></p> <p>General refuse shall be stored in enclosed bins or compaction units separate from C&amp;D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&amp;D material.</p> <p>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.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	<p><i>Chemical Wastes</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation  Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	<p><i>Construction and Demolition Material</i></p> <p>C&amp;D material shall be sorted on-site into inert C&amp;D material (that is, public fill) and C&amp;D waste. All the suitable inert C&amp;D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&amp;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.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		√			ETWB TCW No. 31/2004
S6.7.14	<i>Bentonite Slurry</i> 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: <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

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

Appendix 3.1

**Table A13.5 Implementation Schedule for Land Contamination**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
S.12.6	<ul style="list-style-type: none"> <li>The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.</li> </ul>	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re-provisioned Tin Hau Temple	√				<i>"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops"</i> published by EPD, HKSAR  EPD ProPECC Note No. 3/94
S7.10	During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: <ul style="list-style-type: none"> <li>Excavation profiles must be properly designed and executed;</li> <li>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;</li> <li>Quantities of soil to be excavated must be estimated;</li> <li>It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination.</li> <li>Temporary storage of soil at intermediate depot or on-site</li> </ul>	A King Marine / During soil remediation works	Contractor	√				Air Pollution Control Ordinance Noise Control Ordinance  Waste Disposal Ordinance  Waste Disposal (Chemical Waste) (General) Regulation

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	<ul style="list-style-type: none"> <li>Supply of suitable clean backfill materials is needed after excavation.</li> <li>Care must be taken of existing buildings and utilities.</li> <li>Precautions must be taken to control of ground settlement</li> <li>Speed controls for vehicles shall be imposed on dusty site areas.</li> <li>Vehicle wheel and body washing facilities at the site's exit points shall be established and used.</li> </ul> <p>The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities:</p>							Water Pollution Control Ordinance

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Air Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system.</li> <li>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.</li> <li>All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement.</li> <li>Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.</li> </ul>							
	<p><u>Noise Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers.</li> <li>Simultaneous operation of mixing facilities and other equipment shall be avoided.</li> <li>Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers.</li> <li>Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).</li> </ul>							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Water Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p><u>Waste Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>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.</li> <li>Stabilized soils shall be broken into suitable size for backfilling or reuse on site.</li> <li>A high standard of housekeeping shall be maintained within the mixing plant area.</li> <li>If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials.</li> </ul>							

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

Appendix 3.1

**Table A13.6 Implementation Schedule for Marine Ecology**

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.4	<p>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:</p> <ul style="list-style-type: none"> <li>• Installation of silt curtains during dredging activities</li> <li>• Use of tightly-closed grab dredger</li> <li>• Reduction of dredging rate</li> <li>• Control of grab descending speed</li> <li>• Construction of leading edges of seawall in the early stages of the reclamation works</li> </ul>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	<ul style="list-style-type: none"> <li>• Adoption of multiple-phase construction schedule</li> </ul>							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.6	<p>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:</p> <ul style="list-style-type: none"> <li>• Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible.</li> <li>• Adoption of multiple-phase construction schedule.</li> <li>• General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented.</li> </ul>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	<p>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.</p>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	<p>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.</p>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

Appendix 3.1

**Table A13.7 Implementation Schedule for Landscape and Visual**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<b>For the Whole Project</b>								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>For DP1 – CWB (Within the Project Boundary)</b>								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui</b>								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>Operation Phase</b>								
<b>For the Whole Project - Schedule 3 DP</b>								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD/	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD <sup>4</sup>	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
<b>For DP1 – CWB (Within the Project Boundary)</b>								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
<b>For DP2 – WDII Major Roads (Road P2)</b>								

<sup>4</sup> CEDD will identify an implementation agent

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
<b>For DP3 – Reclamation Works</b>								
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 <sup>5</sup>	√	√	√		ETWB TCW 2/2004

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

<sup>5</sup> CEDD will identify an implementation agent





***Appendix 4.1***

***Action and Limit Level***

**Action and Limit Level***Action and Limit Level for Noise Monitoring*

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

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

*Action and Limit Level for Air Monitoring*

Monitoring Location	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b <sup>Note 2</sup>	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a <sup>Note 2</sup>	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5a <sup>Note 2</sup>	332.0	500	181.0	260
CMA6a <sup>Note 2</sup>	300.1	500	187.3	260

Note 2:

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

*Action and Limit Level for Water Monitoring*

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

Remarks:

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

*Action and Limit Levels for Odour Patrol*

Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	<ul style="list-style-type: none"> <li>• When two documented complaint are received; or</li> <li>• Odour Intensity of 2 is measured from odour intensity analysis.</li> </ul>	<ul style="list-style-type: none"> <li>• Five or more consecutive genuine documented complaints within a week; or</li> <li>• Odour Intensity of 3 or above is measured from odour intensity analysis.</li> </ul>



***Appendix 4.2***

***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 Gloucester Road, Wanchai, Hong Kong.

**Order No. :** Q02553

**Date of receipt :** 18-Nov-10

## Item Tested

**Description :** Precision Integrating Sound Level Meter

**Manufacturer :** ACO

**Model :** Type 6224

**Serial No. :** 050112

## 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: Z01.

## Test Results

All results were within the IEC 651 Type 1 & 804 Type I Specification.

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

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	00804	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

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

**Calibrated by :** 

P. F. Wong

**Approved by :** 

Dorothy Cheuk

**Date:** 23-Nov-10

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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# Calibration Certificate

Certificate No. 06680

Page 2 of 4 Pages

Results :

## 1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Time Const.		
20 - 100	L <sub>A</sub>	Fast	94.0	94.3
		Slow		94.3
	L <sub>C</sub>	Fast		94.3
30 - 120	L <sub>A</sub>	Fast	94.0	94.4
		Slow		94.4
	L <sub>C</sub>	Fast		94.4
30 - 120	L <sub>A</sub>	Fast	114.0	94.3
		Slow		94.3
	L <sub>C</sub>	Fast		94.3

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.1$  dB

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  dB

## 3. Linearity

### 3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg. (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.5	+0.1	
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 :  $\pm 0.1$  dB



# Calibration Certificate

Certificate No. 06680

Page 3 of 4 Pages

## 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 : ± 0.1 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 dB, ± 1 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.3	+ 1.2 dB, ± 1 dB
4 kHz	+0.9	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.8	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB



# Calibration Certificate

Certificate No. 06680

Page 4 of 4 Pages

## 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	± 0.5 dB
1/10 <sup>2</sup>	40.0	39.9	
1/10 <sup>3</sup>	40.0	40.3	± 1.0 dB
1/10 <sup>4</sup>	40.0	40.3	

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 : 1 009 hPa.

-----END-----



# Calibration Certificate

Certificate No. 06681

Page 1 of 2 Pages

**Customer :** Lam Geotechnics Limited

**Address :** 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.

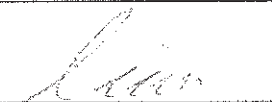
The results are shown in the attached page(s).

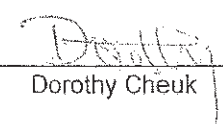
Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
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 :   
P. F. Wong

Approved by :   
Dorothy Cheuk

Date: 23-Nov-10

This Certificate is issued by:  
Hong Kong Calibration Ltd.  
Unit 6B, 2A/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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# 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	$\pm 0.3$ dB

The above measured values are the mean of 3 measurements.

Uncertainty :  $\pm 0.1$  dB

## 2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	0.9834 kHz	$\pm 2$ %

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

## 3. Level Stability : 0.0 dB

IEC 942 Class 1 Spec. :  $\pm 0.1$  dB

Uncertainty :  $\pm 0.01$  dB

## 4. Total Harmonic Distortion : $< 0.2$ %

IEC 942 Class 1 Spec. :  $< 3$  %

Uncertainty :  $\pm 2.3$  % 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-----



# Calibration Certificate

Certificate No. 12888

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982

Date of receipt : 25-May-11

## Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-14

Serial No. : 10303242

## Test Conditions

Date of Test : 26-May-11

Supply Voltage : --

Ambient Temperature :  $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity :  $(50 \pm 25)\%$

## Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

## Test Results

All results were within the IEC 651 Type 1 or IEC 804 Type 1 specification after adjustment.

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

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

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

Calibrated by :

  
P. F. Wong

Approved by :

  
Alan Chu

Date: 26-May-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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# Calibration Certificate

Certificate No. 12888

Page 2 of 4 Pages

Results :

## 1. SPL Accuracy

Level Range (dB)	UUT Setting			Applied Value (dB)	UUT Reading (dB)	
	Filter	Weight	Time Const.		Before adjust.	After adjust.
40 – 100	OFF	L <sub>p</sub>	Fast	94.00	--	94.1
		L <sub>PA</sub>	Fast		*95.0	94.1
			Slow		--	94.1
		L <sub>PC</sub>	Fast		--	94.1
60 – 120	OFF	L <sub>p</sub>	Fast	94.00	--	94.1
		L <sub>PA</sub>	Fast		--	94.0
			Slow		--	94.0
		L <sub>PC</sub>	Fast		--	94.0
60 – 120	OFF	L <sub>p</sub>	Fast	114.00	--	114.0
		L <sub>PA</sub>	Fast		--	113.9
			Slow		--	113.9
		L <sub>PC</sub>	Fast		--	113.9

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.2$  dB

## 2. Level Stability : 0.1 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  dB



# 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	

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	84.0	84.0	0.0	± 0.4 dB
	94.0	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 dB, ± 1 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



# Calibration Certificate

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 <sup>2</sup>	40.0	39.6	
1/10 <sup>3</sup>	40.0	39.2	± 1.0 dB
1/10 <sup>4</sup>	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 -----





# Calibration Certificate

Certificate No. 12889

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982

Date of receipt : 25-May-11

## Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73

Serial No. : 10465798

## Test Conditions

Date of Test : 26-May-11

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 manufacturer's specification after adjustment.

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


Main Test equipment used:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
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 :   
P. F. Wong

Approved by :   
Alan Chu

Date: 26-May-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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# Calibration Certificate

Certificate No. 12889

Page 2 of 2 Pages

Results :

## 1. Level Accuracy (at 1 kHz)

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

Uncertainty : ± 0.2 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 : ± 0.01 dB

## 4. 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 -----



# Calibration Certificate

Certificate No. 13813

Page 1 of 4 Pages

**Customer :** Lam Geotechnics Limited

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

**Order No. :** Q11569

**Date of receipt :** 7-Jul-11

## Item Tested

**Description :** Sound Level Meter

**Manufacturer :** B&K

**Model :** 2250

**Serial No. :** 2722310

## Test Conditions

**Date of Test :** 8-Jul-11

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

## Test Results

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

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

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	07279	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

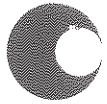
The test results apply to the above Unit-Under-Test only

**Calibrated by :**   
P. F. Wong

**Approved by :**   
Dorothy Cheuk

**Date:** 8-Jul-11





# Calibration Certificate

Certificate No. **13813**

Page 2 of 4 Pages

Results :

## 1. SPL

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Freq. Wgt.	Time Const.	Center Freq.		
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

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  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	$\pm 0.4$ dB
	94.0	93.8 (Ref.)	--	
	95.0	94.8	0.0	$\pm 0.2$ dB

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

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, $\pm 1.5$ dB
63 Hz	-26.6	- 26.2 dB, $\pm 1.5$ dB
125 Hz	-16.5	- 16.1 dB, $\pm 1$ dB
250 Hz	-9.0	- 8.6 dB, $\pm 1$ dB
500 Hz	-3.5	- 3.2 dB, $\pm 1$ dB
1 kHz	0.0 (Ref)	0 dB, $\pm 1$ dB
2 kHz	+1.4	+ 1.2 dB, $\pm 1$ dB
4 kHz	+1.2	+ 1.0 dB, $\pm 1$ dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB $\sim$ -3 dB
16 kHz	-5.8	- 6.6 dB, + 3 dB $\sim$ - $\infty$

Uncertainty :  $\pm 0.1$  dB

## 5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	--	--
1/10	40.0	40.0	$\pm 0.5$ dB
1/10 <sup>2</sup>	40.0	39.9	
1/10 <sup>3</sup>	40.0	40.0	$\pm 1.0$ dB
1/10 <sup>4</sup>	40.0	40.0	

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

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 :  $\pm 0.25$  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 :  $\pm 0.25$  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 -----



# Calibration Certificate

Certificate No. **13784**

Page 1 of 4 Pages

**Customer :** Lam Geotechnics Limited

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

**Order No. :** Q11569

**Date of receipt :** 6-Jul-11

## Item Tested

**Description :** Sound Level Meter

**Manufacturer :** B&K

**Model :** 2250

**Serial No. :** 2722311

## Test Conditions

**Date of Test :** 6-Jul-11

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

## Test Results

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

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

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

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

**Calibrated by :** 

P. F. Wong

**Approved by :** 

Dorothy Cheuk

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

**Date:** 6-Jul-11



# Calibration Certificate

Certificate No. **13784**

Page 2 of 4 Pages

Results :

## 1. SPL

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Freq. Wgt.	Time Const.	Center Freq.		
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

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  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	$\pm 0.4$ dB
	94.0	93.9 (Ref.)	--	
	95.0	95.0	+0.1	$\pm 0.2$ dB

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

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, $\pm 1.5$ dB
63 Hz	-26.5	- 26.2 dB, $\pm 1.5$ dB
125 Hz	-16.5	- 16.1 dB, $\pm 1$ dB
250 Hz	-9.0	- 8.6 dB, $\pm 1$ dB
500 Hz	-3.5	- 3.2 dB, $\pm 1$ dB
1 kHz	0.0 (Ref)	0 dB, $\pm 1$ dB
2 kHz	+1.1	+ 1.2 dB, $\pm 1$ dB
4 kHz	+1.1	+ 1.0 dB, $\pm 1$ dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB $\sim$ -3 dB
16 kHz	-5.9	- 6.6 dB, + 3 dB $\sim$ - $\infty$

Uncertainty :  $\pm 0.1$  dB

## 5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	--	--
1/10	40.0	40.1	$\pm 0.5$ dB
1/10 <sup>2</sup>	40.0	40.0	
1/10 <sup>3</sup>	40.0	40.0	$\pm 1.0$ dB
1/10 <sup>4</sup>	40.0	40.0	

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

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 :  $\pm 0.25$  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 ~ - 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 :  $\pm 0.25$  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.

**WORK ORDER:** HK1115453  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 07/07/2011  
**DATE OF ISSUE:** 13/07/2011

**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 acceptance 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 600XL Sonde  
**Serial No.:** 05C1607  
**Equipment No.:** EL424  
**Date of Calibration:** 11 July, 2011

#### NOTES

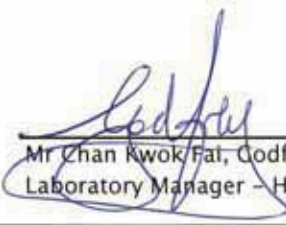
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Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

#### ISSUING LABORATORY: HONG KONG

##### **Address**

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1-3 Wing Yip Street  
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HONG KONG

**Phone:** 852-2610 1044  
**Fax:** 852-2610 2021  
**Email:** [hongkong@alsglobal.com](mailto:hongkong@alsglobal.com)

  
Mr Chan Kwok Fat, Godfrey  
Laboratory Manager - Hong Kong

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Page 1 of 3



# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1115453  
 Date of Issue: 13/07/2011  
 Client: LAM GEOTECHNICS LIMITED



Description: YSI Sonde  
 Brand Name: YSI  
 Model No.: YSI 600XL Sonde  
 Serial No.: 05C1607  
 Equipment No.: EL424  
 Date of Calibration: 11 July, 2011

Date of next Calibration: 11 October, 2011

## Parameters:

### Conductivity

Method Ref: APHA (20th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	156.0	6.2
6667	6276	-5.9
12890	12373	-4.0
58670	55520	-5.4
Tolerance Limit (%)		10.0

### Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
6.00	6.15	0.15
6.91	7.11	0.20
7.48	7.66	0.18
Tolerance Limit (±mg/L)		0.20

### pH Value


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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.00	4.05	0.05
7.00	7.08	0.08
10.0	10.01	0.01
Tolerance Limit (±unit)		0.20

### Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
10.0	9.90	-1.0
20.0	19.80	-1.0
30.0	29.85	-0.5
Tolerance Limit (±%)		10.0

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

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1115453  
Date of Issue: 13/07/2011  
Client: LAM GEOTECHNICS LIMITED



Description: YSI Sonde  
Brand Name: YSI  
Model No.: YSI 600XL Sonde  
Serial No.: 05C1607  
Equipment No.: EL424  
Date of Calibration: 11 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 )
10.9	10.95	0.0
23.5	23.50	0.0
35.5	36.24	0.7
	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

**WORK ORDER:** HK1113921  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 20/06/2011  
**DATE OF ISSUE:** 24/06/2011

**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 acceptance criteria of ALS will be followed.

**Scope of Test:** Dissolved Oxygen, pH, Salinity and Temperature  
**Description:** Multimeter  
**Brand Name:** WTW  
**Model No.:** Multi 3430 Set G  
**Serial No.:** 10410294  
**Equipment No.:** --  
**Date of Calibration:** 21 June, 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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HONG KONG

**Phone:** 852-2610 1044  
**Fax:** 852-2610 2021  
**Email:** [hongkong@alsglobal.com](mailto:hongkong@alsglobal.com)

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

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Page 1 of 2

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1113921  
 Date of Issue: 24/06/2011  
 Client: LAM GEOTECHNICS LIMITED



Description: Multimeter  
 Brand Name: WTW  
 Model No.: Multi 3430 Set G  
 Serial No.: 10410294  
 Equipment No.: --  
 Date of Calibration: 21 June, 2011

Date of next Calibration: 21 September, 2011

## Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.29	1.15	-0.14
4.56	4.59	0.03
7.90	7.94	0.04
Tolerance Limit ( $\pm$ 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	4.166	0.166
7.0	7.158	0.158
10.0	9.950	-0.050
Tolerance Limit ( $\pm$ unit)		0.20

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.0	0.0	--
10.0	10.1	1.0
20.0	20.6	3.0
30.0	30.4	1.3
Tolerance Limit ( $\pm$ %)		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 ( $^{\circ}$ C )	Displayed Reading ( $^{\circ}$ C )	Tolerance ( $^{\circ}$ C )
15.0	14.9	-0.1
25.0	25.0	0.0
37.5	38.1	0.6
Tolerance Limit ( $^{\circ}$ 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

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

**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 acceptance 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  
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**Phone:** 852-2610 1044  
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**Email:** [hongkong@alsglobal.com](mailto:hongkong@alsglobal.com)

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

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ALS TECHNICHEM (HK) PTY LTD Part of the ALS Laboratory Group A Campbell Brothers Limited Company

# 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:**

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

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

### 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.

**WORK ORDER:** HK1116231  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 07/07/2011  
**DATE OF ISSUE:** 19/07/2011

**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 acceptance 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:** 07 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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**Phone:** 852-2610 1044  
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Mr. Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

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ALS TECHNICHEM (HK) PTY LTD Part of the ALS Laboratory Group A Campbell Brothers Limited Company



# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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



Description: YSI Sonde  
 Brand Name: YSI  
 Model No.: YSI Professional Plus  
 Serial No.: 10G101955  
 Equipment No.: N/A  
 Date of Calibration: 07 July, 2011

Date of next Calibration: 07 October, 2011

**Parameters:**

**Conductivity**

Method Ref: APHA (20th edition), 2510B

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

**Dissolved Oxygen**

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

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

**pH Value**

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.00	4.14	0.14
7.00	7.19	0.19
10.0	9.98	-0.02
	Tolerance Limit (±unit)	0.20

**Salinity**

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
10.0	10.57	5.7
20.0	20.52	2.6
30.0	30.85	2.8
	Tolerance Limit (±%)	10.0

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



# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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



Description: YSI Sonde  
Brand Name: YSI  
Model No.: YSI Professional Plus  
Serial No.: 10G101955  
Equipment No.: N/A  
Date of Calibration: 07 July, 2011

Date of next Calibration: 07 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:** 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 acceptance 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

##### **Address**

ALS Technichem (HK) Pty Ltd  
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**Phone:** 852-2610 1044  
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**Email:** [hongkong@alsglobal.com](mailto:hongkong@alsglobal.com)

  
Mr Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

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Page 1 of 2

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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



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

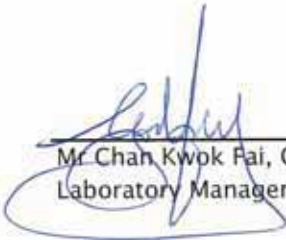
Date of next Calibration: 09 November, 2011

## Parameters:

### Turbidity

Method Ref: ALPHA 21st Ed. 2130B

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 ( $\pm\%$ )	10.0

  
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

**WORK ORDER:** HK1114116  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 22/06/2011  
**DATE OF ISSUE:** 24/06/2011

**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 acceptance 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:** 24 June, 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](mailto:hongkong@alsglobal.com)

  
Mr Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

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Page 1 of 2



# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1114116  
Date of Issue: 24/06/2011  
Client: LAM GEOTECHNICS LIMITED



Description: Turbidimeter  
Brand Name: HACH  
Model No.: 2100P  
Serial No.: 930300002705  
Equipment No.: --  
Date of Calibration: 24 June, 2011  
Date of next Calibration: 24 September, 2011

## Parameters:

### Turbidity

Method Ref: ALPHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.00	0.57	--
4.00	3.96	-1.0
40.0	41.9	4.8
80.0	81.3	1.6
400	428	7.0
800	850	6.3
	Tolerance Limit ( $\pm\%$ )	10.0

  
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

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

**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 acceptance 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

#### Address

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Mr Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

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Page 1 of 2

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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

### Turbidity

Method Ref: ALPHA 21st Ed. 2130B

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 ( $\pm\%$ )	10.0

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





TISCH ENVIRONMENTAL, INC.  
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 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 11, 2011 Rootsometer S/N 0438320 Ta (K) - 298  
 Operator Tisch Orifice I.D. - 0005 Pa (mm) - 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	NA	NA	1.00	1.3710	3.2	2.00
2	NA	NA	1.00	0.9730	6.4	4.00
3	NA	NA	1.00	0.8690	7.9	5.00
4	NA	NA	1.00	0.8300	8.8	5.50
5	NA	NA	1.00	0.6860	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9817	0.7160	1.4042	0.9957	0.7263	0.8919
0.9775	1.0046	1.9859	0.9915	1.0190	1.2613
0.9754	1.1225	2.2203	0.9894	1.1385	1.4101
0.9743	1.1739	2.3286	0.9882	1.1907	1.4790
0.9690	1.4126	2.8084	0.9829	1.4328	1.7837
Qstd slope (m) = 2.01593			Qa slope (m) = 1.26234		
intercept (b) = -0.03978			intercept (b) = -0.02526		
coefficient (r) = 0.99999			coefficient (r) = 0.99999		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

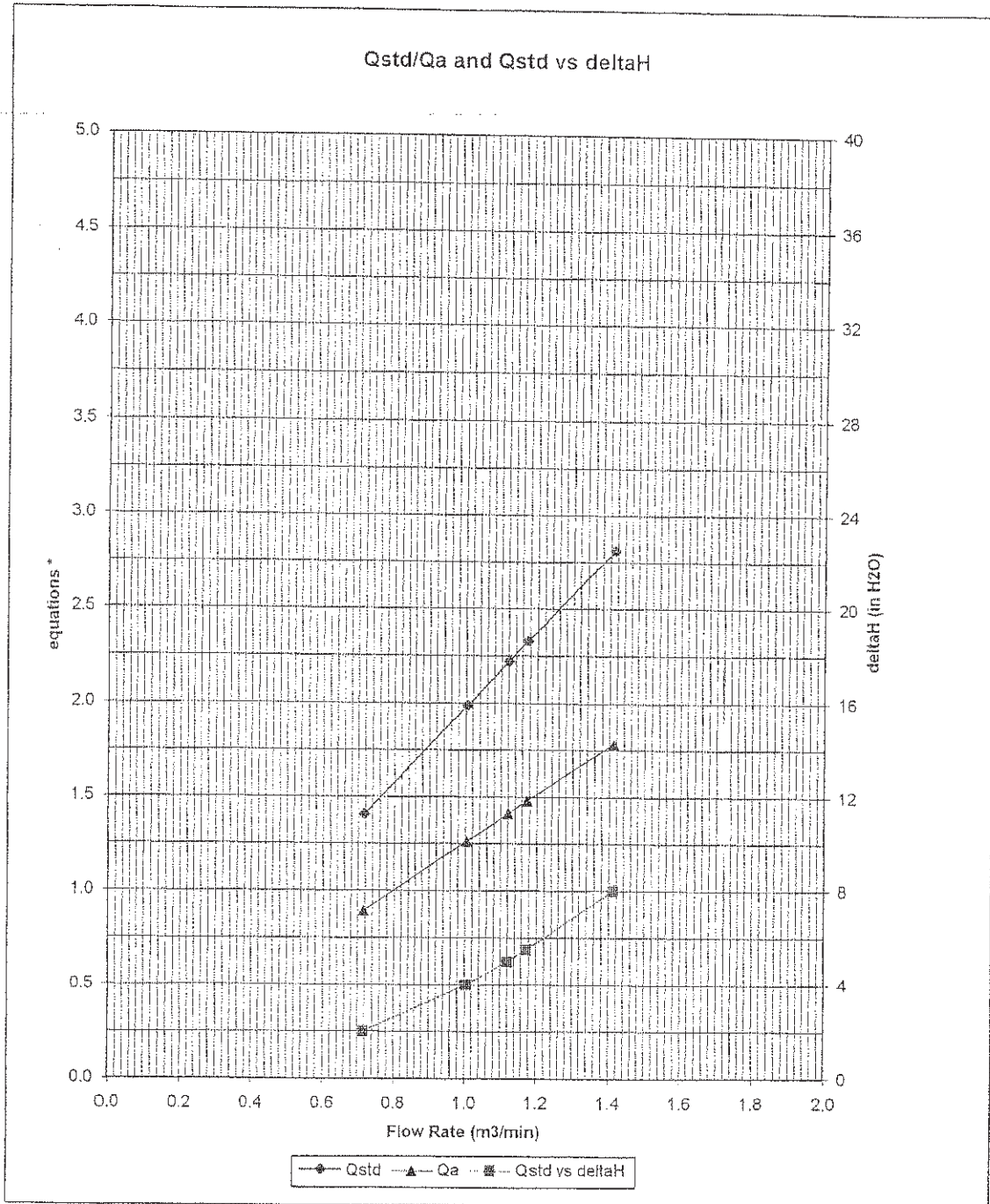
For subsequent flow rate calculations:

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



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AIR POLLUTION MONITORING EQUIPMENT



\* y-axis equations:

Qstd series: 
$$\sqrt{\Delta H \left( \frac{P_a}{P_{std}} \right) \left( \frac{T_{std}}{T_a} \right)}$$

Qa series: 
$$\sqrt{\Delta H (T_a / P_a)}$$

#0005

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA1b  
 Equipment no. : EL452

Calibration Date : 23-Aug-11  
 Calibration Due Date : 23-Oct-11

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, $T_a$	305	Kelvin	Pressure, $P_a$
			1010 mmHg

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

Calibration of RSP						
Calibration Point	Manometer Reading			$Q_{std}$ ( $m^3 / min.$ ) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
	(up)	(down)	(difference)			
1	6.4	6.4	12.8	1.7711	61	60.1977
2	5.2	5.2	10.4	1.5984	54	53.2897
3	4.0	4.0	8.0	1.4043	46	45.3950
4	2.5	2.5	5.0	1.1143	35	34.5396
5	1.4	1.4	2.8	0.8389	21	20.7238

By Linear Regression of Y on X

Slope, m = 41.7132                      Intercept, b = -13.2921  
 Correlation Coefficient\* = 0.9985  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

\*\* Delete as appropriate.

Remarks : \_\_\_\_\_  
 \_\_\_\_\_

Calibrated by : Sam Lam  
 Date : 23-Aug-11

Checked by : Cherry Mak  
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA2a  
 Equipment no. : EL449

Calibration Date : 23-Aug-11  
 Calibration Due Date : 23-Oct-11

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, $T_a$	305	Kelvin	Pressure, $P_a$
			1010 mmHg

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

Calibration of RSP						
Calibration Point	Manometer Reading			$Q_{std}$ ( $m^3 / min.$ ) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
	(up)	(down)	(difference)			
1	6.3	6.3	12.6	1.7574	52	51.3161
2	5.0	5.0	10.0	1.5677	45	44.4081
3	3.8	3.8	7.6	1.3693	37	36.5133
4	2.4	2.4	4.8	1.0922	27	26.6449
5	1.5	1.5	3.0	0.8676	14	13.8159

By Linear Regression of Y on X

Slope, m = 41.1960      Intercept, b = -20.2858  
 Correlation Coefficient\* = 0.9959  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

\*\* Delete as appropriate.

Remarks : \_\_\_\_\_  
 \_\_\_\_\_

Calibrated by : Sam Lam  
 Date : 23-Aug-11

Checked by : Cherry Mak  
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA3a  
 Equipment no. : EL888

Calibration Date : 23-Aug-11  
 Calibration Due Date : 23-Oct-11

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, $T_a$	305	Kelvin	Pressure, $P_a$
			1010 mmHg

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

Calibration of RSP						
Calibration Point	Manometer Reading			$Q_{std}$ ( $m^3 / min.$ ) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
	(up)	(down)	(difference)			
1	5.4	5.4	10.8	1.6285	46	45.3950
2	4.3	4.3	8.6	1.4553	41	40.4607
3	3.5	3.5	7.0	1.3149	35	34.5396
4	2.3	2.3	4.6	1.0696	26	25.6580
5	1.5	1.5	3.0	0.8676	18	17.7632

By Linear Regression of Y on X

Slope, m = 36.7801                      Intercept, b = -13.8439  
 Correlation Coefficient\* = 0.9988  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

\*\* Delete as appropriate.

Remarks : \_\_\_\_\_  
 \_\_\_\_\_

Calibrated by : Sam Lam  
 Date : 23-Aug-11

Checked by : Cherry Mak  
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA4a  
 Equipment no. : EL390

Calibration Date : 23-Aug-11  
 Calibration Due Date : 23-Oct-11

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, $T_a$	305	Kelvin	Pressure, $P_a$
			1010 mmHg

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

Calibration of RSP						
Calibration Point	Manometer Reading			$Q_{std}$ ( $m^3 / min.$ ) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
	(up)	(down)	(difference)			
1	5.8	5.8	11.6	1.6870	54	53.2897
2	4.5	4.5	9.0	1.4883	48	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 = 38.8337                      Intercept, b = -11.2100  
 Correlation Coefficient\* = 0.9982  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

\*\* Delete as appropriate.

Remarks : \_\_\_\_\_  
 \_\_\_\_\_

Calibrated by : Sam Lam  
 Date : 23-Aug-11

Checked by : Cherry Mak  
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA5a  
 Equipment no. : EL380

Calibration Date : 23-Aug-11  
 Calibration Due Date : 23-Oct-11

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, $T_a$	305	Kelvin	Pressure, $P_a$
			1010 mmHg

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

Calibration of RSP						
Calibration Point	Manometer Reading			$Q_{std}$ ( $m^3 / min.$ ) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
	(up)	(down)	(difference)			
1	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 = 32.8954      Intercept, b = -1.6589  
 Correlation Coefficient\* = 0.9993  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

\*\* Delete as appropriate.

Remarks : \_\_\_\_\_  
 \_\_\_\_\_

Calibrated by : Sam Lam  
 Date : 23-Aug-11

Checked by : Cherry Mak  
 Date : 23-Aug-11



**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA6a  
 Equipment no. : EL448

Calibration Date : 23-Aug-11  
 Calibration Due Date : 23-Oct-11

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, $T_a$	305	Kelvin	Pressure, $P_a$
			1010 mmHg

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

Calibration of RSP						
Calibration Point	Manometer Reading			$Q_{std}$ ( $m^3 / min.$ ) <b>X-axis</b>	Continuous Flow Recorder, $W$ (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ <b>Y-axis</b>
	(up)	(down)	(difference)			
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,  $m$  = 36.0920                      Intercept,  $b$  = -5.7206  
 Correlation Coefficient\* = 0.9978  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

\*\* Delete as appropriate.

Remarks : \_\_\_\_\_  
 \_\_\_\_\_

Calibrated by : Sam Lam  
 Date : 23-Aug-11

Checked by : Cherry Mak  
 Date : 23-Aug-11



Odour Research Laboratory  
 The Hong Kong Polytechnic University,  
 Hung Hom, Kowloon, Hong Kong  
 Tel: (852) 2766 6016 Fax: (852) 2334 6389

1<sup>st</sup> September 2011

**Re: A Certificate for a Qualified Odour Panel Member**

This is to certify that Mr. Ng Kin-hung participated in a set of n-butanol screening tests in our laboratory during May and August 2011 and the data of his screening tests are shown below:

$\bar{y}_{ITE}$	$10^{\bar{y}_{ITE}}$	$S_{ITE}$	$10^{S_{ITE}}$	unit	17-May-11	26-May-11	08-Jun-11	20-Jun-11	24-Jun-11	05-Jul-11	14-Jul-11	13-Aug-11	16-Aug-11	22-Aug-11
	47.4			dilution	890.2	1102.9	1102.9	1366.3	1102.9	890.2	1102.9	1366.3	1102.9	890.2
				$\mu\text{mol} / \text{mol}$	56.8	45.9	45.9	37.0	45.9	56.8	45.9	37.0	45.9	56.8
1.6709		0.0686	1.17	$\log_{10} (\mu\text{mol} / \text{mol})$	1.7547	1.6616	1.6616	1.5686	1.6616	1.7547	1.6616	1.5686	1.6616	1.7547

Results demonstrated that his odour threshold of n-butanol in nitrogen gas was found to be in the range of 20 – 80 ppb/v and a standard deviation of  $R < 2.3$ . According to the requirement of the European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN13725), he is qualified to participate olfactometry analysis to determine odour concentration for a valid period of three months from today until 30<sup>th</sup> November 2011.

Yours sincerely

*Li Xianzhong*



Professor X. Z. Li  
 Odour Research Laboratory  
 The Hong Kong Polytechnic University



***Appendix 5.1***

***Monitoring Schedules for Reporting Month and Coming Reporting Month***

**Contract No. HK/2009/05**  
**Wan Chai Development Phase II and Central-Wan Chai Bypass**  
**Sampling, Field Measurement and Testing Works (Stage 1)**  
 .....**Environmental Monitoring Schedule**  
**September 2011**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>28-Aug</b>	29-Aug	30-Aug	31-Aug	01-Sep	02-Sep	03-Sep
	Impact WQM Mid-ebb: 12:24 Mid-flood: 18:53	24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2300	1hr TSP x 3	Impact WQM Mid-ebb: 14:33 Mid-flood: 20:36		Impact WQM Mid-flood: 10:20 Mid-ebb: 16:11
<b>04-Sep</b>	05-Sep	06-Sep	07-Sep	08-Sep	09-Sep	10-Sep
	24hr TSP Impact WQM Mid-ebb: 06:08 Mid-flood: 13:32	1hr TSP x 3	Odour Patrol Noise (Day time) Noise (Restricted hr) 1900-2300	Impact WQM Mid-ebb: 09:45 Mid-flood: 17:09		24hr TSP Impact WQM Mid-ebb: 11:08 Mid-flood: 18:01
<b>11-Sep</b>	12-Sep	<b>13-Sep</b>	14-Sep	15-Sep	16-Sep	17-Sep
	1hr TSP x 3 Impact WQM Mid-ebb: 12:19 Mid-flood: 18:47		Impact WQM Mid-ebb: 13:21 Mid-flood: 19:31	Noise (Day time) Noise (Restricted hr) 1900-2300	24hr TSP Impact WQM Mid-ebb: 14:21 Mid-flood: 20:15	1hr TSP x 3
<b>18-Sep</b>	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep
	Impact WQM Mid-ebb: 03:46 Mid-flood: 10:59	Odour Patrol Noise (Day time) Noise (Restricted hr) 1900-2300	Impact WQM Mid-flood: 19:07	24hr TSP Impact WQM Mid-ebb: 07:47	1hr TSP x 3	Impact WQM Mid-ebb: 09:38 Mid-flood: 16:45
<b>25-Sep</b>	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	01-Oct
	Impact WQM Mid-ebb: 11:16 Mid-flood: 17:38	Noise (Day time) Noise (Restricted hr) 1900-2300	24hr TSP Impact WQM Mid-ebb: 12:46 Mid-flood: 18:46	1hr TSP x 3	Impact WQM Mid-ebb: 14:15 Mid-flood: 19:58	

**Contract No. HK/2009/05**  
**Wan Chai Development Phase II and Central-Wan Chai Bypass**  
**Sampling, Field Measurement and Testing Works (Stage 1)**  
**Tentative Environmental Monitoring Schedule**  
**October 2011**

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

**Contract No. HK/2009/05**  
**Wan Chai Development Phase II and Central-Wan Chai Bypass**  
**Sampling, Field Measurement and Testing Works (Stage 1)**  
**Tentative Environmental Monitoring Schedule**  
**November 2011**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>30-Oct</b>	31-Oct Noise (Day time) Noise (Restricted hr) 1900-2300	1-Nov 24hr TSP Impact WQM Mid-ebb: 4:01 Mid-flood: 11:31	2-Nov 1hr TSP x 3	3-Nov Impact WQM Mid-ebb: 6:01 Mid-flood: 14:04	4-Nov	5-Nov Impact WQM Mid-flood: 15:24 Mid-ebb: 21:36
<b>6-Nov</b>	7-Nov 24hr TSP Impact WQM Mid-ebb: 10:06 Mid-flood: 16:24	8-Nov 1hr TSP x 3	9-Nov Impact WQM Mid-flood: 17:07 Mid-ebb: 23:47	10-Nov Noise (Day time) Noise (Restricted hr) 1900-2300	11-Nov Impact WQM Mid-flood: 17:47	12-Nov 24hr TSP Mid-ebb: 0:39
<b>13-Nov</b>	14-Nov Impact WQM Mid-ebb: 1:20 Mid-flood: 8:51	15-Nov Noise (Day time) Noise (Restricted hr) 1900-2300	16-Nov Impact WQM Mid-ebb: 2:35 Mid-flood: 10:37	17-Nov	18-Nov 24hr TSP Impact WQM Mid-flood: 12:37	19-Nov 1hr TSP x 3 Impact WQM Mid-ebb: 5:35
<b>20-Nov</b>	21-Nov Impact WQM Mid-flood: 14:58 Mid-ebb: 21:22	22-Nov Noise (Day time) Noise (Restricted hr) 1900-2300	23-Nov Impact WQM Mid-ebb: 10:30 Mid-flood: 16:15	24-Nov 24hr TSP	25-Nov 1hr TSP x 3 Impact WQM Mid-ebb: 12:15 Mid-flood: 17:36	26-Nov
<b>27-Nov</b>	28-Nov Impact WQM Mid-ebb: 1:59 Mid-flood: 9:16	29-Nov Noise (Day time) Noise (Restricted hr) 1900-2300	30-Nov 24hr TSP Impact WQM Mid-ebb: 3:31 Mid-flood: 10:59	1-Dec 1hr TSP x 3	2-Dec Impact WQM Mid-flood: 12:44	3-Dec Impact WQM Mid-ebb: 5:47

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

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 2010)

Due to the changing of land ownership 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/2009/11, HK/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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
30/08/11	9:18	Haze	73.6	76.2	69.6	69.2	72	75
07/09/11	10:33	Fine	73.1	76.0	68.8	69.2	71	75
15/09/11	9:55	Fine	73.8	76.6	68.6	69.2	72	75
20/09/11	11:16	Cloudy	74.1	76.5	70.3	69.2	72	75
27/09/11	9:30	Fine	76.3	79.1	71.3	69.2	75	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
30/08/11	10:06	Haze	69.4	70.6	67.2	-	69	75
07/09/11	11:18	Fine	69.4	71.8	66.1	-	69	75
15/09/11	10:48	Fine	69.7	71.0	67.3	-	70	75
20/09/11	13:23	Cloudy	70.7	73.0	67.5	-	71	75
27/09/11	10:45	Fine	70.8	72.5	68.5	-	71	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
30/08/11	10:50	Haze	68.0	69.5	66.3	-	68	75
07/09/11	13:00	Sunny	67.1	68.8	64.8	-	67	75
15/09/11	13:10	Fine	69.2	71.7	66.8	-	69	75
20/09/11	13:30	Cloudy	68.6	70.3	66.4	-	69	75
27/09/11	11:30	Fine	69.5	70.8	68.0	-	70	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
30/08/11	11:30	Haze	71.8	73.5	66.1	-	72	75
07/09/11	13:41	Sunny	69.3	70.5	67.7	-	69	75
15/09/11	13:58	Fine	75.3	76.0	74.3	-	75	75
20/09/11	14:13	Cloudy	72.2	73.8	68.5	-	72	75
27/09/11	13:00	Fine	72.1	75.0	67.6	-	72	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
30/08/11	13:33	Haze	69.9	71.6	67.5	-	70	75
07/09/11	15:13	Fine	71.2	72.4	68.9	-	71	75
15/09/11	14:08	Fine	70.7	72.3	68.5	-	71	75
20/09/11	15:27	Cloudy	71.6	73.5	68.3	-	72	75
27/09/11	13:53	Fine	70.4	71.5	67.6	-	70	75



**Noise Monitoring Result**

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

Location: M1a - Harbour Road Sports Center

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
30/08/11	21:02	Fine	69.3	72.4	63.1	70.4	61.1	70	70
	21:07		69.4	72.6	63.3				
	21:12		71.9	73.0	63.4				
07/09/11	20:15	Fine	73.0	74.6	68.9	71.9	61.1	72	70
	20:21		71.0	73.5	67.6				
	20:27		71.4	73.3	68.1				
15/09/11	20:08	Fine	72.2	75.0	67.1	72.1	61.1	72	70
	20:13		72.7	76.2	66.6				
	20:19		71.3	73.8	66.3				
20/09/11	19:15	Cloudy	72.3	75.0	68.6	72.5	61.1	72	70
	19:20		72.8	75.0	68.9				
	19:25		72.5	74.6	68.7				
27/09/11	21:23	Fine	68.2	71.8	62.4	68.8	61.1	68	70
	21:28		69.0	71.6	63.4				
	21:34		69.2	72.4	62.0				

Location: M2b -Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
30/08/11	19:30	Fine	66.7	69.1	64.3	66.9	-	67	70
	19:35		67.1	69.5	65.0				
	19:40		66.8	69.0	64.7				
07/09/11	20:27	Fine	66.5	67.3	65.4	66.8	-	67	70
	20:32		67.0	68.4	65.3				
	20:37		66.8	68.1	65.1				
15/09/11	20:02	Fine	70.4	72.5	66.3	68.7	-	69	70
	20:07		67.4	68.4	66.2				
	20:12		67.7	69.2	65.9				
20/09/11	19:12	Fine	67.6	68.8	65.6	68.3	-	68	70
	19:17		68.6	70.9	66.2				
	19:22		68.6	70.4	66.0				
27/09/11	19:31	Fine	67.4	68.9	64.8	67.3	-	67	70
	19:36		67.0	68.3	65.4				
	19:41		67.5	69.2	65.7				

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
30/08/11	20:10	Fine	67.1	69.0	65.2	67.4	-	67	70
	20:15		67.4	69.3	65.0				
	20:20		67.7	69.6	65.1				
07/09/11	21:05	Fine	65.8	67.2	62.7	66.2	-	66	70
	21:11		65.1	67.1	62.6				
	21:17		67.4	69.5	63.8				
15/09/11	20:59	Fine	65.5	67.2	63.0	65.5	-	65	70
	21:05		65.9	68.1	62.4				
	21:11		64.9	66.1	62.6				
20/09/11	20:19	Cloudy	65.4	67.0	63.3	65.5	-	65	70
	20:24		65.3	67.5	63.0				
	20:29		65.7	67.7	62.8				
27/09/11	20:17	Fine	66.6	67.8	65.0	66.6	-	67	70
	20:22		66.6	68.1	65.1				
	20:28		66.5	68.0	65.1				



**Noise Monitoring Result**

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

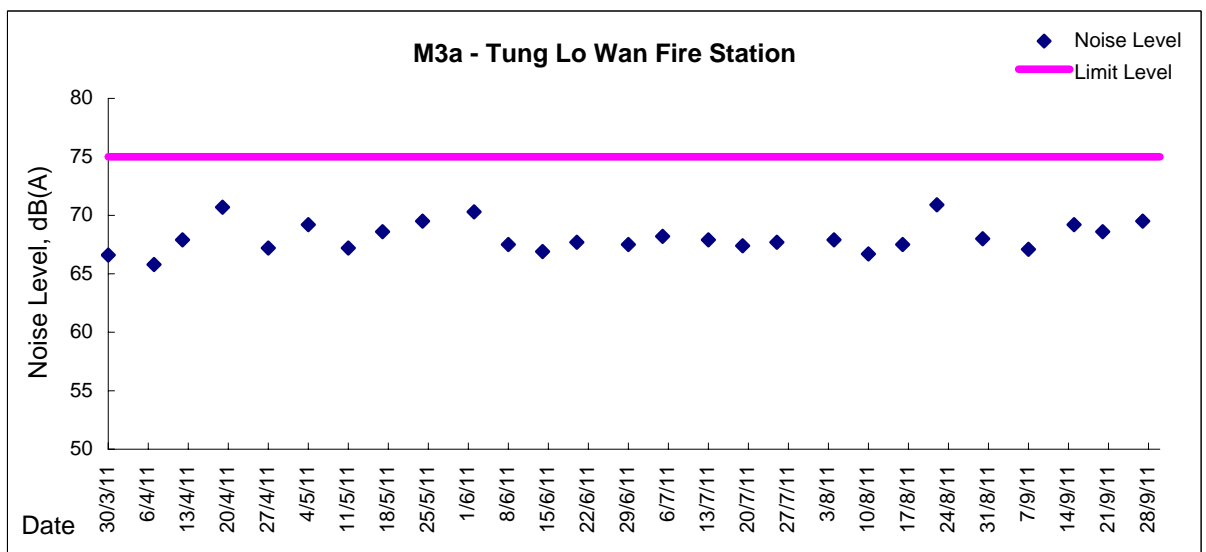
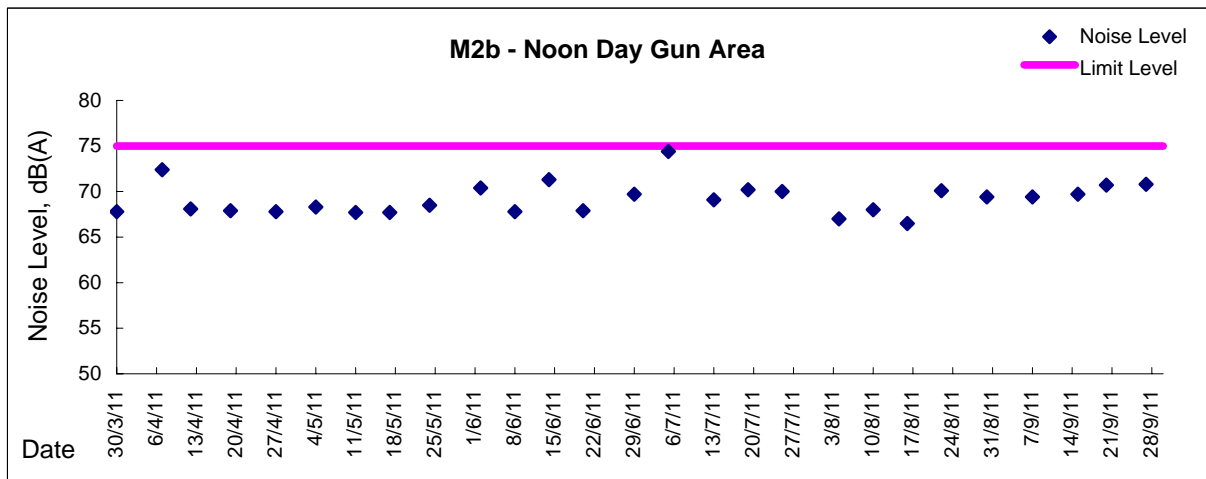
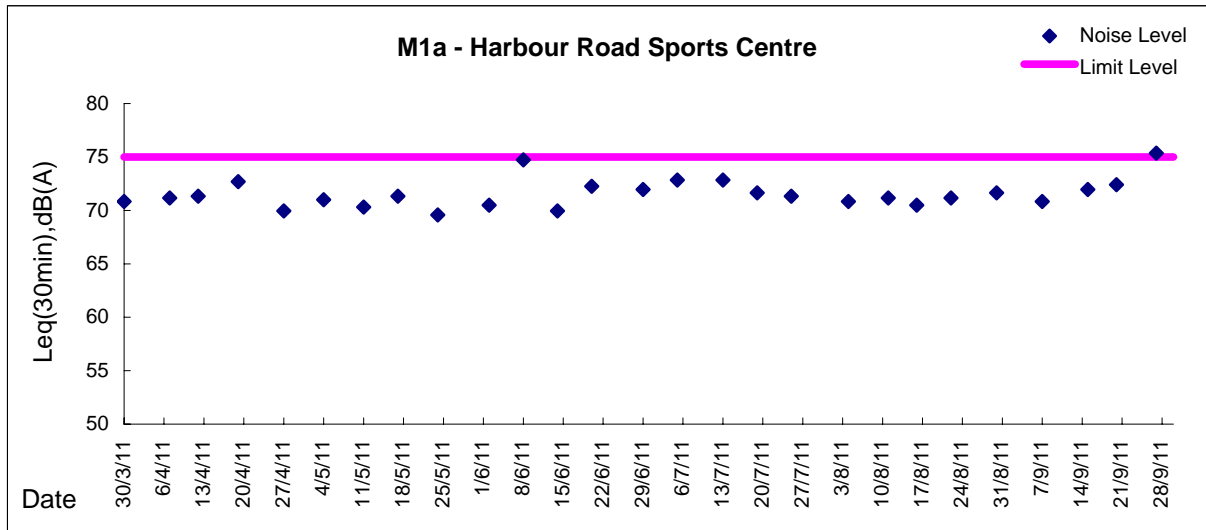
Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
30/08/11	20:37	Fine	68.2	70.1	66.1	67.9	-	68	70
	20:42		67.6	69.5	66.0				
	20:47		67.8	69.9	66.2				
07/09/11	21:33	Fine	67.4	68.9	64.9	67.8	-	68	70
	21:39		68.1	70.5	65.2				
	21:46		68.0	70.1	65.2				
15/09/11	21:27	Fine	68.0	69.9	65.2	67.6	-	68	70
	21:33		67.0	68.5	65.0				
	21:39		67.8	69.2	65.7				
20/09/11	20:45	Cloudy	67.5	69.0	65.5	67.7	-	68	70
	20:50		67.8	69.5	65.7				
	20:55		67.8	69.5	65.5				
27/09/11	20:45	Fine	66.9	68.1	64.4	66.9	-	67	70
	20:50		67.2	69.2	63.5				
	20:55		66.7	68.4	64.2				

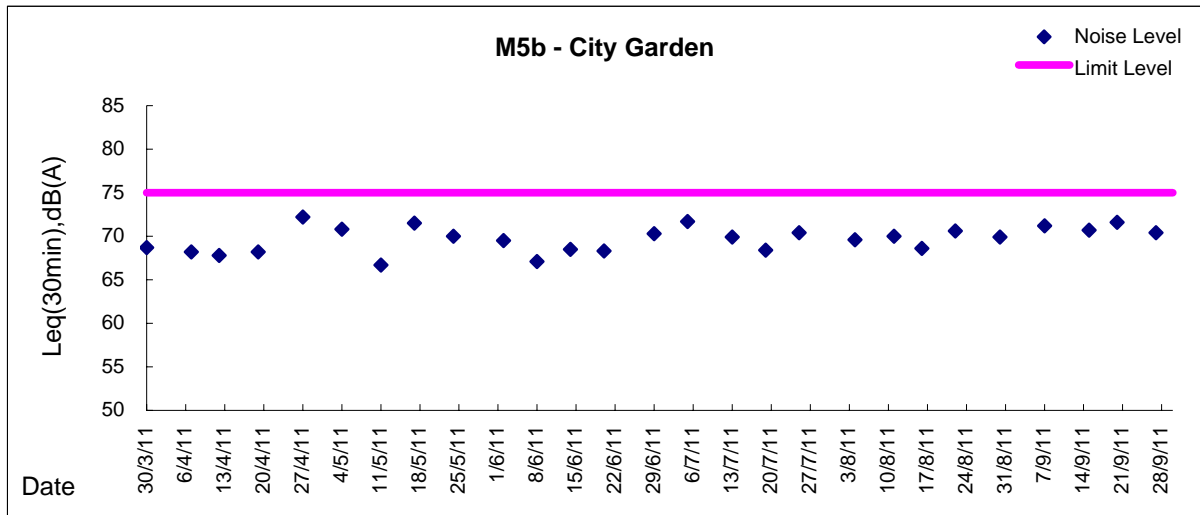
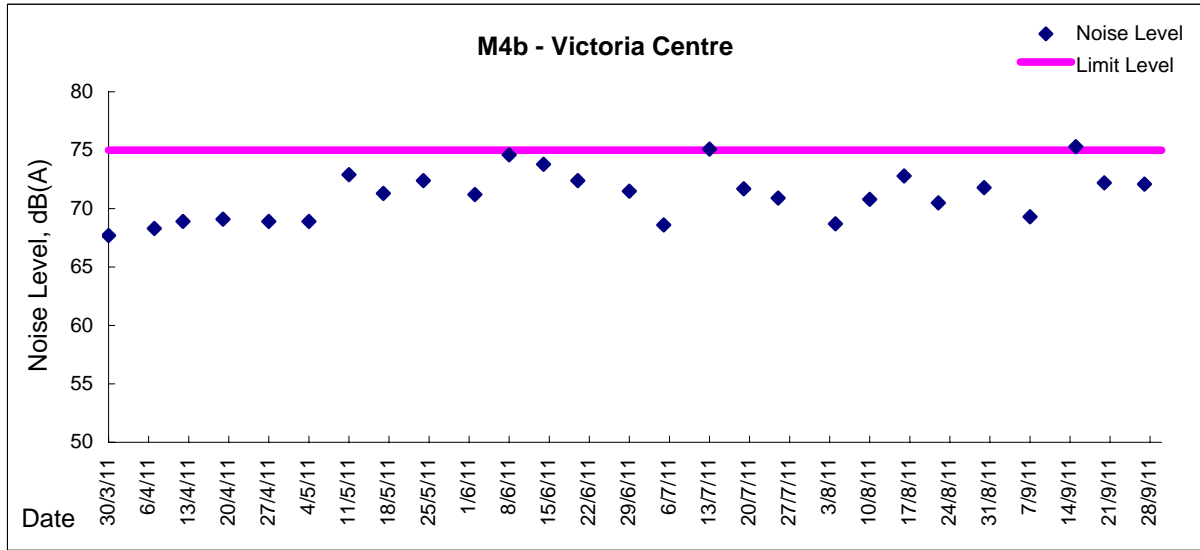
Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
30/08/11	21:15	Fine	67.8	69.2	65.3	67.6	-	68	70
	21:20		67.7	69.7	65.5				
	21:25		67.4	69.6	65.4				
07/09/11	21:13	Fine	68.1	69.1	66.9	68.2	-	68	70
	21:18		67.9	68.8	66.9				
	21:23		68.7	69.9	67.2				
15/09/11	21:25	Fine	68.3	69.0	67.1	68.0	-	68	70
	21:30		68.0	69.1	66.8				
	21:35		67.7	68.6	66.7				
20/09/11	19:53	Fine	68.7	69.4	67.9	69.1	-	69	70
	19:58		69.7	70.1	68.0				
	20:03		68.7	69.6	67.7				
27/09/11	20:34	Fine	69.8	70.3	68.0	69.3	-	69	70
	20:39		69.1	69.7	68.0				
	20:44		68.9	69.8	68.0				

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



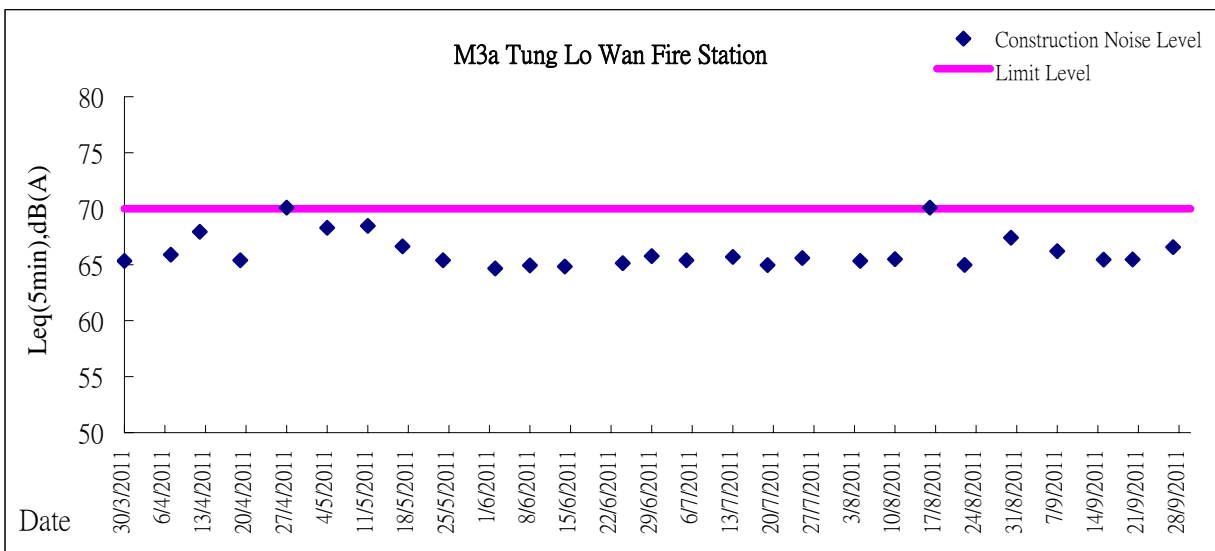
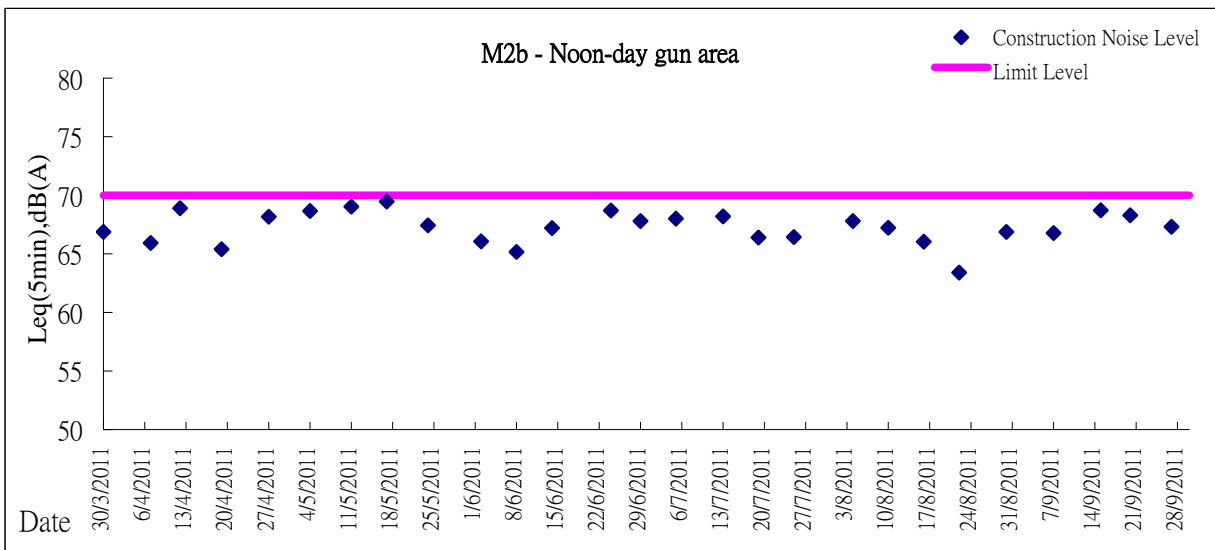
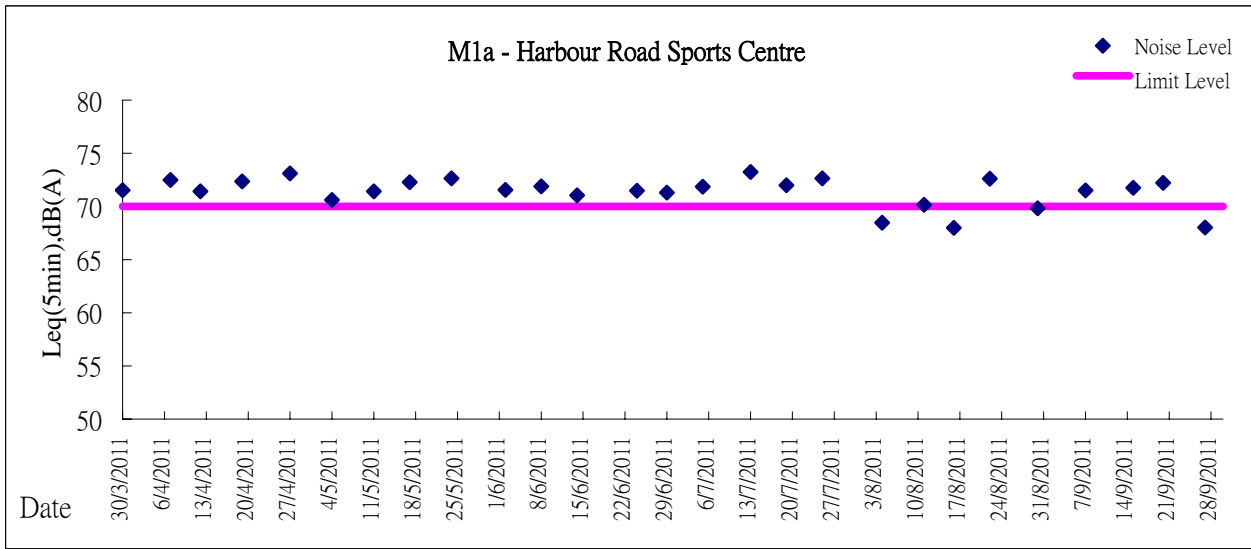
**Graphic Presentation of Noise Monitoring Result**  
**Day Time (0700 - 1900hrs on normal weekdays)**





### Graphic Presentation of Noise Monitoring Result

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

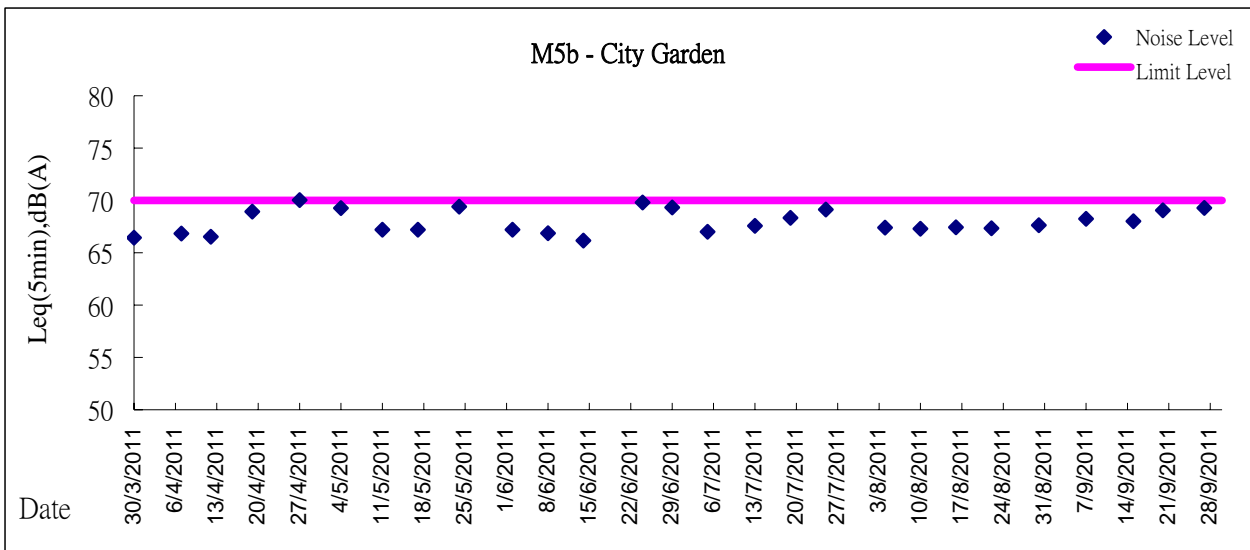
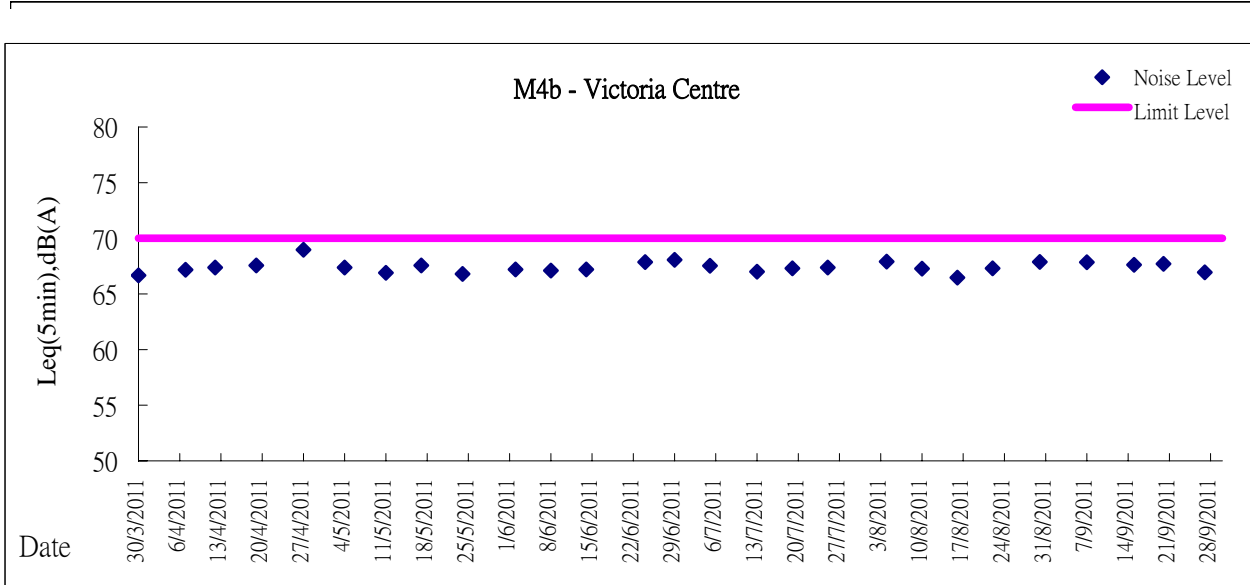






**Graphic Presentation of Noise Monitoring Result**

**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*

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Location: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 176.7

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30/8/2011	8:00	Fine	001085	2.7986	3.1005	9785.03	9809.02	23.99	1.23	1.19	1.21	1744	173
5/9/2011	8:00	Fine	000973	2.7890	2.8827	9789.90	9813.90	24.00	1.09	1.09	1.09	1576	59
10/9/2011	8:00	Fine	001086	2.7863	2.9156	0.15	24.16	24.01	1.19	1.19	1.19	1710	76
16/9/2011	8:00	Sunny	001259	2.8856	2.9707	27.16	51.14	23.98	1.21	1.21	1.21	1738	49

Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 320.1

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
31/8/2011	9:45	Fine	000972	2.8145	2.8360	9809.02	9810.02	1.00	1.15	1.09	1.12	67	320
31/8/2011	10:55	Fine	000977	2.7530	2.7681	9810.02	9811.02	1.00	1.18	1.06	1.12	67	225
31/8/2011	13:00	Fine	000978	2.7628	2.7769	9811.02	9812.02	1.00	1.22	1.13	1.18	71	200
6/9/2011	10:05	Fine	000983	2.7652	2.7742	9813.90	9814.90	1.00	1.09	1.05	1.07	64	140
6/9/2011	13:00	Fine	000984	2.7716	2.7779	9814.90	9815.90	1.00	1.09	1.00	1.05	63	100
6/9/2011	14:05	Fine	000987	2.7930	2.7993	9816.90	9817.90	1.00	1.14	1.14	1.14	68	92
12/9/2011	8:25	Cloudy	001147	2.7572	2.7637	24.16	25.16	1.00	1.21	1.19	1.20	72	90
12/9/2011	9:50	Cloudy	001251	2.8646	2.8725	25.16	26.16	1.00	1.19	1.19	1.19	71	111
12/9/2011	11:00	Cloudy	001255	2.8771	2.8851	26.16	27.16	1.00	1.19	1.19	1.19	71	112
17/9/2011	8:30	Sunny	001205	2.7318	2.7379	51.14	52.14	1.00	1.21	1.18	1.20	72	85
17/9/2011	9:35	Sunny	001282	2.8474	2.8539	52.14	53.14	1.00	1.14	1.09	1.12	67	97
17/9/2011	10:43	Sunny	001284	2.8416	2.8469	53.14	54.14	1.00	1.14	1.05	1.09	66	81

The monitoring station was temporary suspension until obtainment of a representative long-term air monitoring station on 18 September 2011.



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 169.5

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30/8/2011	8:00	Fine	001084	2.8092	3.1203	14258.90	14282.89	23.99	1.39	1.39	1.39	1998	156
5/9/2011	8:00	Fine	001041	2.7709	2.8961	14285.90	14309.88	23.98	1.32	1.37	1.35	1938	65
10/9/2011	8:00	Fine	001114	2.8018	2.9234	14312.88	14336.88	24.00	1.42	1.42	1.42	2042	60
16/9/2011	8:00	Sunny	001049	2.7580	2.8337	14339.88	14363.86	23.98	1.42	1.42	1.42	2037	37
22/9/2011	8:00	Cloudy	001286	2.8339	3.0183	14366.86	14390.86	24.00	1.38	1.42	1.40	2014	92

Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 323.4

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
31/8/2011	9:30	Fine	000971	2.8114	2.8288	14282.89	14283.89	1.00	1.41	1.41	1.41	84	206
31/8/2011	10:35	Fine	000974	2.8157	2.8343	14283.89	14284.89	1.00	1.41	1.41	1.41	84	220
31/8/2011	13:00	Fine	000975	2.7655	2.7853	14284.89	14285.89	1.00	1.32	1.32	1.32	79	251
6/9/2011	10:00	Fine	000982	2.7595	2.7682	14309.88	14310.88	1.00	1.42	1.37	1.39	84	104
6/9/2011	11:00	Fine	000985	2.7696	2.7771	14310.88	14311.88	1.00	1.37	1.32	1.35	81	93
6/9/2011	13:00	Fine	000986	2.7696	2.7757	14311.88	14312.88	1.00	1.35	1.37	1.36	82	75
12/9/2011	8:00	Cloudy	001242	2.8680	2.8771	14336.88	14337.88	1.00	1.44	1.42	1.43	86	106
12/9/2011	10:00	Cloudy	001252	2.8602	2.8683	14337.88	14338.88	1.00	1.42	1.42	1.42	85	95
12/9/2011	11:00	Cloudy	001256	2.8714	2.8800	14338.88	14339.88	1.00	1.42	1.42	1.42	85	101
17/9/2011	8:42	Sunny	001281	2.8588	2.8652	14363.86	14364.86	1.00	1.30	1.28	1.29	77	83
17/9/2011	9:46	Sunny	001283	2.8555	2.8622	14364.86	14365.86	1.00	1.42	1.39	1.40	84	80
17/9/2011	10:52	Sunny	001285	2.8445	2.8508	14365.86	14366.86	1.00	1.37	1.37	1.37	82	77
23/9/2011	8:30	Cloudy	001288	2.8548	2.8677	14390.86	14391.86	1.00	1.42	1.42	1.42	85	151
23/9/2011	9:40	Cloudy	001289	2.8560	2.8695	14391.86	14392.86	1.00	1.38	1.38	1.38	83	164
23/9/2011	11:00	Cloudy	001291	2.8610	2.8725	14392.86	14393.86	1.00	1.33	1.33	1.33	80	144



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring  
 Action Level ( $\mu\text{g}/\text{m}^3$ ) - 171  
 Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30/8/2011	8:00	Fine	001122	2.7984	3.1425	10091.64	10115.64	24.00	1.41	1.41	1.41	2030	170
5/9/2011	8:00	Fine	001111	2.7897	2.9283	10118.56	10142.56	24.00	1.41	1.41	1.41	2032	68
10/9/2011	8:00	Fine	001145	2.7608	2.9331	10145.56	10169.55	23.99	1.47	1.47	1.47	2109	82
16/9/2011	8:00	Sunny	001260	2.8868	2.9915	10172.55	10196.54	23.99	1.41	1.41	1.41	2031	52
22/9/2011	8:00	Cloudy	001265	2.8748	3.1238	10199.52	10223.52	24.00	1.44	1.47	1.46	2098	119

Report on 1-hour TSP monitoring  
 Action Level ( $\mu\text{g}/\text{m}^3$ ) - 311.3  
 Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
31/8/2011	9:35	Fine	001203	2.7328	2.7522	10115.62	10116.63	1.01	1.40	1.40	1.40	84	231
31/8/2011	13:00	Fine	000746	2.7986	2.8237	10116.63	10117.63	1.00	1.55	1.55	1.55	93	269
31/8/2011	14:39	Fine	001131	2.7515	2.7714	10117.63	10118.47	0.84	1.40	1.40	1.40	71	282
6/9/2011	10:08	Fine	001238	2.8724	2.8824	10142.56	10143.56	1.00	1.41	1.41	1.41	85	118
6/9/2011	13:00	Fine	001141	2.7528	2.7596	10143.56	10144.56	1.00	1.41	1.41	1.41	85	80
6/9/2011	14:50	Fine	001143	2.7603	2.7688	10144.56	10145.56	1.00	1.41	1.41	1.41	85	100
12/9/2011	9:15	Cloudy	001149	2.7616	2.7707	10169.55	10170.55	1.00	1.47	1.47	1.47	88	104
12/9/2011	10:28	Cloudy	001253	2.8843	2.8942	10170.55	10171.55	1.00	1.52	1.52	1.52	91	109
12/9/2011	13:00	Cloudy	001257	2.8957	2.9052	10171.55	10172.55	1.00	1.52	1.52	1.52	91	104
17/9/2011	10:09	Sunny	001201	2.7519	2.7628	10196.54	10197.52	0.98	1.41	1.41	1.41	83	131
17/9/2011	13:00	Sunny	001287	2.8462	2.8566	10197.52	10198.53	1.01	1.38	1.38	1.38	84	124
17/9/2011	14:20	Sunny	001236	2.8613	2.8714	10198.53	10199.51	0.98	1.41	1.41	1.41	84	121
23/9/2011	9:40	Cloudy	001273	2.8531	2.8720	10223.52	10224.52	1.00	1.42	1.42	1.42	85	222
23/9/2011	10:55	Cloudy	001229	2.8503	2.8686	10224.52	10225.52	1.00	1.42	1.42	1.42	85	215
23/9/2011	13:00	Cloudy	001293	2.8707	2.8851	10225.52	10226.52	1.00	1.31	1.31	1.31	79	183



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 171.2

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30/8/2011	8:00	Fine	001158	2.7534	3.0015	13741.25	13765.25	24.00	1.14	1.14	1.14	1645	151
5/9/2011	8:00	Fine	000988	2.7537	2.8571	13768.24	13792.23	23.99	1.15	1.15	1.15	1650	63
10/9/2011	8:00	Fine	001146	2.7537	2.8674	13795.23	13819.23	24.00	1.12	1.12	1.12	1618	70
16/9/2011	8:00	Sunny	001159	2.7372	2.7996	13822.23	13846.21	23.98	1.12	1.12	1.12	1614	39
22/9/2011	8:00	Cloudy	001266	2.8641	3.0091	13849.21	13873.21	24.00	1.15	1.15	1.15	1658	87

Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 312.5

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
31/8/2011	9:25	Fine	001204	2.7327	2.7486	13765.24	13766.24	1.00	1.14	1.14	1.14	68	233
31/8/2011	13:00	Fine	000747	2.7929	2.8131	13766.24	13767.24	1.00	1.11	1.11	1.11	67	302
31/8/2011	14:26	Fine	001130	2.7853	2.8033	13767.24	13768.24	1.00	1.11	1.11	1.11	67	269
6/9/2011	9:54	Fine	001237	2.8664	2.8712	13792.23	13793.23	1.00	1.07	1.10	1.09	65	74
6/9/2011	13:22	Fine	001142	2.7571	2.7615	13793.23	13794.23	1.00	1.12	1.12	1.12	67	65
6/9/2011	14:58	Fine	001144	2.7654	2.7698	13794.23	13795.23	1.00	1.12	1.12	1.12	67	65
12/9/2011	8:58	Cloudy	001148	2.7670	2.7721	13819.23	13820.23	1.00	1.12	1.12	1.12	67	76
12/9/2011	10:38	Cloudy	001254	2.8851	2.8914	13820.23	13821.23	1.00	1.12	1.12	1.12	67	94
12/9/2011	13:00	Cloudy	001258	2.8880	2.8949	13821.23	13822.23	1.00	1.15	1.15	1.15	69	100
17/9/2011	9:53	Sunny	001202	2.7452	2.7504	13846.21	13847.21	1.00	1.12	1.15	1.13	68	77
17/9/2011	13:00	Sunny	001187	2.7714	2.7755	13847.21	13848.21	1.00	1.12	1.12	1.12	67	61
17/9/2011	14:30	Sunny	001264	2.8688	2.8741	13848.21	13849.21	1.00	1.10	1.12	1.11	67	80
23/9/2011	9:29	Cloudy	001272	2.8663	2.8761	13873.21	13874.21	1.00	1.20	1.18	1.19	71	137
23/9/2011	10:50	Cloudy	001230	2.8457	2.8560	13874.21	13875.21	1.00	1.18	1.18	1.18	71	146
23/9/2011	13:00	Cloudy	001228	2.8532	2.8634	13875.21	13876.21	1.00	1.18	1.18	1.18	71	145



Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring  
Action Level ( $\mu\text{g}/\text{m}^3$ ) - 181  
Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30/8/2011	8:00	Fine	001073	2.7797	3.0599	14724.44	14748.42	23.98	1.17	1.17	1.17	1686	166
5/9/2011	8:00	Fine	001040	2.7764	2.9069	14751.42	14775.41	23.99	1.15	1.15	1.15	1655	79
10/9/2011	8:00	Fine	001048	2.8057	2.9302	14778.41	14802.40	23.99	1.15	1.15	1.15	1658	75
16/9/2011	8:00	Sunny	001210	2.7441	2.8673	14805.40	14829.39	23.99	1.15	1.15	1.15	1654	74
22/9/2011	8:00	Cloudy	001186	2.7591	2.9137	14832.39	14856.38	23.99	1.13	1.16	1.14	1644	94

Report on 1-hour TSP monitoring  
Action Level ( $\mu\text{g}/\text{m}^3$ ) - 332  
Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
31/8/2011	8:18	Fine	001123	2.7861	2.7945	14748.42	14749.42	1.00	1.02	1.02	1.02	61	137
31/8/2011	9:23	Fine	001035	2.7899	2.8042	14749.42	14750.42	1.00	1.14	1.14	1.14	68	209
31/8/2011	10:28	Fine	001037	2.7736	2.7914	14750.42	14751.42	1.00	1.14	1.14	1.14	68	261
6/9/2011	8:15	Fine	001064	2.8039	2.8122	14775.41	14776.41	1.00	1.15	1.15	1.15	69	120
6/9/2011	9:43	Fine	001043	2.7725	2.7795	14776.41	14777.41	1.00	1.15	1.15	1.15	69	102
6/9/2011	10:45	Fine	001045	2.8026	2.8095	14777.41	14778.41	1.00	1.15	1.15	1.15	69	100
12/9/2011	9:45	Cloudy	001304	2.8633	2.8705	14802.40	14803.40	1.00	1.09	1.09	1.09	66	110
12/9/2011	10:47	Cloudy	001303	2.8731	2.8794	14803.40	14804.40	1.00	1.01	1.01	1.01	60	104
12/9/2011	13:00	Cloudy	000989	2.7568	2.7624	14804.40	14805.40	1.00	0.80	0.80	0.80	48	116
17/9/2011	8:25	Sunny	001180	2.7678	2.7750	14829.39	14830.39	1.00	1.15	1.15	1.15	69	105
17/9/2011	9:31	Sunny	001182	2.7710	2.7765	14830.39	14831.39	1.00	1.15	1.15	1.15	69	80
17/9/2011	10:35	Sunny	001184	2.7695	2.7753	14831.39	14832.39	1.00	1.03	1.03	1.03	62	94
23/9/2011	8:15	Cloudy	001167	2.7449	2.7603	14856.38	14857.38	1.00	1.16	1.16	1.16	69	222
23/9/2011	9:18	Cloudy	001168	2.7586	2.7723	14857.38	14858.38	1.00	1.16	1.16	1.16	69	197
23/9/2011	10:20	Cloudy	001290	2.8416	2.8494	14858.38	14859.38	1.00	1.16	1.16	1.16	69	112





Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level - 187.3  $\mu\text{g}/\text{m}^3$   
Limit Level - 260  $\mu\text{g}/\text{m}^3$

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30/8/2011	8:00	Fine	001065	2.7958	3.1186	13022.20	13046.19	23.99	1.21	1.21	1.21	1737	186
5/9/2011	8:00	Fine	001039	2.7898	2.9240	13049.19	13073.18	23.99	1.21	1.21	1.21	1746	77
10/9/2011	8:00	Fine	001047	2.7772	2.9033	13076.18	13100.45	24.27	1.29	1.29	1.29	1885	67
16/9/2011	8:00	Sunny	001246	2.8752	2.9397	13104.64	13128.53	23.89	1.19	1.19	1.19	1700	38
22/9/2011	8:00	Cloudy	001185	2.7750	2.9233	13131.53	13155.53	24.00	1.22	1.22	1.22	1756	84

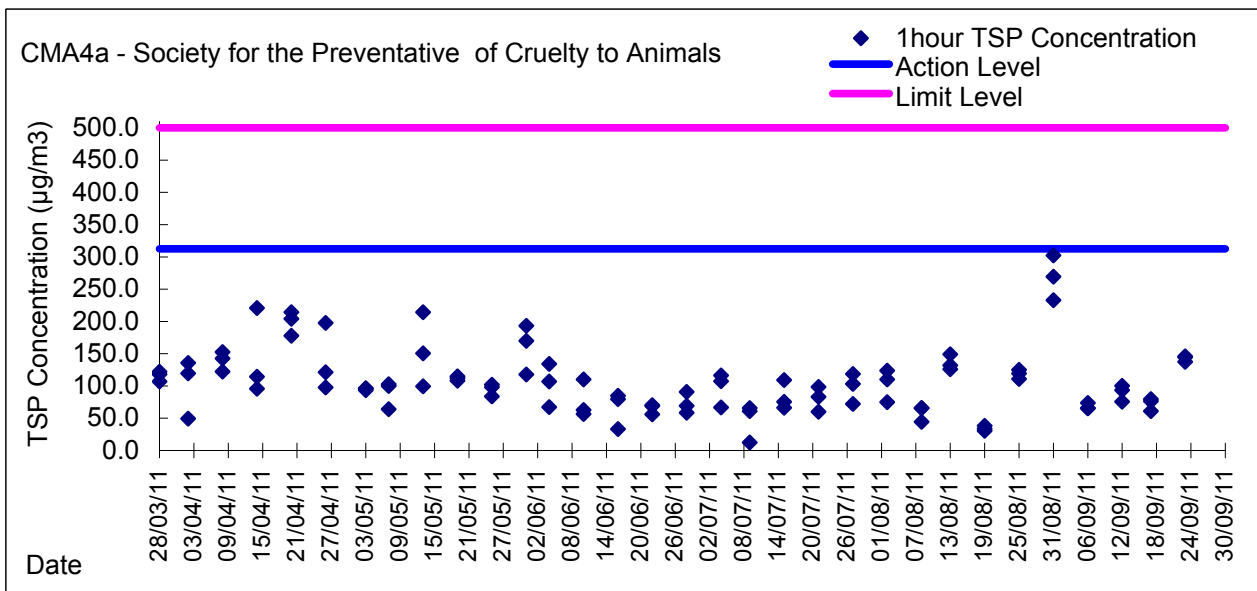
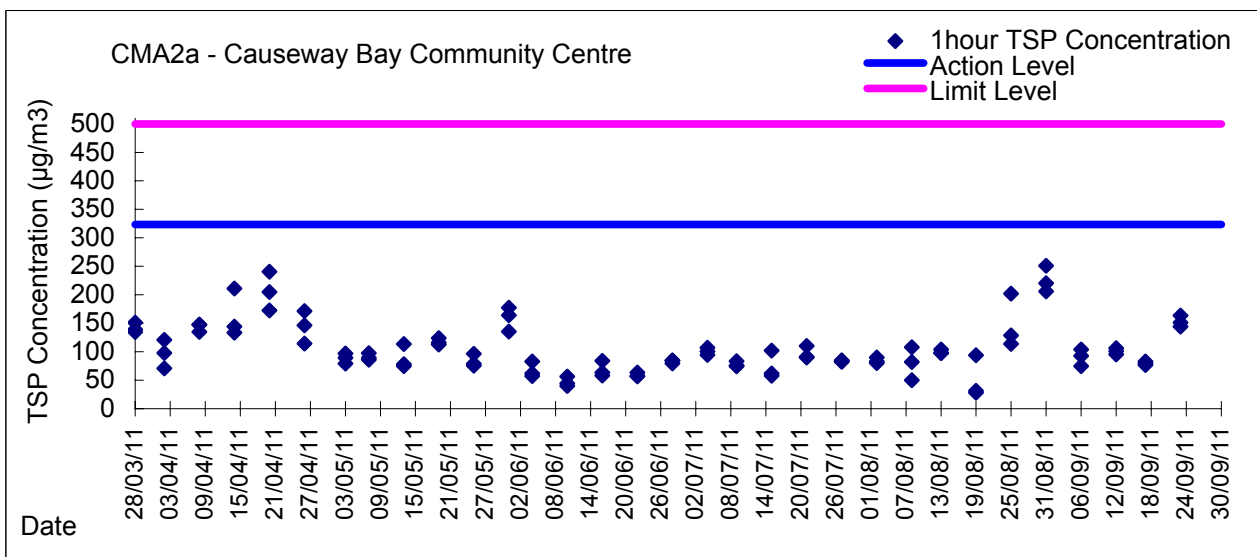
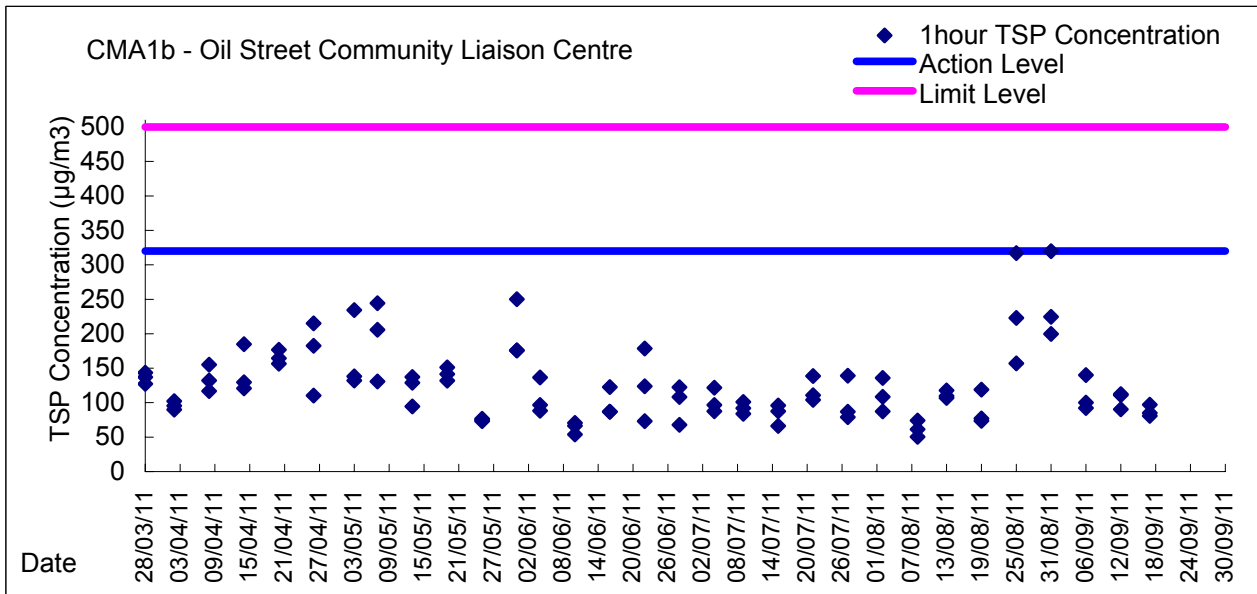
Report on 1-hour TSP monitoring

Action Level - 300.1  $\mu\text{g}/\text{m}^3$   
Limit Level - 500  $\mu\text{g}/\text{m}^3$

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
31/8/2011	8:28	Fine	001034	2.8030	2.8217	13046.19	13047.19	1.00	1.13	1.13	1.13	68	276
31/8/2011	9:31	Fine	001036	2.7929	2.8131	13047.19	13048.19	1.00	1.21	1.21	1.21	73	278
31/8/2011	10:40	Fine	001038	2.7766	2.7966	13048.19	13049.19	1.00	1.13	1.13	1.13	68	296
6/9/2011	8:28	Fine	001042	2.7832	2.7922	13073.18	13074.18	1.00	1.13	1.13	1.13	68	133
6/9/2011	9:54	Fine	001044	2.7987	2.8067	13074.18	13075.18	1.00	1.13	1.13	1.13	68	118
6/9/2011	10:57	Fine	001046	2.7824	2.7925	13075.18	13076.18	1.00	1.13	1.13	1.13	68	149
12/9/2011	14:28	Cloudy	001305	2.8790	2.8913	13100.53	13101.53	1.00	1.55	1.61	1.58	95	130
12/9/2011	15:30	Cloudy	001177	2.7620	2.7717	13101.53	13102.53	1.00	1.61	1.66	1.63	98	99
12/9/2011	16:43	Cloudy	001178	2.7742	2.7829	13102.53	13103.53	1.00	1.71	1.71	1.71	103	85
17/9/2011	8:15	Sunny	001179	2.7769	2.7808	13128.53	13129.53	1.00	1.13	1.13	1.13	68	58
17/9/2011	9:20	Sunny	001181	2.7679	2.7724	13129.53	13130.53	1.00	1.13	1.16	1.14	69	66
17/9/2011	10:24	Sunny	001183	2.7840	2.7884	13130.53	13131.53	1.00	1.13	1.13	1.13	68	65
23/9/2011	8:25	Cloudy	001243	2.8681	2.8786	13155.53	13156.53	1.00	1.14	1.14	1.14	68	154
23/9/2011	9:30	Cloudy	001244	2.8658	2.8766	13156.53	13157.53	1.00	1.14	1.14	1.14	68	158
23/9/2011	10:33	Cloudy	001170	2.7502	2.7600	13157.53	13158.53	1.00	1.14	1.14	1.14	68	144

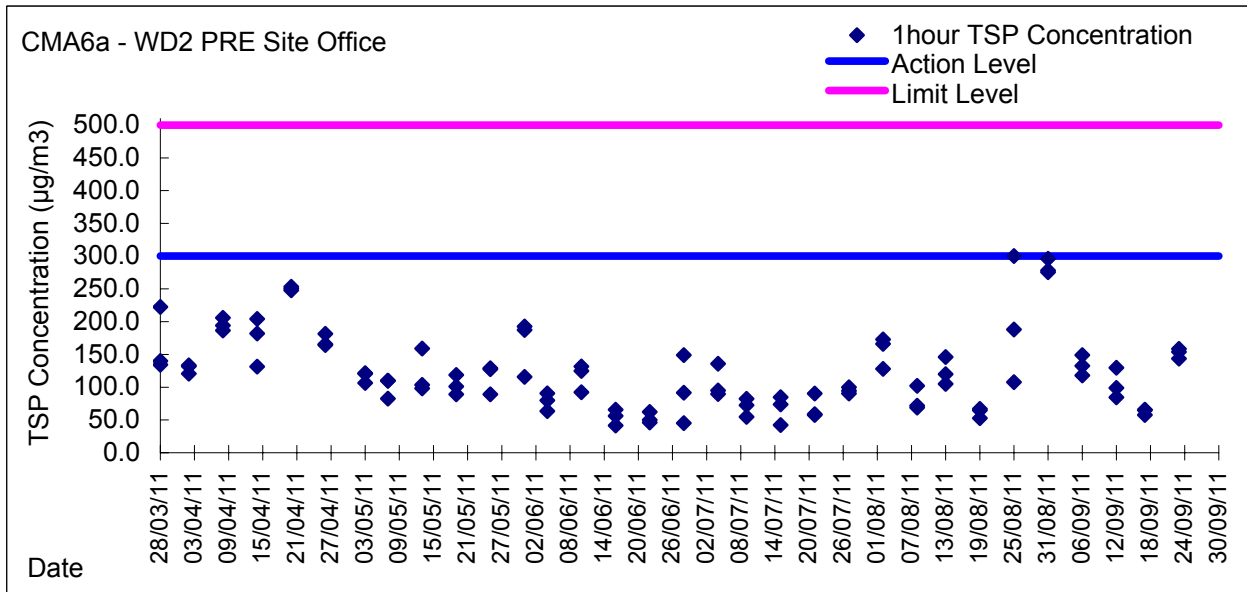
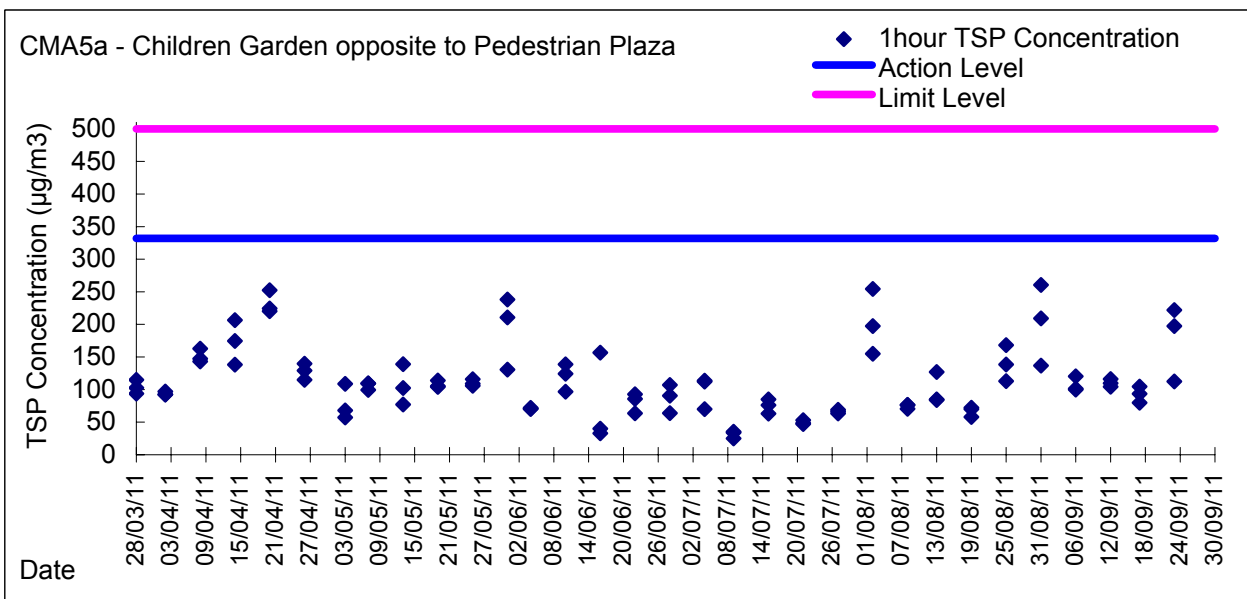
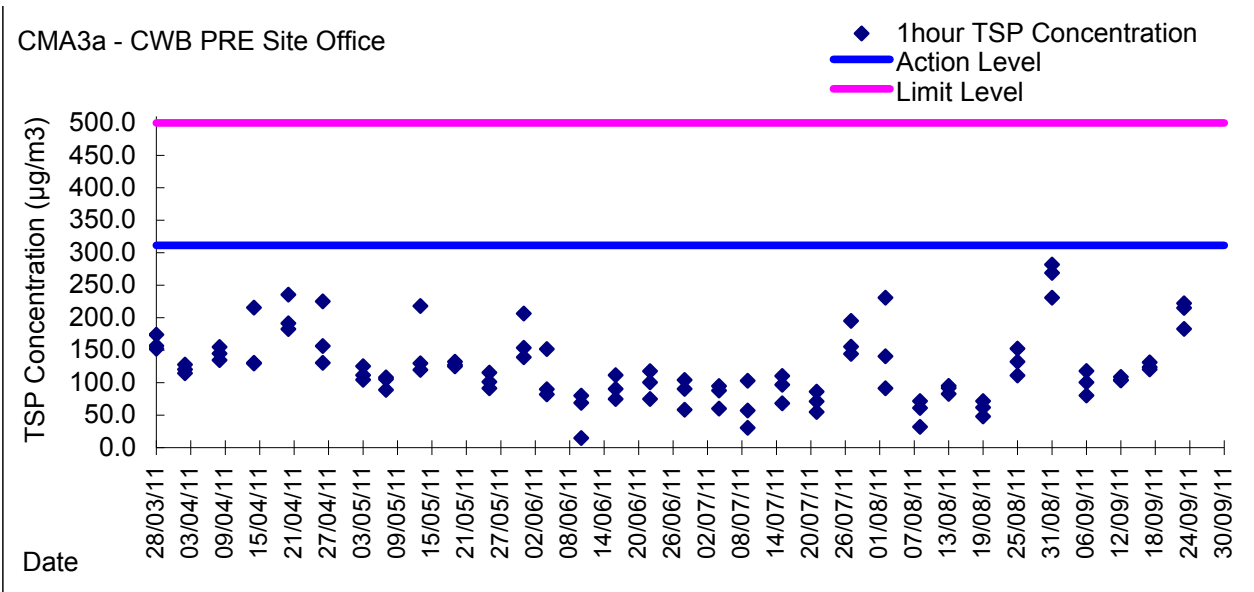


Graphic Presentation of 1 hour TSP Result

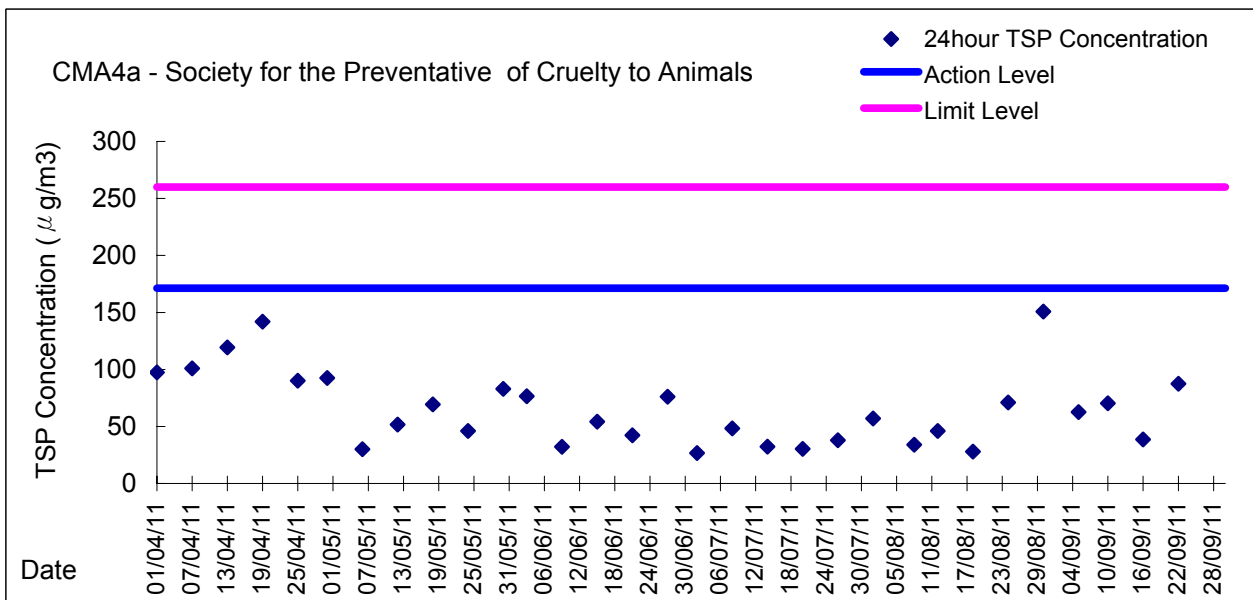
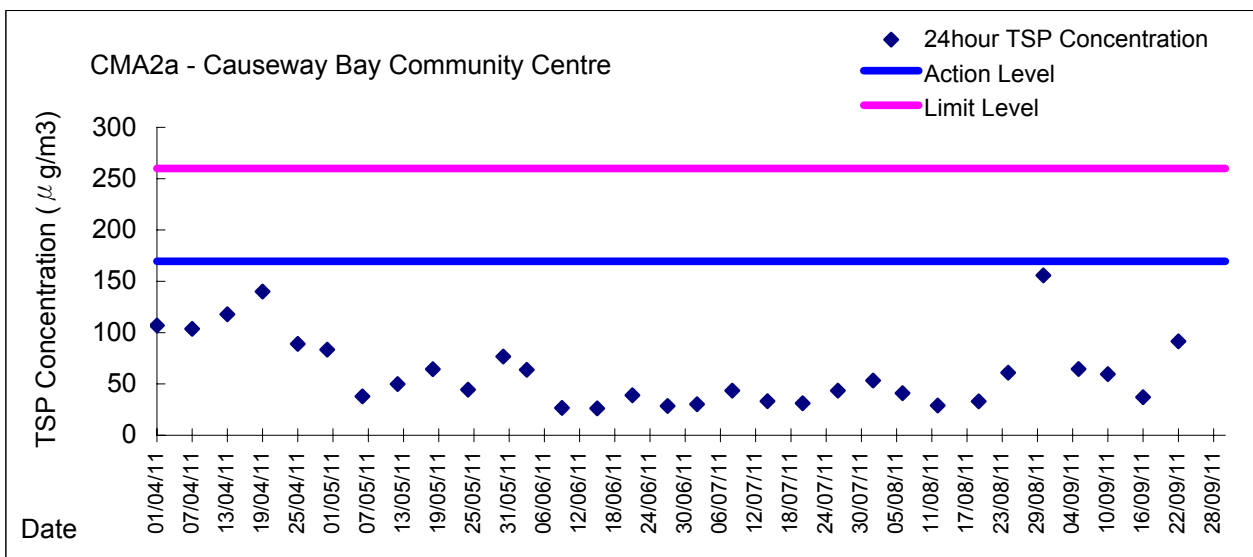
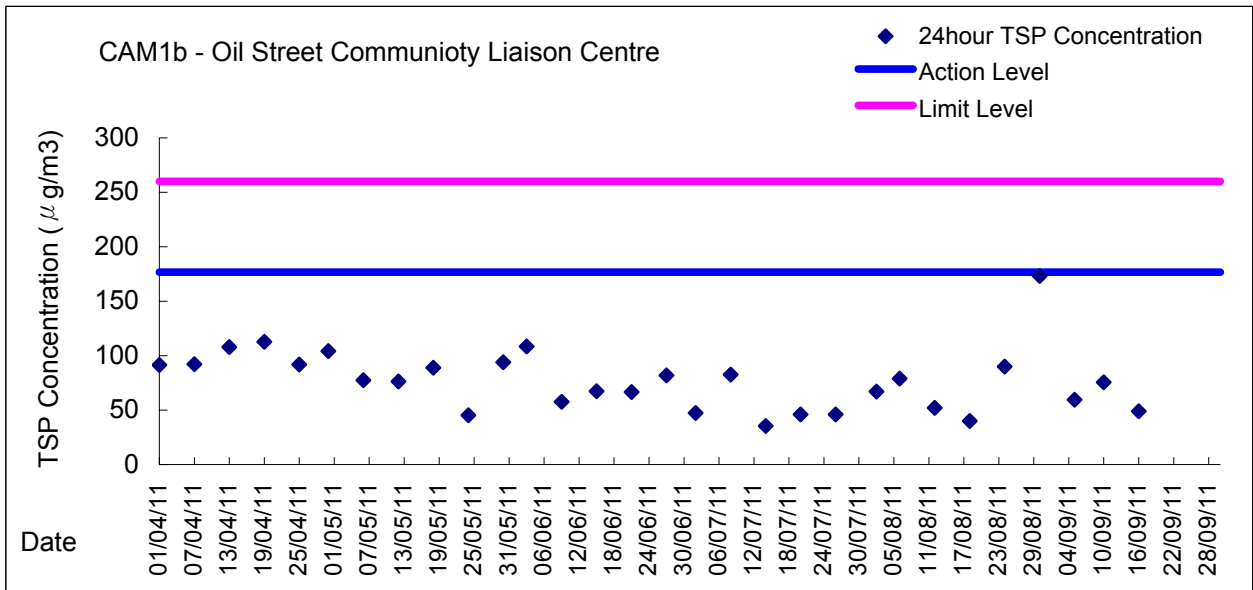




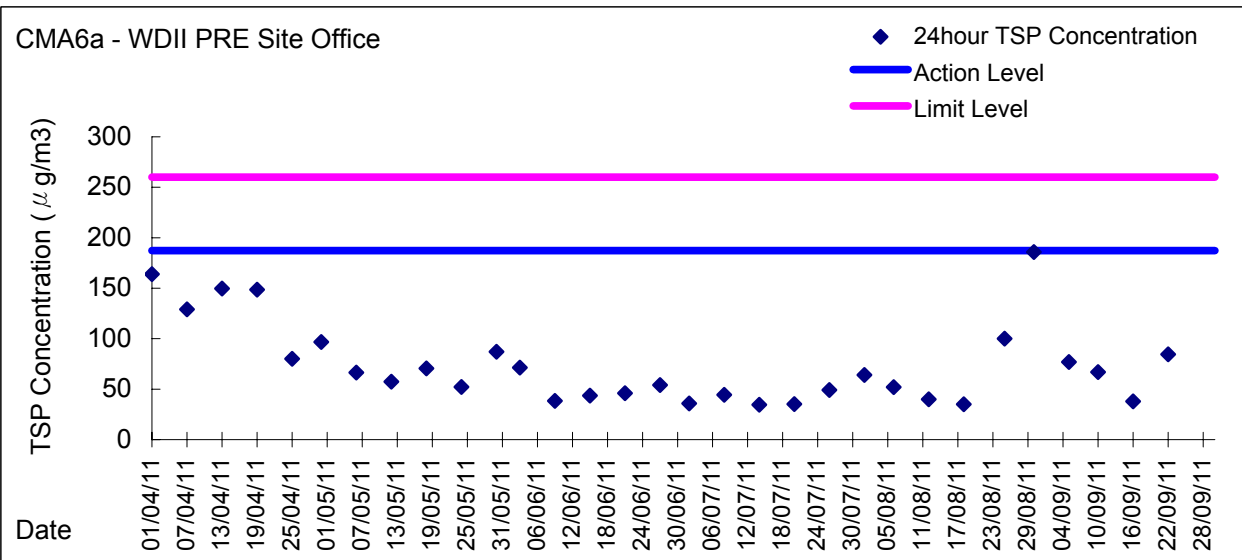
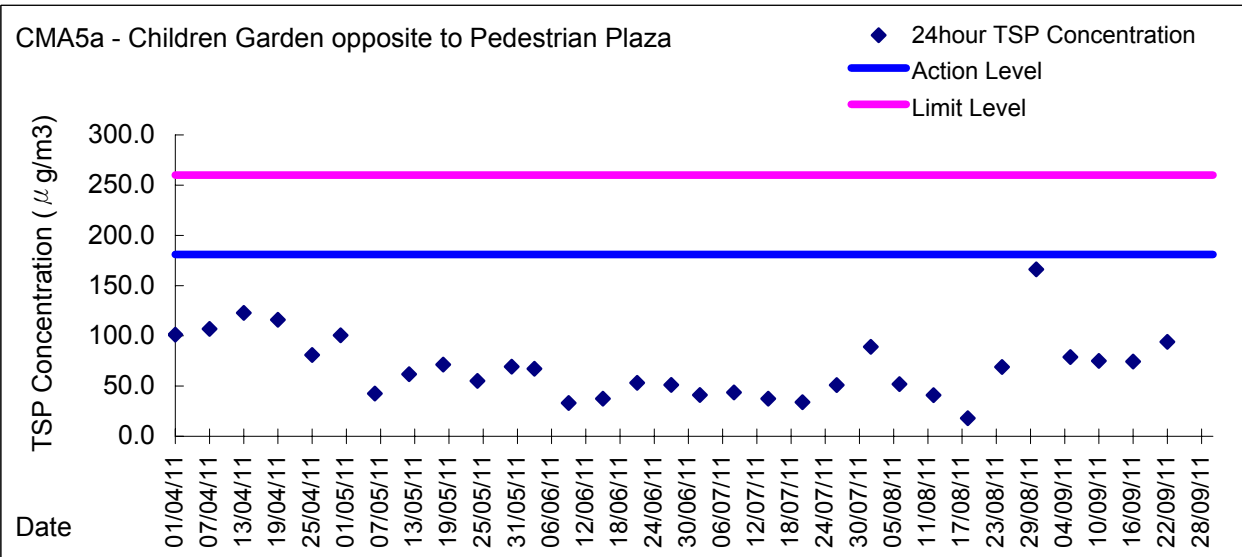
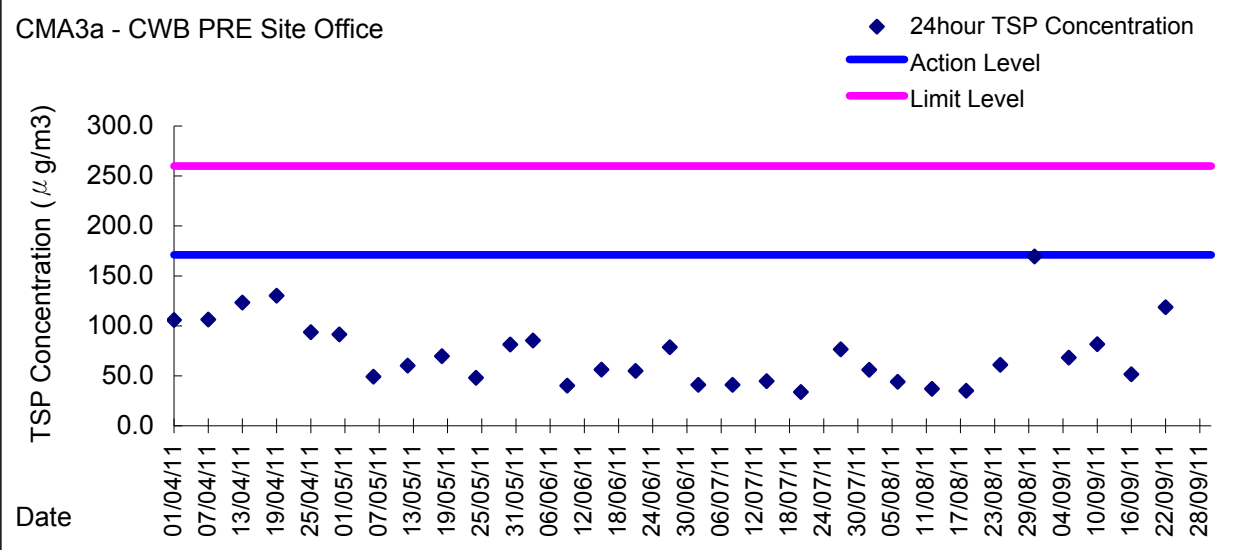
Graphic Presentation of 1 hour TSP Result



**Graphic Presentation of 24 hour TSP Result**



**Graphic Presentation of 24 hour TSP Result**





**Field Data Record Sheet**

Monitoring Date: 7 September 2011 Weather Condition: Fine Tidal Condition: FLOOD  
Temperature: 31°C Relative Humidity: 69%

Location	Time	Temperature (°C)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP1	14:37	35.0	57.2	0~1	Fishy	Sea	Intermittent	1.4	SE	--
OP2	14:32	34.6	57.7	0	--	--	--	2.5	SE	--
OP2a	14:28	34.2	58.4	0	--	--	--	0.1	SE	--
OP3	14:24	33.5	61.3	0	--	--	--	0.2	SE	--
OP4	14:20	32.4	65.0	1	Oil	Sea	Intermittent	2.6	SE	--
OP5	14:15	31.9	65.6	0~1	Rotten egg	Sea	Intermittent	1.0	SE	--
OP6	14:10	31.2	66.1	0	--	--	--	0.2	SE	--
OP7	14:02	29.8	68.5	0	--	--	--	0.4	SE	--

Remarks: 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 characterised 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.

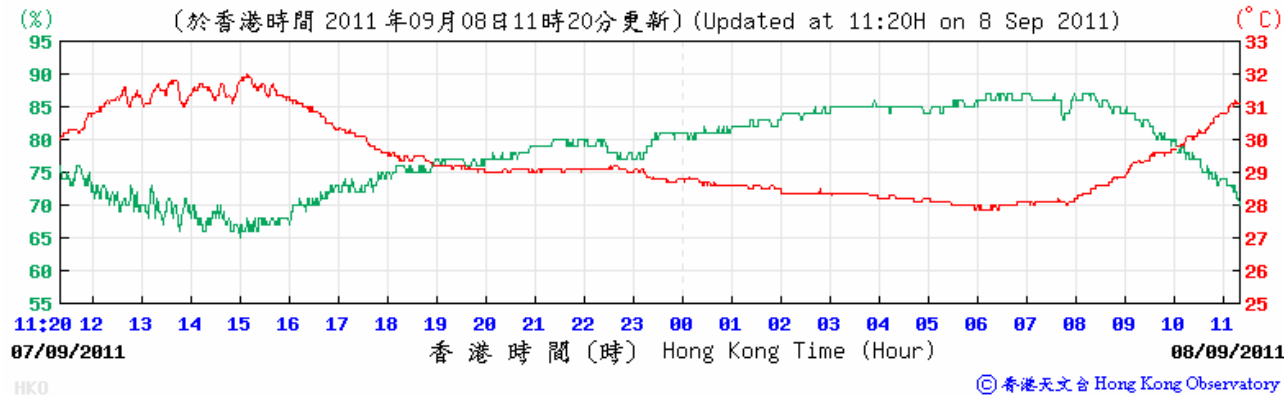


**Meteorological Conditions on 7 September 2011**

• **Hong Kong Observatory Weather Station at Hong Kong Observatory**

Air Temperature: 27.0-32.0°C      Relative humidity: 67-90%

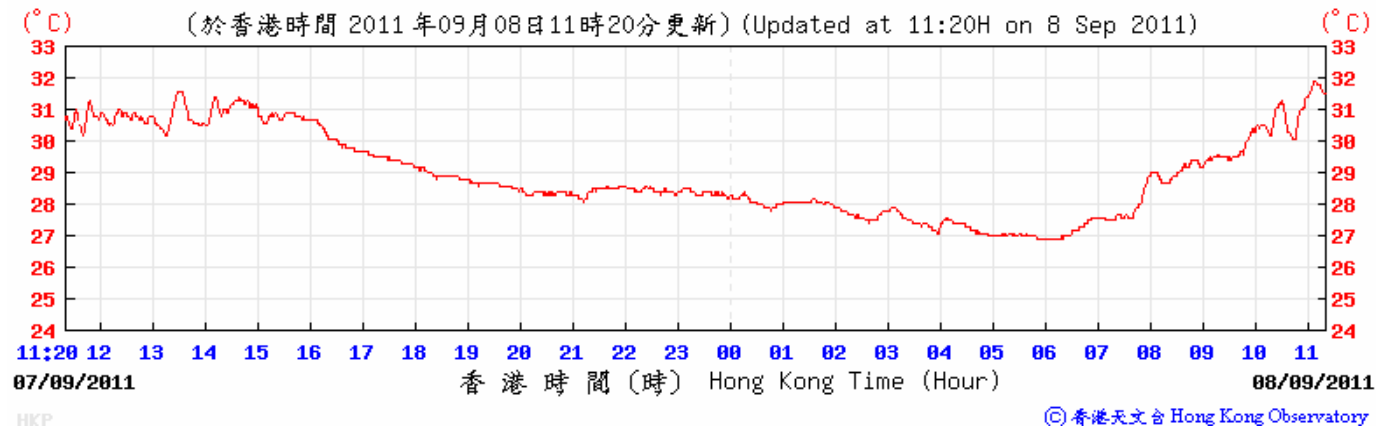
Temperature/Humidity:



• **Hong Kong Observatory Weather Station at Hong Kong Park**

Air Temperature: 26.9-31.6°C

Temperature/Humidity:

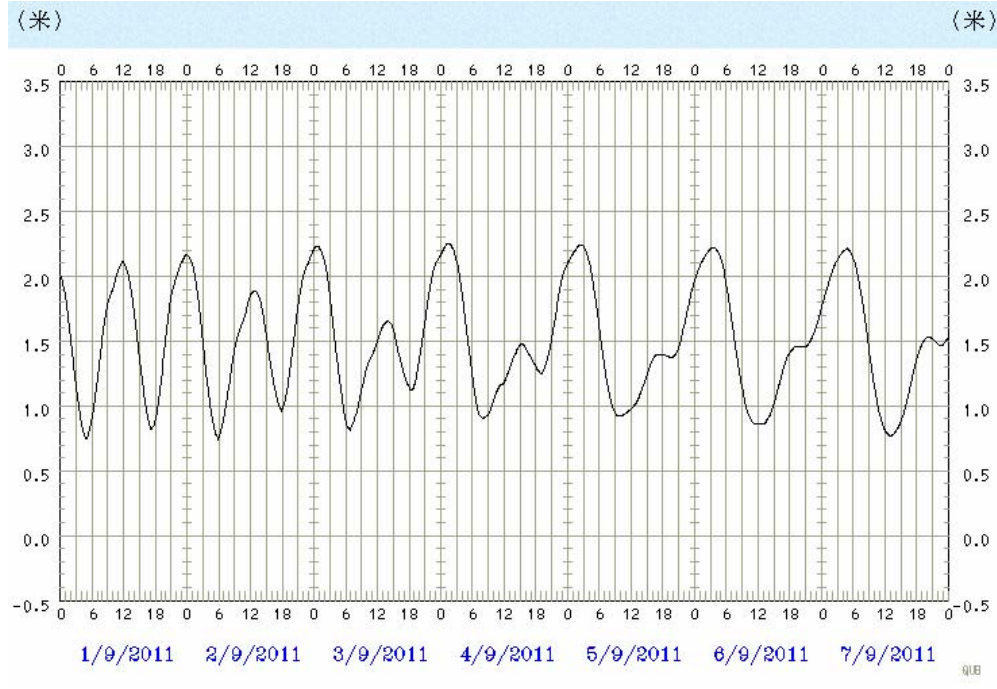






• **The tidal data at Quarry Bay Station**

Date	Tide Time	Tide Height (m)
7 Sep 2011	4:51	2.2
7 Sep 2011	13:03	0.8
7 Sep 2011	20:15	1.5





**Field Data Record Sheet**

Monitoring Date: 20 September 2011 Weather Condition: Cloudy Tidal Condition: FLOOD  
Temperature: 27°C Relative Humidity: 74%

Location	Time	Temperature (°C)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP1	14:45	29.4	62.5	0~1	Fishy	Sea	Intermittent	1.4	N	--
OP2	14:40	30.0	61.1	0	--	--	--	0.3	N	--
OP2a	14:35	29.9	61.7	0	--	--	--	0.3	N	--
OP3	14:30	30.1	61.2	0	--	--	--	0.4	N	--
OP4	14:25	29.0	65.9	1	Oil	Floating debris	Continuous	0.7	N	--
OP5	14:19	29.1	65.7	0~1	Rotten egg	Sea	Intermittent	0.8	N	--
OP6	14:13	27.7	66.1	0~1	Oil	Floating debris	Intermittent	3.9	N	--
OP7	14:04	27.2	69.0	0	--	--	--	3.4	N	--

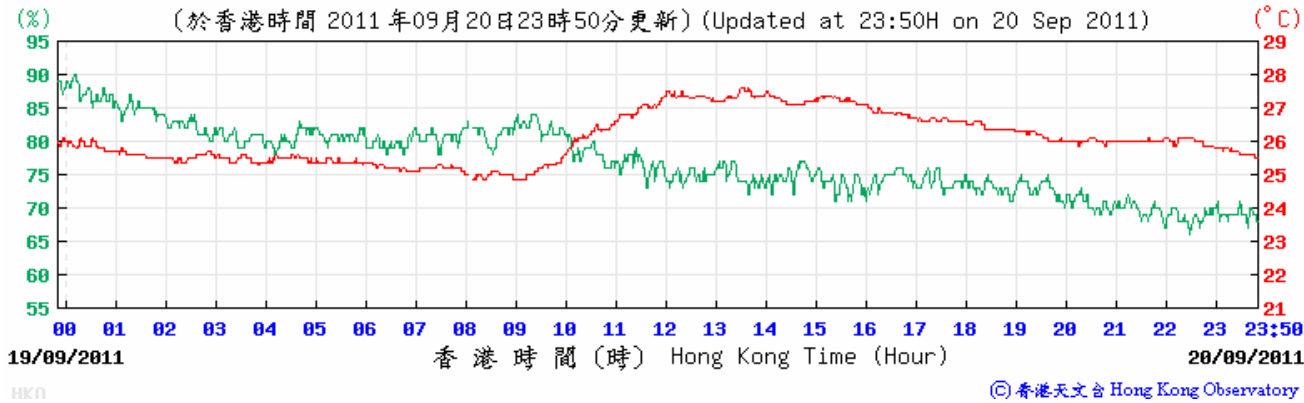
Remarks: The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:  
 0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterised or described;  
 1 - Slight Identifiable odour, and slight chance to have odour 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.



**Meteorological Conditions on 20 September 2011**

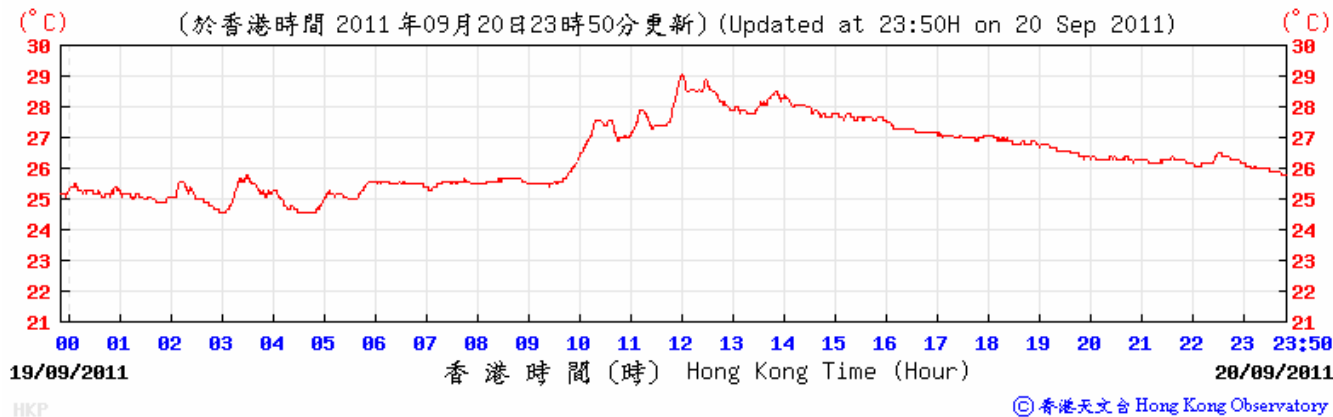
• **Hong Kong Observatory Weather Station at Hong Kong Observatory**

Air Temperature: 24.9-27.6°C      Relative humidity: 68-85%  
Temperature/Humidity:



• **Hong Kong Observatory Weather Station at Hong Kong Park**

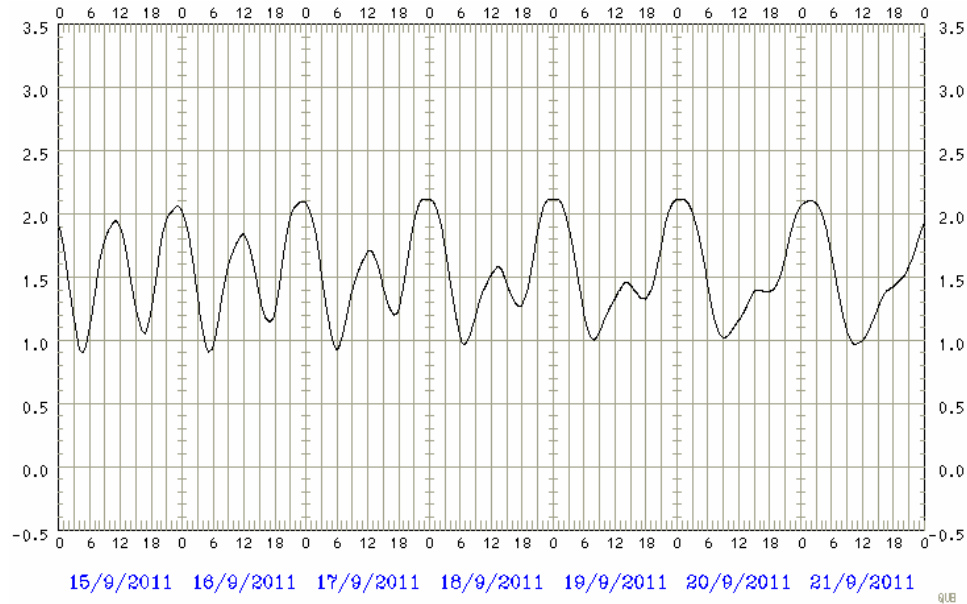
Air Temperature: 24.6-29.1°C  
Temperature/Humidity:





• **The tidal data at Quarry Bay Station**

Date	Tide Time	Tide Height (m)
20 Sep 2011	0:13	2.2
20 Sep 2011	9:45	0.9
21 Sep 2011	2:19	2.1





***Appendix 5.4***

*Water Quality Monitoring Results and Graphical Presentations*



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
29/8/2011	17:58	Cloudy	Middle	2.0	28.94	28.94	28.94	6.91	6.91	6.91	31.86	31.85	31.85	94.2	94.2	94.2	6.08	6.08	6.08	3.94	4.05	3.92	5	5.00
	17:59		Middle	2.0	28.94	28.94		6.91	6.91		31.85	31.85		94.1	94.1		6.07	6.07		4.19	3.48		5	
1/9/2011	18:50	Cloudy	Middle	2.0	26.24	26.25	26.30	7.37	7.37	7.37	32.56	32.57	32.57	85.7	85.5	85.5	5.75	5.73	5.73	7.71	7.47	7.54	6	6.00
	18:51		Middle	2.0	26.34	26.35		7.37	7.37		32.57	32.57		85.4	85.2		5.72	5.71		7.66	7.32		6	
3/9/2011	8:38	Rainy	Middle	2.5	25.60	25.60	25.65	7.97	7.97	7.97	33.14	33.14	33.15	70.3	69.5	70.3	4.76	4.70	4.75	3.62	3.43	3.38	3	4.00
	8:43		Middle	2.5	25.70	25.70		7.96	7.96		33.15	33.15		71.1	70.1		4.81	4.74		3.29	3.16		5	
5/9/2011	13:18	Cloudy	Middle	2.0	27.40	27.40	27.45	7.95	7.95	7.95	33.33	33.33	33.31	73.2	71.7	72.2	4.78	4.68	4.72	2.13	2.59	2.27	3	3.50
	13:23		Middle	2.0	27.50	27.50		7.95	7.95		33.29	33.29		72.5	71.5		4.73	4.67		2.22	2.14		4	
8/9/2011	18:20	Coudy	Middle	2.0	27.19	27.19	27.21	7.35	7.35	7.35	32.53	32.53	32.53	93.3	93.3	93.3	6.17	6.17	6.17	3.92	4.03	3.90	5	6.00
	18:21		Middle	2.0	27.22	27.22		7.35	7.35		32.52	32.52		93.3	93.3		6.17	6.16		4.15	3.49		7	
10/9/2011	17:05	Fine	Middle	2.0	27.73	27.75	27.76	7.16	7.16	7.16	32.35	32.35	32.36	94.6	94.6	94.6	6.21	6.21	6.21	3.86	3.95	3.66	4	4.00
	17:06		Middle	2.0	27.77	27.77		7.16	7.16		32.36	32.36		94.6	94.6		6.21	6.21		3.53	3.30		4	
12/9/2011	17:58	Cloudy	Middle	2.0	28.43	28.43	28.44	7.57	7.57	7.57	32.39	32.39	32.40	93.2	93.1	93.1	6.05	6.04	6.04	4.60	4.42	4.54	7	8.00
	17:59		Middle	2.0	28.44	28.44		7.56	7.56		32.40	32.40		93.0	92.9		6.04	6.03		4.43	4.72		9	
14/9/2011	17:50	Cloudy	Middle	2.0	29.03	29.03	29.03	7.41	7.41	7.41	32.29	32.29	32.29	93.3	93.4	93.3	6.00	6.01	6.00	4.66	4.56	4.68	6	6.50
	17:51		Middle	2.0	29.03	29.03		7.41	7.41		32.29	32.29		93.3	93.3		6.00	6.00		4.82	4.66		7	
16/9/2011	18:40	Cloudy	Middle	2.0	28.86	28.86	28.86	7.67	7.67	7.67	31.91	31.91	31.91	79.8	79.7	79.6	5.16	5.15	5.14	4.39	4.07	4.36	5	6.00
	18:41		Middle	2.0	28.86	28.86		7.67	7.67		31.91	31.91		79.5	79.4		5.13	5.13		4.39	4.60		7	
19/9/2011	9:38	Fine	Middle	2.5	28.30	28.30	28.25	8.13	8.13	8.15	32.83	32.83	32.83	84.7	84.0	84.1	5.50	5.45	5.46	6.83	7.00	6.76	10	10.50
	9:41		Middle	2.5	28.20	28.20		8.16	8.16		32.82	32.82		84.4	83.3		5.48	5.41		6.51	6.68		11	
21/9/2011	16:58	Cloudy	Middle	2.0	28.46	28.46	28.46	7.55	7.55	7.55	32.58	32.58	32.58	75.2	75.2	75.3	4.87	4.88	4.88	7.01	6.53	6.68	9	9.00
	16:59		Middle	2.0	28.46	28.46		7.55	7.55		32.58	32.58		75.3	75.3		4.88	4.88		6.37	6.82		9	
24/9/2011	15:07	Cloudy	Middle	2.5	27.90	27.90	27.95	8.14	8.14	8.15	32.50	32.50	32.55	97.3	96.5	93.5	7.61	7.50	7.29	5.99	5.37	5.32	7	7.50
	15:10		Middle	2.5	28.00	28.00		8.15	8.15		32.60	32.60		90.5	89.5		7.06	7.00		5.06	4.84		8	
26/9/2011	16:15	Fine	Middle	2.5	27.99	27.97	27.94	7.21	7.21	7.22	32.57	32.57	32.58	77.0	77.0	77.0	5.03	5.03	5.03	7.92	7.98	7.68	11	11.50
	16:16		Middle	2.5	27.90	27.90		7.23	7.23		32.58	32.58		76.9	76.9		5.03	5.03		7.51	7.32		12	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
					Value	Value	Average	Value	Value	Average	Value	Value	Average	Value	Value	Average	Value	Value	Average	Value	Value	Average	Value	Value
29/8/2011	16:30	Cloudy	Middle	2.0	28.22	28.29	28.42	6.71	6.71	6.71	31.64	31.64	31.68	83.2	83.0	82.7	5.43	5.43	5.40	4.17	4.03	4.06	7	6.50
	16:31		Middle	2.0	28.59	28.59		6.71	6.71		31.71	31.71		82.6	82.1		5.37	5.36		4.07	3.96		6	
1/9/2011	17:45	Cloudy	Middle	2.0	26.55	26.56	26.56	7.37	7.37	7.37	32.25	32.26	32.26	83.1	82.6	82.6	5.56	5.53	5.53	9.75	9.16	9.52	15	15.00
	17:46		Middle	2.0	26.57	26.57		7.37	7.37		32.26	32.25		82.4	82.2		5.51	5.50		9.69	9.46		15	
3/9/2011	9:17	Rainy	Middle	2.5	25.50	25.50	25.55	8.01	8.01	8.01	33.39	33.39	33.39	66.2	67.3	67.3	4.47	4.54	4.55	4.90	4.57	4.77	8	7.00
	9:21		Middle	2.5	25.60	25.60		8.00	8.00		33.38	33.38		68.3	67.5		4.62	4.56		4.88	4.74		6	
5/9/2011	13:48	Cloudy	Middle	2.0	26.70	26.70	27.00	8.03	8.03	8.03	33.76	33.76	33.70	83.1	82.1	83.5	5.46	5.39	5.48	6.03	6.21	6.20	9	8.00
	13:51		Middle	2.0	27.30	27.30		8.02	8.02		33.64	33.64		84.9	83.9		5.57	5.50		6.44	6.11		7	
8/9/2011	16:20	Coudy	Middle	2.0	28.88	28.88	28.88	7.27	7.27	7.27	32.05	32.05	32.05	82.7	82.7	82.5	5.34	5.34	5.33	3.45	3.13	3.16	6	5.50
	16:21		Middle	2.0	28.88	28.88		7.26	7.26		32.05	32.05		82.3	82.2		5.32	5.31		3.04	3.02		5	
10/9/2011	15:25	Fine	Middle	2.0	28.65	28.47	28.52	7.42	7.42	7.42	32.15	32.15	32.15	78.6	78.5	78.5	5.10	5.10	5.10	3.61	3.78	3.71	4	3.50
	15:26		Middle	2.0	28.47	28.47		7.42	7.42		32.14	32.14		78.5	78.4		5.09	5.09		3.83	3.63		3	
12/9/2011	16:30	Cloudy	Middle	2.0	29.14	29.14	29.17	7.39	7.39	7.40	30.70	30.70	30.70	65.1	65.0	65.0	4.21	4.21	4.21	6.16	5.46	5.90	10	10.50
	16:31		Middle	2.0	29.20	29.20		7.40	7.40		30.70	30.70		65.0	65.0		4.21	4.21		6.20	5.77		11	
14/9/2011	16:45	Cloudy	Middle	2.0	29.68	29.68	29.65	7.42	7.42	7.43	31.00	31.00	31.03	72.0	72.0	72.0	4.61	4.61	4.61	4.12	4.31	4.26	6	6.50
	16:46		Middle	2.0	29.62	29.62		7.43	7.43		31.06	31.06		72.0	71.8		4.61	4.60		4.42	4.18		7	
16/9/2011	17:30	Cloudy	Middle	2.0	29.74	29.74	29.74	7.69	7.69	7.69	31.25	31.25	31.25	59.1	59.2	59.3	3.78	3.79	3.79	6.78	7.45	7.08	10	14.50
	17:31		Middle	2.0	29.74	29.74		7.69	7.69		31.25	31.25		59.3	59.4		3.79	3.79		6.75	7.32		19	
19/9/2011	10:12	Fine	Middle	2.5	28.80	28.80	28.90	8.20	8.20	8.21	32.68	32.68	32.68	84.5	83.5	84.3	5.42	5.36	5.40	7.41	7.42	7.48	8	8.00
	10:15		Middle	2.5	29.00	29.00		8.21	8.21		32.68	32.68		85.2	83.9		5.46	5.37		7.44	7.63		8	
21/9/2011	15:40	Cloudy	Middle	2.0	29.22	29.22	29.21	7.56	7.56	7.56	31.07	31.07	31.07	72.0	72.0	72.1	4.65	4.65	4.66	5.46	5.76	5.48	8	7.50
	15:41		Middle	2.0	29.19	29.19		7.56	7.56		31.07	31.07		72.1	72.1		4.66	4.66		5.34	5.34		7	
24/9/2011	15:37	Cloudy	Middle	2.5	28.10	28.10	28.05	8.20	8.20	8.20	32.70	32.70	32.70	94.9	94.7	94.7	6.16	6.15	6.15	7.02	6.40	6.41	9	8.00
	15:39		Middle	2.5	28.00	28.00		8.19	8.19		32.70	32.70		94.5	94.6		6.15	6.15		6.19	6.04		7	
26/9/2011	14:50	Fine	Middle	2.0	28.92	28.92	28.95	7.20	7.20	7.20	31.38	31.38	31.39	70.7	70.7	70.7	4.60	4.60	4.60	6.18	6.51	6.36	10	10.00
	14:51		Middle	2.0	28.97	28.97		7.20	7.20		31.39	31.39		70.7	70.7		4.60	4.60		6.14	6.62		10	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/8/2011	21:31	Cloudy	Middle	2.5	26.78	26.78	26.78	7.48	7.48	7.48	32.82	32.82	32.82	90.6	90.5	90.3	6.01	6.00	5.99	2.14	2.05	2.06	2	2.50
	21:32		Middle	2.5	26.78	26.78		7.48	7.48		32.82	32.82		90.1	90.0		5.98	5.98		2.15	1.90		3	
1/9/2011	23:18	Cloudy	Middle	2.5	26.09	26.09	26.09	7.38	7.38	7.38	33.02	33.02	33.01	87.3	87.2	87.2	5.88	5.87	5.87	3.27	3.27	3.19	10	9.00
	23:19		Middle	2.5	26.09	26.09		7.38	7.38		33.00	32.98		87.1	87.1		5.87	5.87		2.97	3.25		8	
3/9/2011	9:44	Rainy	Middle	2.5	25.90	25.90	25.95	7.96	7.96	7.97	33.09	33.09	33.09	58.2	57.6	58.6	3.92	3.87	3.94	2.53	2.34	2.45	8	8.00
	9:48		Middle	2.5	26.00	26.00		7.97	7.97		33.08	33.08		58.4	60.1		3.93	4.05		2.34	2.59		8	
5/9/2011	14:18	Cloudy	Middle	2.5	28.30	28.30	28.35	8.00	8.00	8.01	33.54	33.54	33.53	68.7	67.5	68.3	4.40	4.33	4.37	1.43	1.38	1.46	6	5.00
	14:21		Middle	2.5	28.40	28.40		8.01	8.01		33.53	33.53		69.1	67.7		4.41	4.34		1.75	1.29		4	
8/9/2011	17:20	Coudy	Middle	3.0	27.60	27.60	27.65	8.18	8.18	8.19	33.45	33.45	33.47	90.6	88.7	89.9	5.91	5.79	5.87	4.45	4.03	4.01	4	4.50
	17:23		Middle	3.0	27.70	27.70		8.19	8.19		33.49	33.49		91.1	89.3		5.95	5.83		3.74	3.81		5	
10/9/2011	20:10	Fine	Middle	2.5	27.78	27.78	27.78	7.71	7.71	7.71	32.95	32.95	32.95	94.1	94.0	93.9	6.15	6.14	6.14	2.79	2.62	2.70	7	6.50
	20:11		Middle	2.5	27.78	27.78		7.71	7.71		32.95	32.95		93.9	93.7		6.14	6.13		2.75	2.62		6	
12/9/2011	21:32	Cloudy	Middle	2.5	28.29	28.29	28.29	7.83	7.83	7.83	32.61	32.61	32.61	75.8	75.8	75.8	4.92	4.92	4.92	2.63	2.78	2.68	7	7.00
	21:33		Middle	2.5	28.29	28.29		7.83	7.83		32.60	32.60		75.7	75.7		4.92	4.92		2.65	2.64		7	
14/9/2011	20:59	Cloudy	Middle	2.5	28.76	28.76	28.76	7.69	7.69	7.69	32.39	32.39	32.39	85.3	85.2	85.2	5.50	5.50	5.50	5.27	4.98	5.30	7	6.00
	21:00		Middle	2.5	28.76	28.76		7.69	7.69		32.39	32.39		85.1	85.1		5.49	5.49		5.59	5.37		5	
16/9/2011	21:50	Cloudy	Middle	2.5	28.84	28.84	28.84	7.85	7.85	7.85	32.34	32.34	32.34	73.9	73.9	73.9	4.77	4.76	4.76	4.65	4.28	4.42	10	9.00
	21:51		Middle	2.5	28.84	28.84		7.85	7.85		32.34	32.34		73.8	73.8		4.76	4.76		4.36	4.40		8	
19/9/2011	10:46	Fine	Middle	2.5	28.70	28.70	28.70	8.25	8.25	8.25	33.02	33.02	33.07	89.4	88.2	88.6	5.75	5.68	5.70	5.67	5.14	5.26	9	8.00
	10:49		Middle	2.5	28.70	28.70		8.25	8.25		33.11	33.11		89.1	87.6		5.73	5.64		5.11	5.12		7	
21/9/2011	19:32	Cloudy	Middle	2.5	28.32	28.32	28.32	7.77	7.77	7.77	31.53	31.53	31.52	75.8	76.1	76.1	4.95	4.99	4.98	3.40	3.00	3.15	4	4.00
	19:33		Middle	2.5	28.32	28.32		7.77	7.77		31.53	31.47		76.1	76.2		4.99	4.99		3.11	3.09		4	
24/9/2011	16:25	Cloudy	Middle	2.0	27.40	27.40	27.35	8.34	8.34	8.33	33.61	33.61	33.62	90.9	90.4	90.5	5.97	5.94	5.94	5.85	5.90	5.51	7	7.50
	16:28		Middle	2.0	27.30	27.30		8.32	8.32		33.62	33.62		92.0	88.6		6.04	5.82		5.29	5.00		8	
26/9/2011	19:45	Fine	Middle	2.5	27.52	27.52	27.52	7.78	7.78	7.79	33.09	33.09	33.09	76.1	76.0	75.9	4.99	4.99	4.98	5.28	5.38	5.28	9	10.00
	19:46		Middle	2.5	27.52	27.52		7.79	7.79		33.09	33.09		75.9	75.7		4.98	4.97		5.17	5.27		11	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.





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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		Turbidity			Suspended Solids		
					°C			-			ppt			%			mg/L		NTU			mg/L		
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
29/8/2011	21:10	Cloudy	Middle	2.5	26.40	26.40	26.40	7.36	7.36	7.36	32.80	32.80	32.81	96.6	96.7	96.7	6.47	6.47	6.47	2.42	2.47	2.44	4	3.50
	21:11		Middle	2.5	26.40	26.40		7.36	7.36		32.81	32.81		96.7	96.7		6.47	6.47		2.54	2.34		3	
1/9/2011	22:49	Cloudy	Middle	2.5	26.53	26.53	26.54	7.31	7.31	7.31	33.38	33.38	33.38	78.2	78.2	78.1	5.28	5.27	5.27	4.27	3.92	4.17	6	7.00
	22:50		Middle	2.5	26.55	26.53		7.31	7.31		33.37	33.37		78.0	77.9		5.27	5.26		4.55	3.92		8	
3/9/2011	10:00	Rainy	Middle	2.5	25.60	25.60	25.75	8.01	8.01	8.00	33.36	33.36	33.33	58.3	55.7	57.6	3.93	3.78	3.89	3.92	4.01	4.01	8	7.00
	10:04		Middle	2.5	25.90	25.90		7.99	7.99		33.30	33.30		58.8	57.6		3.96	3.88		4.16	3.94		6	
5/9/2011	14:43	Cloudy	Middle	2.0	27.50	27.50	27.55	7.98	7.98	7.98	33.25	33.25	33.22	68.3	67.0	68.2	4.47	4.38	4.46	3.46	3.61	3.39	4	4.00
	14:46		Middle	2.0	27.60	27.60		7.97	7.97		33.19	33.19		70.8	66.7		4.62	4.36		3.36	3.13		4	
8/9/2011	17:43	Coudy	Middle	3.0	27.20	27.20	27.25	8.20	8.20	8.20	33.49	33.49	33.52	90.0	87.6	89.3	5.91	5.76	5.87	2.92	2.88	3.06	4	4.50
	17:46		Middle	3.0	27.30	27.30		8.20	8.20		33.54	33.54		90.4	89.2		5.93	5.86		3.10	3.35		5	
10/9/2011	19:49	Fine	Middle	2.5	27.80	27.80	27.81	7.60	7.60	7.60	32.86	32.86	32.87	93.9	93.8	93.8	6.14	6.13	6.13	3.74	4.33	4.04	5	4.50
	19:50		Middle	2.5	27.82	27.83		7.60	7.60		32.87	32.87		93.8	93.7		6.13	6.13		4.21	3.87		4	
12/9/2011	21:12	Cloudy	Middle	2.5	28.34	28.34	28.37	7.72	7.72	7.72	32.53	32.53	32.53	90.1	90.0	90.0	5.84	5.83	5.83	4.67	4.89	4.69	7	8.00
	21:13		Middle	2.5	28.40	28.40		7.72	7.72		32.52	32.52		90.0	89.8		5.82	5.82		4.52	4.68		9	
14/9/2011	20:39	Cloudy	Middle	2.5	28.66	28.66	28.67	7.87	7.87	7.85	32.32	32.32	32.32	88.2	88.1	88.0	5.71	5.70	5.70	5.25	5.37	5.32	9	10.00
	20:40		Middle	2.5	28.67	28.67		7.82	7.83		32.32	32.32		88.0	87.8		5.70	5.68		5.22	5.42		11	
16/9/2011	21:30	Cloudy	Middle	2.5	28.81	28.81	28.81	7.79	7.79	7.79	32.30	32.30	32.30	79.8	79.8	79.9	5.15	5.15	5.15	7.90	6.93	7.29	12	12.00
	21:31		Middle	2.5	28.81	28.81		7.79	7.79		32.30	32.30		79.9	79.9		5.15	5.15		7.46	6.88		12	
19/9/2011	11:13	Fine	Middle	2.5	28.70	28.70	28.75	8.20	8.20	8.20	33.01	33.01	32.99	81.8	80.3	80.9	5.26	5.16	5.20	9.84	9.41	9.71	15	16.00
	11:17		Middle	2.5	28.80	28.80		8.20	8.20		32.96	32.96		80.4	80.9		5.17	5.20		9.93	9.67		17	
21/9/2011	19:05	Cloudy	Middle	2.5	28.18	28.18	28.18	7.68	7.68	7.68	31.24	31.24	31.24	66.4	66.4	66.4	4.36	4.36	4.36	6.24	6.16	6.13	4	5.00
	19:06		Middle	2.5	28.18	28.18		7.68	7.68		31.24	31.24		66.4	66.5		4.36	4.36		5.97	6.13		6	
24/9/2011	16:45	Cloudy	Middle	2.0	27.40	27.40	27.35	8.28	8.28	8.28	33.49	33.49	33.50	85.0	84.5	85.1	5.58	5.54	5.59	9.17	9.76	9.53	16	15.00
	16:48		Middle	2.0	27.30	27.30		8.27	8.27		33.50	33.50		84.7	86.0		5.57	5.65		9.97	9.23		14	
26/9/2011	19:20	Fine	Middle	2.5	27.60	27.62	27.63	7.76	7.76	7.76	33.04	33.04	33.04	77.6	77.6	77.6	5.08	5.08	5.08	6.41	6.19	6.14	13	12.00
	19:21		Middle	2.5	27.65	27.66		7.76	7.76		33.04	33.04		77.6	77.6		5.08	5.08		5.75	6.21		11	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at C9 - Provident Centre  
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
29/8/2011	20:46	Cloudy	Middle	2.0	26.11	26.11	26.11	7.25	7.25	7.25	32.66	32.66	32.66	83.1	83.2	83.2	5.60	5.61	5.61	3.55	3.61	3.63	6	6.00
	20:47		Middle	2.0	26.11	26.11		7.25	7.25		32.66	32.66		83.3	83.2		5.62	5.61		3.82	3.54		6	
1/9/2011	22:15	Cloudy	Middle	2.0	26.05	26.05	26.05	7.36	7.36	7.36	33.08	33.08	33.08	79.6	79.6	79.6	5.36	5.36	5.36	4.17	4.24	4.18	10	9.50
	22:16		Middle	2.0	26.05	26.05		7.36	7.36		33.08	33.08		79.6	79.5		5.36	5.36		4.13	4.19		9	
3/9/2011	11:33	Rainy	Middle	2.0	25.90	25.90	25.95	7.96	7.96	7.96	33.23	33.23	33.24	62.9	61.3	63.1	4.22	4.11	4.23	5.62	6.02	5.95	10	9.00
	11:35		Middle	2.0	26.00	26.00		7.95	7.95		33.24	33.24		63.4	64.6		4.25	4.33		6.14	6.01		8	
5/9/2011	11:15	Cloudy	Middle	1.5	26.90	26.90	26.85	7.90	7.90	7.91	32.79	32.79	32.80	61.6	61.8	61.5	4.08	4.09	4.07	5.00	5.55	5.05	6	7.00
	11:17		Middle	1.5	26.80	26.80		7.91	7.91		32.80	32.80		61.5	61.2		4.07	4.05		4.93	4.73		8	
8/9/2011	16:55	Coudy	Middle	1.5	27.50	27.50	27.55	8.00	8.00	7.99	33.00	33.00	33.00	68.2	67.6	67.9	4.47	4.43	4.45	5.72	5.69	5.57	6	6.00
	16:57		Middle	1.5	27.60	27.60		7.98	7.98		32.99	32.99		68.4	67.2		4.48	4.40		5.82	5.03		6	
10/9/2011	19:34	Fine	Middle	1.5	27.66	27.66	27.67	7.27	7.27	7.27	32.44	32.44	32.44	82.8	82.8	82.6	5.44	5.43	5.42	4.93	4.97	4.95	9	8.50
	19:35		Middle	1.5	27.67	27.67		7.27	7.27		32.44	32.44		82.4	82.2		5.41	5.40		5.09	4.80		8	
12/9/2011	20:54	Cloudy	Middle	1.5	28.68	28.68	28.68	7.60	7.60	7.60	32.40	32.40	32.40	66.9	66.8	66.8	4.33	4.32	4.32	4.54	4.13	4.38	7	7.00
	20:55		Middle	1.5	28.67	28.67		7.60	7.60		32.40	32.40		66.7	66.7		4.31	4.31		4.50	4.33		7	
14/9/2011	16:25	Cloudy	Middle	2.0	28.70	28.70	28.65	8.08	8.08	8.08	32.85	32.85	32.86	53.1	51.7	52.1	3.42	3.33	3.36	8.44	8.53	8.18	10	9.50
	16:28		Middle	2.0	28.60	28.60		8.07	8.07		32.86	32.86		51.5	52.0		3.32	3.35		8.11	7.62		9	
16/9/2011	17:00	Cloudy	Middle	2.0	29.10	29.10	29.10	8.11	8.11	8.11	32.63	32.63	32.63	48.8	49.1	49.0	3.13	3.15	3.14	8.88	9.13	8.94	8	9.00
	17:02		Middle	2.0	29.10	29.10		8.11	8.11		32.63	32.63		49.0	49.2		3.14	3.15		8.84	8.91		10	
19/9/2011	8:15	Fine	Middle	2.0	28.46	28.46	28.46	7.68	7.68	7.68	32.08	32.08	32.08	69.9	69.9	69.9	4.54	4.54	4.54	4.29	4.34	4.38	6	5.50
	8:16		Middle	2.0	28.46	28.46		7.68	7.68		32.08	32.08		69.9	69.9		4.54	4.54		4.46	4.41		5	
21/9/2011	18:11	Cloudy	Middle	1.5	28.22	28.22	28.22	7.66	7.66	7.66	32.55	32.55	32.55	70.8	70.8	70.8	4.61	4.60	4.60	7.09	7.17	7.19	10	10.00
	18:12		Middle	1.5	28.22	28.22		7.66	7.66		32.55	32.55		70.7	70.7		4.60	4.60		7.13	7.36		10	
24/9/2011	16:01	Cloudy	Middle	2.5	27.80	27.80	27.80	8.04	8.04	8.04	32.30	32.30	32.30	75.3	75.0	74.8	4.93	4.90	4.89	9.98	10.90	10.08	12	12.50
	16:04		Middle	2.5	27.80	27.80		8.04	8.04		32.30	32.30		74.6	74.4		4.88	4.86		9.69	9.76		13	
26/9/2011	18:52	Fine	Middle	1.5	27.90	27.91	27.90	7.73	7.73	7.73	32.64	32.64	32.65	77.6	77.6	77.6	5.08	5.08	5.08	8.60	9.27	9.00	14	13.50
	18:53		Middle	1.5	27.89	27.89		7.73	7.73		32.65	32.65		77.6	77.6		5.08	5.08		9.02	9.09		13	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
29/8/2011	20:25	Cloudy	Middle	2.0	26.48	26.48	26.48	7.26	7.26	7.26	32.37	32.37	32.37	71.1	71.3	71.1	4.77	4.78	4.62	4.71	4.88	4.73	8	7.50
	20:26		Middle	2.0	26.48	26.48		7.26	7.26		32.37	32.37		71.1	71.0		4.77	4.16		4.64	4.67		7	
1/9/2011	22:00	Cloudy	Middle	2.0	26.07	26.07	26.07	7.37	7.37	7.37	33.10	33.09	33.09	78.9	78.7	78.6	5.32	5.31	5.30	6.03	6.36	6.09	10	11.00
	22:01		Middle	2.0	26.07	26.07		7.37	7.37		33.09	33.09		78.5	78.3		5.29	5.28		6.05	5.91		12	
3/9/2011	11:19	Rainy	Middle	2.0	26.00	26.00	26.10	7.94	7.94	7.96	33.05	33.05	33.03	61.2	62.0	62.0	4.11	4.16	4.16	6.54	6.64	6.39	10	9.50
	11:21		Middle	2.0	26.20	26.20		7.98	7.98		33.00	33.00		61.5	63.4		4.13	4.25		6.33	6.05		9	
5/9/2011	11:00	Cloudy	Middle	1.5	26.60	26.60	26.65	7.92	7.92	7.92	32.85	32.85	32.82	63.7	63.1	64.3	4.24	4.19	4.27	6.07	5.79	5.98	7	7.00
	11:03		Middle	1.5	26.70	26.70		7.92	7.92		32.78	32.78		65.9	64.6		4.37	4.28		6.07	5.98		7	
8/9/2011	16:14	Coudy	Middle	1.5	27.20	27.20	27.30	7.94	7.94	7.94	32.72	32.72	32.67	57.7	56.3	58.2	3.81	3.71	3.84	8.03	8.65	8.17	12	11.00
	16:16		Middle	1.5	27.40	27.40		7.93	7.93		32.61	32.61		60.8	58.1		4.00	3.83		8.11	7.87		10	
10/9/2011	19:17	Fine	Middle	1.5	27.74	27.78	27.78	7.30	7.30	7.30	32.37	32.37	32.37	68.3	67.6	67.5	4.48	4.43	4.43	5.95	5.83	5.59	7	7.50
	19:18		Middle	1.5	27.79	27.79		7.30	7.30		32.37	32.37		67.2	66.9		4.42	4.39		5.33	5.26		8	
12/9/2011	20:37	Cloudy	Middle	1.5	28.09	28.09	28.09	7.52	7.52	7.52	32.31	32.31	32.31	71.8	71.4	71.4	4.69	4.66	4.66	5.02	4.96	4.97	8	7.50
	20:38		Middle	1.5	28.09	28.09		7.52	7.52		32.31	32.31		71.3	71.1		4.65	4.64		5.17	4.74		7	
14/9/2011	20:23	Cloudy	Middle	1.5	28.57	28.58	28.58	7.46	7.46	7.46	32.27	32.27	32.27	77.2	76.8	76.5	5.01	4.98	4.96	5.31	5.28	5.32	10	9.50
	20:24		Middle	1.5	28.59	28.59		7.46	7.46		32.27	32.27		76.2	75.8		4.94	4.91		5.29	5.41		9	
16/9/2011	21:05	Cloudy	Middle	1.5	28.77	28.77	28.77	7.63	7.63	7.63	32.02	32.02	32.02	70.6	70.6	70.6	4.57	4.56	4.56	6.57	6.11	6.13	11	10.50
	21:06		Middle	1.5	28.77	28.77		7.63	7.63		32.02	32.02		70.6	70.6		4.56	4.56		5.97	5.87		10	
19/9/2011	12:35	Fine	Middle	2.0	28.80	28.80	28.80	8.03	8.03	8.03	32.29	32.29	32.29	64.7	63.9	64.5	4.18	4.13	4.17	8.48	8.61	8.60	16	15.00
	12:37		Middle	2.0	28.80	28.80		8.03	8.03		32.29	32.29		65.0	64.3		4.20	4.15		8.39	8.93		14	
21/9/2011	18:42	Cloudy	Middle	1.5	28.17	28.17	28.17	7.66	7.67	7.66	32.45	32.45	32.45	65.5	65.4	65.3	4.27	4.26	4.25	6.99	6.87	7.22	8	7.00
	18:43		Middle	1.5	28.17	28.17		7.66	7.66		32.45	32.45		65.3	65.0		4.25	4.23		7.36	7.65		6	
24/9/2011	14:22	Cloudy	Middle	1.5	27.80	27.80	27.85	8.18	8.18	8.18	33.02	33.02	33.04	67.2	68.3	67.1	4.38	4.46	4.38	9.09	9.61	9.40	12	12.00
	14:24		Middle	1.5	27.90	27.90		8.18	8.18		33.05	33.05		67.5	65.5		4.40	4.27		9.70	9.20		12	
26/9/2011	18:35	Fine	Middle	1.5	27.89	27.90	27.91	7.61	7.61	7.61	32.65	32.65	32.65	68.7	68.7	68.7	4.48	4.49	4.48	9.76	9.52	9.21	14	15.00
	18:36		Middle	1.5	27.92	27.92		7.61	7.61		32.65	32.65		68.6	68.6		4.48	4.48		8.68	8.89		16	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
29/8/2011	20:06	Cloudy	Middle	1.5	26.81	26.81	26.81	7.15	7.15	7.15	31.52	31.52	31.52	82.2	82.2	82.2	5.50	5.50	5.50	4.29	4.32	4.19	7	6.50
	20:07		Middle	1.5	26.81	26.81		7.15	7.15		31.52	31.52		82.1	82.1		5.50	5.50		4.16	3.98		6	
1/9/2011	21:25	Cloudy	Middle	1.5	26.55	26.55	26.56	7.31	7.31	7.31	32.11	32.11	32.11	68.9	68.8	68.8	4.52	4.61	4.59	2.60	2.61	2.56	5	4.00
	21:26		Middle	1.5	26.56	26.56		7.31	7.31		32.11	32.11		68.7	68.7		4.61	4.60		2.54	2.48		3	
3/9/2011	10:48	Rainy	Middle	1.5	26.50	26.50	26.55	7.91	7.91	7.90	31.85	31.85	31.82	39.6	40.7	39.7	2.66	2.22	<u>2.53</u>	2.85	3.03	2.96	<2	3.00
	10:50		Middle	1.5	26.60	26.60		7.88	7.88		31.79	31.79		38.8	39.5		2.60	2.65		3.19	2.78		3	
5/9/2011	10:35	Cloudy	Middle	1.0	26.70	26.70	26.80	7.83	7.83	7.83	32.37	32.37	32.36	39.9	38.1	39.3	2.66	2.54	<u>2.62</u>	2.58	2.93	2.76	3	3.50
	10:38		Middle	1.0	26.90	26.90		7.83	7.83		32.34	32.37		40.4	38.7		2.69	2.58		2.77	2.77		4	
8/9/2011	14:44	Coudy	Middle	1.5	28.10	28.10	28.15	7.90	7.90	7.90	32.70	32.70	32.71	47.0	46.2	47.5	3.05	3.01	3.08	2.50	3.13	2.71	<2	3.00
	14:46		Middle	1.5	28.20	28.20		7.90	7.90		32.71	32.71		49.0	47.6		3.18	3.09		2.29	2.93		3	
10/9/2011	18:56	Fine	Middle	1.5	28.10	28.10	28.10	7.23	7.23	7.23	31.89	31.89	31.89	56.3	56.0	56.0	3.68	3.67	3.67	2.97	3.16	2.97	5	5.00
	18:57		Middle	1.5	28.09	28.09		7.23	7.23		31.89	31.89		55.9	55.7		3.66	3.65		2.81	2.92		5	
12/9/2011	20:06	Cloudy	Middle	1.5	28.31	28.31	28.31	7.56	7.56	7.56	31.95	31.95	31.96	61.2	61.2	61.2	3.99	3.99	3.99	3.48	2.76	2.93	4	4.50
	20:07		Middle	1.5	28.31	28.31		7.56	7.56		31.96	31.96		61.1	61.1		3.98	3.98		2.79	2.68		5	
14/9/2011	20:03	Cloudy	Middle	1.5	28.85	28.86	28.84	7.33	7.33	7.33	31.86	31.86	31.86	58.1	57.3	56.8	3.76	3.69	3.67	2.68	2.64	2.74	3	3.00
	20:04		Middle	1.5	28.83	28.83		7.33	7.33		31.86	31.86		56.1	55.6		3.63	3.59		2.71	2.92		3	
16/9/2011	20:45	Cloudy	Middle	1.5	28.84	28.84	28.84	7.50	7.50	7.50	31.61	31.61	31.61	56.9	56.9	56.6	3.69	3.69	3.67	3.20	3.20	3.16	7	6.50
	20:46		Middle	1.5	28.84	28.84		7.50	7.50		31.61	31.61		56.4	56.3		3.65	3.65		3.10	3.14		6	
19/9/2011	12:06	Fine	Middle	1.5	28.40	28.40	28.40	7.94	7.94	7.94	32.02	32.02	32.02	60.2	58.1	59.5	3.90	3.77	3.86	2.36	2.45	2.43	4	3.50
	12:07		Middle	1.5	28.40	28.40		7.93	7.93		32.02	32.02		60.5	59.2		3.92	3.84		2.45	2.46		3	
21/9/2011	17:43	Cloudy	Middle	1.5	28.33	28.33	28.33	7.51	7.51	7.51	31.87	31.87	31.87	60.4	60.3	60.3	3.94	3.93	3.93	3.02	2.96	2.98	3	2.50
	17:44		Middle	1.5	28.33	28.33		7.51	7.51		31.87	31.88		60.3	60.3		3.93	3.93		2.87	3.06		2	
24/9/2011	14:05	Cloudy	Middle	1.5	28.10	28.10	28.05	8.11	8.11	8.11	32.60	32.60	32.65	62.9	61.9	62.2	4.10	4.04	4.06	3.01	3.58	3.30	4	4.50
	14:07		Middle	1.5	28.00	28.00		8.11	8.11		32.69	32.69		62.5	61.6		4.07	4.02		3.46	3.16		5	
26/9/2011	18:13	Fine	Middle	1.5	28.01	28.00	28.00	7.54	7.54	7.54	32.28	32.28	32.28	60.6	60.3	60.1	3.96	3.94	3.93	4.40	3.91	4.08	9	8.50
	18:14		Middle	1.5	28.00	28.00		7.53	7.53		32.28	32.28		59.9	59.7		3.92	3.91		4.15	3.86		8	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
29/8/2011	16:50	Cloudy	Middle	1.5	27.80	27.80	27.90	7.97	7.97	7.97	32.07	32.07	32.05	70.8	69.4	69.9	4.61	4.51	4.55	2.47	2.23	2.40	6	5.00
	16:52		Middle	1.5	28.00	28.00		7.96	7.96		32.02	32.02		70.6	68.6		4.60	4.46		2.43	2.45		4	
1/9/2011	20:50	Cloudy	Middle	2.0	26.07	26.07	26.07	7.13	7.13	7.13	32.77	32.77	32.77	77.5	77.4	77.4	5.27	5.26	5.26	2.84	2.41	2.71	8	7.00
	20:51		Middle	2.0	26.07	26.07		7.13	7.13		32.77	32.77		77.4	77.3		5.26	5.26		3.10	2.47		6	
3/9/2011	10:36	Rainy	Middle	1.5	26.30	26.30	26.35	7.57	7.57	7.59	31.80	31.80	31.85	80.1	79.2	78.3	6.42	6.32	6.26	4.97	4.99	4.69	9	8.50
	10:39		Middle	1.5	26.40	26.40		7.60	7.60		31.90	31.90		77.4	76.4		6.21	6.10		4.25	4.54		8	
5/9/2011	12:20	Cloudy	Middle	3.0	28.30	28.30	28.25	7.60	7.60	7.61	32.00	32.00	31.95	79.1	78.6	77.7	5.16	5.09	5.05	2.66	2.69	2.66	4	4.00
	12:23		Middle	3.0	28.20	28.20		7.61	7.61		31.90	31.90		76.8	76.4		5.00	4.96		2.71	2.56		4	
8/9/2011	17:10	Coudy	Middle	2.0	27.30	27.30	27.30	7.80	7.80	7.80	32.10	32.10	32.10	75.8	75.6	75.1	4.74	4.72	4.70	5.08	5.24	5.11	6	6.50
	17:15		Middle	2.0	27.30	27.30		7.80	7.80		32.10	32.10		74.6	74.2		4.69	4.66		5.00	5.13		7	
10/9/2011	16:03	Fine	Middle	1.5	28.20	28.20	28.30	8.02	8.02	8.01	32.94	32.94	32.94	69.4	67.0	68.9	4.49	4.33	4.46	3.04	3.60	3.43	5	5.00
	16:05		Middle	1.5	28.40	28.40		8.00	8.00		32.94	32.94		70.5	68.7		4.56	4.45		3.85	3.24		5	
12/9/2011	18:56	Cloudy	Middle	2.0	27.70	27.70	27.70	7.81	7.81	7.81	32.20	32.20	32.20	82.7	81.8	81.7	5.39	5.35	5.34	6.70	6.80	6.70	8	7.50
	18:57		Middle	2.0	27.70	27.70		7.80	7.80		32.20	32.20		81.3	80.8		5.31	5.29		6.63	6.65		7	
14/9/2011	21:25	Cloudy	Middle	2.0	28.50	28.50	28.50	7.47	7.47	7.46	32.20	32.20	32.20	61.4	60.6	60.6	3.98	3.93	3.93	2.91	2.57	2.91	4	4.50
	21:26		Middle	2.0	28.50	28.50		7.45	7.45		32.20	32.20		60.3	60.0		3.91	3.89		3.40	2.74		5	
16/9/2011	20:28	Cloudy	Middle	2.0	28.40	28.40	28.40	7.80	7.80	7.80	31.70	31.70	31.70	72.6	72.5	72.5	4.69	4.69	4.69	7.35	7.14	6.93	5	5.50
	20:29		Middle	2.0	28.40	28.40		7.80	7.80		31.70	31.70		72.4	72.3		4.68	4.68		6.53	6.71		6	
19/9/2011	10:36	Fine	Middle	2.5	29.40	29.40	29.40	7.84	7.84	7.85	31.80	31.80	31.75	77.9	76.7	76.4	5.01	4.90	4.90	7.87	7.57	7.43	8	7.50
	10:39		Middle	2.5	29.40	29.40		7.85	7.85		31.70	31.70		75.7	75.2		4.86	4.81		7.08	7.20		7	
21/9/2011	18:24	Cloudy	Middle	2.0	27.80	27.80	27.80	7.60	7.60	7.60	32.20	32.20	32.20	81.5	81.3	81.2	5.33	5.32	5.32	4.56	4.49	4.50	4	5.00
	18:25		Middle	2.0	27.80	27.80		7.60	7.60		32.20	32.20		81.0	80.8		5.31	5.30		4.24	4.69		6	
24/9/2011	14:43	Cloudy	Middle	2.0	28.50	28.50	28.50	8.04	8.04	8.04	32.60	32.60	32.60	89.5	87.9	87.9	6.87	6.81	6.78	4.69	4.80	4.47	9	9.50
	14:45		Middle	2.0	28.50	28.50		8.04	8.04		32.60	32.60		87.5	86.8		6.73	6.69		4.25	4.12		10	
26/9/2011	15:55	Fine	Middle	2.5	28.80	28.80	28.90	8.23	8.23	8.21	33.58	33.58	33.54	78.0	77.3	77.9	4.98	4.93	4.96	4.11	4.56	4.48	7	6.00
	15:57		Middle	2.5	29.00	29.00		8.19	8.19		33.50	33.50		79.0	77.1		5.03	4.91		4.58	4.68		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		Turbidity			Suspended Solids		
					°C			-			ppt			%			mg/L		NTU			mg/L		
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
29/8/2011	16:55	Cloudy	Middle	1.5	27.30	27.30	27.25	7.70	7.70	7.71	31.70	31.70	31.65	84.5	83.6	83.3	5.54	5.49	5.47	3.00	2.92	3.03	8	7.00
	16:58		Middle	1.5	27.20	27.20		7.71	7.71		31.60	31.60		83.0	82.0		5.44	5.39		3.36	2.83		6	
1/9/2011	21:57	Cloudy	Middle	2.0	26.58	26.58	26.57	7.40	7.40	7.40	32.66	32.66	32.66	82.2	81.7	81.6	5.46	5.44	5.43	1.60	1.57	1.66	5	5.00
	21:58		Middle	2.0	26.58	26.54		7.40	7.40		32.66	32.66		81.4	81.2		5.42	5.41		1.78	1.70		5	
3/9/2011	10:15	Rainy	Middle	1.5	26.40	26.40	26.50	7.26	7.26	7.35	31.10	31.10	31.15	89.8	88.9	88.4	7.18	7.04	7.03	2.71	2.72	2.64	5	4.50
	10:18		Middle	1.5	26.60	26.60		7.44	7.44		31.20	31.20		87.8	86.9		6.99	6.91		2.81	2.30		4	
5/9/2011	12:05	Cloudy	Middle	1.5	27.90	27.90	27.95	7.22	7.22	7.22	31.70	31.70	31.75	79.3	78.6	78.0	5.19	5.12	5.10	2.23	2.34	2.21	8	7.00
	12:08		Middle	1.5	28.00	28.00		7.21	7.21		31.80	31.80		77.3	76.8		5.08	4.99		2.13	2.15		6	
8/9/2011	16:57	Coudy	Middle	1.5	27.60	27.60	27.60	7.59	7.59	7.59	31.90	31.90	31.90	77.2	77.0	76.8	5.21	5.18	5.18	2.56	2.14	2.42	2	3.00
	16:58		Middle	1.5	27.60	27.60		7.59	7.59		31.90	31.90		76.8	76.3		5.17	5.14		2.38	2.58		4	
10/9/2011	16:22	Fine	Middle	1.5	28.30	28.30	28.25	7.73	7.73	7.74	31.90	31.90	31.85	88.0	87.6	86.9	5.75	5.70	5.66	3.38	3.36	3.36	4	4.50
	16:25		Middle	1.5	28.20	28.20		7.74	7.74		31.80	31.80		86.3	85.7		5.62	5.56		3.30	3.39		5	
12/9/2011	20:58	Cloudy	Middle	2.0	27.00	27.00	26.95	7.81	7.81	7.81	32.00	32.00	32.00	95.4	95.2	95.2	6.36	6.34	6.34	3.53	3.89	3.71	4	4.00
	20:59		Middle	2.0	26.90	26.90		7.80	7.80		32.00	32.00		95.0	95.0		6.33	6.34		3.70	3.72		4	
14/9/2011	16:52	Cloudy	Middle	2.0	30.00	30.00	30.05	7.80	7.80	7.80	31.80	31.80	31.80	84.2	82.2	82.2	5.27	5.16	5.16	2.75	2.55	2.63	7	6.00
	16:53		Middle	2.0	30.10	30.10		7.80	7.80		31.80	31.80		81.5	81.0		5.11	5.08		2.70	2.53		5	
16/9/2011	20:00	Cloudy	Middle	2.0	28.40	28.40	28.40	7.81	7.81	7.81	31.80	31.80	31.80	84.8	83.6	83.1	5.49	5.38	5.36	4.24	4.12	4.04	5	4.50
	20:01		Middle	2.0	28.40	28.40		7.81	7.81		31.80	31.80		82.6	81.3		5.30	5.25		3.84	3.95		4	
19/9/2011	10:25	Fine	Middle	1.5	28.50	28.50	28.55	7.73	7.73	7.74	31.90	31.90	31.95	78.0	77.7	77.4	5.05	5.02	5.00	3.03	3.36	3.29	5	4.50
	10:28		Middle	1.5	28.60	28.60		7.74	7.74		32.00	32.00		77.0	76.7		4.98	4.95		3.08	3.69		4	
21/9/2011	21:08	Cloudy	Middle	2.0	28.10	28.10	28.10	7.81	7.81	7.81	32.50	32.50	32.50	68.0	68.0	68.0	4.43	4.43	4.43	4.84	4.85	5.04	7	8.00
	21:09		Middle	2.0	28.10	28.10		7.81	7.81		32.50	32.50		68.0	67.9		4.43	4.43		5.28	5.19		9	
24/9/2011	13:42	Cloudy	Middle	1.5	27.90	27.90	27.90	7.91	7.91	7.94	32.50	32.50	32.70	87.2	86.5	86.2	6.80	6.73	6.71	4.40	4.44	4.12	6	7.00
	13:45		Middle	1.5	27.90	27.90		7.96	7.96		32.90	32.90		85.9	85.1		6.69	6.62		4.34	3.29		8	
26/9/2011	16:20	Fine	Middle	2.0	28.20	28.20	28.15	7.88	7.88	7.89	32.60	32.60	32.55	84.9	84.2	84.0	5.49	5.46	5.44	4.65	5.18	4.81	8	9.00
	16:23		Middle	2.0	28.10	28.10		7.89	7.89		32.50	32.50		83.8	83.0		5.42	5.38		4.88	4.52		10	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
29/8/2011	17:07	Cloudy	Middle	2.5	26.80	26.80	26.75	7.79	7.79	7.80	31.50	31.50	31.45	78.9	77.9	77.8	5.21	5.16	5.14	2.49	2.40	2.43	4	3.50
	17:10		Middle	2.5	26.70	26.70		7.80	7.80		31.40	31.40		77.4	76.8		5.11	5.09		2.38	2.44		3	
1/9/2011	21:40	Cloudy	Middle	2.5	26.59	26.59	26.64	7.34	7.34	7.34	32.34	32.34	32.33	69.8	69.8	69.7	4.67	4.67	4.66	1.94	1.44	1.63	4	3.50
	21:41		Middle	2.5	26.68	26.69		7.34	7.34		32.31	32.31		69.6	69.4		4.65	4.64		1.52	1.63		3	
3/9/2011	11:50	Rainy	Middle	3.0	26.30	26.30	26.25	7.70	7.70	7.68	31.60	31.60	31.65	84.2	82.6	81.5	6.82	6.58	6.53	2.57	2.65	2.30	5	5.00
	11:53		Middle	3.0	26.20	26.20		7.66	7.66		31.70	31.70		80.1	79.2		6.43	6.30		2.23	1.75		5	
5/9/2011	13:33	Cloudy	Middle	3.0	26.60	26.60	26.65	7.61	7.61	7.62	32.00	32.00	32.05	70.7	68.9	68.6	4.68	4.60	4.55	4.02	4.03	4.14	5	4.00
	13:36		Middle	3.0	26.70	26.70		7.62	7.62		32.10	32.10		68.1	66.7		4.51	4.41		4.12	4.39		3	
8/9/2011	18:13	Coudy	Middle	3.0	27.10	27.10	27.10	7.71	7.71	7.71	32.10	32.10	32.10	72.9	72.6	72.4	4.98	4.97	4.93	5.94	5.93	5.87	5	5.50
	18:16		Middle	3.0	27.10	27.10		7.71	7.71		32.10	32.10		72.1	71.8		4.89	4.88		5.80	5.82		6	
10/9/2011	16:35	Fine	Middle	2.0	27.30	27.30	27.25	7.71	7.71	7.72	32.10	32.10	32.05	70.5	69.6	68.6	4.67	4.58	4.53	3.30	3.10	3.16	6	5.00
	16:38		Middle	2.0	27.20	27.20		7.72	7.72		32.00	32.00		67.3	66.8		4.46	4.40		3.17	3.06		4	
12/9/2011	20:43	Cloudy	Middle	2.5	26.30	26.30	26.30	7.78	7.78	7.78	31.90	31.90	31.90	82.3	81.6	81.1	5.53	5.48	5.44	3.38	3.04	2.98	<2	3.00
	20:44		Middle	2.5	26.30	26.30		7.78	7.78		31.90	31.90		80.6	79.8		5.40	5.35		2.73	2.77		3	
14/9/2011	17:16	Cloudy	Middle	2.5	28.70	28.70	28.70	7.83	7.83	7.83	32.00	32.00	32.00	81.8	80.9	80.3	5.23	5.17	5.13	4.00	3.91	3.88	7	8.00
	17:17		Middle	2.5	28.70	28.70		7.83	7.83		32.00	32.00		79.6	78.9		5.09	5.04		4.02	3.58		9	
16/9/2011	22:25	Cloudy	Middle	2.5	28.52	28.52	28.52	7.59	7.59	7.59	31.90	31.90	31.90	63.4	62.4	62.5	4.12	4.06	4.06	5.87	5.41	5.52	8	8.50
	22:26		Middle	2.5	28.52	28.52		7.59	7.59		31.90	31.90		62.0	62.0		4.03	4.02		5.29	5.49		9	
19/9/2011	11:27	Fine	Middle	3.0	28.90	28.90	28.90	7.87	7.87	7.88	31.80	31.80	31.75	76.9	75.9	75.7	4.94	4.91	4.88	8.93	9.34	9.19	10	11.00
	11:30		Middle	3.0	28.90	28.90		7.88	7.88		31.70	31.70		75.2	74.8		4.86	4.82		9.16	9.32		12	
21/9/2011	20:57	Cloudy	Middle	2.5	27.80	27.80	27.80	7.73	7.73	7.73	32.40	32.40	32.40	70.2	70.2	70.2	4.61	4.61	4.61	7.76	7.22	7.26	8	8.50
	20:58		Middle	2.5	27.80	27.80		7.73	7.73		32.40	32.40		70.2	70.2		4.61	4.61		7.00	7.07		9	
24/9/2011	14:00	Cloudy	Middle	2.5	27.70	27.70	27.58	8.03	8.03	8.03	32.60	32.50	32.68	78.8	77.9	77.3	6.17	6.05	6.03	3.96	4.32	4.09	6	6.50
	14:02		Middle	2.5	27.40	27.50		8.03	8.03		32.80	32.80		76.6	75.9		5.98	5.91		3.93	4.13		7	
26/9/2011	16:30	Fine	Middle	2.5	27.80	27.80	27.90	8.00	8.00	8.01	32.40	32.40	32.45	85.5	84.3	83.8	5.56	5.51	5.47	5.86	5.87	5.78	7	7.50
	16:33		Middle	2.5	28.00	28.00		8.01	8.01		32.50	32.50		83.5	82.4		5.42	5.38		6.40	4.99		8	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
29/8/2011	17:25	Cloudy	Middle	1.5	27.60	27.60	27.55	7.79	7.79	7.79	31.30	31.30	31.25	79.6	79.0	78.3	5.21	5.14	5.11	3.36	3.44	3.34	5	5.50
	17:28		Middle	1.5	27.50	27.50		7.78	7.78		31.20	31.20		77.8	76.9		5.09	5.01		3.31	3.25		6	
1/9/2011	21:25	Cloudy	Middle	2.0	26.63	26.63	26.64	7.36	7.36	7.36	32.03	32.03	32.03	86.3	86.2	86.2	5.78	5.78	5.78	2.82	2.39	2.52	2	3.00
	21:26		Middle	2.0	26.64	26.64		7.36	7.36		32.03	32.03		86.2	86.2		5.77	5.77		2.44	2.44		4	
3/9/2011	11:39	Rainy	Middle	1.5	26.60	26.60	26.60	7.70	7.70	7.70	30.70	30.70	30.75	86.7	85.2	85.7	6.95	6.74	6.71	3.07	3.08	3.03	2	2.50
	11:41		Middle	1.5	26.60	26.60		7.69	7.69		30.80	30.80		82.8	87.9		6.63	6.50		3.05	2.93		3	
5/9/2011	13:22	Cloudy	Middle	1.5	27.20	27.20	27.25	7.63	7.63	7.63	31.80	31.80	31.75	75.5	74.2	73.9	4.97	4.92	4.89	1.74	1.85	1.80	5	4.00
	13:25		Middle	1.5	27.30	27.30		7.62	7.62		31.70	31.70		73.5	72.3		4.85	4.81		1.73	1.86		3	
8/9/2011	18:00	Coudy	Middle	1.0	27.80	27.80	27.80	7.68	7.68	7.68	31.90	31.90	31.90	73.6	70.9	70.4	4.35	4.32	4.31	4.30	4.01	4.03	2	2.50
	18:03		Middle	1.0	27.80	27.80		7.68	7.68		31.90	31.90		69.0	68.2		4.29	4.27		3.80	4.01		3	
10/9/2011	16:55	Fine	Middle	1.5	27.50	27.50	27.55	7.66	7.66	7.66	31.80	31.80	31.85	75.4	74.4	73.5	4.98	4.89	4.84	2.92	3.00	2.99	3	4.00
	16:58		Middle	1.5	27.60	27.60		7.65	7.65		31.90	31.90		72.7	71.4		4.80	4.69		3.03	3.02		5	
12/9/2011	20:30	Cloudy	Middle	2.0	24.40	24.40	24.40	7.87	7.87	7.87	31.80	31.80	31.80	96.6	96.5	96.4	6.73	6.72	6.72	4.38	4.14	4.31	3	4.00
	20:31		Middle	2.0	24.40	24.40		7.87	7.87		31.80	31.80		96.4	96.2		6.71	6.71		4.44	4.26		5	
14/9/2011	17:54	Cloudy	Middle	2.0	29.00	29.00	29.00	7.86	7.86	7.86	31.80	31.80	31.80	81.4	80.7	80.7	5.21	5.16	5.17	4.55	4.25	4.32	4	5.00
	17:55		Middle	2.0	29.00	29.00		7.86	7.86		31.80	31.80		80.4	80.4		5.15	5.15		4.30	4.18		6	
16/9/2011	22:20	Cloudy	Middle	2.0	28.70	28.70	28.70	7.82	7.82	7.82	31.50	31.50	31.50	88.3	88.3	88.2	5.70	5.69	5.69	7.18	7.60	7.26	8	7.00
	22:21		Middle	2.0	28.70	28.70		7.82	7.82		31.50	31.50		88.1	88.1		5.68	5.67		6.95	7.30		6	
19/9/2011	11:21	Fine	Middle	1.5	29.30	29.30	29.25	7.85	7.85	7.85	31.60	31.60	31.65	76.7	75.1	74.6	4.92	4.79	4.78	5.37	5.16	5.07	7	7.00
	11:24		Middle	1.5	29.20	29.20		7.84	7.84		31.70	31.70		73.9	72.6		4.74	4.67		5.05	4.71		7	
21/9/2011	20:22	Cloudy	Middle	2.0	27.90	27.90	27.90	7.88	7.88	7.88	32.10	32.10	32.10	84.8	84.4	84.3	5.55	5.53	5.52	9.99	10.20	10.17	11	11.50
	20:23		Middle	2.0	27.90	27.90		7.88	7.88		32.10	32.10		84.1	83.7		5.50	5.49		10.10	10.40		12	
24/9/2011	14:25	Cloudy	Middle	2.0	28.10	28.10	28.15	7.97	7.97	7.97	32.30	32.30	32.25	72.4	71.8	71.5	5.61	5.58	5.55	3.53	3.86	3.66	4	4.00
	14:28		Middle	2.0	28.20	28.20		7.97	7.97		32.20	32.20		71.3	70.6		5.51	5.48		3.51	3.73		4	
26/9/2011	16:48	Fine	Middle	1.0	27.90	27.90	27.95	8.06	8.06	8.07	32.30	32.30	32.35	89.6	88.6	87.9	5.83	5.78	5.72	7.57	7.57	7.57	6	6.00
	16:51		Middle	1.0	28.00	28.00		8.07	8.07		32.40	32.40		87.0	86.2		5.66	5.60		7.62	7.51		6	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.





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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	17:17	Cloudy	Middle	1.0	27.40	27.40	27.35	7.76	7.76	7.76	31.30	31.30	31.25	73.6	73.0	72.2	4.84	4.78	4.74	3.86	3.61	3.71	10	9.00
	17:20		Middle	1.0	27.30	27.30		7.75	7.75		31.20	31.20		71.4	70.9		4.71	4.63		3.82	3.56		8	
1/9/2011	21:35	Cloudy	Middle	2.0	26.65	26.65	26.65	7.34	7.34	7.35	32.43	32.43	32.44	64.8	64.2	64.3	4.33	4.29	4.29	1.21	1.12	1.12	5	4.00
	21:36		Middle	2.0	26.64	26.64		7.35	7.35		32.44	32.44		64.0	64.0		4.28	4.27		1.06	1.09		3	
3/9/2011	11:30	Rainy	Middle	1.5	26.80	26.80	26.80	7.61	7.61	7.62	28.70	28.70	28.80	74.7	72.5	72.0	5.97	5.75	5.72	2.61	2.53	2.56	<2	2.00
	11:33		Middle	1.5	26.80	26.80		7.62	7.62		28.90	28.90		71.0	69.9		5.66	5.50		2.57	2.54		2	
5/9/2011	13:15	Cloudy	Middle	1.5	27.30	27.30	27.35	7.57	7.57	7.58	31.80	31.80	31.75	72.5	71.5	71.3	4.77	4.73	4.71	3.47	3.36	3.43	5	4.50
	13:18		Middle	1.5	27.40	27.40		7.58	7.58		31.70	31.70		71.1	70.1		4.68	4.64		3.33	3.54		4	
8/9/2011	18:06	Coudy	Middle	1.0	27.80	27.80	27.80	7.73	7.73	7.72	31.90	31.90	31.90	73.0	72.7	70.8	4.65	4.62	4.60	7.97	8.05	7.91	8	8.50
	18:08		Middle	1.0	27.80	27.80		7.71	7.71		31.90	31.90		69.0	68.6		4.57	4.55		7.80	7.80		9	
10/9/2011	16:42	Fine	Middle	1.5	27.30	27.30	27.35	7.60	7.60	7.60	31.50	31.50	31.55	66.6	65.8	65.2	4.42	4.33	4.31	0.99	1.12	1.00	<2	<2
	16:45		Middle	1.5	27.40	27.40		7.59	7.59		31.60	31.60		64.6	63.8		4.28	4.22		0.93	0.96		<2	
12/9/2011	20:19	Cloudy	Middle	2.0	25.10	25.10	25.10	7.81	7.81	7.81	31.90	31.90	31.90	94.8	94.8	94.7	6.53	6.52	6.52	3.41	2.83	3.04	3	4.00
	20:20		Middle	2.0	25.10	25.10		7.81	7.81		31.90	31.90		94.6	94.6		6.52	6.51		2.96	2.94		5	
14/9/2011	17:36	Cloudy	Middle	2.0	29.00	29.00	29.00	7.82	7.82	7.82	31.80	31.80	31.80	77.0	75.6	75.1	4.93	4.81	4.79	3.28	3.30	3.22	6	5.00
	17:37		Middle	2.0	29.00	29.00		7.82	7.82		31.80	31.80		74.3	73.5		4.74	4.69		3.14	3.14		4	
16/9/2011	22:03	Cloudy	Middle	2.0	28.80	28.80	28.80	7.74	7.74	7.74	31.70	31.70	31.70	71.6	71.1	71.0	4.60	4.57	4.56	2.85	3.14	3.08	7	6.00
	22:04		Middle	2.0	28.80	28.80		7.73	7.73		31.70	31.70		70.9	70.4		4.55	4.52		3.54	2.79		5	
19/9/2011	11:15	Fine	Middle	1.5	29.70	29.70	29.65	7.84	7.84	7.84	31.60	31.60	31.65	70.1	69.5	68.9	4.48	4.42	4.39	5.85	5.98	6.22	10	9.50
	11:18		Middle	1.5	29.60	29.60		7.83	7.83		31.70	31.70		68.4	67.7		4.36	4.31		6.72	6.33		9	
21/9/2011	19:46	Cloudy	Middle	2.0	28.20	28.20	28.20	7.77	7.77	7.77	32.10	32.10	32.10	87.5	87.2	87.0	5.70	5.68	5.67	10.50	9.51	9.98	12	13.00
	19:47		Middle	2.0	28.20	28.20		7.77	7.78		32.10	32.10		86.8	86.4		5.66	5.63		10.00	9.91		14	
24/9/2011	14:11	Cloudy	Middle	2.0	27.70	27.70	27.60	7.86	7.86	7.87	32.10	32.10	32.20	72.4	70.8	70.6	5.64	5.57	5.52	1.78	2.21	1.94	4	3.50
	14:13		Middle	2.0	27.50	27.50		7.87	7.87		32.30	32.30		70.3	69.0		5.46	5.42		1.83	1.95		3	
26/9/2011	16:40	Fine	Middle	1.0	28.20	28.20	28.15	8.04	8.04	8.05	32.40	32.40	32.35	86.6	85.8	85.3	5.61	5.59	5.54	6.32	5.97	6.21	6	6.00
	16:43		Middle	1.0	28.10	28.10		8.05	8.05		32.30	32.30		84.7	84.0		5.50	5.47		6.31	6.22		6	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
29/8/2011	17:00	Cloudy	Middle	1.5	27.00	27.00	27.05	7.94	7.94	7.95	29.78	29.78	29.78	68.8	70.1	69.5	4.65	4.74	4.70	2.71	2.45	2.55	4	4.50
	17:03		Middle	1.5	27.10	27.10		7.95	7.95		29.78	29.78		69.7	69.3		4.72	4.69		2.48	2.56		5	
1/9/2011	20:14	Cloudy	Middle	2.0	26.06	26.06	26.06	7.13	7.13	7.13	32.05	32.05	32.26	81.3	81.2	81.2	5.66	5.65	5.64	2.66	2.53	2.69	6	5.00
	20:15		Middle	2.0	26.06	26.06		7.12	7.12		32.47	32.47		81.1	81.0		5.63	5.62		2.89	2.66		4	
3/9/2011	11:16	Rainy	Middle	1.5	27.10	27.10	27.15	7.74	7.74	7.75	30.30	30.30	30.40	88.1	86.3	85.2	7.04	6.76	6.73	4.91	4.64	4.67	5	6.00
	11:19		Middle	1.5	27.20	27.20		7.76	7.76		30.50	30.50		83.8	82.6		6.64	6.49		4.80	4.32		7	
5/9/2011	13:00	Cloudy	Middle	1.5	28.20	28.20	28.25	7.63	7.63	7.64	31.30	31.30	31.25	74.7	73.8	73.2	4.86	4.82	4.77	1.60	1.64	1.61	4	3.50
	13:03		Middle	1.5	28.30	28.30		7.64	7.64		31.20	31.20		72.8	71.4		4.73	4.66		1.55	1.65		3	
8/9/2011	17:52	Coudy	Middle	1.0	28.40	28.40	28.40	7.73	7.73	7.73	31.90	31.90	31.90	81.1	80.7	80.3	5.09	5.05	5.04	2.91	3.08	3.00	3	4.00
	17:56		Middle	1.0	28.40	28.40		7.73	7.73		31.90	31.90		79.8	79.4		5.02	4.99		2.98	3.02		5	
10/9/2011	16:19	Fine	Middle	1.5	28.20	28.20	28.30	7.90	7.90	7.91	30.61	30.61	30.61	61.2	60.2	61.4	4.00	3.94	4.11	7.00	6.37	6.58	4	4.00
	16:20		Middle	1.5	28.40	28.40		7.91	7.91		30.61	30.61		62.4	61.8		4.08	4.40		6.56	6.40		4	
12/9/2011	19:51	Cloudy	Middle	2.0	26.50	26.50	26.50	7.83	7.83	7.83	32.00	32.00	32.00	80.2	79.4	79.3	5.38	5.32	5.32	3.95	4.02	4.05	4	4.50
	19:52		Middle	2.0	26.50	26.50		7.83	7.83		32.00	32.00		79.1	78.5		5.30	5.27		3.91	4.32		5	
14/9/2011	19:04	Cloudy	Middle	2.0	29.00	29.00	29.00	7.37	7.37	7.37	32.00	32.00	32.00	72.9	72.6	72.5	4.68	4.68	4.67	4.80	4.71	4.73	10	9.50
	19:05		Middle	2.0	29.00	29.00		7.37	7.37		32.00	32.00		72.3	72.0		4.66	4.64		4.70	4.70		9	
16/9/2011	21:21	Cloudy	Middle	2.0	28.60	28.60	28.60	7.82	7.82	7.82	31.70	31.70	31.70	70.0	69.7	69.5	4.51	4.49	4.48	3.94	3.57	3.69	6	5.00
	21:22		Middle	2.0	28.60	28.60		7.82	7.82		31.70	31.70		69.5	68.7		4.47	4.46		3.60	3.64		4	
19/9/2011	10:59	Fine	Middle	1.5	30.00	30.00	30.05	7.86	7.86	7.87	31.10	31.10	31.10	80.3	79.7	79.3	5.11	5.04	5.03	4.04	3.86	3.77	4	8.00
	11:02		Middle	1.5	30.10	30.10		7.87	7.87		31.10	31.10		78.9	78.3		5.02	4.96		3.70	3.48		12	
21/9/2011	19:16	Cloudy	Middle	2.0	26.60	26.60	26.60	7.58	7.59	7.59	32.30	32.30	32.30	60.5	60.5	60.5	4.05	4.05	4.05	4.47	4.39	4.41	8	8.00
	19:17		Middle	2.0	26.60	26.60		7.59	7.59		32.30	32.30		60.5	60.5		4.05	4.05		4.53	4.25		8	
24/9/2011	13:37	Cloudy	Middle	1.5	28.60	28.60	28.60	8.21	8.21	8.22	31.45	31.45	31.43	61.8	60.4	62.2	4.02	3.92	4.04	6.09	6.05	5.85	7	8.00
	13:38		Middle	1.5	28.60	28.60		8.22	8.22		31.41	31.41		63.1	63.6		4.10	4.13		5.34	5.92		9	
26/9/2011	16:15	Fine	Middle	1.0	29.10	29.10	29.20	8.32	8.32	8.32	31.36	31.36	31.36	73.3	72.3	73.1	4.72	4.66	4.70	3.58	3.66	3.84	6	6.00
	16:17		Middle	1.0	29.30	29.30		8.32	8.32		31.35	31.35		74.0	72.6		4.76	4.66		4.68	3.43		6	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/8/2011	17:08	Cloudy	Middle	1.5	27.00	27.00	27.00	7.95	7.95	7.95	30.33	30.33	30.33	53.6	53.4	53.4	3.61	3.60	3.60	2.44	2.50	2.39	5	4.50
	17:11		Middle	1.5	27.00	27.00		7.95	7.95		30.33	30.33		52.7	53.7		3.55	3.62		2.38	2.23		4	
1/9/2011	20:21	Cloudy	Middle	2.0	26.84	26.84	26.84	7.38	7.38	7.38	32.18	32.18	32.18	73.3	73.3	73.3	4.89	4.89	4.89	2.68	2.71	2.72	4	5.00
	20:22		Middle	2.0	26.84	26.84		7.38	7.38		32.18	32.18		73.2	73.2		4.88	4.88		2.95	2.53		6	
3/9/2011	11:11	Rainy	Middle	1.5	26.70	26.70	26.75	7.69	7.69	7.70	30.90	30.90	30.95	87.8	83.0	82.9	6.85	6.62	6.56	4.83	4.82	4.67	8	8.00
	11:13		Middle	1.5	26.80	26.80		7.70	7.70		31.00	31.00		81.1	79.8		6.45	6.31		4.54	4.50		8	
5/9/2011	12:53	Cloudy	Middle	1.5	28.10	28.10	28.15	7.68	7.68	7.69	31.40	31.40	31.45	81.4	80.1	79.5	5.31	5.23	5.19	3.07	3.33	2.91	13	12.00
	12:56		Middle	1.5	28.20	28.20		7.69	7.69		31.50	31.50		78.9	77.7		5.14	5.09		2.78	2.46		11	
8/9/2011	17:47	Coudy	Middle	1.0	28.00	28.00	28.00	7.73	7.73	7.73	32.00	32.00	32.00	74.2	73.5	73.0	5.42	5.39	5.31	3.74	3.90	3.61	2	3.00
	17:50		Middle	1.0	28.00	28.00		7.73	7.73		32.00	32.00		72.3	71.9		5.23	5.21		3.29	3.50		4	
10/9/2011	16:14	Fine	Middle	1.5	28.10	28.10	28.20	7.94	7.94	7.93	29.38	29.38	29.40	61.2	60.4	61.2	4.05	4.00	4.05	8.52	8.37	8.50	10	9.00
	16:15		Middle	1.5	28.30	28.30		7.92	7.92		29.42	29.42		62.1	61.2		4.10	4.05		8.34	8.75		8	
12/9/2011	19:45	Cloudy	Middle	2.0	25.90	25.90	25.85	7.85	7.85	7.85	31.90	31.90	31.90	74.1	73.4	73.2	5.00	4.98	4.96	4.77	4.55	4.67	5	5.00
	19:46		Middle	2.0	25.80	25.80		7.85	7.85		31.90	31.90		72.9	72.5		4.94	4.91		4.41	4.94		5	
14/9/2011	19:09	Cloudy	Middle	2.0	29.00	29.00	29.00	7.38	7.37	7.38	32.00	32.00	32.00	74.2	74.1	73.5	4.78	4.79	4.74	4.19	4.31	4.35	9	8.00
	19:10		Middle	2.0	29.00	29.00		7.37	7.38		32.00	32.00		73.0	72.5		4.70	4.67		4.30	4.60		7	
16/9/2011	21:25	Cloudy	Middle	2.0	28.80	28.80	28.80	7.84	7.84	7.84	31.60	31.60	31.60	73.3	72.8	72.6	4.71	4.68	4.67	4.36	3.66	3.95	8	7.00
	21:26		Middle	2.0	28.80	28.80		7.84	7.84		31.60	31.60		72.4	71.9		4.65	4.62		3.88	3.91		6	
19/9/2011	11:05	Fine	Middle	1.5	30.20	30.20	30.15	7.86	7.86	7.87	31.10	31.10	31.15	80.2	79.3	78.5	5.10	5.00	4.97	4.00	3.98	4.05	6	5.50
	11:08		Middle	1.5	30.10	30.10		7.87	7.87		31.20	31.20		77.6	76.7		4.92	4.84		4.16	4.07		5	
21/9/2011	19:12	Cloudy	Middle	2.0	25.50	25.50	25.65	7.59	7.59	7.59	32.30	32.30	32.30	62.9	62.8	62.6	4.26	4.25	4.24	4.76	4.33	4.75	6	6.00
	19:13		Middle	2.0	25.80	25.80		7.58	7.58		32.30	32.30		62.4	62.3		4.22	4.22		5.00	4.90		6	
24/9/2011	13:30	Cloudy	Middle	1.5	28.40	28.40	28.40	8.21	8.21	8.21	31.32	31.32	31.32	73.1	71.7	72.5	4.77	4.67	4.73	5.82	5.07	5.23	7	8.00
	13:32		Middle	1.5	28.40	28.40		8.21	8.21		31.31	31.31		73.4	71.8		4.79	4.69		5.07	4.97		9	
26/9/2011	16:08	Fine	Middle	1.0	29.10	29.10	29.15	8.28	8.28	8.28	31.80	31.80	31.84	65.4	64.8	65.3	4.19	4.16	4.18	6.87	6.58	6.23	8	9.00
	16:10		Middle	1.0	29.20	29.20		8.27	8.27		31.88	31.88		66.2	64.6		4.24	4.14		5.64	5.84		10	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
					Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
29/8/2011	17:30	Cloudy	Middle	2.0	27.40	27.40	27.45	7.98	7.98	7.99	32.28	32.28	32.28	69.7	69.1	68.8	4.60	4.58	4.56	3.76	3.81	3.77	12	11.00
	17:33		Middle	2.0	27.50	27.50		7.99	7.99		32.28	32.28		68.3	68.0		4.53	4.51		3.73	3.79		10	
1/9/2011	20:06	Cloudy	Middle	2.0	26.83	26.83	26.83	7.28	7.28	7.28	32.33	32.33	32.33	79.7	79.7	79.7	5.70	5.70	5.70	3.87	4.27	4.11	11	8.00
	20:07		Middle	2.0	26.83	26.83		7.27	7.27		32.33	32.33		79.7	79.7		5.70	5.70		4.10	4.21		5	
3/9/2011	10:53	Rainy	Middle	2.0	26.50	26.50	26.45	7.65	7.65	7.67	30.80	30.80	30.85	82.0	79.6	78.7	6.54	6.33	6.27	3.21	2.80	2.87	8	7.00
	10:56		Middle	2.0	26.40	26.40		7.68	7.68		30.90	30.90		77.1	76.2		6.16	6.06		2.78	2.68		6	
5/9/2011	12:35	Cloudy	Middle	1.5	27.60	27.60	27.65	7.67	7.67	7.68	31.90	31.90	31.85	74.1	73.7	71.5	4.87	4.82	4.69	2.35	2.69	2.47	6	6.00
	12:56		Middle	1.5	27.70	27.70		7.68	7.68		31.80	31.80		70.0	68.0		4.57	4.48		2.19	2.63		6	
8/9/2011	17:40	Coudy	Middle	2.0	27.90	27.90	27.90	7.72	7.72	7.72	32.10	32.10	32.10	74.3	73.9	73.5	4.97	4.95	4.94	3.66	3.94	3.72	4	4.50
	17:45		Middle	2.0	27.90	27.90		7.72	7.72		32.10	32.10		73.1	72.8		4.92	4.91		3.73	3.53		5	
10/9/2011	16:34	Fine	Middle	2.0	27.90	27.90	27.95	7.97	7.97	7.97	32.92	32.92	32.92	66.1	64.8	65.7	4.29	4.20	4.26	3.56	3.70	3.77	7	7.50
	16:39		Middle	2.0	28.00	28.00		7.97	7.97		32.91	32.91		66.5	65.2		4.31	4.23		3.82	4.01		8	
12/9/2011	19:27	Cloudy	Middle	2.0	25.80	25.80	25.80	7.84	7.84	7.84	32.00	32.00	32.00	97.1	96.9	96.8	6.58	6.57	6.56	4.26	5.09	4.75	4	4.50
	19:28		Middle	2.0	25.80	25.80		7.84	7.84		32.00	32.00		96.6	96.5		6.56	6.54		4.52	5.13		5	
14/9/2011	18:34	Cloudy	Middle	2.0	29.10	29.10	29.10	7.85	7.85	7.85	31.90	31.90	31.90	84.1	83.9	83.8	5.39	5.37	5.36	3.93	3.50	3.64	6	5.00
	18:35		Middle	2.0	29.10	29.10		7.85	7.85		31.90	31.90		83.8	83.2		5.34	5.32		3.56	3.55		4	
16/9/2011	20:54	Cloudy	Middle	2.0	28.70	28.70	28.70	7.83	7.83	7.83	31.70	31.70	31.70	74.9	74.7	74.5	4.82	4.80	4.79	4.25	4.24	4.62	7	8.00
	20:55		Middle	2.0	28.70	28.70		7.83	7.83		31.70	31.70		74.4	73.9		4.78	4.74		4.76	5.24		9	
19/9/2011	10:51	Fine	Middle	2.0	29.50	29.50	29.55	7.83	7.83	7.83	31.60	31.60	31.55	76.8	76.2	75.3	4.93	4.85	4.80	7.31	6.69	6.88	6	7.00
	10:54		Middle	2.0	29.60	29.60		7.82	7.82		31.50	31.50		75.1	73.0		4.78	4.65		6.73	6.78		8	
21/9/2011	18:54	Cloudy	Middle	2.0	27.00	27.00	27.00	7.64	7.64	7.64	32.40	32.40	32.40	67.1	70.6	69.9	4.44	4.69	4.64	4.98	5.35	5.09	7	7.50
	18:55		Middle	2.0	27.00	27.00		7.64	7.64		32.40	32.40		70.8	71.0		4.70	4.72		5.01	5.02		8	
24/9/2011	13:45	Cloudy	Middle	2.0	28.50	28.50	28.50	8.19	8.19	8.19	33.14	33.14	33.15	68.8	67.7	68.1	4.44	4.37	4.40	3.91	3.44	3.72	9	8.00
	13:49		Middle	2.0	28.50	28.50		8.19	8.19		33.15	33.15		69.3	66.6		4.47	4.30		4.02	3.51		7	
26/9/2011	17:00	Fine	Middle	2.0	28.30	28.30	28.25	8.20	8.20	8.20	33.27	33.27	33.30	77.1	75.1	76.3	5.00	4.87	4.95	5.09	4.86	4.89	5	4.50
	17:03		Middle	2.0	28.20	28.20		8.20	8.20		33.32	33.32		77.5	75.5		5.02	4.90		4.57	5.04		4	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/8/2011	19:28	Cloudy	Middle	1.5	27.41	27.41	27.41	7.22	7.22	7.22	31.87	31.87	31.87	75.2	74.8	74.7	4.98	4.96	4.95	4.17	4.31	4.07	7	8.00
	19:29		Middle	1.5	27.41	27.41		7.22	7.22		31.87	31.87		74.5	74.2		4.93	4.92		4.09	3.69		9	
1/9/2011	20:42	Cloudy	Middle	1.5	26.61	26.60	26.60	7.39	7.39	7.39	32.37	32.37	32.37	78.0	77.8	77.7	5.22	5.20	5.20	6.19	5.81	6.09	9	9.50
	20:43		Middle	1.5	26.60	26.60		7.39	7.39		32.37	32.37		77.6	77.5		5.19	5.19		6.15	6.20		10	
3/9/2011	7:40	Rainy	Middle	1.5	26.10	26.10	26.15	7.85	7.85	7.86	32.13	32.13	32.12	67.3	66.5	67.0	4.54	4.49	4.52	5.14	5.19	5.18	7	8.00
	7:44		Middle	1.5	26.20	26.20		7.86	7.86		32.10	32.10		67.6	66.6		4.56	4.49		5.21	5.16		9	
5/9/2011	12:13	Cloudy	Middle	1.5	27.10	27.10	27.15	7.91	7.91	7.91	32.85	32.85	32.88	71.2	69.7	70.9	4.68	4.58	4.65	6.31	5.85	6.09	8	9.00
	12:17		Middle	1.5	27.20	27.20		7.91	7.91		32.91	32.91		72.2	70.4		4.73	4.61		6.27	5.93		10	
8/9/2011	18:40	Coudy	Middle	1.5	26.70	26.70	26.75	7.94	7.94	7.94	32.77	32.77	32.79	72.0	70.9	71.9	4.79	4.71	4.79	5.85	5.18	5.52	7	7.00
	18:43		Middle	1.5	26.80	26.80		7.94	7.94		32.81	32.81		73.2	71.6		4.88	4.76		5.59	5.44		7	
10/9/2011	18:12	Fine	Middle	1.5	27.68	27.68	27.69	7.29	7.29	7.29	32.18	32.17	32.17	79.9	79.5	79.5	5.24	5.22	5.21	4.23	4.18	4.33	7	7.50
	18:13		Middle	1.5	27.69	27.69		7.29	7.29		32.17	32.16		79.3	79.1		5.20	5.19		4.54	4.36		8	
12/9/2011	19:30	Cloudy	Middle	1.5	28.05	28.05	28.05	7.41	7.41	7.41	32.24	32.24	32.24	77.9	77.4	77.4	5.09	5.05	5.05	8.41	7.48	8.00	9	8.00
	19:31		Middle	1.5	28.05	28.05		7.40	7.40		32.24	32.25		77.2	76.9		5.04	5.03		7.89	8.23		7	
14/9/2011	18:48	Cloudy	Middle	1.5	28.26	28.22	28.47	7.50	7.50	7.46	32.01	32.01	32.01	79.1	79.5	78.8	5.15	5.11	5.11	7.77	8.22	7.98	12	11.00
	18:49		Middle	1.5	28.92	28.48		7.42	7.42		32.01	32.01		78.3	78.1		5.10	5.08		7.94	7.97		10	
16/9/2011	20:00	Cloudy	Middle	1.5	28.47	28.47	28.47	7.50	7.50	7.50	31.83	31.83	31.82	67.5	67.3	67.5	4.35	4.37	4.38	6.05	6.54	6.24	11	10.00
	20:01		Middle	1.5	28.47	28.47		7.50	7.50		31.81	31.81		67.7	67.6		4.39	4.39		6.23	6.13		9	
19/9/2011	8:37	Fine	Middle	1.5	28.50	28.50	28.45	7.94	7.94	7.95	32.34	32.34	32.36	75.0	73.9	74.8	4.87	4.80	4.86	8.94	9.37	9.27	15	16.00
	8:41		Middle	1.5	28.40	28.40		7.95	7.95		32.38	32.38		76.0	74.4		4.94	4.84		9.34	9.42		17	
21/9/2011	20:20	Cloudy	Middle	1.5	27.80	27.80	27.81	7.64	7.64	7.64	32.38	32.38	32.38	65.9	65.8	65.8	4.32	4.32	4.31	5.26	5.39	5.33	6	6.50
	20:21		Middle	1.5	27.82	27.82		7.64	7.64		32.38	32.38		65.7	65.6		4.31	4.30		5.68	5.00		7	
24/9/2011	15:40	Cloudy	Middle	2.0	27.90	27.90	27.85	8.18	8.18	8.19	33.30	33.30	33.31	78.4	79.3	79.3	5.11	5.18	5.18	8.49	8.74	8.76	16	15.00
	15:43		Middle	2.0	27.80	27.80		8.19	8.19		33.31	33.31		79.6	79.8		5.20	5.21		9.38	8.44		14	
26/9/2011	17:30	Fine	Middle	1.5	28.03	28.03	28.05	7.45	7.45	7.45	32.68	32.68	32.68	66.0	66.0	66.0	4.30	4.30	4.30	7.08	6.62	6.69	11	10.00
	17:31		Middle	1.5	28.07	28.07		7.45	7.45		32.67	32.67		66.0	66.0		4.30	4.30		6.60	6.46		9	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value
29/8/2011	18:55	Cloudy	Middle	1.5	29.12	29.12	29.13	7.04	7.04	7.05	31.99	31.99	31.99	96.3	96.3	96.3	6.20	6.19	6.19	5.95	6.21	6.01	13	12.50
	18:56		Middle	1.5	29.13	29.13		7.05	7.05		31.99	31.99		96.3	96.3		6.19	6.19		6.16	5.71		12	
1/9/2011	20:05	Cloudy	Middle	1.5	26.77	26.77	26.77	7.49	7.49	7.49	32.07	32.07	32.07	95.0	95.0	95.0	6.36	6.36	6.36	7.17	7.45	7.14	12	11.00
	20:06		Middle	1.5	26.77	26.77		7.49	7.49		32.07	32.07		95.0	95.0		6.36	6.36		6.94	6.99		10	
3/9/2011	7:20	Rainy	Middle	1.5	26.50	26.50	26.60	7.93	7.93	7.95	32.53	32.53	32.52	69.3	67.6	68.6	4.62	4.51	4.58	6.16	6.24	6.10	12	13.50
	7:22		Middle	1.5	26.70	26.70		7.97	7.97		32.50	32.50		69.8	67.8		4.65	4.52		6.02	5.98		15	
5/9/2011	11:56	Cloudy	Middle	1.0	27.40	27.40	27.55	8.03	8.03	8.04	32.64	32.64	32.66	78.9	76.5	78.4	5.15	4.99	5.12	5.32	5.31	5.10	7	7.50
	11:58		Middle	1.0	27.70	27.70		8.04	8.04		32.68	32.68		80.1	78.2		5.22	5.10		4.88	4.90		8	
8/9/2011	18:22	Coudy	Middle	1.5	26.20	26.20	26.25	8.08	8.08	8.07	32.76	32.76	32.75	80.4	79.1	80.1	5.40	5.31	5.38	5.84	5.50	5.60	6	6.50
	18:25		Middle	1.5	26.30	26.30		8.06	8.06		32.74	32.74		81.0	79.9		5.44	5.36		5.30	5.75		7	
10/9/2011	17:50	Fine	Middle	1.5	27.91	27.92	27.91	7.38	7.38	7.38	32.32	32.32	32.22	83.7	83.2	83.1	5.54	5.52	5.51	8.02	7.91	7.92	12	13.00
	17:51		Middle	1.5	27.90	27.89		7.38	7.38		32.09	32.14		82.8	82.6		5.50	5.49		8.05	7.71		14	
12/9/2011	19:05	Cloudy	Middle	1.5	28.13	28.13	28.13	7.40	7.40	7.40	31.98	31.98	31.98	79.4	79.2	79.1	5.18	5.17	5.17	7.83	8.34	8.23	13	12.50
	19:06		Middle	1.5	28.13	28.13		7.40	7.40		31.98	31.98		78.9	78.8		5.16	5.15		8.50	8.24		12	
14/9/2011	18:32	Cloudy	Middle	1.5	28.29	28.29	28.28	7.21	7.21	7.21	31.63	31.63	31.64	81.6	81.4	81.4	5.33	5.31	5.31	3.87	4.03	3.98	5	5.00
	18:33		Middle	1.5	28.26	28.26		7.21	7.20		31.64	31.64		81.4	81.2		5.31	5.30		4.02	4.00		5	
16/9/2011	19:46	Cloudy	Middle	1.5	28.30	28.30	28.33	7.48	7.48	7.48	31.51	31.51	31.50	80.0	80.0	80.0	5.22	5.22	5.22	8.81	8.71	8.95	11	11.50
	19:47		Middle	1.5	28.36	28.36		7.48	7.48		31.48	31.48		79.9	79.9		5.21	5.21		9.06	9.21		12	
19/9/2011	8:15	Fine	Middle	1.5	28.00	28.00	28.05	7.75	7.75	7.77	32.07	32.07	32.11	64.9	65.9	65.0	4.24	4.31	4.25	5.87	6.06	6.03	13	12.50
	8:17		Middle	1.5	28.10	28.10		7.79	7.79		32.15	32.15		65.9	63.3		4.31	4.14		6.23	5.96		12	
21/9/2011	20:05	Cloudy	Middle	1.5	28.21	28.21	28.21	7.70	7.70	7.70	32.49	32.49	32.49	63.1	63.1	63.1	4.12	4.11	4.12	4.26	4.04	4.22	5	5.50
	20:06		Middle	1.5	28.21	28.21		7.70	7.70		32.49	32.49		63.1	63.1		4.12	4.11		4.28	4.31		6	
24/9/2011	15:23	Cloudy	Middle	2.0	28.00	28.00	28.05	8.22	8.22	8.23	33.46	33.46	33.46	79.8	79.9	80.3	5.19	5.21	5.23	7.99	8.09	7.97	14	14.50
	15:26		Middle	2.0	28.10	28.10		8.23	8.23		33.45	33.45		80.4	81.1		5.24	5.27		8.11	7.68		15	
26/9/2011	17:00	Fine	Middle	1.5	28.12	28.12	28.15	7.56	7.56	7.56	32.83	32.83	32.82	71.2	71.0	71.1	4.63	4.62	4.62	7.58	7.20	7.33	5	6.00
	17:01		Middle	1.5	28.18	28.18		7.56	7.56		32.80	32.80		71.0	71.0		4.62	4.62		7.18	7.36		7	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
					°C			-			ppt		%		mg/L		NTU		mg/L					
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/8/2011	17:30	Cloudy	Middle	1.5	27.55	27.55	27.57	6.57	6.57	6.56	31.54	31.54	31.50	75.0	74.9	74.5	4.95	4.92	4.91	6.69	6.08	6.19	11	10.00
	17:32		Middle	1.5	27.58	27.58		6.54	6.54		31.45	31.47		74.2	74.0		4.90	4.88		6.02	5.95		9	
1/9/2011	18:15	Cloudy	Middle	1.5	26.51	26.50	26.50	7.36	7.36	7.36	31.96	31.94	31.94	77.5	77.3	77.1	5.20	5.18	5.16	12.60	12.60	<u>12.53</u>	12	11.00
	18:16		Middle	1.5	26.49	26.50		7.36	7.36		31.93	31.92		76.8	76.6		5.13	5.12		12.40	12.50		10	
3/9/2011	8:11	Rainy	Middle	1.5	25.90	25.90	25.95	7.96	7.96	7.96	32.31	32.31	32.32	68.9	67.1	68.5	4.66	4.54	4.63	5.44	5.80	5.49	7	6.50
	8:13		Middle	1.5	26.00	26.00		7.95	7.95		32.33	32.33		69.5	68.5		4.70	4.63		5.48	5.22		6	
5/9/2011	12:37	Cloudy	Middle	1.5	27.20	27.20	27.30	7.92	7.92	7.93	33.19	33.19	33.15	68.0	66.5	67.5	4.46	4.37	4.43	5.33	5.78	5.32	8	7.50
	12:39		Middle	1.5	27.40	27.40		7.93	7.93		33.10	33.10		68.5	67.0		4.49	4.40		5.30	4.88		7	
8/9/2011	17:50	Coudy	Middle	1.5	27.86	27.86	27.86	7.24	7.24	7.24	32.02	32.02	32.02	79.6	79.4	79.4	5.23	5.22	5.22	4.39	4.19	4.25	8	7.50
	17:51		Middle	1.5	27.86	27.86		7.24	7.24		32.02	32.02		79.4	79.2		5.22	5.21		4.03	4.40		7	
10/9/2011	16:20	Fine	Middle	1.5	28.11	28.11	28.11	7.24	7.24	7.24	31.79	31.79	31.79	84.7	84.1	84.2	5.53	5.51	5.51	5.91	5.98	5.62	8	7.50
	16:21		Middle	1.5	28.11	28.11		7.24	7.24		31.79	31.79		84.0	83.9		5.50	5.50		5.40	5.18		7	
12/9/2011	17:20	Cloudy	Middle	1.5	28.35	28.35	28.36	7.07	7.07	7.07	31.76	31.76	31.76	61.8	61.9	61.9	4.03	4.03	4.03	6.67	6.87	6.75	8	7.50
	17:21		Middle	1.5	28.37	28.37		7.07	7.07		31.76	31.76		61.9	61.9		4.03	4.03		7.07	6.38		7	
14/9/2011	17:21	Cloudy	Middle	1.5	28.78	28.78	28.84	7.07	7.07	7.07	31.93	31.93	31.92	63.1	63.1	63.1	4.07	4.07	4.07	5.59	5.15	5.16	8	8.00
	17:22		Middle	1.5	28.83	28.95		7.07	7.07		31.92	31.91		63.1	63.1		4.08	4.07		4.88	5.03		8	
16/9/2011	18:05	Cloudy	Middle	1.5	28.80	28.80	28.80	7.61	7.61	7.61	31.53	31.53	31.53	63.9	63.8	63.7	4.14	4.14	4.13	5.68	5.27	5.65	8	7.50
	18:06		Middle	1.5	28.80	28.80		7.61	7.61		31.53	31.53		63.6	63.6		4.13	4.12		5.95	5.68		7	
19/9/2011	9:13	Fine	Middle	1.5	28.40	28.40	28.45	7.94	7.94	7.95	32.51	32.51	32.52	66.6	64.9	66.1	4.33	4.21	4.29	6.56	5.93	6.06	9	9.00
	9:15		Middle	1.5	28.50	28.50		7.95	7.95		32.52	32.52		67.3	65.4		4.37	4.25		5.73	6.00		9	
21/9/2011	16:16	Cloudy	Middle	1.5	28.58	28.58	28.58	7.37	7.37	7.37	31.99	31.99	31.99	54.6	54.4	54.3	3.55	3.53	3.52	5.06	4.86	4.95	8	7.00
	16:17		Middle	1.5	28.58	28.58		7.37	7.37		31.99	31.99		54.2	54.0		3.51	3.50		4.83	5.05		6	
24/9/2011	18:05	Cloudy	Middle	1.5	27.40	27.40	27.35	8.26	8.26	8.23	33.47	33.47	33.49	77.9	76.5	77.6	5.12	5.03	5.10	8.58	8.70	8.73	8	7.50
	18:08		Middle	1.5	27.30	27.30		8.20	8.20		33.50	33.50		78.6	77.2		5.17	5.08		8.76	8.86		7	
26/9/2011	15:25	Fine	Middle	1.5	28.63	28.63	28.63	7.05	7.05	7.05	32.36	32.36	32.36	61.8	61.8	61.8	4.00	4.00	4.00	7.71	7.28	7.37	13	12.00
	15:26		Middle	1.5	28.63	28.63		7.05	7.05		32.36	32.36		61.8	61.9		4.00	4.00		7.16	7.33		11	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	13:22	Fine	Middle	2.0	28.00	28.00	28.05	8.13	8.13	8.13	32.97	32.97	32.98	86.4	87.0	87.0	5.61	5.64	5.64	1.87	2.09	1.93	8	7.00
	13:25		Middle	2.0	28.10	28.10		8.12	8.12		32.98	32.98		86.8	87.6		5.63	5.68		1.78	1.96		6	
1/9/2011	15:40	Fine	Middle	2.0	26.20	26.20	26.15	8.05	8.05	8.05	33.33	33.33	33.34	76.8	77.0	77.1	5.12	5.15	5.15	3.32	3.42	3.30	4	3.50
	15:43		Middle	2.0	26.10	26.10		8.04	8.04		33.34	33.34		77.2	77.3		5.16	5.17		3.25	3.22		3	
3/9/2011	16:40	Cloudy	Middle	2.0	26.40	26.40	26.50	8.02	8.02	8.04	33.13	33.13	33.13	77.3	77.0	77.4	5.16	5.13	5.16	2.37	2.40	2.39	4	3.50
	16:45		Middle	2.0	26.60	26.60		8.05	8.05		33.12	33.12		78.3	77.0		5.22	5.13		2.40	2.37		3	
5/9/2011	3:38	Cloudy	Middle	2.5	26.55	26.55	26.61	7.38	7.38	7.37	32.33	32.33	32.34	86.6	86.6	86.5	5.80	5.80	5.67	3.09	2.61	2.85	3	3.00
	3:39		Middle	2.5	26.67	26.67		7.36	7.36		32.34	32.34		86.4	86.4		5.29	5.79		2.58	3.12		3	
8/9/2011	8:03	Fine	Middle	3.0	27.30	27.30	27.35	8.07	8.07	8.07	33.42	33.42	33.43	85.2	85.3	84.9	5.59	5.60	5.57	2.40	2.15	2.32	2	2.00
	8:07		Middle	3.0	27.40	27.40		8.07	8.07		33.44	33.44		85.5	83.5		5.63	5.47		2.44	2.28		2	
10/9/2011	10:26	Fine	Middle	2.5	27.70	27.70	27.75	8.13	8.13	8.13	33.37	33.37	33.38	84.0	82.2	83.6	5.47	5.36	5.45	3.23	3.19	2.89	3	3.50
	10:29		Middle	2.5	27.80	27.80		8.13	8.13		33.38	33.38		84.8	83.4		5.52	5.43		2.41	2.72		4	
12/9/2011	10:27	Fine	Middle	2.5	29.00	29.00	29.10	8.30	8.30	8.30	33.33	33.33	33.32	93.8	92.5	93.2	5.99	5.91	5.95	2.64	2.34	2.44	4	4.50
	10:30		Middle	2.5	29.20	29.20		8.30	8.30		33.31	33.31		94.2	92.4		6.01	5.89		2.37	2.41		5	
14/9/2011	14:09	Fine	Middle	2.0	28.50	28.50	28.45	8.23	8.23	8.23	33.02	33.02	33.03	81.0	79.9	80.7	5.24	5.17	5.22	3.74	3.64	3.62	6	7.00
	14:13		Middle	2.0	28.40	28.40		8.23	8.23		33.03	33.03		81.5	80.2		5.28	5.20		3.74	3.37		8	
16/9/2011	13:55	Fine	Middle	2.0	29.10	29.10	29.15	8.20	8.20	8.21	32.93	32.93	32.93	77.7	77.9	78.7	4.97	4.98	5.02	3.29	3.84	3.56	11	10.00
	13:58		Middle	2.0	29.20	29.20		8.21	8.21		32.92	32.92		79.8	79.3		5.08	5.06		3.58	3.51		9	
19/9/2011	0:47	Fine	Middle	2.0	28.47	28.47	28.47	7.79	7.79	7.79	31.34	31.34	31.34	72.0	72.0	72.0	4.70	4.70	4.70	4.15	4.03	3.93	13	12.00
	0:48		Middle	2.0	28.47	28.47		7.79	7.79		31.34	31.34		72.0	72.0		4.70	4.70		3.72	3.83		11	
22/9/2011	8:28	Fine	Middle	2.0	27.70	27.70	27.65	8.33	8.33	8.34	33.65	33.65	33.66	94.4	92.2	93.2	6.17	6.03	6.10	2.99	2.82	3.00	9	9.00
	8:32		Middle	2.0	27.60	27.60		8.34	8.34		33.66	33.66		93.8	92.5		6.13	6.05		2.78	3.40		9	
24/9/2011	9:03	Cloudy	Middle	2.5	27.20	27.20	27.15	8.32	8.32	8.32	33.59	33.59	33.60	91.7	90.9	91.7	6.05	6.00	6.05	4.48	4.12	4.18	6	6.00
	9:06		Middle	2.5	27.10	27.10		8.32	8.32		33.61	33.61		92.5	91.5		6.10	6.04		4.18	3.92		6	
26/9/2011	9:40	Cloudy	Middle	2.0	27.40	27.40	27.35	8.13	8.13	8.13	32.70	32.70	32.65	92.8	92.7	92.6	6.09	6.09	6.08	6.03	5.50	5.85	11	11.50
	9:43		Middle	2.0	27.30	27.30		8.12	8.12		32.60	32.60		92.6	92.2		6.08	6.06		5.94	5.93		12	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.





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

Date	Time	Weather Condition	Sampling Depth	Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids								
				°C		-		ppt		%		mg/L		NTU		mg/L								
				Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average							
29/8/2011	14:15	Fine	Middle	2.0	27.20	27.20	27.15	8.20	8.20	8.21	33.03	33.03	33.02	91.4	92.8	92.4	6.00	6.09	6.06	3.96	3.44	3.61	10	9.00
	14:18		Middle	2.0	27.10	27.10		8.21	8.21		33.01	33.01		93.2	92.1		6.11	6.03		3.64	3.39		8	
1/9/2011	15:10	Fine	Middle	2.0	26.20	26.20	26.25	8.12	8.12	8.13	33.27	33.27	33.28	80.5	80.1	80.8	5.39	5.37	5.41	6.24	6.21	6.28	12	11.00
	15:13		Middle	2.0	26.30	26.30		8.13	8.13		33.28	33.28		81.7	81.0		5.47	5.42		6.25	6.42		10	
3/9/2011	17:08	Cloudy	Middle	2.0	25.60	25.60	25.70	8.06	8.06	8.08	33.58	33.58	33.58	72.3	71.4	72.3	4.87	4.81	4.87	3.39	3.46	3.62	4	5.00
	17:12		Middle	2.0	25.80	25.80		8.10	8.10		33.57	33.57		73.2	72.3		4.93	4.87		3.78	3.85		6	
5/9/2011	3:00	Cloudy	Middle	2.5	26.75	26.75	26.75	7.41	7.41	7.41	31.83	31.83	31.83	87.8	88.2	88.1	5.76	5.78	5.78	3.98	4.08	4.02	5	5.50
	3:01		Middle	2.5	26.74	26.74		7.41	7.41		31.83	31.83		88.2	88.3		5.79	5.79		3.99	4.04		6	
8/9/2011	9:01	Fine	Middle	2.5	27.20	27.20	27.30	8.11	8.11	8.11	33.57	33.57	33.54	86.8	85.9	86.4	5.69	5.63	5.66	4.75	4.23	4.27	5	4.50
	9:04		Middle	2.5	27.40	27.40		8.11	8.11		33.51	33.51		87.1	85.6		5.71	5.61		4.03	4.05		4	
10/9/2011	9:39	Fine	Middle	2.5	27.80	27.80	27.85	8.16	8.16	8.17	33.51	33.51	33.51	90.1	88.8	89.3	5.87	5.78	5.81	4.34	4.63	4.40	6	6.00
	9:42		Middle	2.5	27.90	27.90		8.17	8.17		33.51	33.51		90.1	88.1		5.86	5.74		4.38	4.25		6	
12/9/2011	11:00	Fine	Middle	2.5	28.60	28.60	28.70	8.28	8.28	8.27	33.34	33.34	33.32	94.7	92.4	93.9	6.06	5.91	6.00	3.81	3.80	3.59	5	5.50
	11:03		Middle	2.5	28.80	28.80		8.26	8.26		33.29	33.29		94.8	93.5		6.06	5.98		3.46	3.27		6	
14/9/2011	13:37	Fine	Middle	2.5	29.40	29.40	29.45	8.28	8.28	8.28	33.05	33.05	33.08	92.7	90.4	92.1	5.90	5.75	5.86	6.94	7.04	6.98	9	9.50
	13:41		Middle	2.5	29.50	29.50		8.27	8.27		33.10	33.10		93.0	92.3		5.91	5.87		7.17	6.77		10	
16/9/2011	14:22	Fine	Middle	2.0	29.10	29.10	29.15	8.25	8.25	8.25	32.98	32.98	32.99	84.7	84.9	84.7	5.42	5.43	5.42	6.04	5.92	6.41	11	10.00
	14:25		Middle	2.0	29.20	29.20		8.24	8.24		32.99	32.99		84.3	85.0		5.40	5.44		6.58	7.11		9	
19/9/2011	0:19	Fine	Middle	2.5	28.55	28.55	28.55	7.83	7.83	7.83	30.95	30.95	30.95	73.0	73.0	73.2	4.76	4.76	4.77	5.08	5.18	5.08	10	10.50
	0:20		Middle	2.5	28.55	28.55		7.83	7.83		30.95	30.95		73.3	73.3		4.78	4.78		5.07	4.97		11	
22/9/2011	7:55	Fine	Middle	2.5	28.00	28.00	28.00	8.33	8.33	8.33	33.55	33.55	33.60	94.2	93.2	93.9	6.12	6.06	6.11	4.01	4.73	4.28	5	5.00
	7:59		Middle	2.5	28.00	28.00		8.33	8.33		33.65	33.65		94.6	93.7		6.16	6.09		4.13	4.23		5	
24/9/2011	8:26	Cloudy	Middle	2.5	27.40	27.40	27.40	8.35	8.35	8.36	33.65	33.65	33.66	95.7	94.1	95.1	6.29	6.19	6.26	5.37	5.79	5.60	9	9.50
	8:29		Middle	2.5	27.40	27.40		8.36	8.36		33.66	33.66		96.0	94.7		6.32	6.23		5.61	5.63		10	
26/9/2011	9:20	Cloudy	Middle	2.0	27.70	27.70	27.65	8.12	8.12	8.13	32.70	32.70	32.65	90.8	90.6	90.5	5.97	5.95	5.95	9.16	9.06	8.94	13	12.00
	9:23		Middle	2.0	27.60	27.60		8.13	8.13		32.60	32.60		90.5	90.2		5.94	5.92		8.76	8.78		11	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	15:00	Fine	Middle	2	27.10	27.10	27.05	7.99	7.99	8.00	33.29	33.29	33.30	67.1	67.9	68.1	4.41	4.46	4.48	1.47	1.75	1.77	5	4.50
	15:03		Middle	2	27.00	27.00		8.00	8.00		33.30	33.30		68.4	69.1		4.49	4.54		2.46	1.39		4	
1/9/2011	14:30	Fine	Middle	3	25.90	25.90	25.85	8.05	8.05	8.06	33.56	33.56	33.55	66.8	67.6	67.5	4.48	4.53	4.52	4.90	4.22	4.45	10	9.00
	14:33		Middle	3	25.80	25.80		8.06	8.06		33.54	33.54		67.8	67.7		4.54	4.53		3.96	4.73		8	
3/9/2011	17:24	Cloudy	Middle	2	25.50	25.50	25.55	8.04	8.04	8.06	33.47	33.47	33.48	62.3	61.0	62.6	4.21	4.12	4.23	2.53	2.25	2.35	4	3.50
	17:28		Middle	2	25.60	25.60		8.07	8.07		33.49	33.49		62.9	64.3		4.25	4.34		2.15	2.46		3	
5/9/2011	6:30	Cloudy	Middle	2	26.76	26.76	26.76	7.42	7.42	7.42	33.06	33.06	33.07	89.3	89.3	89.3	5.96	5.95	5.96	2.24	2.81	2.43	2	2.50
	6:31		Middle	2	26.76	26.76		7.42	7.42		33.08	33.08		89.3	89.3		5.96	5.96		2.38	2.28		3	
8/9/2011	9:42	Fine	Middle	3	27.90	27.90	27.90	8.15	8.15	8.15	33.68	33.68	33.65	86.7	85.0	86.1	5.61	5.50	5.57	2.76	2.47	2.58	3	4.00
	9:45		Middle	3	27.90	27.90		8.15	8.15		33.61	33.61		87.3	85.4		5.64	5.52		2.86	2.23		5	
10/9/2011	9:07	Fine	Middle	3	27.90	27.90	27.95	8.21	8.21	8.21	33.75	33.75	33.72	82.2	81.1	81.9	5.33	5.26	5.31	3.92	2.93	3.23	8	9.00
	9:10		Middle	3	28.00	28.00		8.21	8.21		33.69	33.69		83.3	81.1		5.40	5.26		2.75	3.30		10	
12/9/2011	11:34	Fine	Middle	3	28.70	28.70	28.75	8.32	8.32	8.32	33.38	33.38	33.36	93.0	91.8	92.6	5.97	5.90	5.94	3.98	4.00	4.10	4	5.00
	11:37		Middle	3	28.80	28.80		8.32	8.32		33.33	33.33		94.0	91.5		6.03	5.87		4.36	4.05		6	
14/9/2011	13:15	Fine	Middle	3	29.10	29.10	29.20	8.29	8.29	8.29	33.25	33.25	33.23	85.1	83.7	84.3	5.42	5.33	5.37	4.71	4.47	4.41	7	7.00
	13:19		Middle	3	29.30	29.30		8.29	8.29		33.21	33.21		85.4	82.9		5.44	5.28		4.32	4.14		7	
16/9/2011	14:45	Fine	Middle	2	29.10	29.10	29.05	8.21	8.21	8.22	32.91	32.91	32.91	79.5	80.1	80.0	5.10	5.14	5.13	5.41	5.35	5.17	8	9.00
	14:48		Middle	2	29.00	29.00		8.22	8.22		32.90	32.90		80.3	79.9		5.15	5.13		5.12	4.80		10	
19/9/2011	4:19	Fine	Middle	2	28.60	28.60	28.61	7.83	7.83	7.84	32.50	32.50	32.50	72.1	72.1	72.1	4.60	4.66	4.65	4.70	4.64	4.64	14	13.00
	4:20		Middle	2	28.61	28.61		7.84	7.84		32.50	32.50		72.1	72.1		4.66	4.66		4.70	4.51		12	
22/9/2011	7:13	Fine	Middle	3	26.80	26.80	26.80	8.31	8.31	8.31	32.79	32.79	32.77	90.2	88.9	89.9	6.00	5.91	5.99	2.10	2.40	2.27	2	2.50
	7:17		Middle	3	26.80	26.80		8.31	8.31		32.75	32.75		91.5	89.1		6.09	5.94		2.44	2.13		3	
24/9/2011	7:54	Cloudy	Middle	3	26.80	26.80	26.75	8.35	8.35	8.35	33.24	33.24	33.32	92.3	91.4	91.5	6.12	6.07	6.07	3.40	3.61	3.53	6	5.00
	7:57		Middle	3	26.70	26.70		8.35	8.35		33.39	33.39		91.8	90.4		6.10	6.00		3.48	3.63		4	
26/9/2011	9:49	Cloudy	Middle	3	26.90	26.90	26.85	8.32	8.32	8.32	33.78	33.78	33.78	92.3	88.8	90.8	6.11	5.88	6.01	5.48	5.96	5.89	10	11.00
	9:52		Middle	3	26.80	26.80		8.32	8.32		33.78	33.78		92.6	89.6		6.13	5.93		6.02	6.10		12	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	15:23	Fine	Middle	2	26.80	26.80	26.80	7.98	7.98	7.99	32.83	32.83	32.84	69.7	70.0	70.4	4.62	4.66	4.67	2.48	2.45	2.45	4	3.50
	15:26		Middle	2	26.80	26.80		7.99	7.99		32.84	32.84		70.8	70.9		4.69	4.70		2.39	2.46		3	
1/9/2011	14:51	Fine	Middle	3	26.20	26.20	26.25	7.99	7.99	7.99	33.35	33.35	33.36	64.7	64.5	64.7	4.32	4.31	4.31	5.56	6.32	5.72	6	5.50
	14:54		Middle	3	26.30	26.30		7.98	7.98		33.36	33.36		64.4	65.0		4.30	4.32		5.33	5.68		5	
3/9/2011	17:45	Cloudy	Middle	2	25.90	25.90	25.95	8.06	8.06	8.06	33.36	33.36	33.37	71.3	68.8	71.4	4.79	4.62	4.80	2.87	2.55	2.72	3	3.50
	17:49		Middle	2	26.00	26.00		8.05	8.05		33.38	33.38		73.4	72.1		4.94	4.84		2.57	2.90		4	
5/9/2011	6:15	Cloudy	Middle	2	26.60	26.60	26.59	7.33	7.33	7.33	33.22	33.22	33.22	79.5	79.4	79.4	5.30	5.30	5.30	3.33	3.46	3.45	5	5.00
	6:16		Middle	2	26.58	26.58		7.33	7.33		33.22	33.22		79.3	79.3		5.29	5.29		3.61	3.41		5	
8/9/2011	10:13	Fine	Middle	3	28.10	28.10	28.20	8.12	8.12	8.11	33.48	33.48	33.45	78.5	75.4	77.4	5.07	4.86	4.99	2.43	2.31	2.30	3	3.00
	10:16		Middle	3	28.30	28.30		8.10	8.10		33.42	33.42		78.9	76.9		5.08	4.95		2.30	2.16		3	
10/9/2011	8:42	Fine	Middle	3	27.60	27.60	27.70	8.13	8.13	8.12	32.49	32.49	32.49	78.2	77.2	77.6	5.13	5.06	5.08	4.29	4.39	4.33	5	4.50
	8:45		Middle	3	27.80	27.80		8.11	8.11		32.49	32.49		78.0	77.0		5.09	5.02		4.30	4.32		4	
12/9/2011	11:55	Fine	Middle	3	28.40	28.40	28.45	8.20	8.20	8.20	33.21	33.21	33.19	84.7	83.0	84.4	5.47	5.36	5.45	6.36	6.50	6.19	8	7.00
	11:58		Middle	3	28.50	28.50		8.19	8.19		33.17	33.17		85.4	84.5		5.51	5.45		5.96	5.94		6	
14/9/2011	12:50	Fine	Middle	3	29.70	29.70	29.80	8.21	8.21	8.21	33.14	33.14	33.12	81.3	79.8	80.8	5.12	5.03	5.09	8.06	9.82	8.41	13	12.00
	12:54		Middle	3	29.90	29.90		8.21	8.21		33.09	33.09		81.5	80.5		5.14	5.07		8.08	7.66		11	
16/9/2011	15:05	Fine	Middle	2	28.90	28.90	28.95	8.18	8.18	8.19	32.77	32.77	32.77	75.4	75.9	76.2	4.84	4.88	4.90	5.59	5.78	5.63	11	10.00
	15:08		Middle	2	29.00	29.00		8.19	8.19		32.76	32.76		76.6	77.0		4.92	4.95		5.65	5.51		9	
19/9/2011	3:50	Fine	Middle	2	28.63	28.63	28.63	7.77	7.77	7.77	32.34	32.34	32.34	80.1	80.1	80.1	5.18	5.18	5.18	6.90	7.02	6.93	8	8.00
	3:51		Middle	2	28.63	28.63		7.77	7.77		32.34	32.34		80.1	80.1		5.18	5.18		6.75	7.03		8	
22/9/2011	6:47	Fine	Middle	3	27.80	27.80	27.75	8.27	8.27	8.28	33.37	33.37	33.40	83.6	81.1	83.1	5.45	5.29	5.42	5.24	5.39	5.20	7	6.00
	6:51		Middle	3	27.70	27.70		8.28	8.28		33.42	33.42		84.9	82.7		5.54	5.40		5.17	4.99		5	
24/9/2011	7:33	Cloudy	Middle	3	27.10	27.10	27.05	8.21	8.21	8.21	32.15	32.15	32.15	78.9	77.6	78.0	5.25	5.16	5.19	4.90	5.21	5.04	6	5.50
	7:36		Middle	3	27.00	27.00		8.21	8.21		32.15	32.15		78.6	77.0		5.23	5.12		4.59	5.44		5	
26/9/2011	10:22	Cloudy	Middle	3	27.20	27.20	27.15	8.27	8.27	8.27	33.35	33.35	33.35	83.4	81.7	83.3	5.50	5.39	5.50	7.27	7.53	7.38	11	11.50
	10:25		Middle	3	27.10	27.10		8.27	8.27		33.35	33.35		84.8	83.3		5.60	5.49		7.23	7.47		12	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	11:40	Fine	Middle	2	27.00	27.00	27.05	8.05	8.05	8.05	32.59	32.59	32.60	71.9	72.7	72.5	4.75	4.82	4.79	4.58	4.24	4.26	8	7.00
	11:43		Middle	2	27.10	27.10		8.04	8.04	8.05	32.60	32.60		73.3	72.2		4.83	4.77		4.00	4.23		6	
1/9/2011	14:03	Fine	Middle	2	26.40	26.40	26.35	8.00	8.00	8.01	33.06	33.06	33.05	70.6	72.2	72.2	4.71	4.82	4.82	6.09	5.39	5.80	9	8.50
	14:06		Middle	2	26.30	26.30		8.01	8.01	8.01	33.04	33.04		72.5	73.3		4.84	4.89		5.54	6.17		8	
3/9/2011	14:58	Cloudy	Middle	2	26.30	26.30	26.40	8.00	8.00	8.01	33.41	33.41	33.38	67.9	68.8	68.6	4.52	4.58	4.57	4.90	4.44	4.80	7	6.50
	15:00		Middle	2	26.50	26.50		8.02	8.02	8.01	33.34	33.34		68.1	69.4		4.54	4.63		4.71	5.15		6	
5/9/2011	6:00	Cloudy	Middle	2	26.49	26.49	26.53	7.27	7.27	7.27	32.73	32.73	32.73	86.0	85.6	85.6	5.74	5.73	5.72	2.18	2.30	2.30	4	4.00
	6:01		Middle	2	26.56	26.56		7.27	7.27	7.27	32.73	32.73		85.4	85.2		5.72	5.70		2.35	2.37		4	
8/9/2011	12:51	Fine	Middle	2	27.50	27.50	27.55	7.96	7.96	7.96	32.95	32.95	32.97	73.3	71.9	73.3	4.81	4.72	4.81	4.36	4.17	4.28	5	5.00
	12:53		Middle	2	27.60	27.60		7.96	7.96	7.96	32.99	32.99		74.2	73.7		4.87	4.83		4.11	4.48		5	
10/9/2011	12:45	Fine	Middle	2	27.90	27.90	27.85	7.97	7.97	7.97	33.08	33.08	33.08	69.1	69.7	69.3	4.50	4.54	4.51	4.65	4.81	4.99	6	6.50
	12:48		Middle	2	27.80	27.80		7.96	7.96	7.97	33.07	33.07		70.2	68.1		4.56	4.43		5.05	5.45		7	
12/9/2011	14:00	Fine	Middle	2	28.30	28.30	28.40	8.13	8.13	8.13	33.14	33.14	33.12	79.2	77.4	79.2	5.11	4.99	5.11	6.41	7.16	6.64	8	8.00
	14:02		Middle	2	28.50	28.50		8.13	8.13	8.13	33.09	33.09		82.2	77.9		5.30	5.02		6.11	6.88		8	
14/9/2011	16:10	Fine	Middle	2	28.80	28.80	28.75	8.10	8.10	8.10	32.83	32.83	32.83	56.9	55.8	55.5	3.65	3.58	3.57	5.73	5.62	5.74	6	7.00
	16:13		Middle	2	28.70	28.70		8.09	8.09	8.10	32.82	32.82		55.0	54.4		3.54	3.50		5.77	5.85		8	
16/9/2011	16:40	Fine	Middle	2	29.10	29.10	29.10	8.05	8.05	8.06	32.62	32.62	32.63	50.7	49.1	49.5	3.25	3.18	3.18	7.36	7.19	7.35	9	9.50
	16:44		Middle	2	29.10	29.10		8.06	8.06	8.06	32.63	32.63		49.6	48.5		3.18	3.11		7.44	7.42		10	
19/9/2011	6:33	Fine	Middle	2	28.39	28.39	28.40	7.68	7.68	7.68	32.12	32.12	32.12	71.1	71.1	71.0	4.62	4.62	4.62	5.95	5.49	5.62	8	9.00
	6:34		Middle	2	28.40	28.40		7.67	7.67	7.68	32.12	32.12		71.0	70.9		4.62	4.61		5.53	5.51		10	
22/9/2011	7:15	Fine	Middle	2	28.20	28.20	28.20	8.01	8.01	8.01	32.60	32.60	32.60	71.3	71.2	71.1	4.64	4.63	4.63	8.12	7.91	7.91	11	10.50
	7:17		Middle	2	28.20	28.20		8.01	8.01	8.01	32.60	32.60		71.0	71.0		4.62	4.62		7.66	7.95		10	
24/9/2011	11:22	Cloudy	Middle	3	28.20	28.20	28.20	8.22	8.22	8.23	33.33	33.33	33.33	61.8	61.9	61.3	4.00	4.01	3.97	7.97	8.04	7.83	11	11.00
	11:25		Middle	3	28.20	28.20		8.23	8.23	8.23	33.33	33.33		60.6	60.9		3.93	3.94		7.50	7.82		11	
26/9/2011	9:55	Cloudy	Middle	2	27.60	27.60	27.65	8.12	8.12	8.13	32.70	32.70	32.75	85.8	85.4	85.2	5.63	5.60	5.59	8.58	7.58	7.93	12	11.50
	9:58		Middle	2	27.70	27.70		8.13	8.13	8.13	32.80	32.80		84.9	84.7		5.57	5.55		7.85	7.69		11	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	11:15	Fine	Middle	2	26.80	26.80	26.85	7.89	7.89	7.89	32.39	32.39	32.40	68.7	69.1	69.2	4.56	4.58	4.59	5.46	5.36	5.11	5	6.00
	11:18		Middle	2	26.90	26.90		7.88	7.88		32.40	32.40		69.7	69.3		4.62	4.59		4.71	4.89		7	
1/9/2011	13:41	Fine	Middle	2	26.30	26.30	26.25	7.97	7.97	7.97	32.75	32.75	32.75	65.5	67.0	66.8	4.33	4.49	4.46	6.56	6.57	6.82	10	9.00
	13:44		Middle	2	26.20	26.20		7.96	7.96		32.75	32.76		67.4	67.2		4.51	4.50		7.07	7.09		8	
3/9/2011	14:42	Cloudy	Middle	2	26.40	26.40	26.50	7.97	7.97	7.96	33.14	33.14	33.11	51.9	50.8	51.8	3.45	3.38	3.45	4.17	4.88	4.76	7	6.50
	14:44		Middle	2	26.60	26.60		7.95	7.95		33.08	33.08		52.9	51.6		3.52	3.43		5.34	4.63		6	
5/9/2011	5:42	Cloudy	Middle	2	26.54	26.54	26.54	7.26	7.26	7.26	32.72	32.72	32.72	81.2	81.1	81.0	5.43	5.42	5.42	3.37	2.81	2.93	3	3.00
	5:43		Middle	2	26.54	26.54		7.26	7.26		32.72	32.72		80.9	80.9		5.41	5.40		2.70	2.85		3	
8/9/2011	12:36	Fine	Middle	2	27.00	27.00	27.00	7.97	7.97	7.97	32.91	32.91	32.89	75.7	74.5	75.3	5.03	4.95	5.00	4.70	5.21	4.68	9	12.50
	12:38		Middle	2	27.00	27.00		7.97	7.97		32.86	32.86		76.2	74.8		5.05	4.96		4.34	4.48		16	
10/9/2011	12:31	Fine	Middle	2	27.30	27.30	27.40	7.98	7.98	7.98	33.14	33.14	33.13	69.3	68.4	69.3	4.54	4.48	4.54	6.08	6.01	6.02	9	10.00
	12:33		Middle	2	27.50	27.50		7.98	7.98		33.12	33.12		70.4	69.0		4.61	4.51		5.97	6.03		11	
12/9/2011	13:46	Fine	Middle	2	28.40	28.40	28.45	8.05	8.05	8.05	32.46	32.46	32.45	70.4	68.5	70.9	4.55	4.43	4.58	9.52	9.04	9.99	10	11.00
	13:48		Middle	2	28.50	28.50		8.04	8.04		32.43	32.43		71.8	72.9		4.64	4.71		10.50	10.90		12	
14/9/2011	12:21	Fine	Middle	2	29.50	29.50	29.55	8.09	8.09	8.09	32.65	32.65	32.60	71.1	69.6	70.6	4.49	4.39	4.46	11.90	11.70	<u>11.75</u>	13	13.00
	12:22		Middle	2	29.60	29.60		8.09	8.09		32.54	32.54		71.6	70.2		4.52	4.42		12.70	10.70		13	
16/9/2011	16:22	Fine	Middle	2	29.00	29.00	29.05	7.76	7.76	7.77	30.81	30.81	30.82	61.2	61.9	61.9	3.98	4.02	4.02	22.60	21.60	<u>21.65</u>	12	12.50
	16:25		Middle	2	29.10	29.10		7.77	7.77		30.82	30.82		62.0	62.4		4.03	4.05		21.00	21.40		13	
19/9/2011	3:10	Fine	Middle	2	28.94	28.94	28.94	7.72	7.72	7.72	32.04	32.04	32.04	77.7	77.8	77.8	5.01	5.02	5.02	8.90	8.61	8.83	10	9.50
	3:11		Middle	2	28.93	28.93		7.72	7.72		32.04	32.04		77.9	77.8		5.02	5.02		9.09	8.73		9	
22/9/2011	6:35	Fine	Middle	2	27.50	27.50	27.45	8.23	8.23	8.23	33.31	33.31	33.32	79.0	78.1	78.7	5.20	5.14	5.18	5.12	5.37	5.01	5	5.50
	6:37		Middle	2	27.40	27.40		8.23	8.23		33.33	33.33		80.5	77.3		5.30	5.09		4.64	4.91		6	
24/9/2011	11:03	Cloudy	Middle	2	27.50	27.50	27.45	8.14	8.14	8.15	32.48	32.48	32.49	70.0	68.0	69.3	4.62	4.48	4.57	8.03	7.24	7.56	6	6.50
	11:05		Middle	2	27.40	27.40		8.15	8.15		32.49	32.49		70.6	68.5		4.65	4.52		7.41	7.57		7	
26/9/2011	10:02	Cloudy	Middle	3	27.70	27.70	27.65	8.12	8.12	8.13	32.60	32.60	32.65	89.4	88.5	87.4	5.85	5.75	5.74	7.41	6.54	6.68	8	8.50
	10:05		Middle	3	27.60	27.60		8.13	8.13		32.70	32.70		87.0	84.5		5.70	5.65		6.36	6.40		9	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids					
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	10:50	Fine	Middle	2	28.10	28.10	28.15	7.95	7.95	7.96	32.11	32.11	32.12	37.9	39.1	39.6	2.48	2.55	<u>2.58</u>	4.16	4.23	4.23	10	10.00
	10:53		Middle	2	28.20	28.20		7.96	7.96		32.12	32.12		40.1	41.1		2.62	2.68		4.24	4.28		10	
1/9/2011	13:25	Fine	Middle	2	26.90	26.90	26.85	7.91	7.91	7.91	32.80	32.80	32.81	42.7	43.3	43.3	2.84	2.87	<u>2.87</u>	3.72	3.82	3.75	5	4.00
	13:28		Middle	2	26.80	26.80		7.90	7.90		32.81	32.81		43.4	43.6		2.88	2.89		3.75	3.71		3	
3/9/2011	14:28	Cloudy	Middle	2	26.60	26.60	26.65	7.92	7.92	7.92	32.21	32.21	32.22	36.7	36.0	36.9	2.45	2.41	<u>2.47</u>	4.57	4.24	4.37	6	5.00
	14:30		Middle	2	26.70	26.70		7.92	7.92		32.23	32.23		37.1	37.7		2.48	2.52		4.24	4.44		4	
5/9/2011	7:04	Cloudy	Middle	2	26.65	26.65	26.70	7.23	7.23	7.23	32.15	32.15	32.18	55.0	54.8	54.8	3.68	3.66	3.66	2.76	2.49	2.72	3	3.00
	7:05		Middle	2	26.75	26.75		7.23	7.23		32.21	32.21		54.8	54.4		3.66	3.64		2.82	2.81		3	
8/9/2011	12:27	Fine	Middle	1	27.90	27.90	27.95	7.93	7.93	7.93	32.71	32.71	32.70	67.1	65.0	66.4	4.37	4.23	4.32	2.31	2.06	2.08	5	4.50
	12:28		Middle	1	28.00	28.00		7.93	7.93		32.68	32.68		67.5	65.9		4.38	4.28		2.00	1.94		4	
10/9/2011	12:05	Fine	Middle	2	28.20	28.20	28.25	7.88	7.88	7.88	32.72	32.72	32.72	61.0	59.0	60.7	3.95	3.82	3.94	2.30	2.41	2.43	4	3.50
	12:07		Middle	2	28.30	28.30		7.88	7.88		32.72	32.72		62.1	60.8		4.03	3.94		2.52	2.48		3	
12/9/2011	13:05	Fine	Middle	1	28.50	28.50	28.55	8.04	8.04	8.03	32.34	32.34	32.37	56.7	55.3	55.9	3.67	3.58	3.62	2.52	2.53	2.53	7	5.50
	13:06		Middle	1	28.60	28.60		8.01	8.01		32.39	32.39		56.3	55.4		3.65	3.59		2.48	2.58		4	
14/9/2011	12:06	Fine	Middle	2	29.50	29.50	29.55	7.97	7.97	7.97	32.61	32.61	32.62	44.6	44.3	45.1	2.84	2.82	<u>2.87</u>	2.83	3.14	2.92	4	4.00
	12:07		Middle	2	29.60	29.60		7.97	7.97		32.62	32.62		45.6	45.9		2.90	2.92		2.88	2.84		4	
16/9/2011	16:05	Fine	Middle	2	29.30	29.30	29.25	7.97	7.97	7.97	32.17	32.17	32.18	59.3	60.5	60.7	3.82	3.88	3.90	4.23	3.82	3.97	6	5.00
	16:08		Middle	2	29.20	29.20		7.96	7.96		32.18	32.18		61.2	61.8		3.92	3.97		3.77	4.07		4	
19/9/2011	2:36	Fine	Middle	2	28.91	28.91	28.91	7.63	7.63	7.63	31.65	31.65	31.65	64.1	64.2	64.1	4.15	4.15	4.15	3.49	3.40	3.45	5	4.50
	2:37		Middle	2	28.90	28.90		7.63	7.63		31.65	31.65		64.1	64.1		4.15	4.15		3.42	3.48		4	
22/9/2011	6:17	Fine	Middle	2	27.70	27.70	27.70	8.13	8.13	8.14	33.32	33.32	33.34	47.7	47.0	47.6	3.13	3.08	3.12	6.31	6.68	6.29	11	10.00
	6:19		Middle	2	27.70	27.70		8.14	8.14		33.36	33.36		48.2	47.5		3.16	3.11		6.17	6.01		9	
24/9/2011	10:30	Cloudy	Middle	2	27.80	27.80	27.75	8.14	8.14	8.14	32.98	32.98	32.99	61.7	60.8	61.3	4.04	3.98	4.01	4.06	3.94	3.96	7	7.50
	10:32		Middle	2	27.70	27.70		8.14	8.14		32.99	32.99		62.3	60.3		4.08	3.95		4.14	3.68		8	
26/9/2011	11:53	Cloudy	Middle	2	28.10	28.10	28.15	8.15	8.15	8.15	33.07	33.07	33.08	50.2	48.4	49.7	3.26	3.14	3.23	3.71	3.81	3.66	6	7.00
	11:54		Middle	2	28.20	28.20		8.14	8.14		33.08	33.08		50.8	49.4		3.30	3.21		3.52	3.61		8	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at C1 - HKCEC  
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	11:48	Fine	Middle	1.0	27.30	27.30	27.35	7.72	7.72	7.73	31.40	31.40	31.40	79.0	78.4	78.2	5.18	5.15	5.13	1.72	1.67	1.64	4	5.00
	11:50		Middle	1.0	27.40	27.40		7.74	7.74		31.40	31.40		78.1	77.2		5.12	5.07		1.59	1.57		6	
1/9/2011	14:22	Fine	Middle	1.5	27.00	27.00	27.10	7.59	7.59	7.62	32.30	32.30	32.30	86.1	85.3	84.7	5.64	5.60	5.55	3.55	3.57	3.55	6	5.50
	14:25		Middle	1.5	27.20	27.20		7.64	7.64		32.30	32.30		84.1	83.4		5.50	5.47		3.54	3.52		5	
3/9/2011	14:59	Cloudy	Middle	2.5	27.20	27.20	27.25	7.73	7.73	7.74	32.30	32.30	32.35	78.1	76.9	76.6	5.16	5.06	5.04	2.97	3.40	3.31	6	5.50
	15:02		Middle	2.5	27.30	27.30		7.74	7.74		32.40	32.40		76.0	75.3		5.01	4.94		3.41	3.47		5	
5/9/2011	5:00	Cloudy	Middle	1.5	26.30	26.30	26.35	7.30	7.30	7.30	32.60	32.60	32.60	88.6	88.3	88.3	5.94	5.92	5.92	3.34	3.28	3.19	3	3.50
	5:01		Middle	1.5	26.40	26.40		7.29	7.29		32.60	32.60		88.1	88.0		5.90	5.90		3.09	3.04		4	
8/9/2011	10:45	Fine	Middle	2.0	28.10	28.10	28.10	7.73	7.73	7.73	32.00	32.00	32.00	83.2	83.1	83.0	5.54	5.52	5.51	3.42	3.45	3.37	5	5.00
	10:50		Middle	2.0	28.10	28.10		7.73	7.73		32.00	32.00		82.9	82.7		5.49	5.47		3.25	3.36		5	
10/9/2011	10:01	Fine	Middle	2.0	28.30	28.30	28.35	7.74	7.74	7.75	32.20	32.20	32.25	81.2	79.9	79.5	5.25	5.21	5.16	3.22	3.36	3.34	6	5.50
	10:04		Middle	2.0	28.40	28.40		7.75	7.75		32.30	32.30		78.9	78.0		5.11	5.08		3.38	3.39		5	
12/9/2011	13:00	Fine	Middle	2.0	29.10	29.10	29.05	7.80	7.80	7.80	32.10	32.10	32.15	79.2	78.2	78.0	5.08	5.03	5.01	3.48	3.71	3.60	6	6.50
	13:03		Middle	2.0	29.00	29.00		7.79	7.79		32.20	32.20		77.6	76.9		4.98	4.95		3.81	3.41		7	
14/9/2011	13:10	Fine	Middle	2.5	29.80	29.80	29.85	7.90	7.90	7.91	32.00	32.00	32.05	86.1	84.9	84.5	5.41	5.32	5.29	3.93	4.21	4.26	10	9.00
	13:13		Middle	2.5	29.90	29.90		7.91	7.91		32.10	32.10		84.4	82.4		5.30	5.11		4.51	4.37		8	
16/9/2011	13:55	Fine	Middle	1.0	29.90	29.90	29.90	7.85	7.85	7.85	32.00	32.00	32.00	81.3	80.5	80.3	5.13	5.09	5.06	5.03	5.03	4.65	7	6.00
	13:58		Middle	1.0	29.90	29.90		7.85	7.85		32.00	32.00		80.1	79.1		5.02	5.00		4.20	4.34		5	
19/9/2011	3:30	Fine	Middle	2.0	28.68	28.68	28.68	7.68	7.68	7.68	32.09	32.09	32.09	72.4	72.4	72.5	4.69	4.69	4.69	2.99	3.38	3.04	6	7.00
	3:31		Middle	2.0	28.68	28.68		7.68	7.68		32.09	32.09		72.5	72.5		4.69	4.69		3.01	2.79		8	
22/9/2011	8:25	Fine	Middle	2.0	28.20	28.20	28.25	7.99	7.99	8.00	32.60	32.60	32.55	87.3	86.9	86.5	5.65	5.60	5.60	5.75	4.89	5.13	8	7.00
	8:28		Middle	2.0	28.30	28.30		8.00	8.00		32.50	32.50		86.3	85.6		5.58	5.55		5.10	4.78		6	
24/9/2011	9:55	Cloudy	Middle	2.0	28.00	28.00	28.05	7.94	7.94	7.94	32.60	32.60	32.55	91.9	91.4	91.1	5.99	5.93	5.93	4.97	4.83	4.86	8	7.50
	9:58		Middle	2.0	28.10	28.10		7.93	7.93		32.50	32.50		90.7	90.2		5.91	5.87		5.24	4.40		7	
26/9/2011	10:22	Cloudy	Middle	2.0	27.80	27.80	27.75	8.10	8.10	8.11	32.60	32.60	32.55	90.5	90.1	87.7	5.91	5.87	5.72	5.76	5.67	5.59	9	8.00
	10:25		Middle	2.0	27.70	27.70		8.11	8.11		32.50	32.50		85.1	85.0		5.55	5.54		5.46	5.47		7	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at C2 - TH / APA / SOC  
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	11:35	Fine	Middle	1.0	27.70	27.70	27.75	7.31	7.31	7.34	31.80	31.80	31.75	71.7	73.5	72.3	4.92	4.80	4.78	3.03	2.73	2.89	2	2.00
	11:38		Middle	1.0	27.80	27.80		7.37	7.37		31.70	31.70		72.7	71.3		4.72	4.68		3.20	2.58		<2	
1/9/2011	14:05	Fine	Middle	2.0	26.70	26.70	26.75	7.15	7.15	7.18	32.20	32.20	32.25	75.1	74.4	74.2	4.96	4.96	4.91	2.91	2.48	2.67	6	5.00
	14:08		Middle	2.0	26.80	26.80		7.21	7.21		32.30	32.30		73.9	73.5		4.88	4.85		2.64	2.63		4	
3/9/2011	14:05	Cloudy	Middle	1.5	27.10	27.10	27.05	7.64	7.64	7.64	32.10	32.10	32.15	79.2	78.0	77.9	5.23	5.15	5.14	3.06	3.07	2.97	3	3.50
	14:08		Middle	1.5	27.00	27.00		7.63	7.63		32.20	32.20		77.5	76.7		5.10	5.06		2.84	2.92		4	
5/9/2011	4:29	Cloudy	Middle	1.5	26.80	26.80	26.85	7.22	7.22	7.22	32.50	32.50	32.50	76.2	76.0	75.9	5.07	5.06	5.06	1.34	1.35	1.35	2	2.00
	4:30		Middle	1.5	26.90	26.90		7.22	7.22		32.50	32.50		75.8	75.7		5.05	5.04		1.35	1.36		<2	
8/9/2011	9:30	Fine	Middle	1.5	27.00	27.00	27.00	7.57	7.57	7.58	32.50	32.50	32.50	72.5	72.4	71.6	4.77	4.75	4.75	1.89	2.01	1.96	2	2.00
	9:35		Middle	1.5	27.00	27.00		7.58	7.58		32.50	32.50		70.7	70.8		4.74	4.73		2.02	1.90		2	
10/9/2011	9:46	Fine	Middle	1.5	27.30	27.30	27.35	7.60	7.60	7.61	32.30	32.30	32.35	71.6	70.5	70.0	4.70	4.65	4.60	3.31	3.32	3.28	4	3.00
	9:49		Middle	1.5	27.40	27.40		7.61	7.61		32.40	32.40		69.7	68.1		4.57	4.49		3.17	3.31		2	
12/9/2011	12:20	Fine	Middle	1.5	28.20	28.20	28.25	7.67	7.67	7.67	32.30	32.30	32.25	81.8	81.2	80.7	5.33	5.27	5.25	5.79	5.97	5.72	3	3.50
	12:23		Middle	1.5	28.30	28.30		7.66	7.66		32.20	32.20		80.2	79.6		5.22	5.18		5.71	5.41		4	
14/9/2011	12:25	Fine	Middle	1.5	28.90	28.90	28.95	7.70	7.70	7.71	32.00	32.00	32.05	82.3	81.4	81.1	5.26	5.17	5.16	2.27	2.30	2.40	3	3.50
	12:28		Middle	1.5	29.00	29.00		7.71	7.71		32.10	32.10		80.5	80.1		5.13	5.09		2.54	2.48		4	
16/9/2011	13:40	Fine	Middle	1.0	28.80	28.80	28.90	7.68	7.68	7.69	31.90	31.90	31.90	84.9	84.0	83.6	5.47	5.41	5.38	4.91	5.04	5.04	8	7.50
	13:42		Middle	1.0	29.00	29.00		7.70	7.70		31.90	31.90		83.8	81.6		5.37	5.25		5.27	4.94		7	
19/9/2011	5:17	Fine	Middle	2.0	28.57	28.57	28.57	7.68	7.68	7.68	32.06	32.06	32.06	74.8	74.7	74.7	4.85	4.85	4.85	3.46	2.98	3.15	6	5.50
	5:18		Middle	2.0	28.57	28.57		7.68	7.68		32.06	32.06		74.7	74.6		4.84	4.84		3.15	2.99		5	
22/9/2011	8:15	Fine	Middle	1.5	27.50	27.50	27.45	7.92	7.92	7.92	32.20	32.20	32.15	52.5	52.2	52.0	3.46	3.44	3.43	3.75	2.42	2.75	5	4.00
	8:18		Middle	1.5	27.40	27.40		7.91	7.91		32.10	32.10		51.7	51.5		3.42	3.40		2.35	2.46		3	
24/9/2011	9:40	Cloudy	Middle	1.5	27.70	27.70	27.65	7.22	7.22	7.22	32.40	32.40	32.35	80.4	80.0	79.7	5.28	5.24	5.23	3.57	3.50	3.65	4	4.50
	9:43		Middle	1.5	27.60	27.60		7.21	7.21		32.30	32.30		79.4	79.1		5.20	5.18		3.79	3.73		5	
26/9/2011	10:58	Cloudy	Middle	1.5	27.70	27.70	27.65	8.04	8.04	8.05	32.40	32.40	32.35	85.3	84.6	84.6	5.56	5.53	5.52	5.58	5.38	5.44	12	11.00
	11:01		Middle	1.5	27.60	27.60		8.05	8.05		32.30	32.30		84.4	84.0		5.50	5.48		5.26	5.55		10	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.





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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	12:50	Fine	Middle	2.5	25.90	25.90	25.95	7.80	7.80	7.80	31.90	31.90	31.90	75.3	72.4	72.2	5.03	4.87	4.84	2.35	2.38	2.48	5	6.00
	12:53		Middle	2.5	26.00	26.00		7.80	7.80		31.90	31.90		71.3	69.6		4.76	4.69		2.62	2.56		7	
1/9/2011	15:10	Fine	Middle	2.5	25.90	25.90	25.90	7.79	7.79	7.79	32.40	32.40	32.40	83.9	82.9	82.3	5.60	5.56	5.50	2.90	2.19	2.36	4	4.50
	15:14		Middle	2.5	25.90	25.90		7.78	7.78		32.40	32.40		81.9	80.4		5.47	5.36		2.20	2.16		5	
3/9/2011	14:25	Cloudy	Middle	2.5	26.80	26.80	26.85	7.69	7.69	7.69	31.10	31.10	31.15	67.1	66.2	66.1	4.47	4.41	4.40	2.72	2.98	2.85	<2	2.00
	14:28		Middle	2.5	26.90	26.90		7.68	7.68		31.20	31.20		65.9	65.2		4.37	4.34		2.96	2.72		2	
5/9/2011	4:12	Cloudy	Middle	2.0	26.90	26.90	26.90	7.26	7.26	7.26	31.80	31.80	31.80	98.2	98.2	98.3	6.55	6.55	6.55	1.62	1.43	1.59	2	2.50
	4:13		Middle	2.0	26.90	26.90		7.26	7.26		31.80	31.80		98.3	98.3		6.55	6.55		1.79	1.53		3	
8/9/2011	9:45	Fine	Middle	2.5	26.60	26.60	26.60	7.72	7.72	7.72	32.40	32.40	32.40	71.5	71.1	70.7	4.59	4.57	4.56	3.34	2.77	2.89	3	4.00
	9:50		Middle	2.5	26.60	26.60		7.72	7.72		32.40	32.40		70.1	70.0		4.55	4.53		2.74	2.70		5	
10/9/2011	10:50	Fine	Middle	2.5	27.10	27.10	27.15	7.71	7.71	7.72	32.20	32.20	32.15	73.8	72.8	71.9	4.90	4.80	4.75	2.05	2.04	2.08	3	2.50
	10:53		Middle	2.5	27.20	27.20		7.72	7.72		32.10	32.10		70.9	69.9		4.70	4.61		2.19	2.03		2	
12/9/2011	12:30	Fine	Middle	2.5	27.60	27.60	27.65	7.75	7.75	7.76	32.10	32.10	32.15	78.8	77.9	77.8	5.20	5.14	5.13	4.32	4.39	4.20	4	5.50
	12:33		Middle	2.5	27.70	27.70		7.76	7.76		32.20	32.20		77.5	76.8		5.09	5.07		4.30	3.77		7	
14/9/2011	12:40	Fine	Middle	2.5	28.30	28.30	28.35	7.78	7.78	7.78	31.90	31.90	31.85	77.4	76.6	75.8	5.03	4.94	4.91	2.30	2.20	2.34	4	5.00
	12:43		Middle	2.5	28.40	28.40		7.77	7.77		31.80	31.80		75.3	73.9		4.88	4.77		2.50	2.34		6	
16/9/2011	15:10	Fine	Middle	2.5	28.90	28.90	28.85	7.78	7.78	7.78	31.70	31.70	31.70	61.2	60.8	60.6	3.94	3.90	3.89	7.90	6.70	6.85	3	4.00
	15:12		Middle	2.5	28.80	28.80		7.78	7.78		31.70	31.70		60.4	60.0		3.88	3.85		6.41	6.40		5	
19/9/2011	5:02	Fine	Middle	2.0	28.47	28.47	28.48	7.66	7.66	7.67	32.00	32.00	32.00	74.7	74.7	75.2	4.85	4.85	4.89	3.11	3.23	3.19	6	5.50
	5:03		Middle	2.0	28.49	28.49		7.67	7.67		32.00	32.00		75.4	76.0		4.90	4.94		3.19	3.21		5	
22/9/2011	9:15	Fine	Middle	2.5	27.70	27.70	27.75	8.06	8.06	8.07	32.50	32.50	32.55	82.1	81.6	81.5	5.36	5.32	5.32	5.80	6.64	6.06	7	7.50
	9:18		Middle	2.5	27.80	27.80		8.07	8.07		32.60	32.60		81.2	81.1		5.30	5.29		6.61	5.17		8	
24/9/2011	10:40	Cloudy	Middle	2.5	27.60	27.60	27.55	8.00	8.00	8.01	32.60	32.60	32.65	85.9	85.1	84.9	5.66	5.58	5.58	4.75	4.52	4.70	5	5.50
	10:43		Middle	2.5	27.50	27.50		8.01	8.01		32.70	32.70		84.4	84.0		5.56	5.52		4.88	4.63		6	
26/9/2011	10:48	Cloudy	Middle	2.5	27.60	27.60	27.55	8.05	8.05	8.05	32.40	32.40	32.35	77.8	77.3	77.1	5.09	5.08	5.06	3.46	3.01	3.17	3	4.00
	10:51		Middle	2.5	27.50	27.50		8.04	8.04		32.30	32.30		76.9	76.5		5.03	5.02		3.17	3.02		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	12:36	Fine	Middle	1.0	27.10	27.10	27.10	7.78	7.78	7.79	31.60	31.60	31.55	79.1	78.5	77.8	5.23	5.15	5.13	2.10	2.57	2.23	4	5.00
	12:38		Middle	1.0	27.10	27.10		7.79	7.79		31.50	31.50		77.3	76.4		5.11	5.03		2.33	1.91		6	
1/9/2011	14:45	Fine	Middle	1.5	26.50	26.50	26.50	7.65	7.65	7.66	32.10	32.10	32.10	76.2	75.4	75.0	5.03	4.99	4.96	2.84	2.57	2.55	7	6.00
	14:48		Middle	1.5	26.50	26.50		7.67	7.67		32.10	32.10		74.5	73.8		4.93	4.90		2.37	2.43		5	
3/9/2011	14:50	Cloudy	Middle	1.5	26.60	26.60	26.55	7.73	7.73	7.74	31.40	31.40	31.35	79.6	77.9	77.8	5.32	5.22	5.20	2.69	2.34	2.37	3	3.50
	14:53		Middle	1.5	26.50	26.50		7.74	7.74		31.30	31.30		77.4	76.1		5.16	5.09		2.10	2.33		4	
5/9/2011	3:57	Cloudy	Middle	1.5	26.70	26.70	26.70	7.17	7.17	7.17	31.90	31.90	31.90	71.6	71.6	71.5	4.79	4.79	4.79	1.78	1.51	1.54	<2	<2
	3:58		Middle	1.5	26.70	26.70		7.17	7.17		31.90	31.90		71.4	71.4		4.78	4.78		1.44	1.43		<2	
8/9/2011	9:57	Fine	Middle	1.5	27.20	27.20	27.20	7.69	7.69	7.69	32.10	32.10	32.10	70.8	70.0	69.8	4.45	4.34	4.33	2.70	2.98	2.84	3	3.50
	9:59		Middle	1.5	27.20	27.20		7.69	7.69		32.10	32.10		69.5	68.8		4.31	4.21		2.63	3.05		4	
10/9/2011	10:41	Fine	Middle	1.5	27.70	27.70	27.75	7.70	7.70	7.71	31.90	31.90	31.95	79.2	78.3	76.4	5.22	5.14	5.11	2.44	2.50	2.43	10	9.50
	10:44		Middle	1.5	27.80	27.80		7.71	7.71		32.00	32.00		72.1	75.9		5.10	4.98		2.38	2.39		9	
12/9/2011	12:45	Fine	Middle	1.5	28.20	28.20	28.25	7.81	7.81	7.82	32.10	32.10	32.15	83.0	81.5	81.4	5.40	5.32	5.31	3.22	3.25	3.13	4	4.00
	12:48		Middle	1.5	28.30	28.30		7.82	7.82		32.20	32.20		81.1	80.1		5.28	5.23		2.92	3.11		4	
14/9/2011	12:53	Fine	Middle	1.5	28.20	28.20	28.25	7.91	7.91	7.91	32.00	32.00	32.05	85.0	83.6	82.5	5.48	5.34	5.30	2.78	2.66	2.88	4	4.50
	12:56		Middle	1.5	28.30	28.30		7.90	7.90		32.10	32.10		81.5	79.7		5.26	5.10		3.09	2.99		5	
16/9/2011	14:56	Fine	Middle	1.0	29.30	29.30	29.30	7.80	7.80	7.80	31.70	31.70	31.70	73.1	72.9	72.6	4.67	4.65	4.63	4.20	4.30	4.24	7	6.00
	14:58		Middle	1.0	29.30	29.30		7.80	7.80		31.70	31.70		72.4	72.1		4.62	4.59		4.25	4.19		5	
19/9/2011	4:53	Fine	Middle	1.5	28.47	28.47	28.46	7.56	7.56	7.56	31.03	31.03	31.04	57.1	57.1	57.1	3.71	3.71	3.71	2.29	2.42	2.36	6	5.50
	4:54		Middle	1.5	28.44	28.44		7.56	7.56		31.05	31.05		57.1	57.1		3.71	3.71		2.39	2.32		5	
22/9/2011	9:06	Fine	Middle	1.5	28.00	28.00	28.05	8.03	8.03	8.03	32.40	32.40	32.35	84.4	83.5	82.9	5.51	5.43	5.40	5.12	4.63	4.82	6	6.00
	9:09		Middle	1.5	28.10	28.10		8.02	8.02		32.30	32.30		81.9	81.6		5.35	5.30		4.60	4.94		6	
24/9/2011	10:26	Cloudy	Middle	1.0	28.00	28.00	28.03	7.98	7.98	7.99	32.10	32.10	32.15	80.2	79.4	78.9	5.24	5.18	5.15	3.20	3.47	3.41	4	4.50
	10:29		Middle	1.0	28.00	28.10		7.99	7.99		32.20	32.20		78.1	77.7		5.12	5.07		3.28	3.69		5	
26/9/2011	10:43	Cloudy	Middle	1.0	27.60	27.60	27.55	8.02	8.02	8.02	32.40	32.40	32.35	82.4	81.9	81.4	5.42	5.37	5.47	3.82	3.52	3.59	5	6.00
	10:46		Middle	1.0	27.50	27.50		8.01	8.01		32.30	32.30		81.1	80.0		5.31	5.77		3.55	3.46		7	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at C4w - WCT / GEC  
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	12:40	Fine	Middle	1.0	26.70	26.70	26.60	7.79	7.79	7.79	31.70	31.70	31.70	79.8	79.6	79.1	5.31	5.27	5.26	2.42	2.64	2.39	5	6.00
	12:43		Middle	1.0	26.50	26.50		7.78	7.78		31.70	31.70		78.8	78.3		5.24	5.20		2.15	2.34		7	
1/9/2011	14:55	Fine	Middle	1.0	26.50	26.50	26.50	7.73	7.73	7.73	32.20	32.20	32.20	85.7	85.0	84.1	5.68	5.64	5.58	2.44	2.75	2.54	6	5.50
	14:58		Middle	1.0	26.50	26.50		7.72	7.72		32.20	32.20		83.0	82.6		5.51	5.47		2.54	2.42		5	
3/9/2011	14:40	Cloudy	Middle	1.0	26.70	26.70	26.75	7.59	7.59	7.60	30.80	30.80	30.75	68.6	67.2	66.8	4.57	4.52	4.47	1.27	1.41	1.31	2	2.50
	14:43		Middle	1.0	26.80	26.80		7.60	7.60		30.70	30.70		66.7	64.6		4.43	4.35		1.28	1.28		3	
5/9/2011	4:01	Cloudy	Middle	1.5	26.80	26.80	26.80	7.15	7.15	7.15	32.00	32.00	32.00	58.4	58.0	57.8	3.90	3.88	3.86	1.14	0.92	0.97	<2	<2
	4:02		Middle	1.5	26.80	26.80		7.15	7.15		32.00	32.00		57.4	57.2		3.83	3.82		0.93	0.89		<2	
8/9/2011	9:52	Fine	Middle	1.0	27.10	27.10	27.10	7.71	7.71	7.71	32.10	32.10	32.10	71.9	71.6	71.0	4.95	4.89	4.88	4.16	3.80	3.89	9	8.00
	9:55		Middle	1.0	27.10	27.10		7.71	7.71		32.10	32.10		70.5	69.9		4.86	4.80		3.87	3.71		7	
10/9/2011	10:36	Fine	Middle	1.0	27.60	27.60	27.65	7.61	7.61	7.62	31.50	31.50	31.55	69.2	68.4	67.4	4.59	4.48	4.45	1.17	1.08	1.11	8	7.00
	10:39		Middle	1.0	27.70	27.70		7.62	7.62		31.60	31.60		66.8	65.3		4.41	4.30		1.07	1.13		6	
12/9/2011	12:40	Fine	Middle	1.0	28.10	28.10	28.15	7.78	7.78	7.79	32.00	32.00	32.05	77.1	76.3	76.1	5.02	5.00	4.97	3.02	3.05	3.08	3	3.00
	12:43		Middle	1.0	28.20	28.20		7.79	7.79		32.10	32.10		75.7	75.1		4.94	4.91		3.26	3.00		3	
14/9/2011	12:48	Fine	Middle	1.0	29.00	29.00	28.95	7.84	7.84	7.84	31.90	31.90	31.85	73.2	72.1	71.1	4.72	4.63	4.57	3.05	2.79	2.95	3	4.00
	12:51		Middle	1.0	28.90	28.90		7.83	7.83		31.80	31.80		69.8	69.1		4.50	4.43		2.97	3.00		5	
16/9/2011	14:50	Fine	Middle	1.0	29.60	29.60	29.60	7.78	7.78	7.79	31.60	31.60	31.60	77.1	76.2	75.7	4.87	4.84	4.80	5.38	4.99	5.18	11	10.50
	14:52		Middle	1.0	29.60	29.60		7.79	7.79		31.60	31.60		75.2	74.3		4.76	4.72		5.08	5.25		10	
19/9/2011	4:58	Fine	Middle	1.5	28.41	28.41	28.41	7.47	7.47	7.47	31.42	31.42	31.42	52.3	52.2	52.1	3.41	3.41	3.40	1.80	1.58	1.68	7	6.00
	4:59		Middle	1.5	28.41	28.41		7.47	7.47		31.42	31.42		52.0	52.0		3.39	3.39		1.60	1.74		5	
22/9/2011	9:00	Fine	Middle	1.5	27.90	27.90	27.95	8.01	8.01	8.02	32.30	32.30	32.25	82.6	82.1	81.7	5.37	5.33	5.31	5.03	5.02	4.96	7	8.00
	9:03		Middle	1.5	28.00	28.00		8.02	8.02		32.20	32.20		81.4	80.8		5.30	5.25		4.96	4.84		9	
24/9/2011	10:20	Cloudy	Middle	1.0	27.70	27.70	27.75	7.85	7.85	7.86	32.00	32.00	32.05	65.0	64.4	63.8	4.27	4.20	4.19	0.97	0.98	0.97	<2	2.00
	10:23		Middle	1.0	27.80	27.80		7.86	7.86		32.10	32.10		63.4	62.5		4.17	4.10		0.93	1.00		2	
26/9/2011	10:33	Cloudy	Middle	1.0	27.80	27.80	27.75	8.03	8.03	8.03	32.40	32.40	32.35	77.9	77.2	77.2	5.11	5.07	5.06	2.72	2.71	2.71	6	6.50
	10:36		Middle	1.0	27.70	27.70		8.02	8.02		32.30	32.30		77.1	76.6		5.04	5.01		2.76	2.64		7	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
29/8/2011	12:18	Fine	Middle	1.0	27.40	27.40	27.40	7.76	7.76	7.76	30.10	30.10	30.15	72.2	72.0	71.5	4.80	4.77	4.72	2.95	3.24	3.03	4	4.50
	12:20		Middle	1.0	27.40	27.40		7.76	7.76		30.20	30.20		71.5	70.3		4.70	4.62		3.05	2.89		5	
1/9/2011	12:55	Fine	Middle	1.0	27.00	27.00	27.05	8.07	8.07	8.06	32.27	32.27	32.28	72.5	72.9	73.0	4.82	4.84	4.85	4.30	4.18	4.29	4	4.00
	12:58		Middle	1.0	27.10	27.10		8.05	8.05		32.28	32.28		73.3	73.2		4.87	4.86		4.39	4.28		4	
3/9/2011	15:35	Cloudy	Middle	1.0	27.50	27.50	27.55	7.79	7.79	7.80	31.10	31.10	31.15	76.2	75.9	75.3	5.03	4.99	4.97	9.04	9.08	8.96	9	9.00
	15:38		Middle	1.0	27.60	27.60		7.80	7.80		31.20	31.20		74.8	74.3		4.94	4.90		8.79	8.93		9	
5/9/2011	3:15	Cloudy	Middle	1.5	26.58	26.58	26.54	7.19	7.19	7.19	32.50	32.50	32.50	66.8	66.8	66.7	4.47	4.47	4.46	2.00	1.97	1.90	2	2.00
	3:16		Middle	1.5	26.50	26.50		7.19	7.19		32.50	32.50		66.6	66.6		4.46	4.45		1.75	1.87		2	
8/9/2011	10:20	Fine	Middle	1.0	28.20	28.20	28.20	7.71	7.71	7.71	30.50	30.50	30.50	71.1	70.8	70.2	4.95	4.92	4.90	1.82	1.73	1.77	3	2.50
	10:25		Middle	1.0	28.20	28.20		7.71	7.71		30.50	30.50		69.7	69.2		4.88	4.84		1.82	1.69		2	
10/9/2011	10:28	Fine	Middle	1.0	28.20	28.20	28.25	7.76	7.76	7.77	31.50	31.50	31.55	82.6	80.2	79.7	5.32	5.29	5.20	2.48	2.89	2.58	6	5.50
	10:31		Middle	1.0	28.30	28.30		7.77	7.77		31.60	31.60		78.7	77.3		5.12	5.06		2.43	2.50		5	
12/9/2011	11:29	Fine	Middle	1.5	28.50	28.50	28.55	7.98	7.98	7.98	30.86	30.86	30.88	63.7	62.8	63.6	4.16	4.10	4.15	2.55	2.89	2.56	4	4.00
	11:31		Middle	1.5	28.60	28.60		7.97	7.97		30.89	30.89		64.9	63.1		4.23	4.11		2.27	2.53		4	
14/9/2011	11:22	Fine	Middle	1.0	29.70	29.70	29.80	8.07	8.07	8.07	32.56	32.56	32.56	66.8	65.3	66.5	4.23	4.13	4.21	2.43	2.31	2.42	3	2.50
	11:23		Middle	1.0	29.90	29.90		8.07	8.07		32.55	32.55		67.4	66.6		4.26	4.22		2.41	2.53		2	
16/9/2011	14:36	Fine	Middle	1.0	29.80	29.80	29.85	7.82	7.82	7.82	30.10	30.10	30.10	68.6	67.4	66.9	4.35	4.29	4.25	5.14	5.02	4.95	3	3.50
	14:38		Middle	1.0	29.90	29.90		7.82	7.82		30.10	30.10		66.2	65.2		4.20	4.15		4.82	4.80		4	
19/9/2011	4:02	Fine	Middle	1.5	28.47	28.47	28.48	7.65	7.65	7.65	30.62	30.62	30.62	77.3	77.5	77.6	5.06	5.08	5.08	2.75	2.70	2.79	8	7.50
	4:03		Middle	1.5	28.48	28.48		7.65	7.65		30.62	30.62		77.7	77.8		5.09	5.10		3.01	2.70		7	
22/9/2011	8:47	Fine	Middle	1.0	28.50	28.50	28.55	7.96	7.96	7.97	30.70	30.70	30.75	78.0	77.1	77.0	5.08	5.05	5.03	3.89	4.12	3.85	4	3.50
	8:50		Middle	1.0	28.60	28.60		7.97	7.97		30.80	30.80		76.6	76.2		5.01	4.96		3.78	3.62		3	
24/9/2011	10:08	Cloudy	Middle	1.0	27.50	27.50	27.45	8.18	8.18	8.19	31.69	31.69	31.70	64.6	63.2	64.4	4.27	4.19	4.26	4.52	4.47	4.14	5	5.50
	10:10		Middle	1.0	27.40	27.40		8.19	8.19		31.71	31.71		65.3	64.4		4.32	4.27		3.69	3.87		6	
26/9/2011	10:03	Cloudy	Middle	1.0	27.50	27.50	27.50	8.19	8.19	8.19	32.05	32.05	32.06	69.2	69.8	69.9	4.58	4.60	4.62	3.90	3.83	3.92	6	7.00
	10:05		Middle	1.0	27.50	27.50		8.19	8.19		32.06	32.06		70.9	69.6		4.69	4.61		3.86	4.09		8	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	12:25	Fine	Middle	1.0	27.20	27.20	27.20	7.76	7.76	7.77	30.20	30.20	30.15	84.7	82.6	82.2	5.65	5.47	5.45	2.30	1.97	1.96	4	4.00
	12:28		Middle	1.0	27.20	27.20		7.77	7.77		30.10	30.10		81.6	80.0		5.37	5.30		1.82	1.75		4	
1/9/2011	13:04	Fine	Middle	1.0	27.30	27.30	27.25	7.99	7.99	8.00	32.77	32.77	32.78	70.4	69.6	70.5	4.64	4.59	4.65	3.98	3.91	4.07	5	4.50
	13:06		Middle	1.0	27.20	27.20		8.00	8.00		32.78	32.78		71.2	70.9		4.69	4.67		4.16	4.24		4	
3/9/2011	15:45	Cloudy	Middle	1.0	27.30	27.30	27.35	7.70	7.70	7.71	31.60	31.60	31.65	67.1	65.4	65.0	4.43	4.29	4.28	3.28	3.16	3.15	4	4.00
	15:47		Middle	1.0	27.40	27.40		7.71	7.71		31.70	31.70		64.4	63.2		4.26	4.15		3.06	3.09		4	
5/9/2011	3:21	Cloudy	Middle	1.5	26.50	26.50	26.45	7.17	7.17	7.17	32.50	32.50	32.50	63.2	62.7	62.2	4.24	4.20	4.17	1.97	1.79	1.83	2	2.00
	3:22		Middle	1.5	26.40	26.40		7.17	7.17		32.50	32.50		61.6	61.4		4.13	4.11		1.87	1.69		<2	
8/9/2011	10:27	Fine	Middle	1.0	28.30	28.30	28.30	7.68	7.68	7.68	30.60	30.60	30.60	80.5	80.0	78.6	4.91	4.87	4.86	1.41	1.49	1.53	<2	3.00
	10:30		Middle	1.0	28.30	28.30		7.68	7.68		30.60	30.60		77.4	76.3		4.84	4.80		1.64	1.57		3	
10/9/2011	10:22	Fine	Middle	1.0	28.30	28.30	28.35	7.77	7.77	7.78	30.60	30.60	30.65	78.4	76.1	75.6	5.10	5.01	4.95	1.68	2.23	2.07	6	5.50
	10:25		Middle	1.0	28.40	28.40		7.78	7.78		30.70	30.70		75.0	72.7		4.88	4.81		2.31	2.04		5	
12/9/2011	11:22	Fine	Middle	1.5	28.50	28.50	28.60	7.99	7.99	7.99	30.79	30.79	30.77	61.6	61.1	61.5	4.02	3.98	4.01	3.67	3.77	3.30	3	2.50
	11:24		Middle	1.5	28.70	28.70		7.98	7.98		30.74	30.74		62.3	61.1		4.06	3.98		3.12	2.63		2	
14/9/2011	11:27	Fine	Middle	1.0	29.60	29.60	29.65	8.06	8.06	8.07	32.60	32.60	32.60	69.9	68.9	69.5	4.43	4.37	4.41	2.59	2.73	2.60	8	8.00
	11:28		Middle	1.0	29.70	29.70		8.07	8.07		32.59	32.59		70.3	68.8		4.48	4.36		2.52	2.55		8	
16/9/2011	14:24	Fine	Middle	1.0	30.10	30.10	30.15	7.82	7.82	7.82	30.20	30.20	30.30	77.1	75.0	74.3	4.83	4.73	4.69	3.59	3.15	3.40	3	3.50
	14:26		Middle	1.0	30.20	30.20		7.82	7.82		30.40	30.40		73.1	71.8		4.62	4.56		3.35	3.52		4	
19/9/2011	4:06	Fine	Middle	1.5	28.54	28.54	28.54	7.65	7.65	7.65	30.79	30.79	30.79	67.0	67.0	66.1	4.38	4.38	4.32	3.38	3.41	3.40	5	5.00
	4:07		Middle	1.5	28.54	28.54		7.65	7.65		30.79	30.79		65.4	65.0		4.27	4.25		3.63	3.16		5	
22/9/2011	8:53	Fine	Middle	1.0	28.70	28.70	28.65	7.98	7.98	7.99	31.10	31.10	31.05	83.4	82.0	81.7	5.43	5.33	5.31	3.83	3.77	3.97	3	3.50
	8:56		Middle	1.0	28.60	28.60		7.99	7.99		31.00	31.00		81.3	80.2		5.29	5.20		4.27	3.99		4	
24/9/2011	10:03	Cloudy	Middle	1.0	27.50	27.50	27.45	8.19	8.19	8.19	32.05	32.05	32.06	69.2	69.8	69.9	4.58	4.60	4.62	3.90	3.83	3.92	5	4.50
	10:05		Middle	1.0	27.40	27.40		8.19	8.19		32.06	32.06		70.9	69.6		4.69	4.61		3.86	4.09		4	
26/9/2011	10:08	Cloudy	Middle	1.0	27.50	27.50	27.50	8.18	8.18	8.19	31.69	31.69	31.70	64.6	63.2	64.4	4.27	4.19	4.26	4.52	4.47	4.14	6	5.50
	10:10		Middle	1.0	27.50	27.50		8.19	8.19		31.71	31.71		65.3	64.4		4.32	4.27		3.69	3.87		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	12:07	Fine	Middle	2.0	26.90	26.90	26.95	7.77	7.77	7.77	31.70	31.70	31.70	66.7	66.1	65.7	4.44	4.41	4.36	3.53	2.75	3.02	5	4.00
	12:10		Middle	2.0	27.00	27.00		7.77	7.77		31.70	31.70		65.3	64.8		4.30	4.28		2.84	2.94		3	
1/9/2011	13:11	Fine	Middle	1.5	26.90	26.90	26.95	7.98	7.98	7.98	33.07	33.07	33.06	69.2	69.9	69.7	4.59	4.61	4.62	3.69	3.96	3.94	7	6.00
	13:14		Middle	1.5	27.00	27.00		7.97	7.97		33.04	33.04		70.1	69.7		4.66	4.62		3.67	4.45		5	
3/9/2011	15:20	Cloudy	Middle	2.0	27.10	27.10	27.05	7.73	7.73	7.74	32.10	32.10	32.15	79.5	78.8	78.1	5.26	5.19	5.16	3.07	2.67	2.80	5	4.00
	15:23		Middle	2.0	27.00	27.00		7.74	7.74		32.20	32.20		77.5	76.7		5.13	5.06		2.63	2.83		3	
5/9/2011	3:05	Cloudy	Middle	2.0	26.80	26.80	26.80	7.22	7.22	7.22	32.20	32.20	32.20	67.8	67.7	67.6	4.52	4.51	4.51	2.73	2.37	2.61	2	2.50
	3:06		Middle	2.0	26.80	26.80		7.22	7.22		32.20	32.20		67.5	67.4		4.50	4.49		3.05	2.29		3	
8/9/2011	10:10	Fine	Middle	1.5	27.70	27.70	27.70	7.12	7.12	7.12	32.00	32.00	32.00	79.6	78.9	78.1	4.93	4.90	4.89	1.90	2.23	1.98	4	3.00
	10:15		Middle	1.5	27.70	27.70		7.12	7.12		32.00	32.00		77.1	76.6		4.87	4.84		1.89	1.89		2	
10/9/2011	10:15	Fine	Middle	1.5	27.80	27.80	27.85	7.75	7.75	7.76	32.10	32.10	32.15	79.6	78.7	78.4	5.21	5.17	5.14	2.85	2.26	2.43	6	5.50
	10:18		Middle	1.5	27.90	27.90		7.76	7.76		32.20	32.20		77.9	77.2		5.10	5.07		2.30	2.31		5	
12/9/2011	11:42	Fine	Middle	2.0	28.50	28.50	28.55	8.04	8.04	8.04	32.98	32.98	32.97	71.5	72.6	71.9	4.61	4.68	4.63	3.24	3.08	3.10	10	7.50
	11:47		Middle	2.0	28.60	28.60		8.03	8.03		32.96	32.96		72.8	70.6		4.69	4.55		3.06	3.01		5	
14/9/2011	11:35	Fine	Middle	2.0	29.10	29.10	29.20	8.04	8.04	8.03	32.84	32.84	32.83	59.8	59.3	59.5	3.82	3.78	3.80	2.85	2.66	2.68	5	4.50
	11:39		Middle	2.0	29.30	29.30		8.02	8.02		32.82	32.82		60.2	58.8		3.84	3.75		2.56	2.65		4	
16/9/2011	14:12	Fine	Middle	1.5	29.80	29.80	29.80	7.80	7.80	7.81	31.70	31.70	31.70	81.0	80.0	79.4	5.11	5.06	5.01	2.82	2.79	2.77	6	7.00
	14:14		Middle	1.5	29.80	29.80		7.81	7.81		31.70	31.70		79.2	77.2		4.98	4.90		2.71	2.75		8	
19/9/2011	3:50	Fine	Middle	2.0	28.58	28.58	28.60	7.66	7.66	7.66	32.08	32.08	32.08	70.2	70.4	70.4	4.55	4.56	4.56	3.01	3.16	3.08	3	4.00
	3:51		Middle	2.0	28.61	28.61		7.66	7.66		32.07	32.07		70.5	70.6		4.57	4.57		3.24	2.91		5	
22/9/2011	8:37	Fine	Middle	2.0	28.20	28.20	28.25	8.01	8.01	8.02	32.30	32.30	32.25	83.0	82.4	82.2	5.39	5.37	5.35	6.42	6.32	6.38	7	8.00
	8:40		Middle	2.0	28.30	28.30		8.02	8.02		32.20	32.20		82.0	81.4		5.32	5.31		6.54	6.24		9	
24/9/2011	10:10	Cloudy	Middle	2.0	28.10	28.10	28.15	7.99	7.99	7.99	32.30	32.30	32.25	84.3	83.4	82.8	5.49	5.42	5.40	3.69	4.33	4.08	8	8.00
	10:13		Middle	2.0	28.20	28.20		7.98	7.98		32.20	32.20		82.2	81.4		5.37	5.30		4.15	4.16		8	
26/9/2011	11:08	Cloudy	Middle	1.5	27.90	27.90	27.90	8.22	8.22	8.23	33.39	33.39	33.40	72.4	71.9	71.5	4.72	4.69	4.67	4.54	4.88	4.70	7	6.00
	11:10		Middle	1.5	27.90	27.90		8.23	8.23		33.40	33.40		70.8	71.0		4.62	4.63		4.66	4.73		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	12:35	Fine	Middle	1.5	28.50	28.50	28.45	8.01	8.01	8.01	32.41	32.41	32.42	73.4	73.7	74.3	4.75	4.77	4.81	2.26	2.27	2.29	5	4.50
	12:38		Middle	1.5	28.40	28.40		8.00	8.00		32.42	32.42		74.9	75.2		4.84	4.87		2.40	2.24		4	
1/9/2011	12:34	Fine	Middle	2.0	27.40	27.40	27.50	7.93	7.93	7.93	33.09	33.09	33.06	71.4	70.7	72.3	4.65	4.61	4.71	6.64	7.00	6.81	7	8.00
	12:37		Middle	2.0	27.60	27.60		7.93	7.93		33.03	33.03		75.0	72.2		4.88	4.70		6.89	6.71		9	
3/9/2011	15:43	Cloudy	Middle	2.0	26.10	26.10	26.10	7.98	7.98	7.98	32.76	32.76	32.76	51.4	52.5	52.3	3.46	3.53	3.52	5.48	5.59	5.73	5	6.00
	15:45		Middle	2.0	26.10	26.10		7.98	7.98		32.75	32.75		52.0	53.2		3.50	3.58		6.14	5.71		7	
5/9/2011	5:09	Cloudy	Middle	1.5	26.40	26.40	26.43	7.20	7.20	7.20	32.39	32.39	32.39	80.2	80.0	79.4	5.35	5.32	5.30	3.48	3.60	3.39	4	4.00
	5:10		Middle	1.5	26.46	26.46		7.20	7.20		32.39	32.39		78.9	78.6		5.28	5.26		3.03	3.46		4	
8/9/2011	11:22	Fine	Middle	1.0	27.70	27.70	27.85	8.00	8.00	8.01	32.57	32.57	32.60	75.1	74.2	75.1	4.88	4.81	4.86	6.92	7.13	6.67	7	8.00
	11:25		Middle	1.0	28.00	28.00		8.02	8.02		32.63	32.63		76.4	74.6		4.94	4.82		6.60	6.03		9	
10/9/2011	8:06	Fine	Middle	1.5	26.90	26.90	26.95	7.81	7.81	7.83	32.91	32.91	32.90	68.6	67.3	68.2	4.55	4.46	4.52	8.92	8.50	8.72	11	11.50
	8:08		Middle	1.5	27.00	27.00		7.84	7.84		32.89	32.89		69.1	67.6		4.58	4.48		8.42	9.04		12	
12/9/2011	9:32	Fine	Middle	1.5	27.50	27.50	27.50	7.92	7.92	7.92	32.91	32.91	32.91	52.3	51.7	51.8	3.44	3.40	3.41	6.27	6.26	5.95	9	10.00
	9:34		Middle	1.5	27.50	27.50		7.92	7.92		32.91	32.91		51.9	51.4		3.41	3.38		5.36	5.89		11	
14/9/2011	10:47	Fine	Middle	2.0	28.10	28.10	28.05	7.95	7.95	7.95	32.64	32.64	32.65	49.6	49.8	49.7	3.24	3.25	3.24	7.67	7.77	8.06	10	11.00
	10:51		Middle	2.0	28.00	28.00		7.95	7.95		32.66	32.66		49.6	49.8		3.23	3.23		8.30	8.51		12	
16/9/2011	12:40	Fine	Middle	1.5	28.90	28.90	28.95	7.90	7.90	7.91	32.53	32.53	32.53	64.2	65.1	65.0	4.11	4.18	4.17	7.78	7.40	7.65	7	8.00
	12:43		Middle	1.5	29.00	29.00		7.91	7.91		32.52	32.52		65.0	65.7		4.18	4.22		8.17	7.23		9	
19/9/2011	5:25	Fine	Middle	1.5	28.37	28.37	28.37	7.58	7.58	7.58	31.87	31.87	31.87	66.5	66.4	66.4	4.33	4.32	4.32	4.89	4.52	4.99	8	8.00
	5:26		Middle	1.5	28.36	28.36		7.58	7.58		31.87	31.87		66.4	66.4		4.32	4.32		5.12	5.44		8	
22/9/2011	5:26	Fine	Middle	1.5	26.90	26.90	26.90	8.20	8.20	8.20	33.23	33.23	33.25	85.5	84.4	85.1	5.66	5.59	5.64	2.07	1.99	1.95	5	5.00
	5:30		Middle	1.5	26.90	26.90		8.20	8.20		33.26	33.26		86.2	84.1		5.72	5.58		1.83	1.92		5	
24/9/2011	6:30	Cloudy	Middle	2.0	27.40	27.40	27.35	8.13	8.13	8.13	33.24	33.24	33.27	81.8	80.1	81.5	5.40	5.29	5.39	2.07	2.33	2.17	4	5.00
	6:34		Middle	2.0	27.30	27.30		8.13	8.13		33.30	33.30		82.7	81.4		5.47	5.39		2.04	2.22		6	
26/9/2011	9:03	Cloudy	Middle	1.5	27.00	27.00	26.95	8.16	8.16	8.16	33.39	33.39	33.40	77.0	75.0	76.6	5.11	4.97	5.08	6.24	6.12	6.04	8	9.00
	9:08		Middle	1.5	26.90	26.90		8.16	8.16		33.40	33.40		78.4	76.0		5.19	5.04		5.76	6.02		10	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	12:15	Fine	Middle	1.5	27.60	27.60	27.65	8.02	8.02	8.03	32.11	32.11	32.12	69.0	69.9	69.5	4.54	4.60	4.57	2.47	3.26	2.70	5	5.00
	12:18		Middle	1.5	27.70	27.70		8.03	8.03		32.12	32.12		69.7	69.4		4.58	4.56		2.55	2.52		5	
1/9/2011	12:12	Fine	Middle	1.5	27.10	27.10	27.15	7.99	7.99	8.01	32.59	32.59	32.53	75.7	73.5	74.9	4.96	4.83	4.93	6.66	6.83	6.45	5	5.50
	12:15		Middle	1.5	27.20	27.20		8.02	8.02		32.47	32.47		76.5	74.0		5.04	4.87		6.19	6.12		6	
3/9/2011	15:28	Cloudy	Middle	1.5	26.20	26.20	26.25	8.09	8.09	8.09	32.73	32.73	32.75	77.1	76.6	77.0	5.17	5.14	5.16	4.04	4.21	4.15	9	8.50
	15:30		Middle	1.5	26.30	26.30		8.08	8.08		32.76	32.76		78.0	76.2		5.23	5.11		4.35	3.99		8	
5/9/2011	4:55	Cloudy	Middle	1.5	27.70	27.70	27.70	7.44	7.44	7.44	32.04	32.04	32.04	93.3	93.3	93.3	6.13	6.12	6.13	2.77	3.13	2.79	4	3.00
	4:56		Middle	1.5	27.70	27.70		7.44	7.44		32.04	32.04		93.3	93.3		6.13	6.13		2.55	2.71		2	
8/9/2011	11:00	Fine	Middle	1.0	27.60	27.60	27.70	8.03	8.03	8.03	32.46	32.46	32.44	76.6	75.1	77.0	5.02	4.92	5.05	4.72	4.93	4.80	8	7.00
	11:02		Middle	1.0	27.80	27.80		8.02	8.02		32.42	32.42		78.7	77.7		5.16	5.09		4.30	5.23		6	
10/9/2011	7:50	Fine	Middle	1.5	26.80	26.80	26.75	7.89	7.89	7.89	32.62	32.62	32.63	65.2	63.9	64.4	4.34	4.26	4.29	2.93	3.00	2.94	4	5.00
	7:52		Middle	1.5	26.70	26.70		7.88	7.88		32.63	32.63		65.5	62.9		4.36	4.19		3.34	2.50		6	
12/9/2011	9:22	Fine	Middle	1.5	27.50	27.50	27.55	7.87	7.87	7.88	32.45	32.45	32.47	72.2	71.3	71.8	4.75	4.69	4.72	4.14	3.94	4.15	8	8.00
	9:24		Middle	1.5	27.60	27.60		7.89	7.89		32.48	32.48		73.1	70.6		4.81	4.64		4.35	4.15		8	
14/9/2011	10:30	Fine	Middle	1.5	27.80	27.80	27.85	7.93	7.93	7.94	32.06	32.06	32.13	76.8	75.6	76.4	5.04	4.96	5.01	5.54	5.58	5.25	11	10.00
	10:32		Middle	1.5	27.90	27.90		7.94	7.94		32.19	32.19		77.4	75.9		5.07	4.98		5.03	4.85		9	
16/9/2011	12:20	Fine	Middle	1.5	28.50	28.50	28.55	7.99	7.99	7.99	32.00	32.00	32.01	75.2	75.8	75.6	4.88	4.92	4.91	7.21	7.11	7.43	12	11.00
	12:23		Middle	1.5	28.60	28.60		7.98	7.98		32.01	32.01		75.9	75.5		4.93	4.90		7.82	7.59		10	
19/9/2011	5:00	Fine	Middle	1.5	28.68	28.68	28.68	7.69	7.69	7.69	31.95	31.95	31.96	69.6	69.6	69.6	4.51	4.51	4.51	7.16	7.68	7.26	8	7.00
	5:01		Middle	1.5	28.68	28.68		7.69	7.69		31.96	31.96		69.6	69.6		4.50	4.50		7.11	7.08		6	
22/9/2011	5:07	Fine	Middle	1.5	27.70	27.70	27.65	8.04	8.04	8.07	33.27	33.27	33.30	78.5	77.7	78.3	5.14	5.09	5.13	1.67	1.53	1.82	4	5.00
	5:10		Middle	1.5	27.60	27.60		8.09	8.09		33.33	33.33		79.1	77.9		5.19	5.11		2.65	1.43		6	
24/9/2011	6:10	Cloudy	Middle	1.5	27.80	27.80	27.80	8.13	8.13	8.15	33.60	33.60	33.61	82.1	80.1	81.4	5.35	5.22	5.31	1.84	1.88	1.84	4	5.00
	6:12		Middle	1.5	27.80	27.80		8.16	8.16		33.61	33.61		82.4	80.9		5.38	5.28		1.71	1.92		6	
26/9/2011	8:45	Cloudy	Middle	1.5	27.30	27.30	27.30	8.25	8.25	8.25	33.74	33.74	33.74	85.7	84.5	85.0	5.63	5.55	5.59	5.66	5.45	5.61	11	10.00
	8:48		Middle	1.5	27.30	27.30		8.25	8.25		33.74	33.74		85.2	84.5		5.60	5.56		5.57	5.75		9	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.





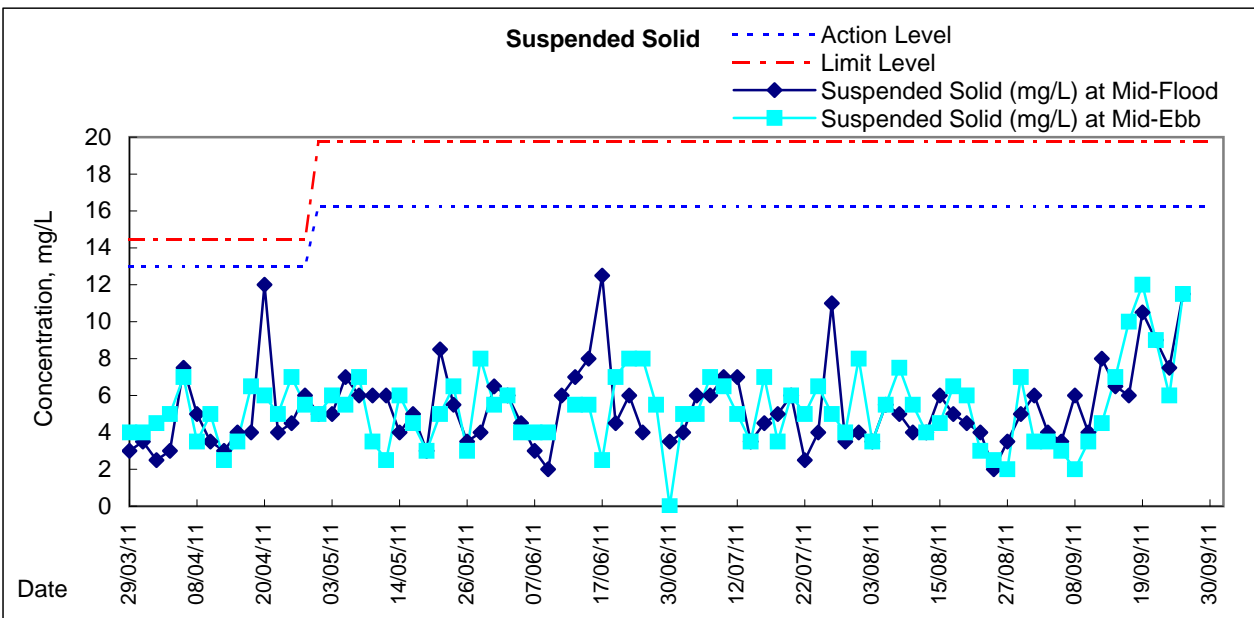
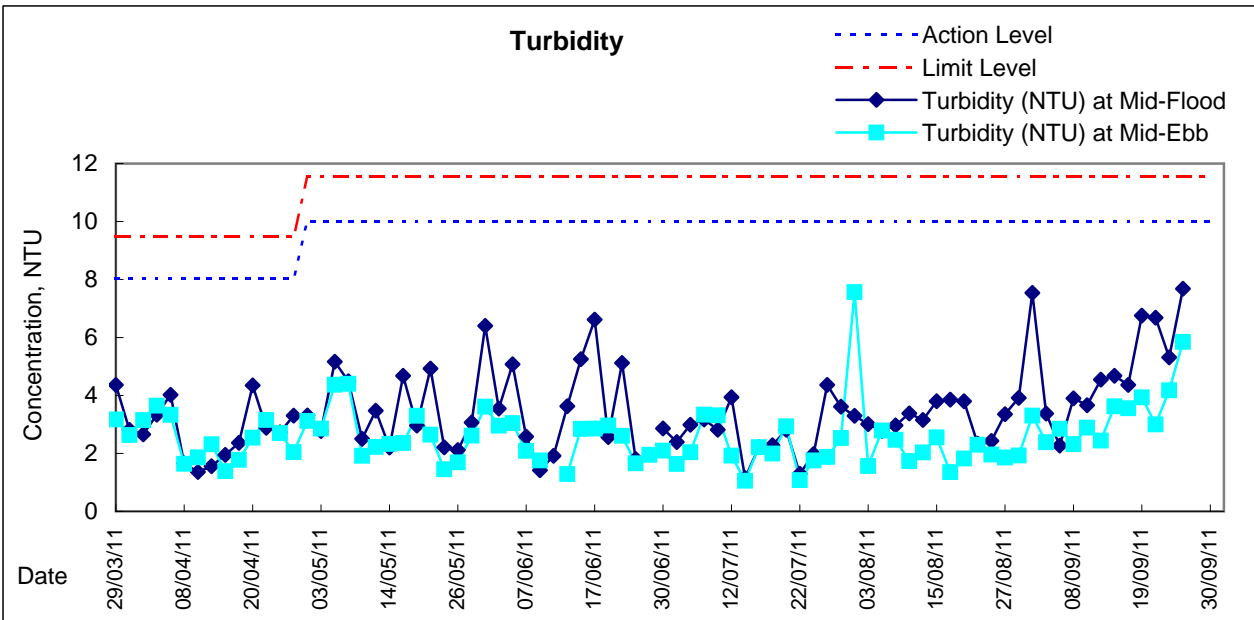
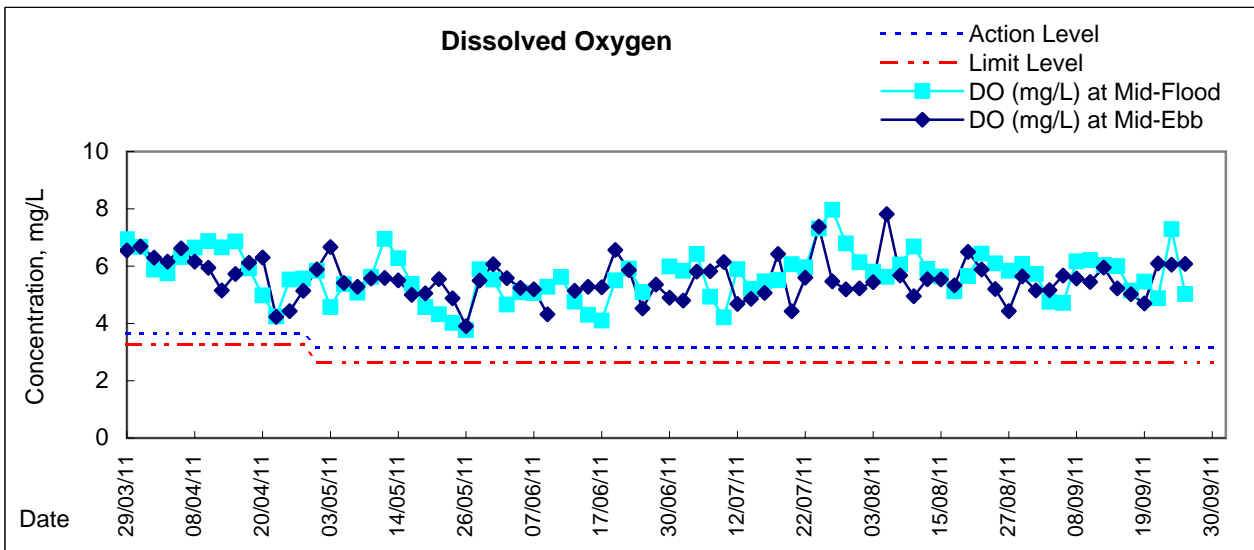
**Water Monitoring Result at WSD7 - Kowloon South  
Mid-Ebb Tide**

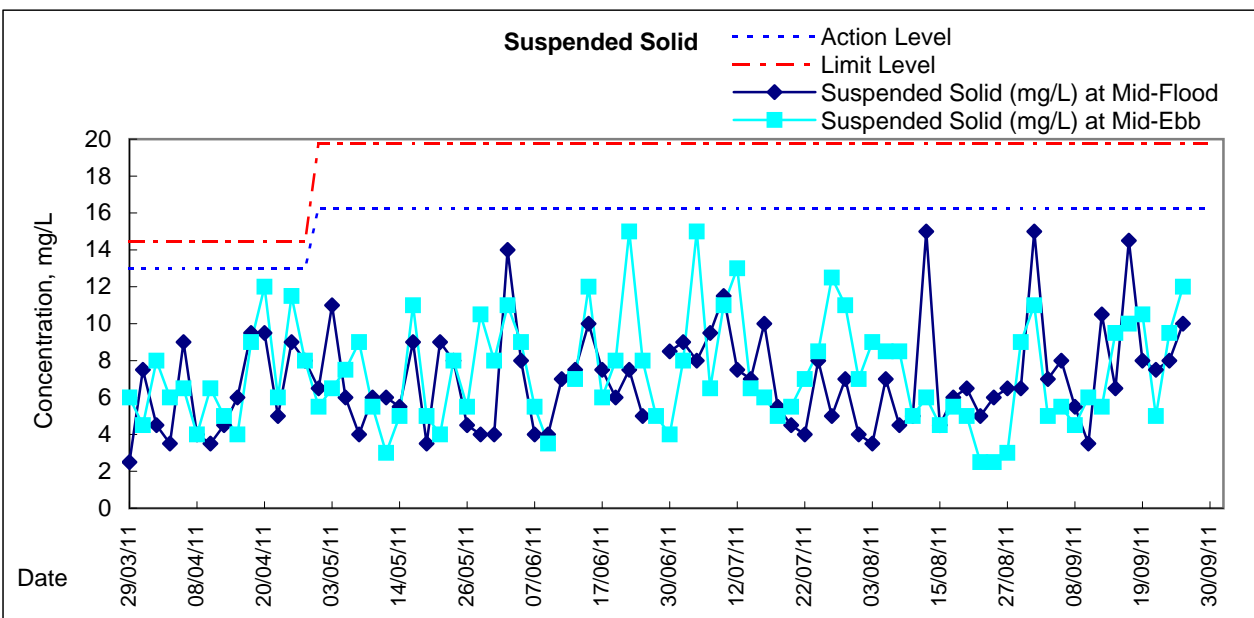
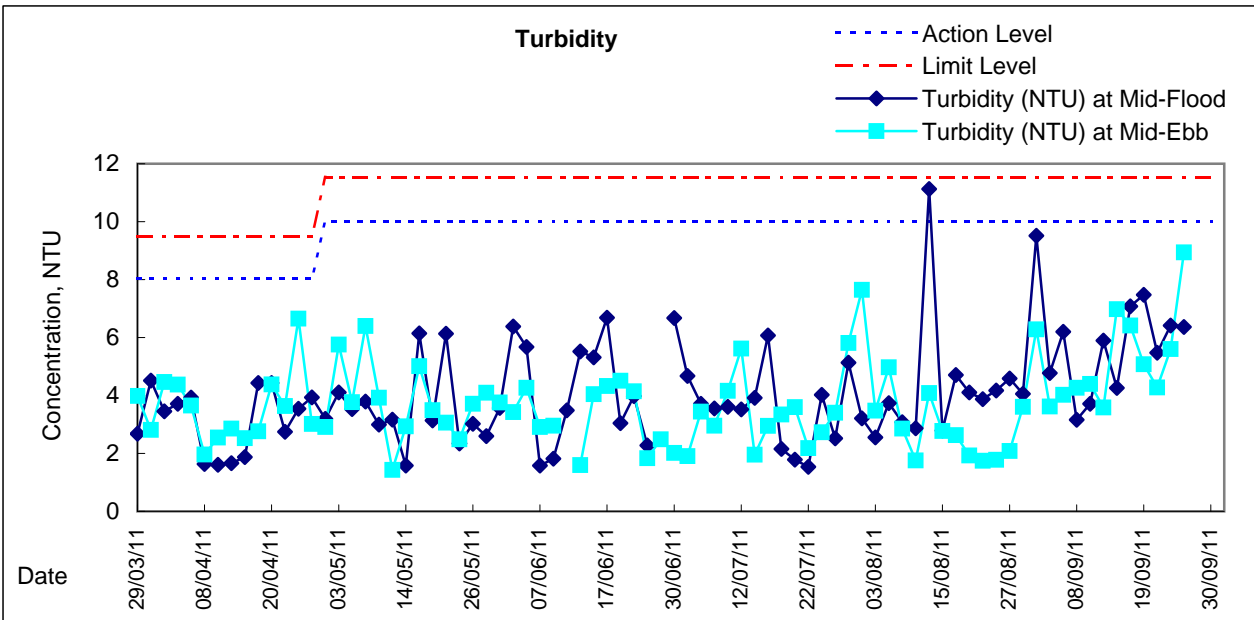
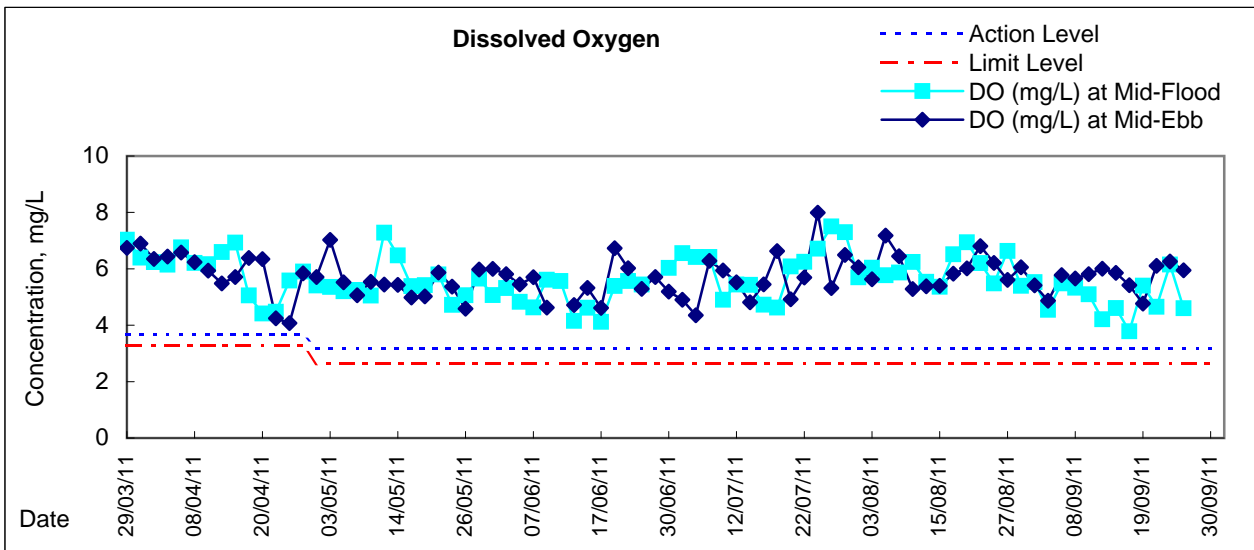
Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	13:00	Fine	Middle	1.5	27.60	27.60	27.55	7.97	7.97	7.97	32.42	32.42	32.42	65.2	65.7	65.9	4.27	4.30	4.31	3.38	3.81	3.51	7	6.50
	13:03		Middle	1.5	27.50	27.50		7.96	7.96		32.41	32.41		66.2	66.6		4.33	4.35		3.46	3.37		6	
1/9/2011	16:02	Fine	Middle	1.5	26.30	26.30	26.25	7.91	7.91	7.92	32.81	32.81	32.80	60.6	61.5	61.2	4.06	4.12	4.10	3.76	3.78	3.75	6	5.00
	16:05		Middle	1.5	26.20	26.20		7.92	7.92		32.79	32.79		61.2	61.4		4.10	4.11		3.94	3.52		4	
3/9/2011	16:12	Cloudy	Middle	1.5	26.50	26.50	26.55	7.92	7.92	7.94	32.82	32.82	32.82	57.6	56.2	57.3	3.83	3.73	3.80	5.35	5.38	5.33	3	4.00
	16:15		Middle	1.5	26.60	26.60		7.95	7.95		32.81	32.81		58.9	56.4		3.90	3.74		5.44	5.14		5	
5/9/2011	4:16	Cloudy	Middle	1.5	26.65	26.65	26.65	7.44	7.44	7.44	32.29	32.29	32.29	86.3	86.3	86.5	5.78	5.78	5.80	4.82	4.45	4.67	5	4.50
	4:17		Middle	1.5	26.65	26.65		7.44	7.44		32.29	32.29		86.7	86.7		5.81	5.81		4.71	4.71		4	
8/9/2011	7:37	Fine	Middle	1.5	27.20	27.20	27.30	7.77	7.77	7.80	32.73	32.73	32.68	61.0	59.7	60.9	4.02	3.93	4.01	3.36	2.45	2.85	2	3.00
	7:40		Middle	1.5	27.40	27.40		7.82	7.82		32.62	32.62		62.3	60.6		4.10	3.99		2.62	2.95		4	
10/9/2011	10:56	Fine	Middle	1.5	27.80	27.80	27.90	7.90	7.90	7.92	33.13	33.13	33.12	66.3	65.1	66.0	4.31	4.23	4.29	5.03	5.11	5.19	8	7.00
	10:58		Middle	1.5	28.00	28.00		7.94	7.94		33.10	33.10		67.2	65.3		4.36	4.24		5.13	5.50		6	
12/9/2011	9:56	Fine	Middle	1.5	27.80	27.80	27.85	7.99	7.99	7.98	33.06	33.06	33.05	71.3	69.8	70.9	4.65	4.55	4.63	4.38	4.36	4.29	6	6.00
	9:58		Middle	1.5	27.90	27.90		7.96	7.96		33.04	33.04		72.0	70.5		4.70	4.60		4.27	4.13		6	
14/9/2011	14:33	Fine	Middle	1.5	28.90	28.90	28.90	8.03	8.03	8.03	32.84	32.84	32.87	73.7	73.4	73.7	4.72	4.69	4.72	5.84	5.95	5.76	9	8.00
	14:36		Middle	1.5	28.90	28.90		8.03	8.03		32.89	32.89		74.6	73.2		4.77	4.68		5.50	5.75		7	
16/9/2011	13:10	Fine	Middle	1.5	29.20	29.20	29.25	7.92	7.92	7.92	32.75	32.75	32.76	71.0	71.4	71.4	4.54	4.56	4.56	5.92	6.00	5.71	9	8.00
	13:13		Middle	1.5	29.30	29.30		7.91	7.91		32.77	32.77		71.4	71.8		4.56	4.59		5.70	5.23		7	
19/9/2011	1:49	Fine	Middle	1.5	28.43	28.43	28.43	7.66	7.66	7.66	31.71	31.71	31.71	72.5	72.4	72.4	4.72	4.72	4.72	6.21	6.04	6.15	6	7.00
	1:50		Middle	1.5	28.43	28.43		7.66	7.66		31.71	31.71		72.4	72.4		4.72	4.72		5.97	6.39		8	
22/9/2011	9:25	Fine	Middle	1.5	27.90	27.90	27.85	8.15	8.15	8.16	33.13	33.13	33.16	74.2	73.5	74.3	4.85	4.81	4.86	5.62	5.28	5.59	6	7.00
	9:28		Middle	1.5	27.80	27.80		8.16	8.16		33.19	33.19		75.5	74.0		4.94	4.84		5.99	5.45		8	
24/9/2011	9:35	Cloudy	Middle	1.5	27.10	27.10	27.05	8.17	8.17	8.17	33.38	33.38	33.37	70.7	69.3	70.5	4.69	4.60	4.68	4.50	4.92	4.64	8	7.00
	9:38		Middle	1.5	27.00	27.00		8.17	8.17		33.35	33.35		71.7	70.3		4.76	4.67		4.44	4.69		6	
26/9/2011	8:10	Cloudy	Middle	1.5	27.10	27.10	27.05	8.07	8.07	8.08	33.33	33.33	33.33	79.7	78.5	79.5	5.26	5.19	5.26	5.32	5.88	5.62	4	5.00
	8:13		Middle	1.5	27.00	27.00		8.08	8.08		33.33	33.33		80.9	79.0		5.35	5.22		5.67	5.61		6	

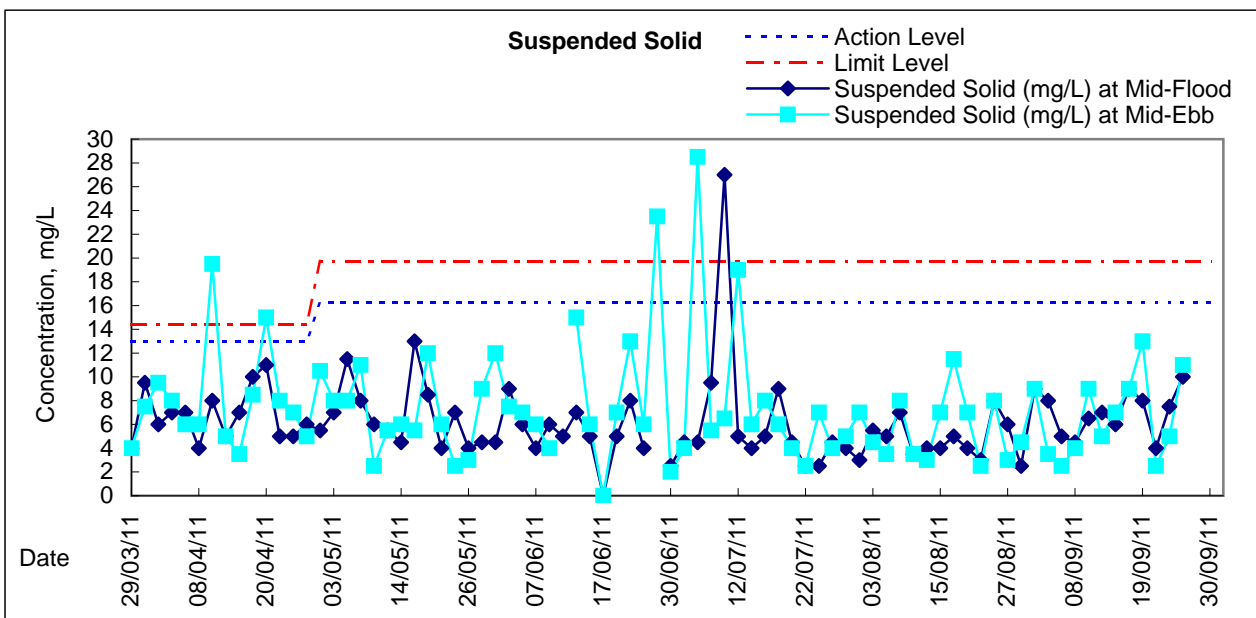
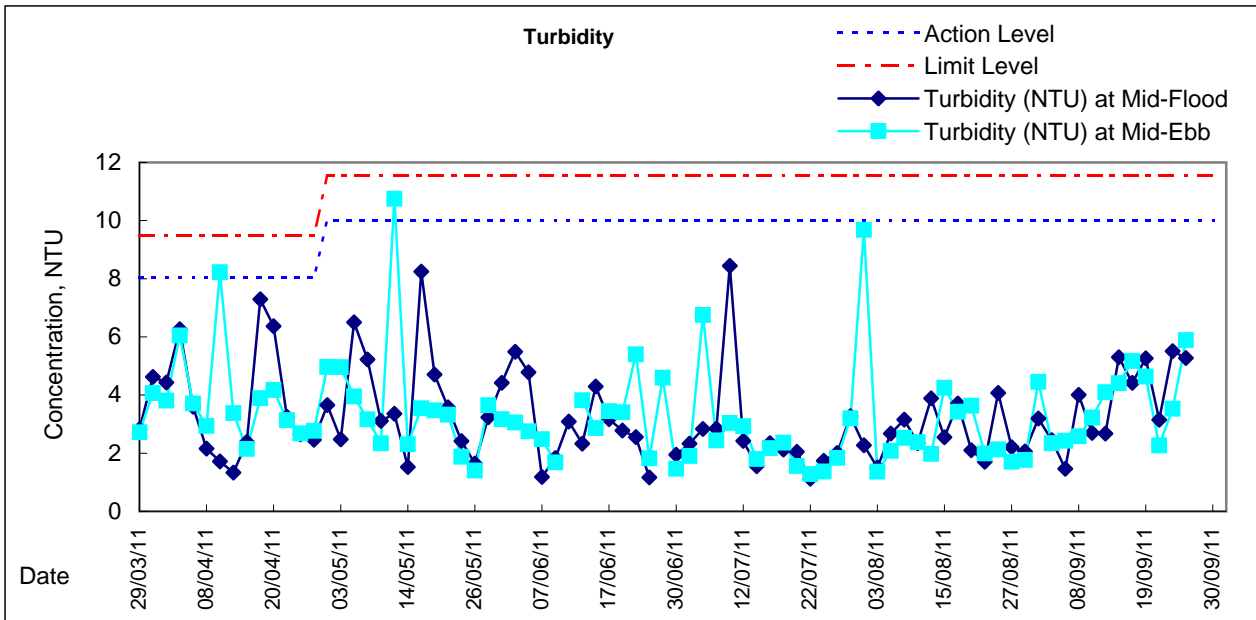
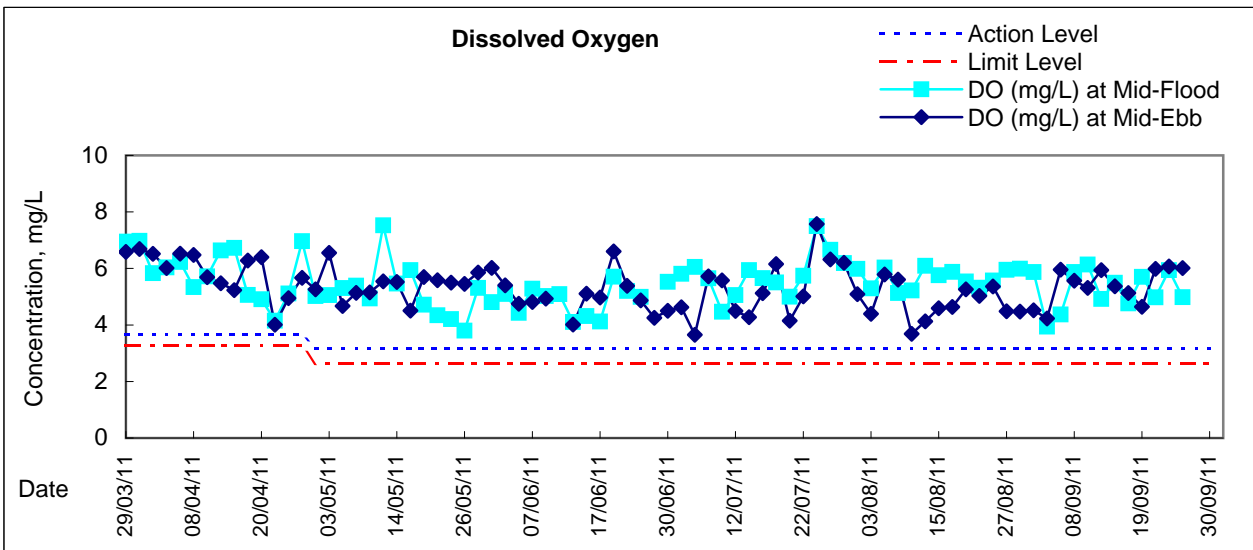
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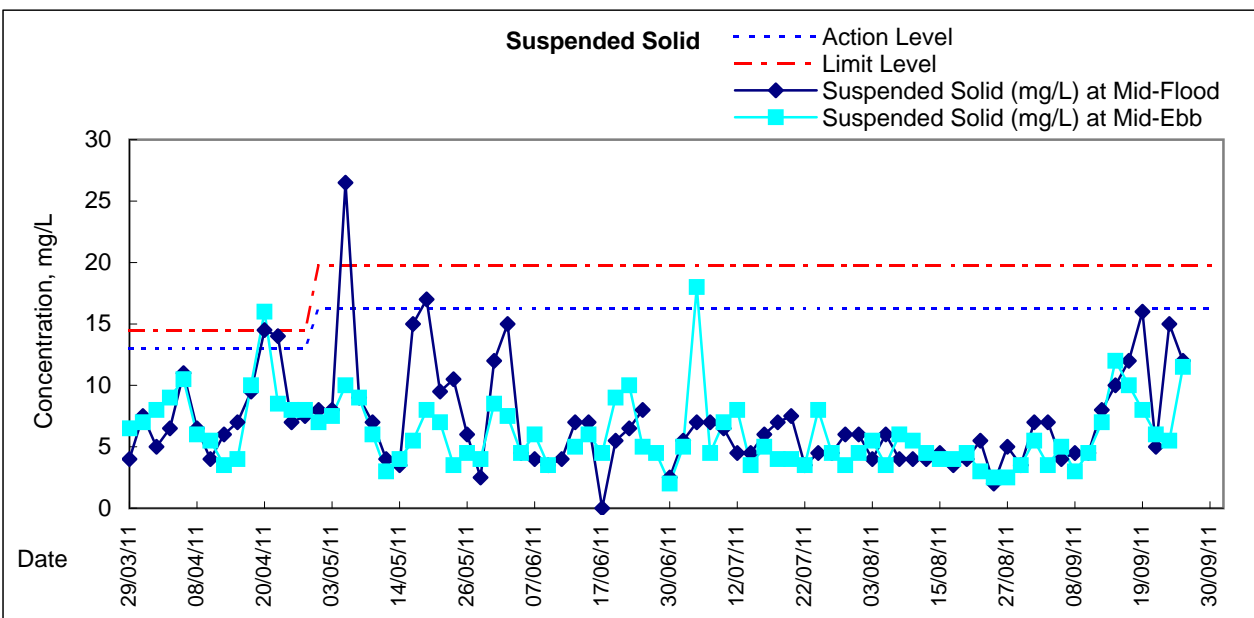
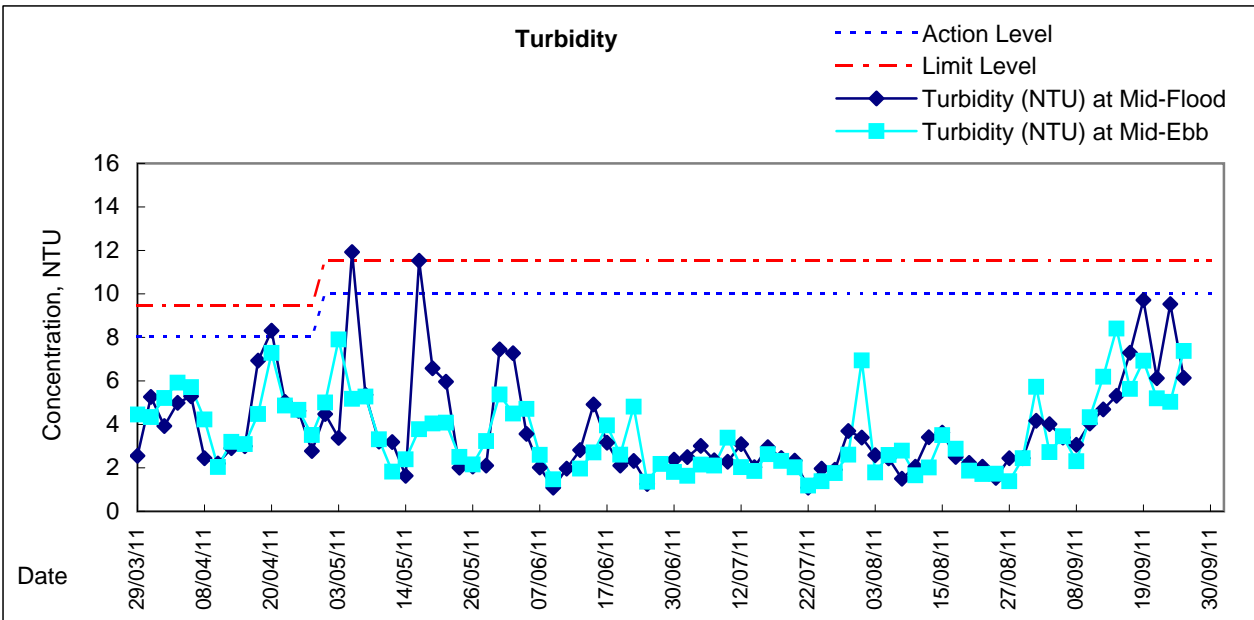
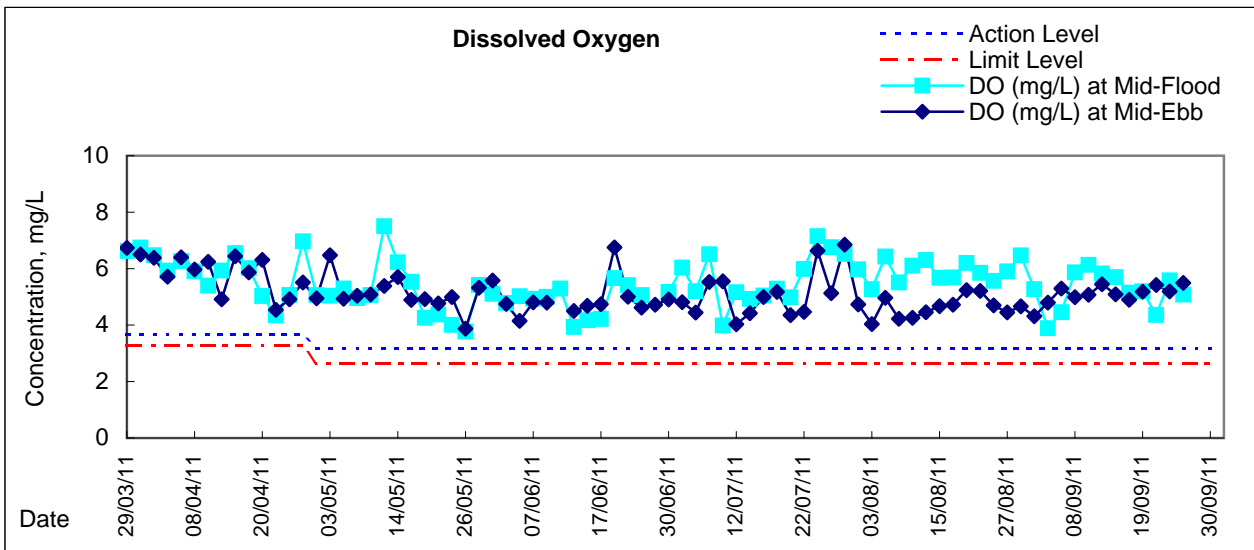
Single underline denotes exceedance over Action Level.

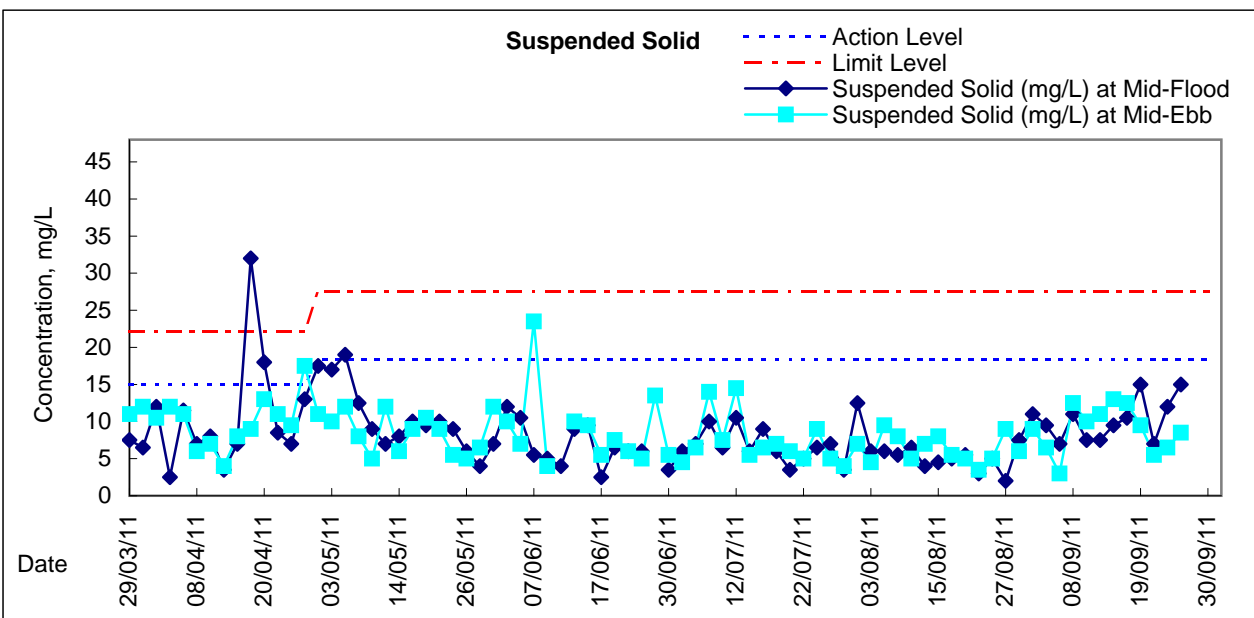
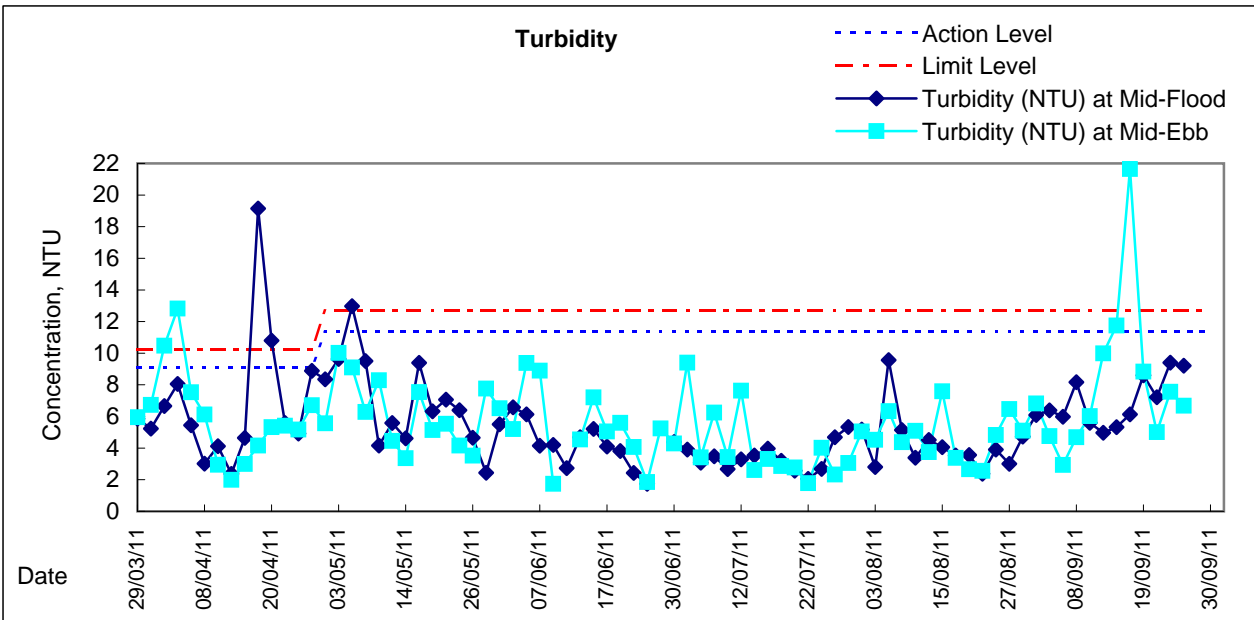
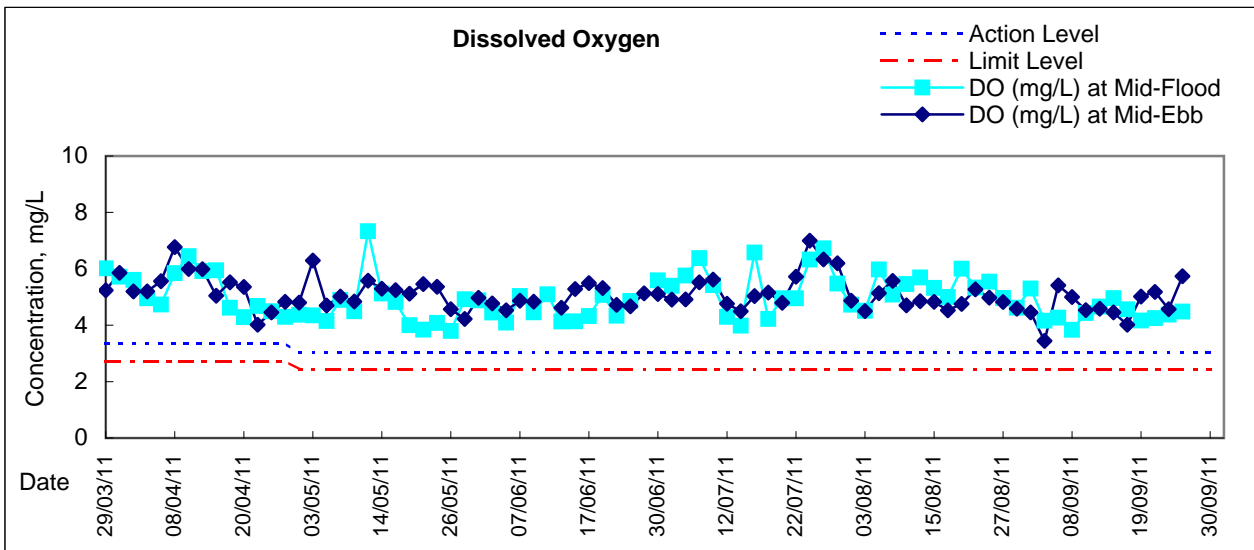
Double underline denotes exceedance over Limit Level.

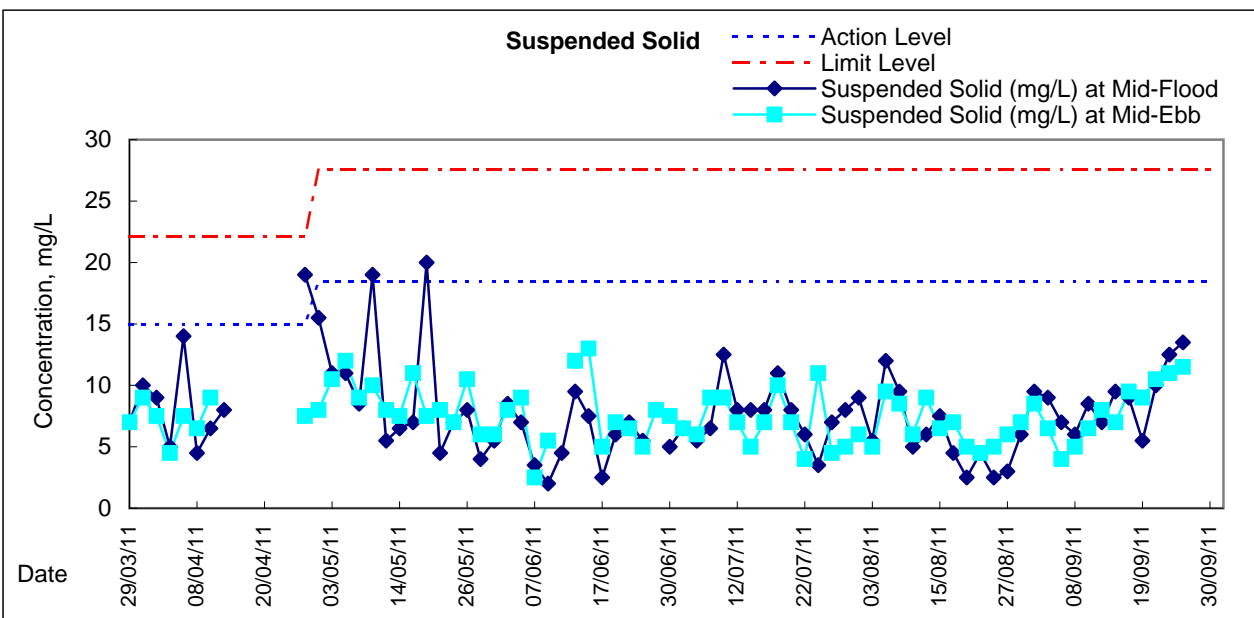
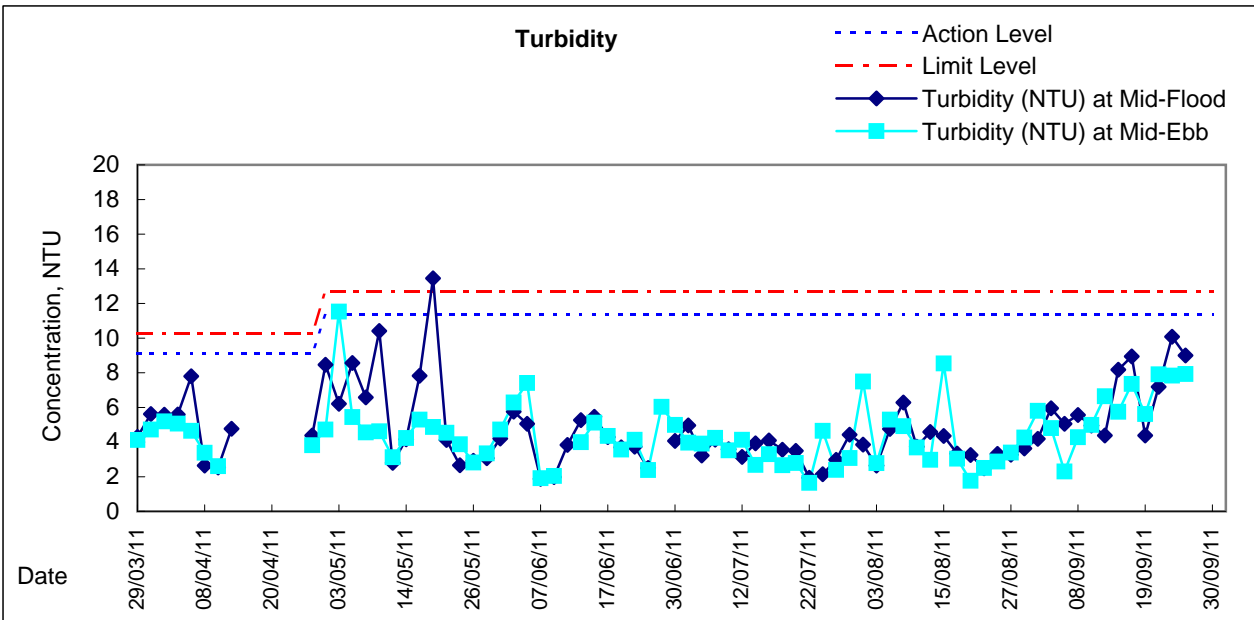
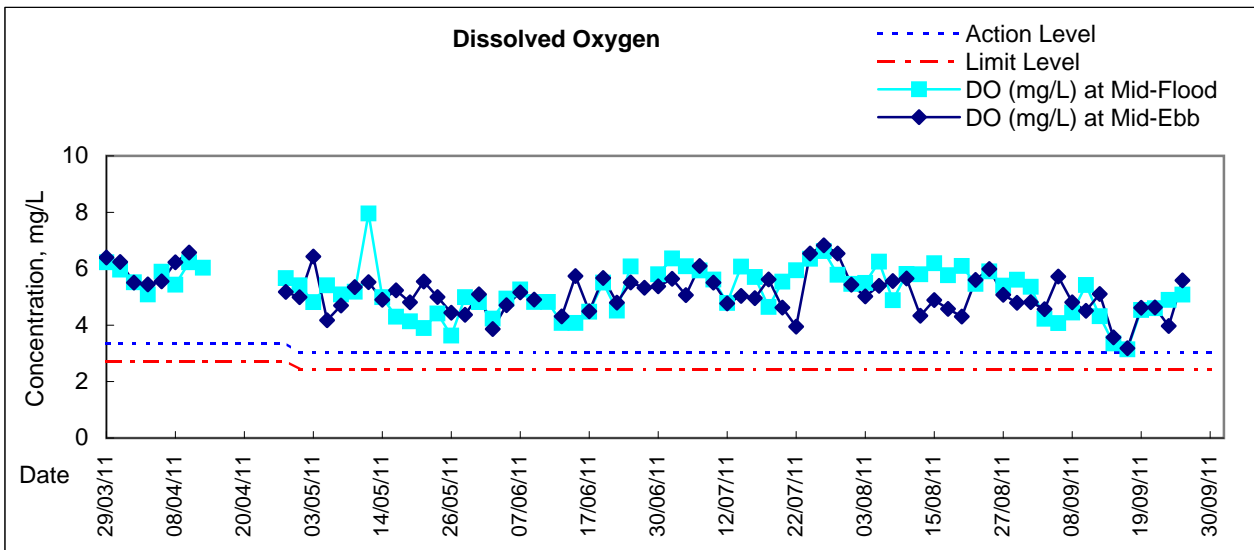


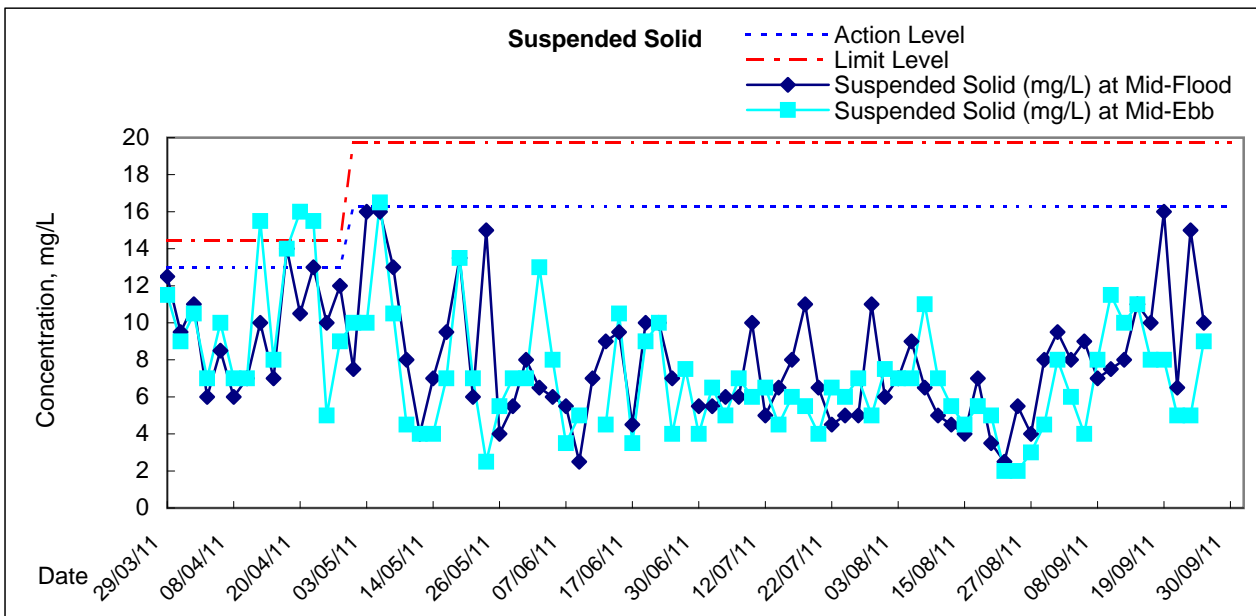
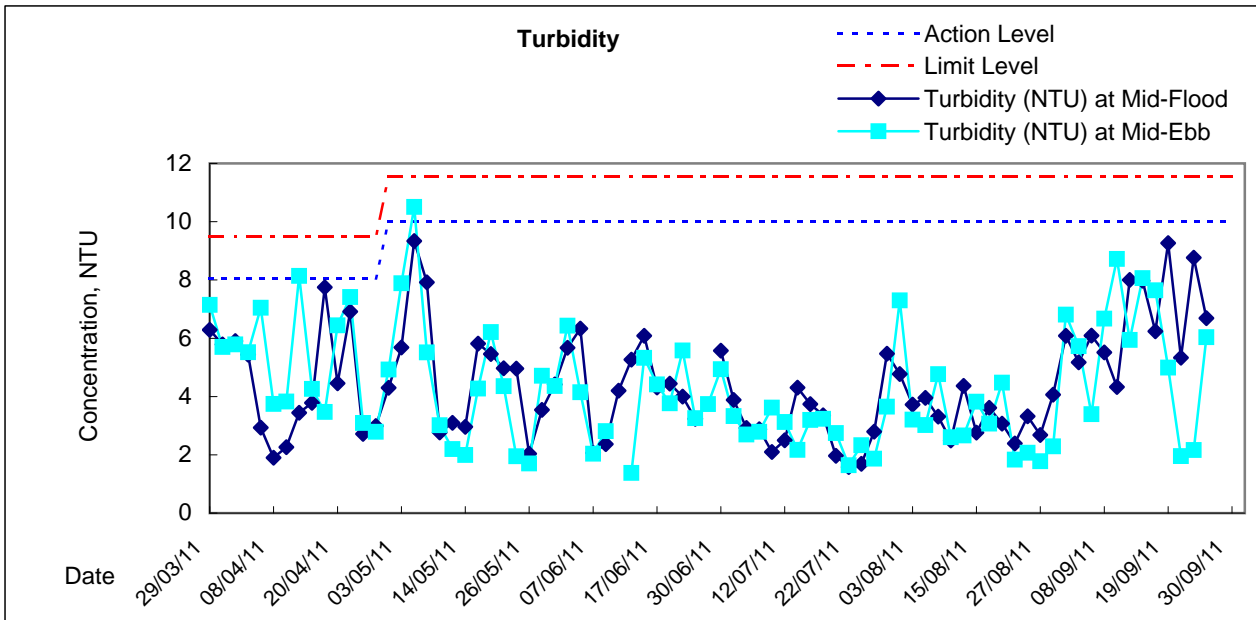
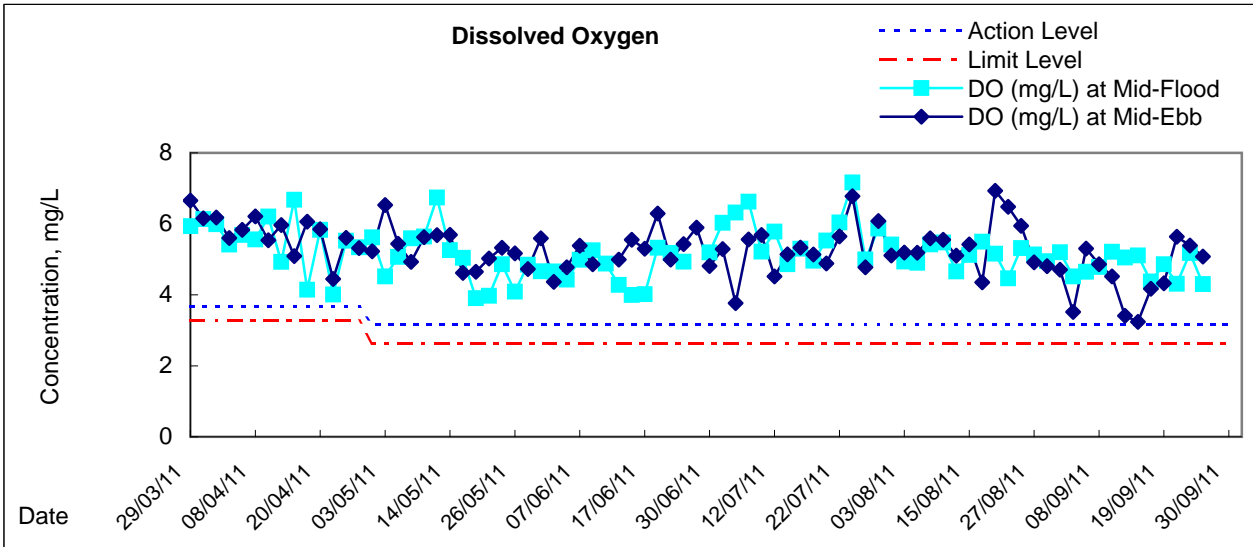




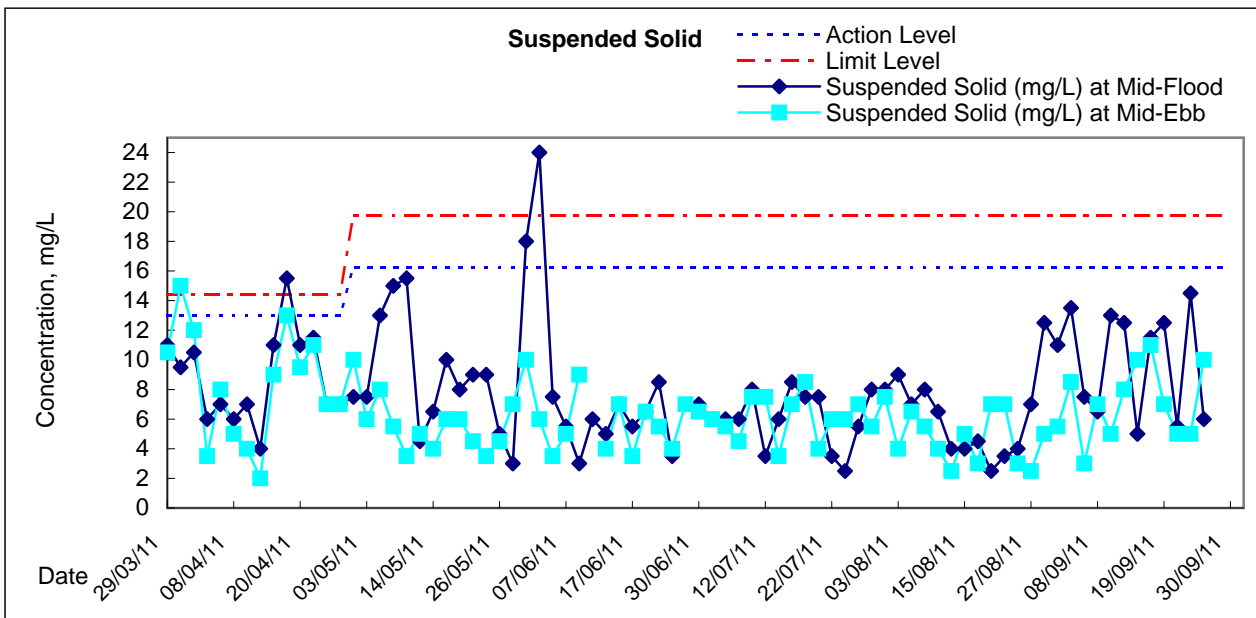
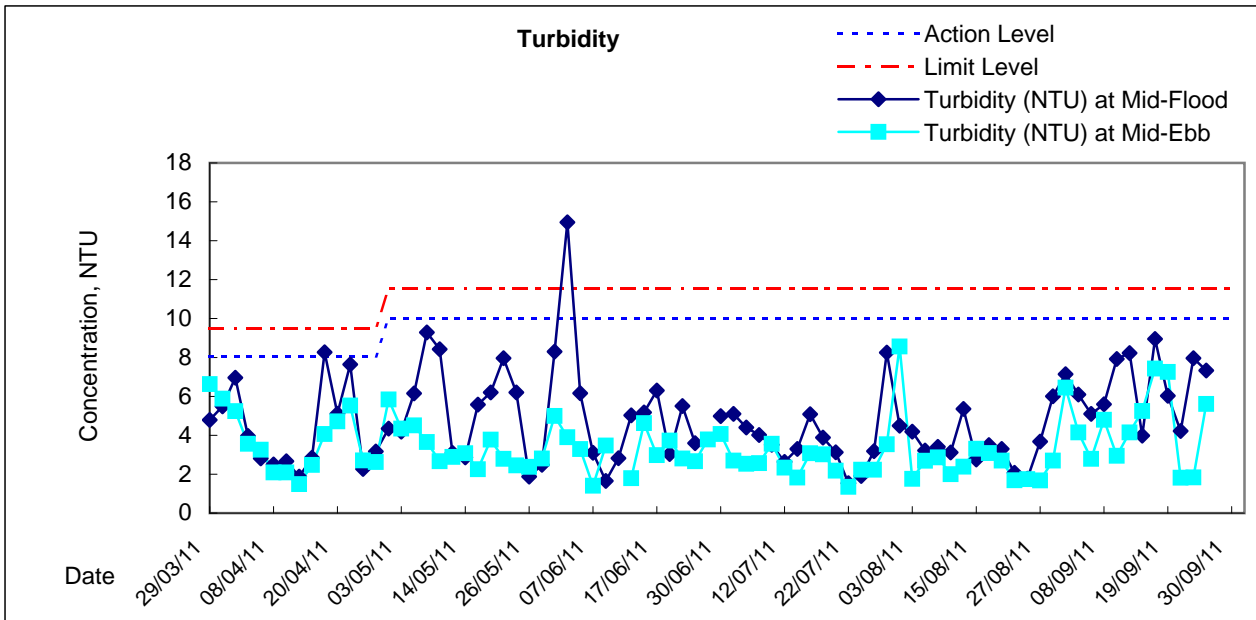
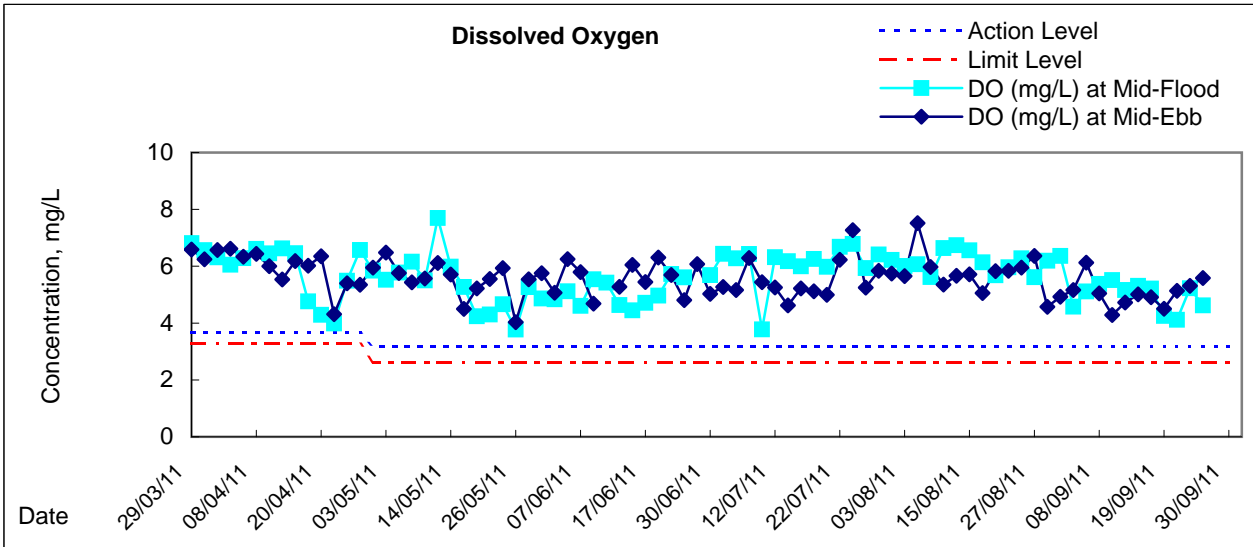


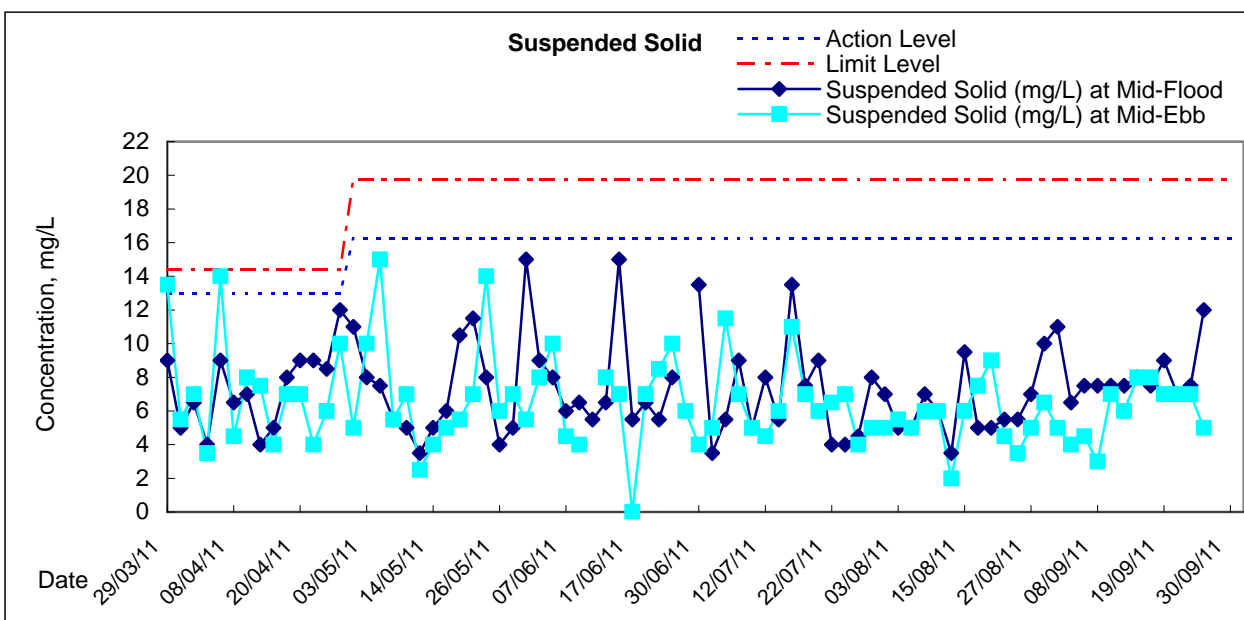
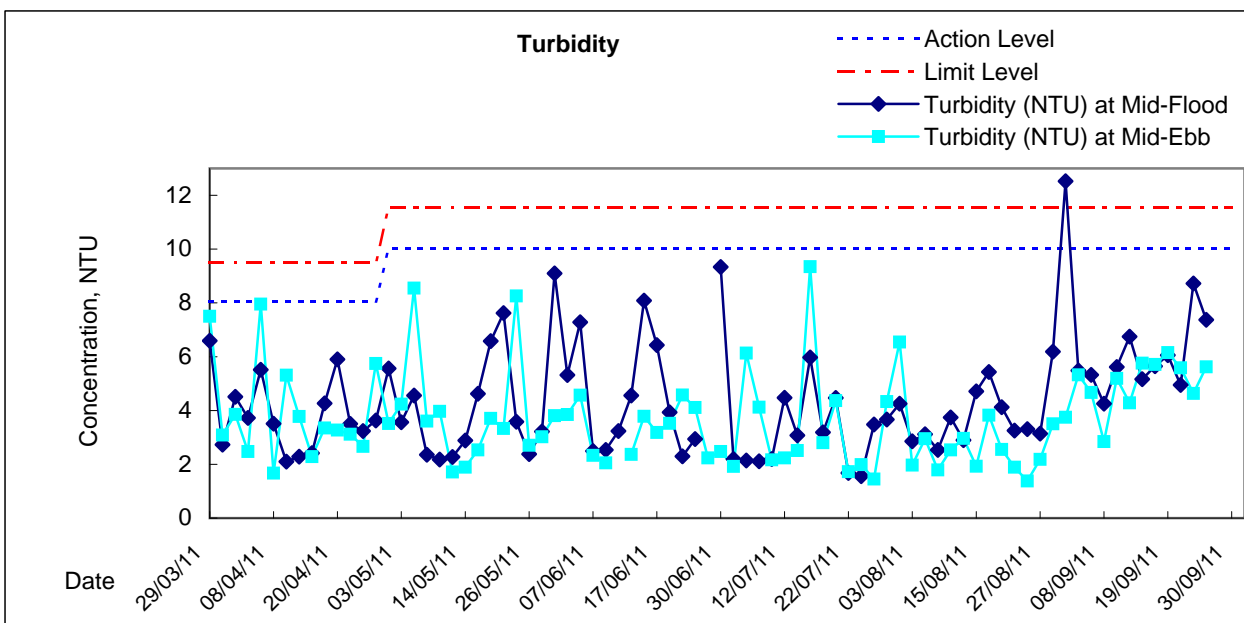
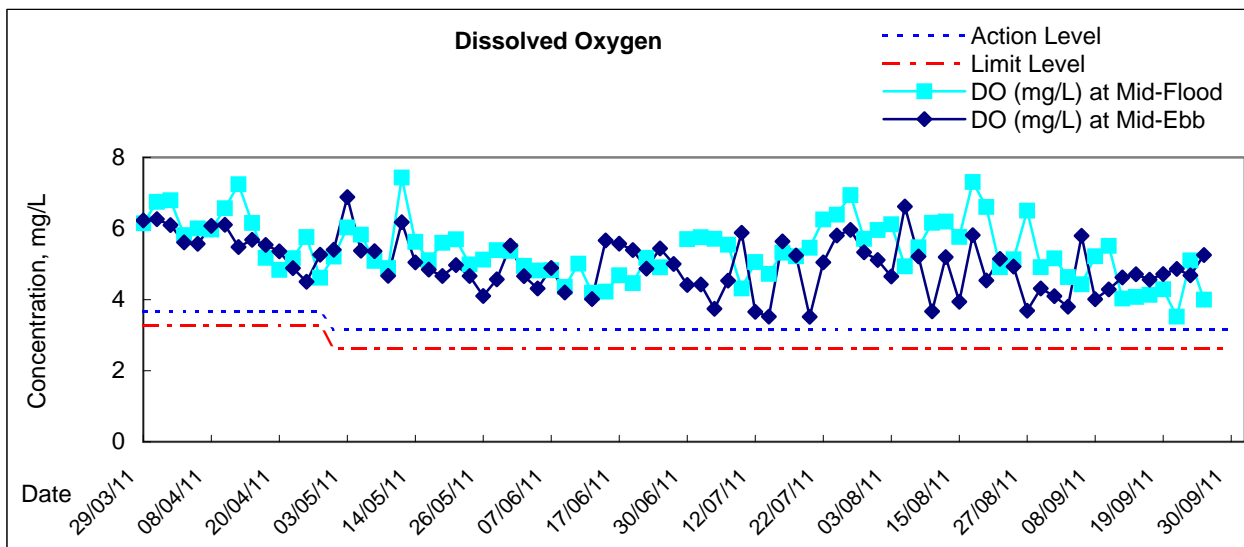


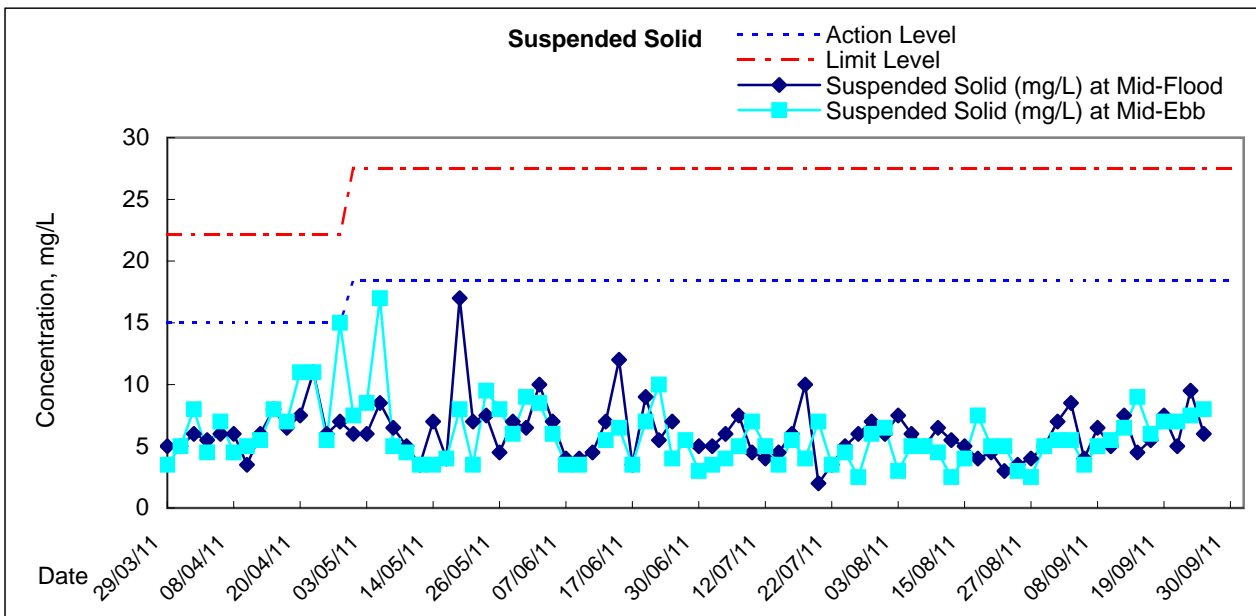
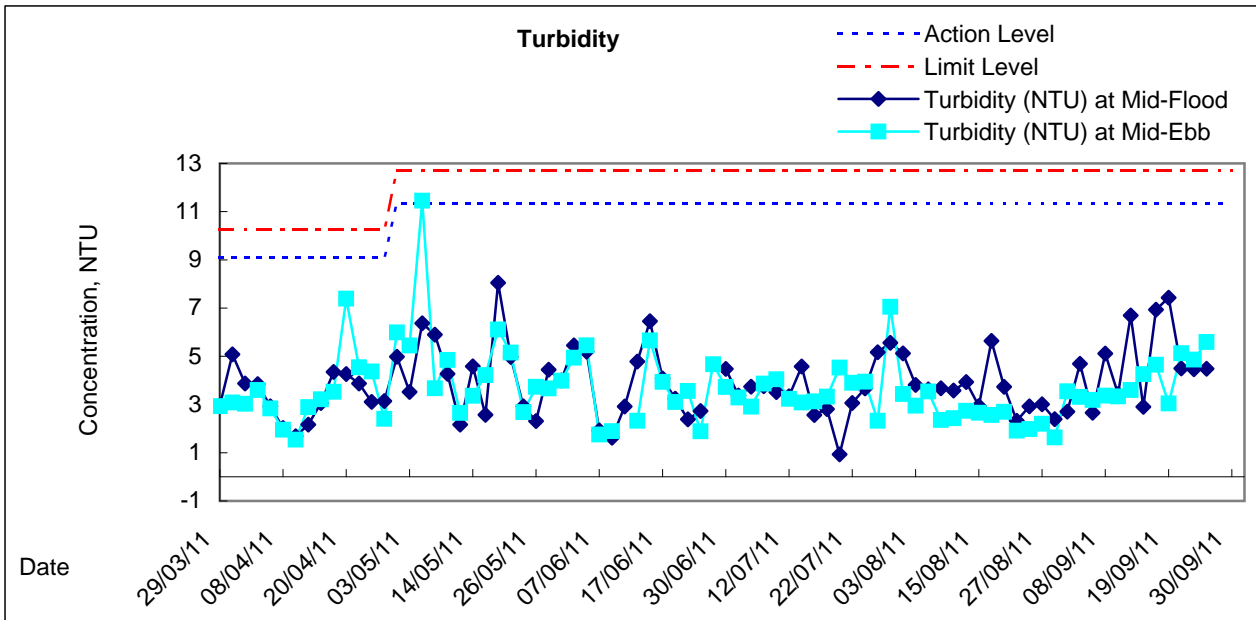
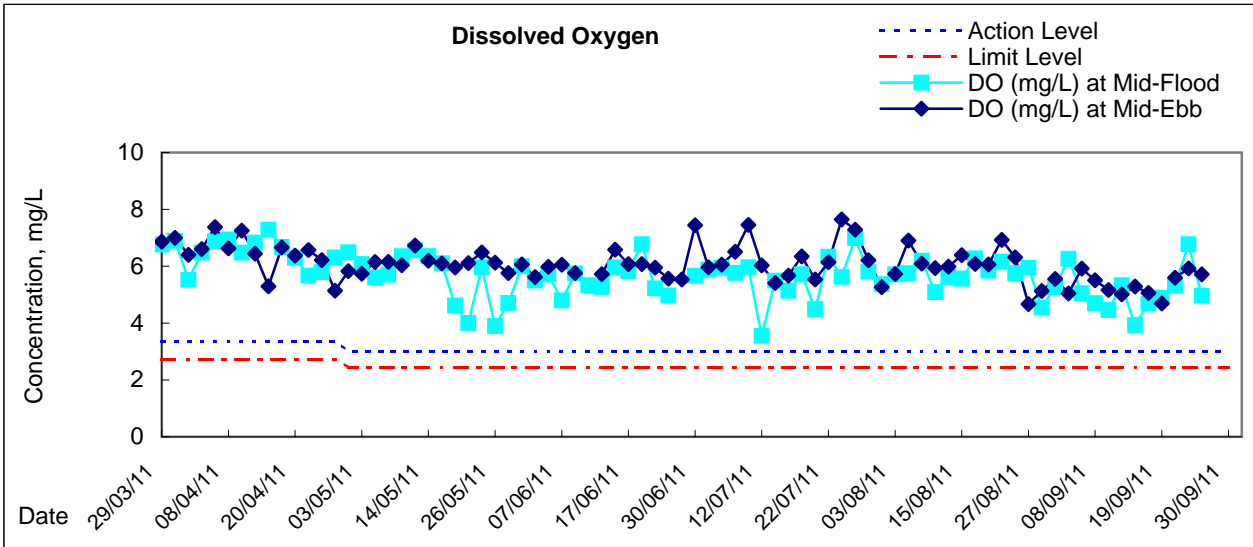


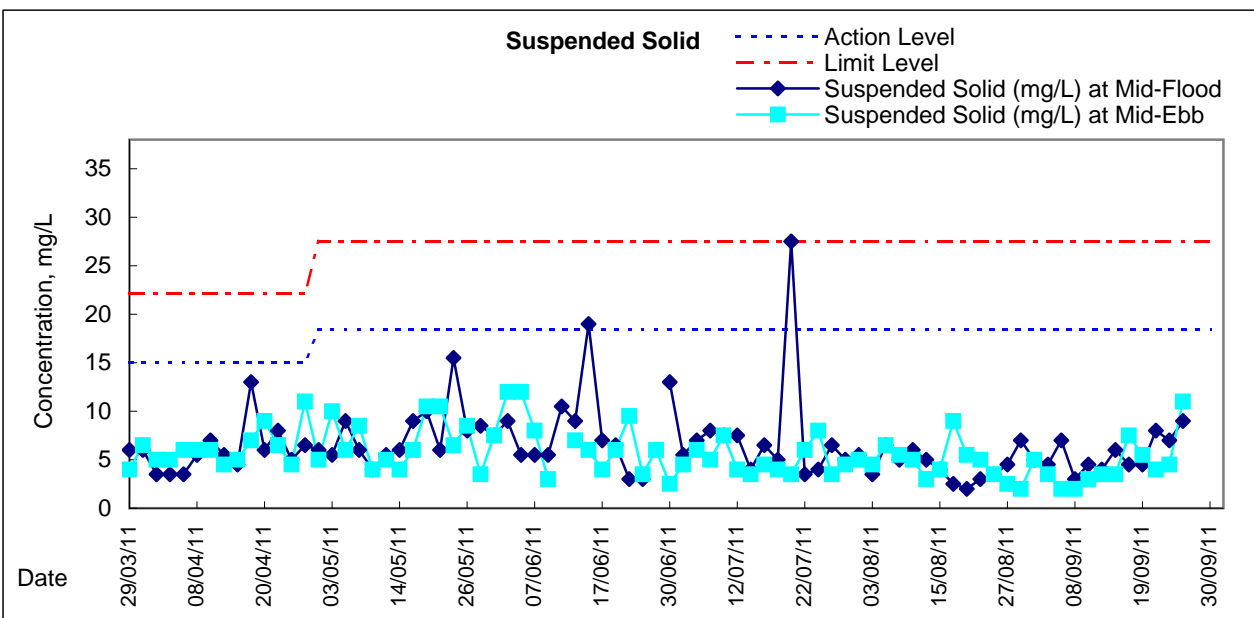
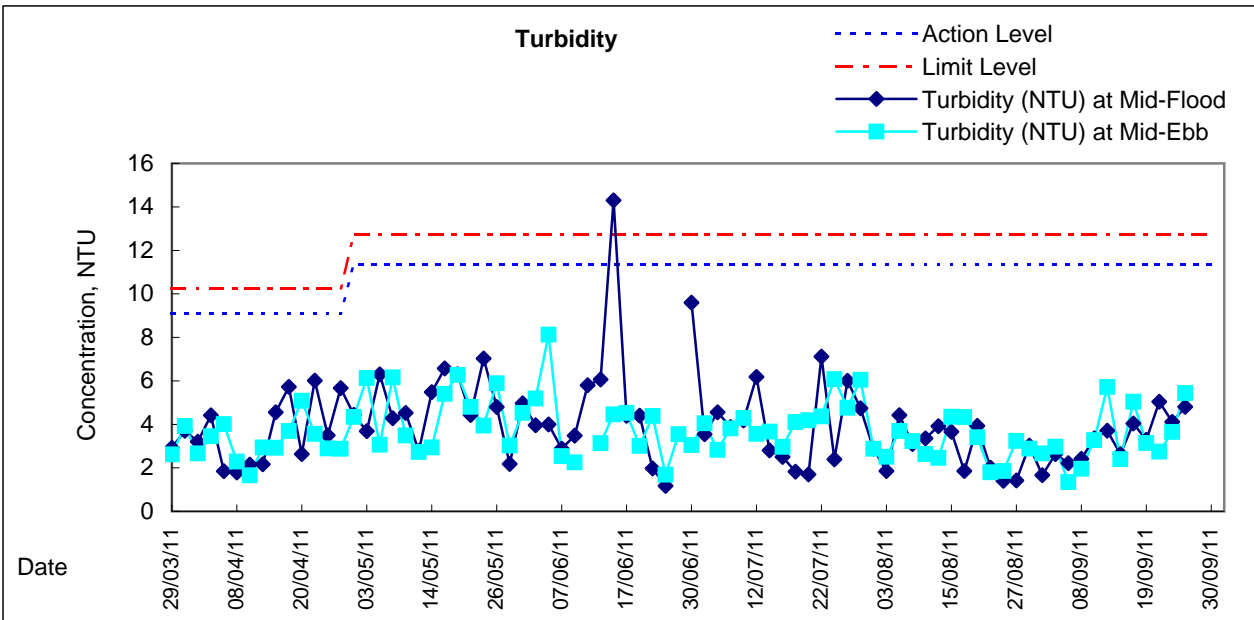
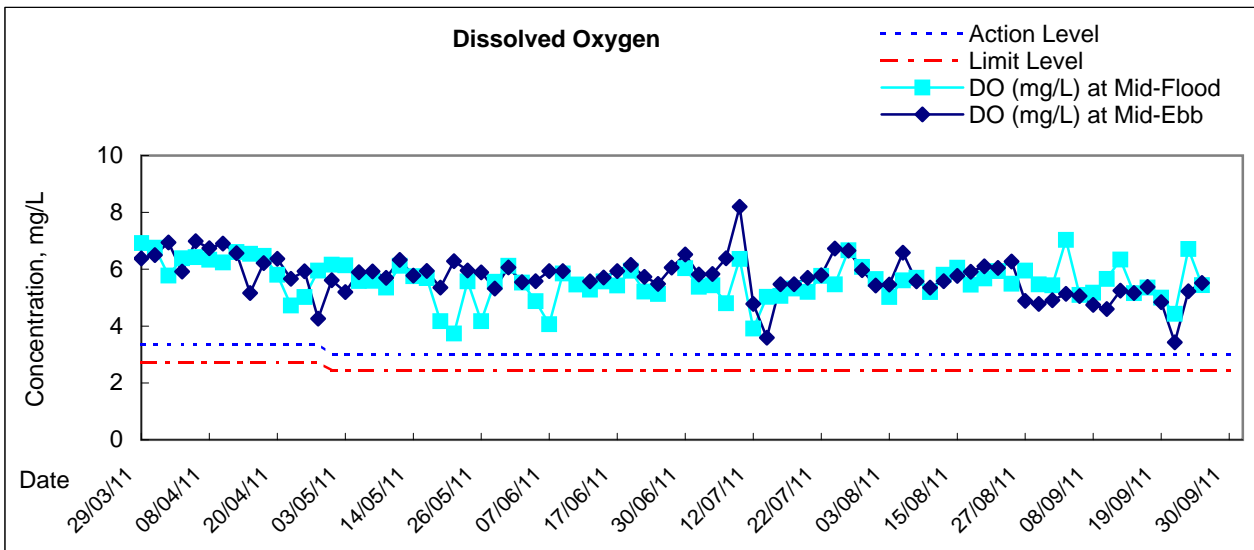






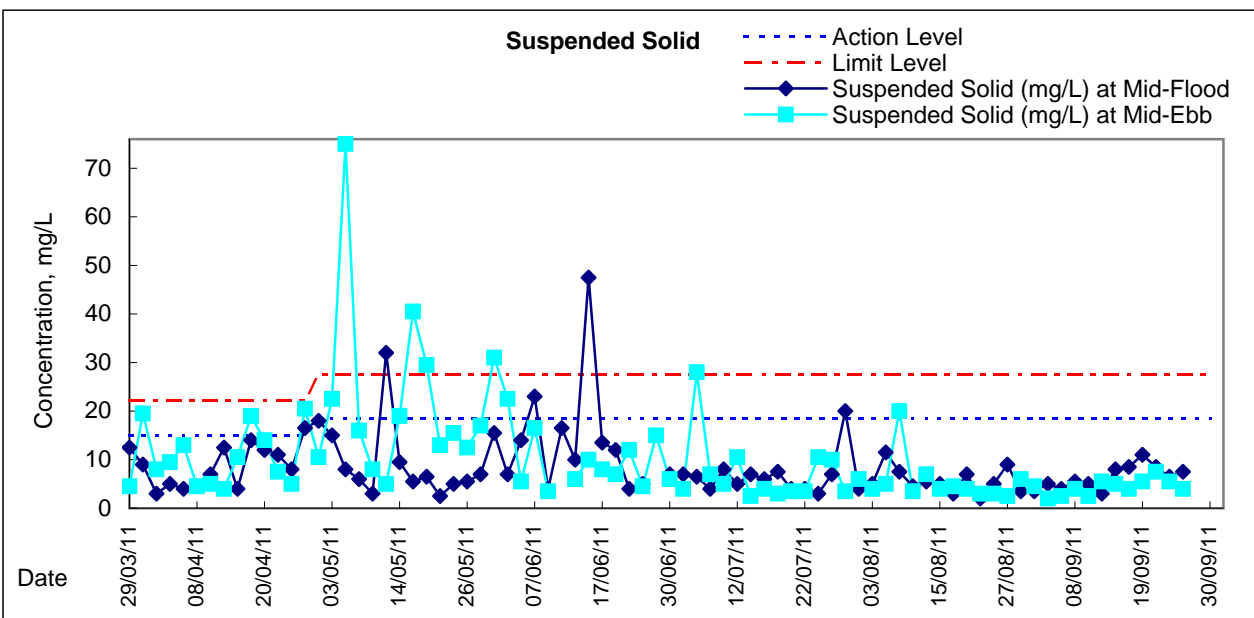
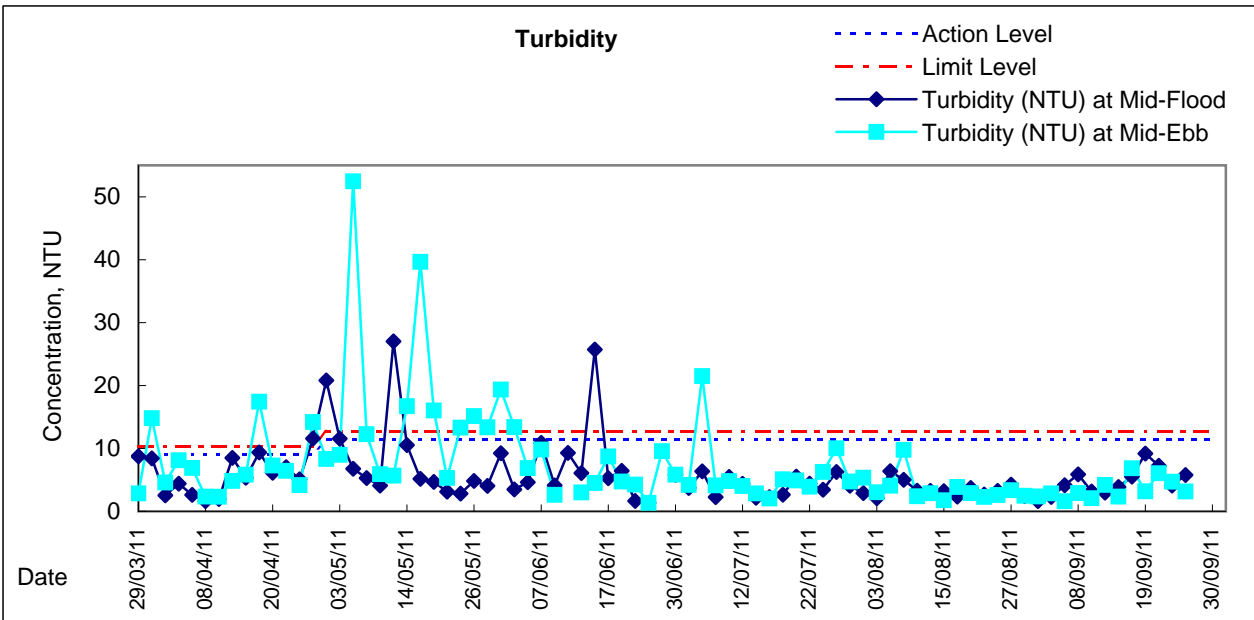
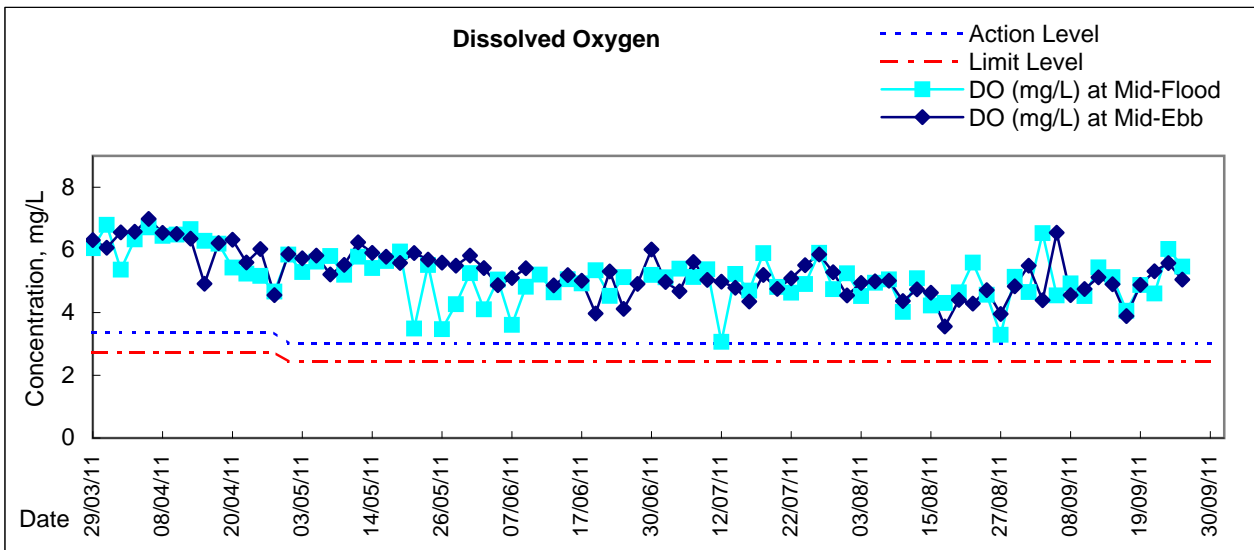


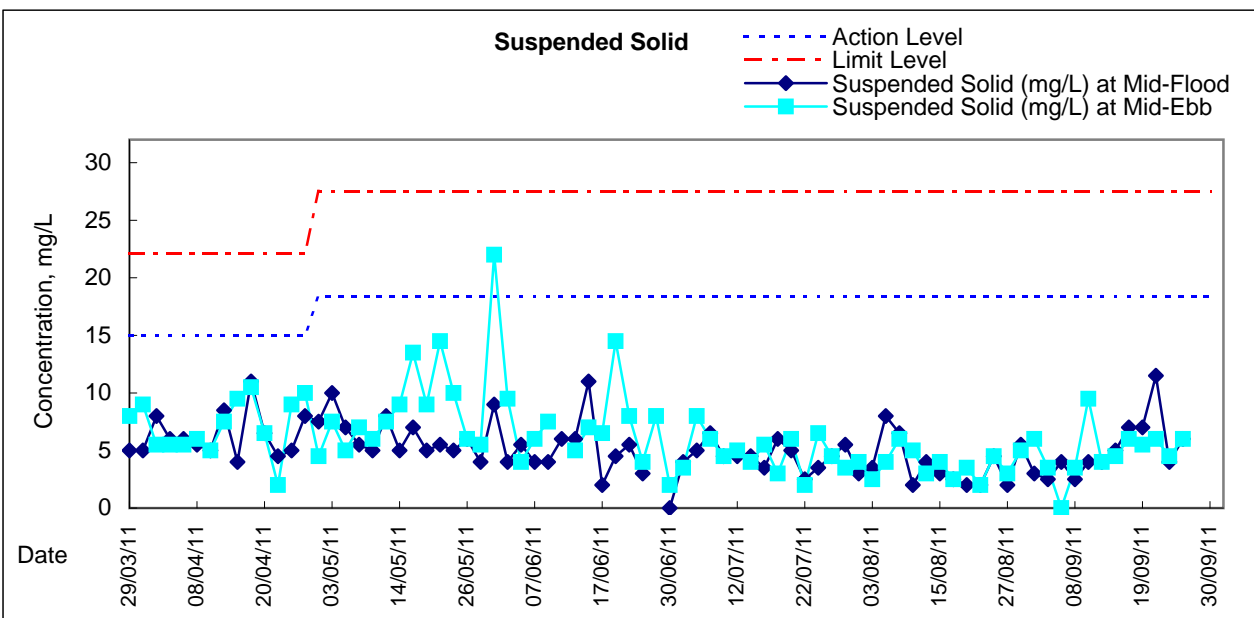
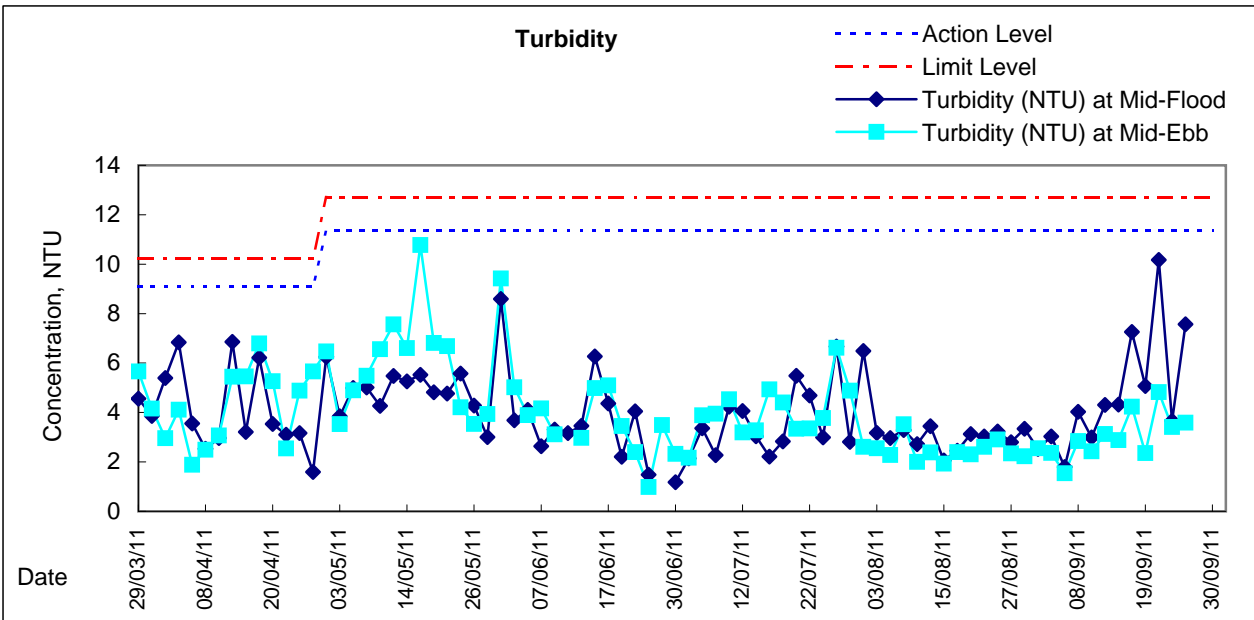
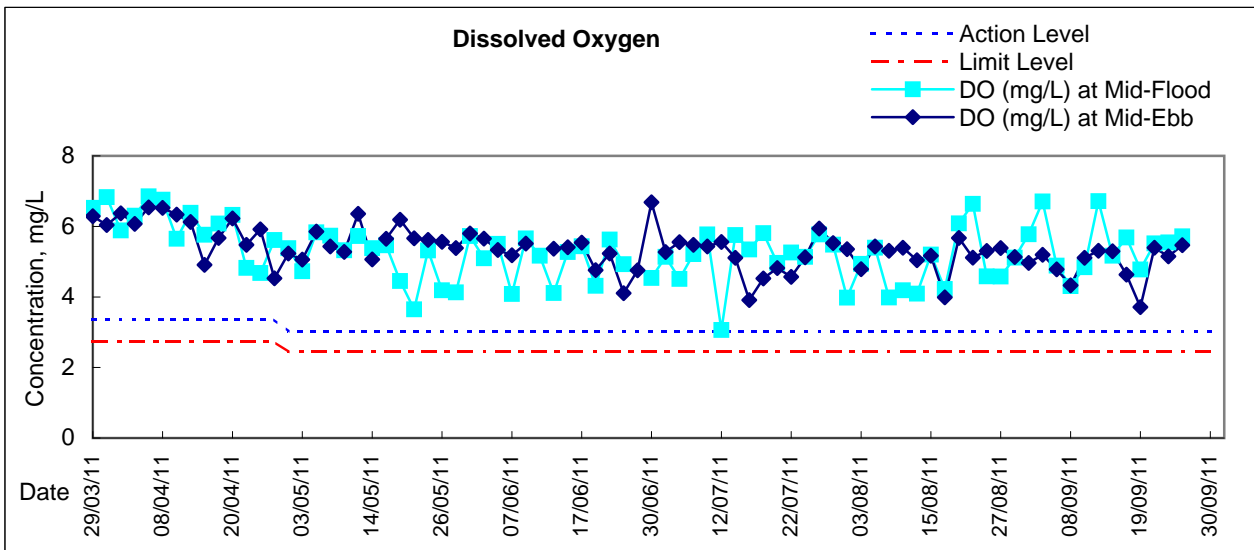






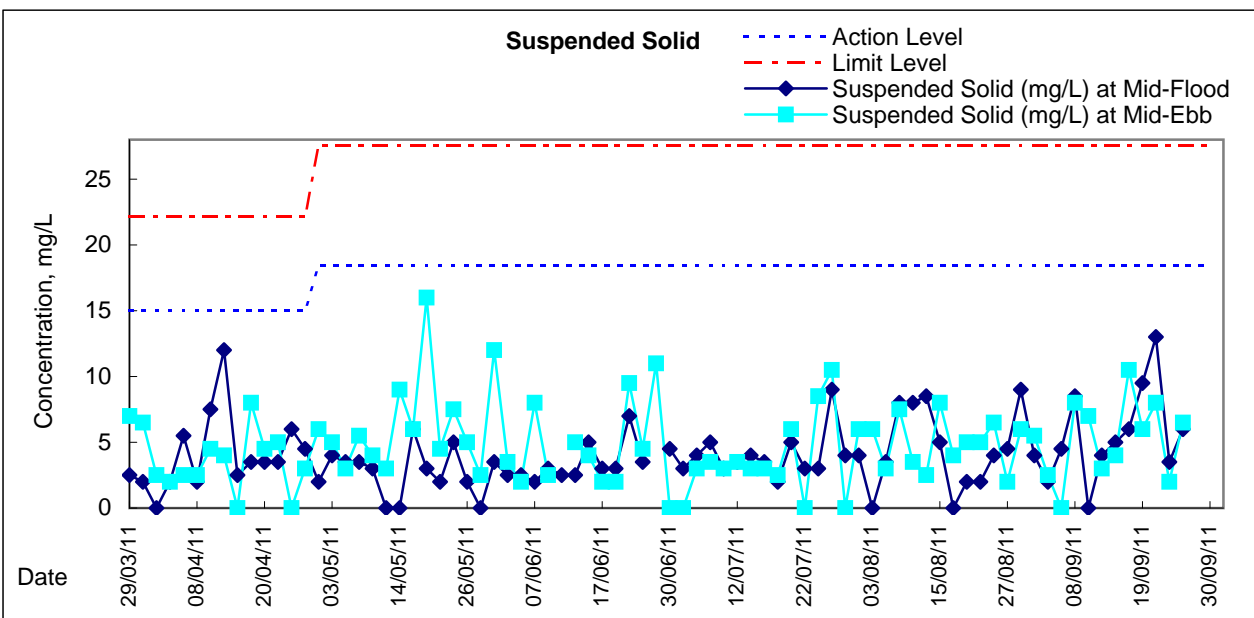
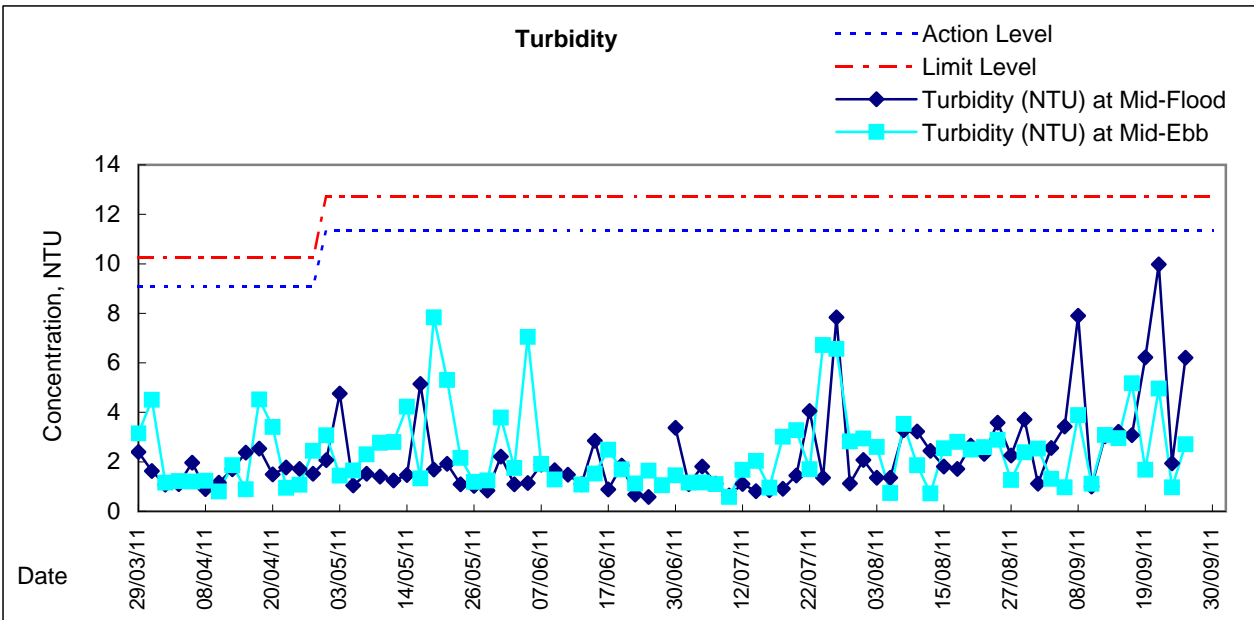
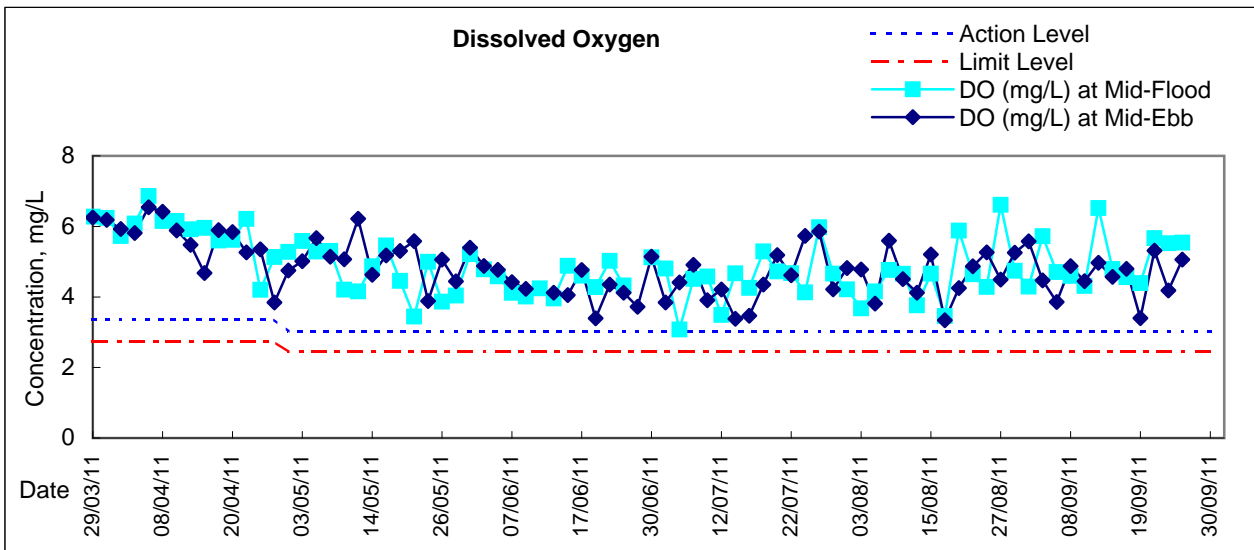
## Graphic Presentation of Water Quality Result of C3 - WCT and GEC





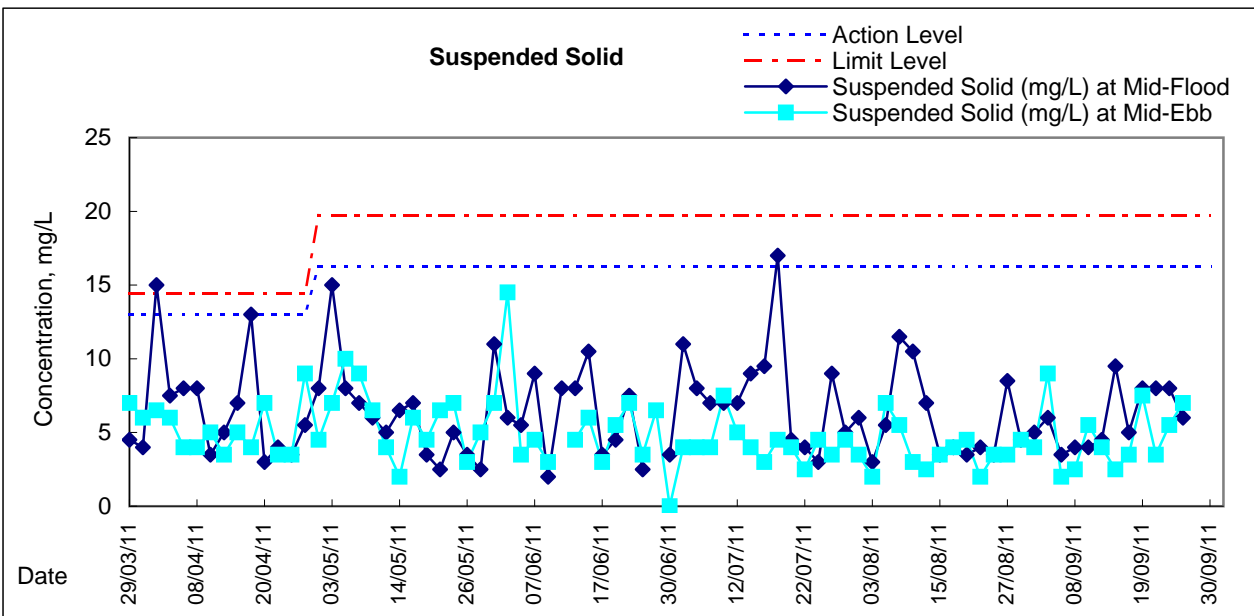
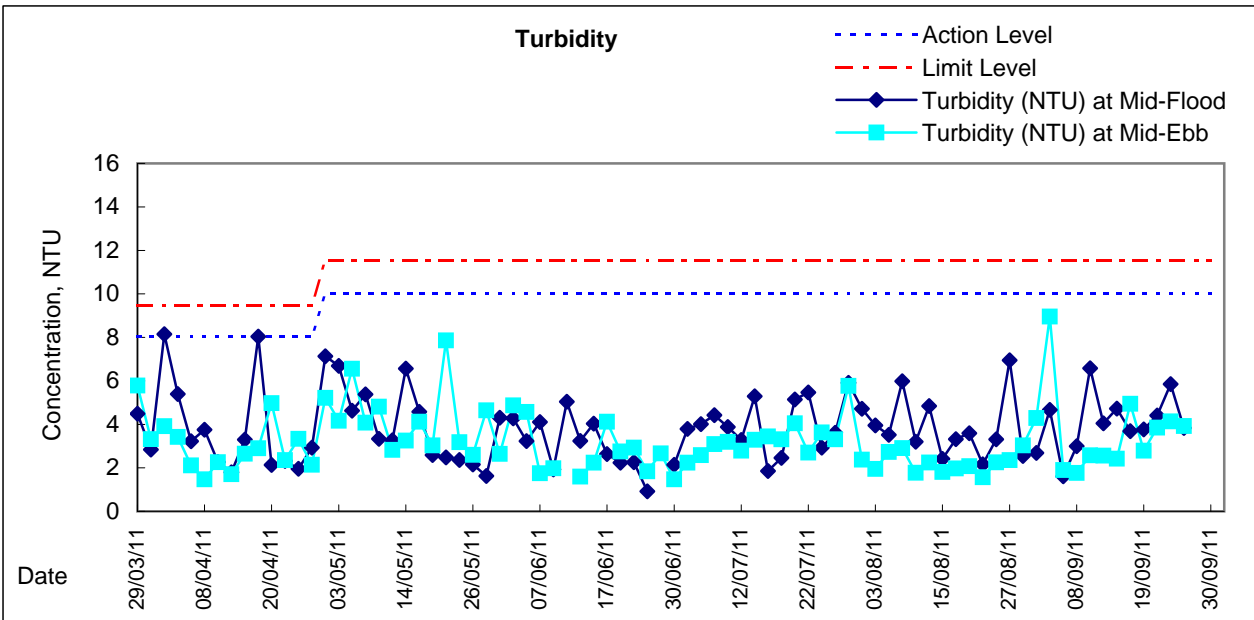
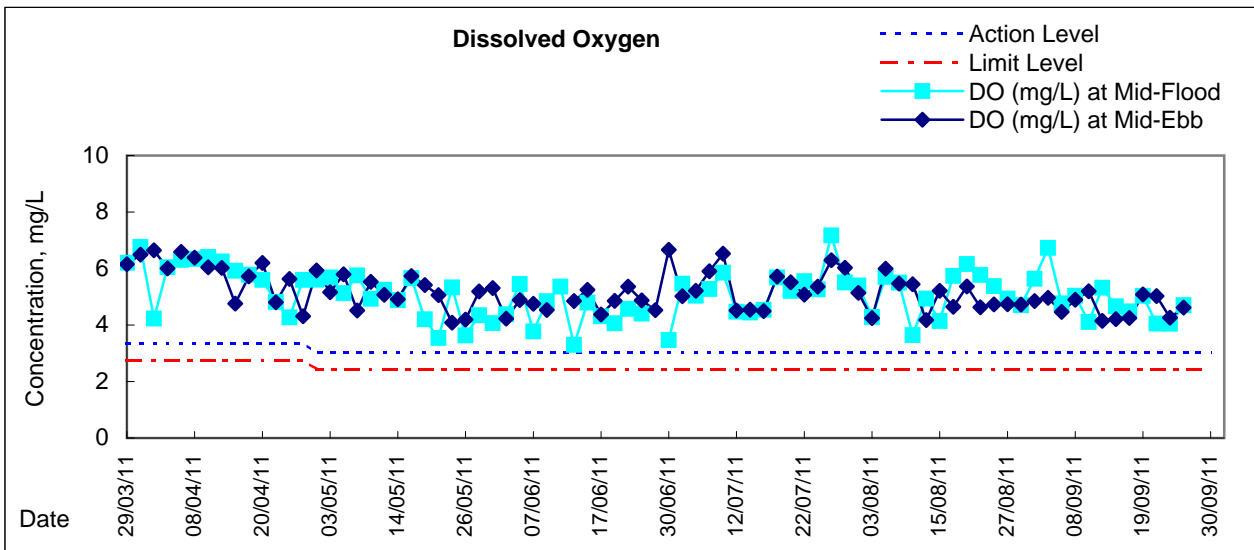


# Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)

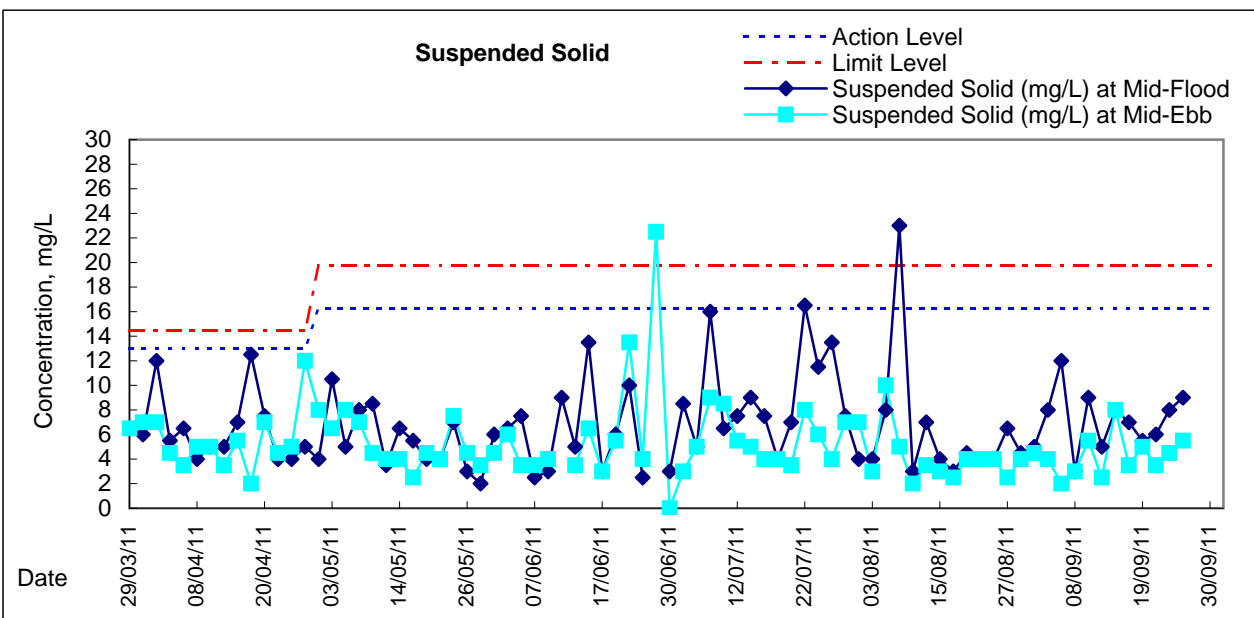
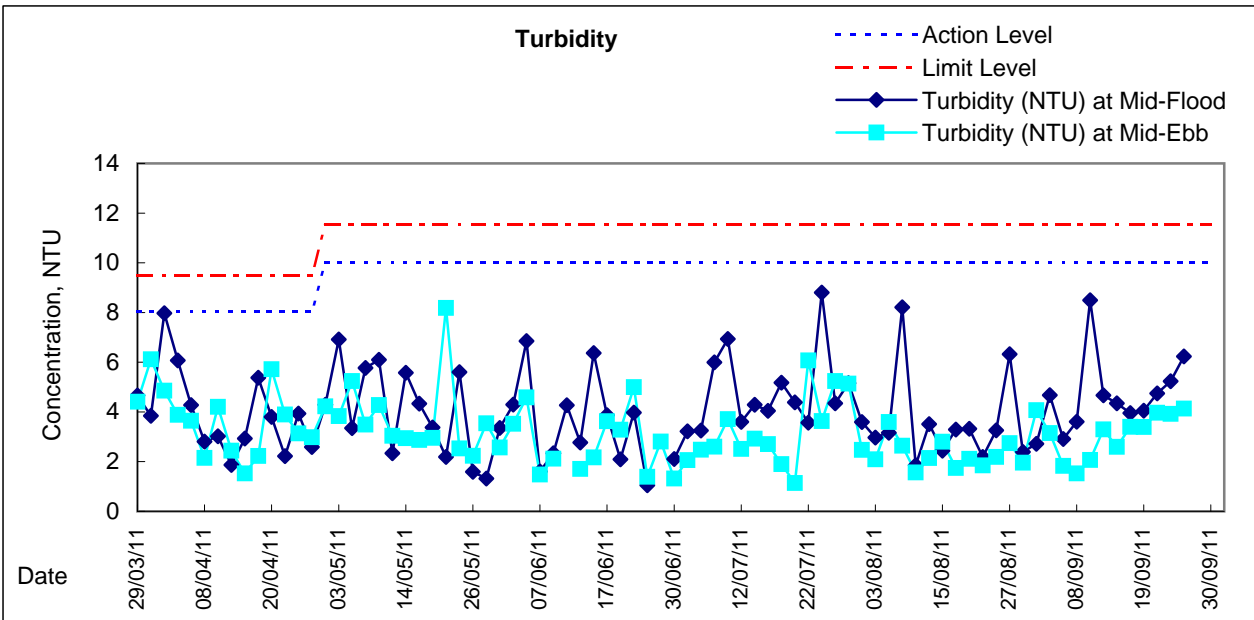
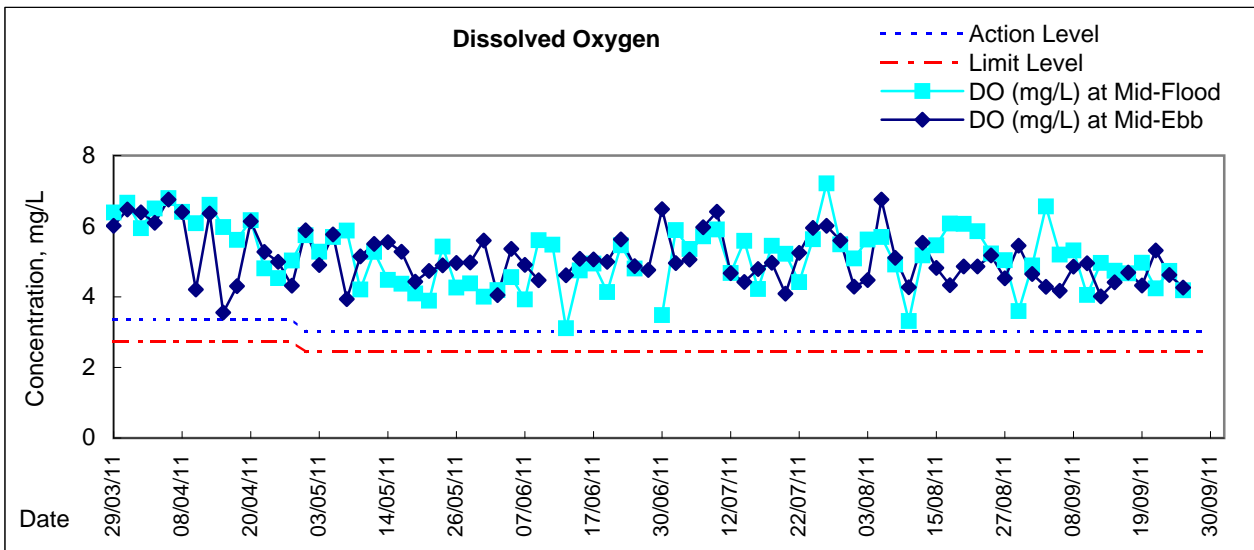


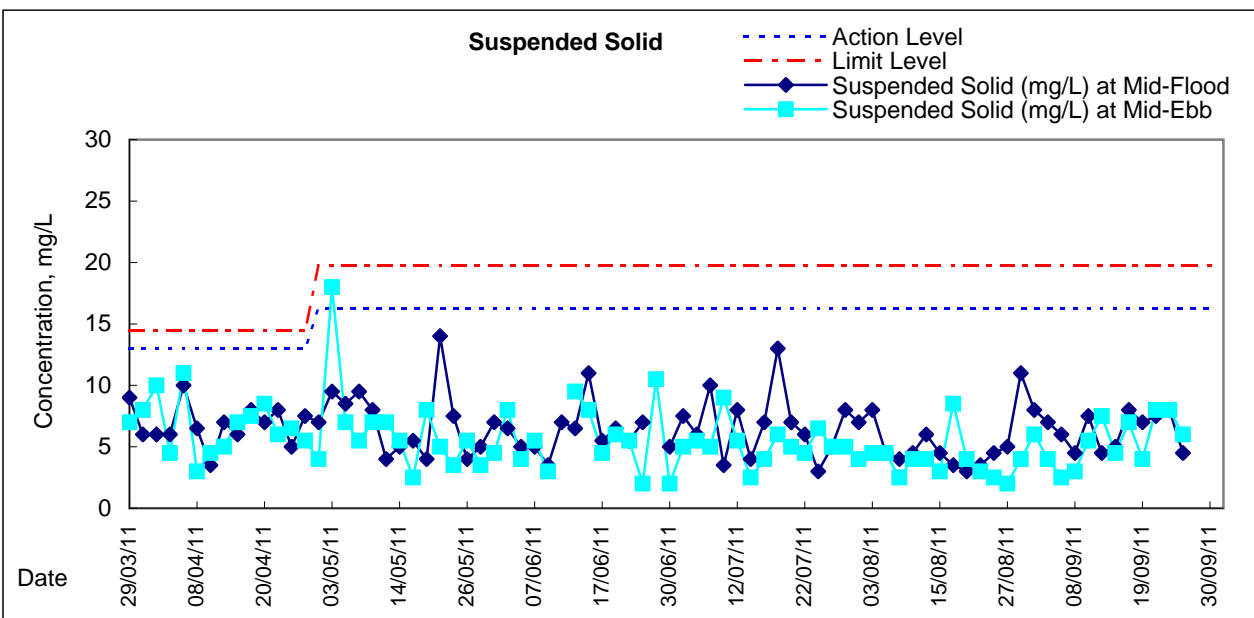
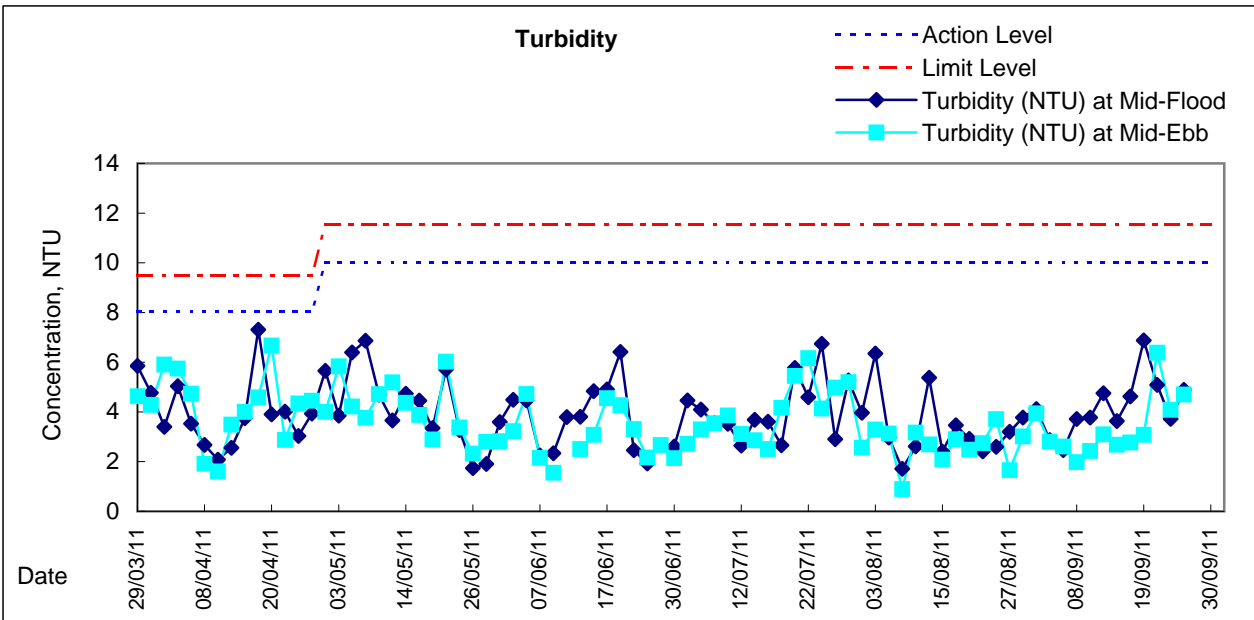
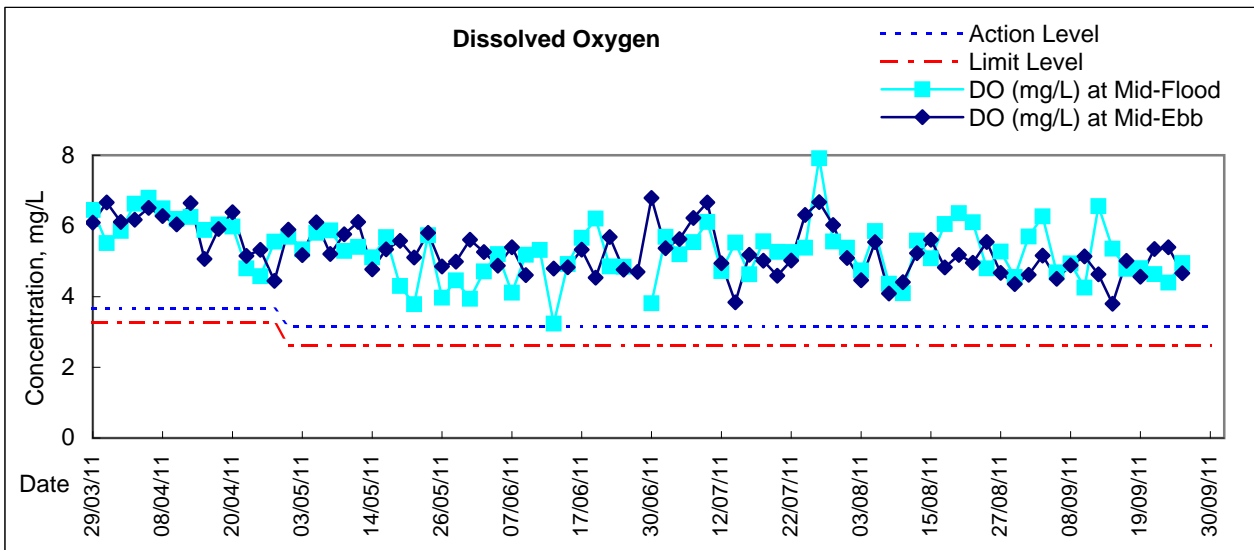


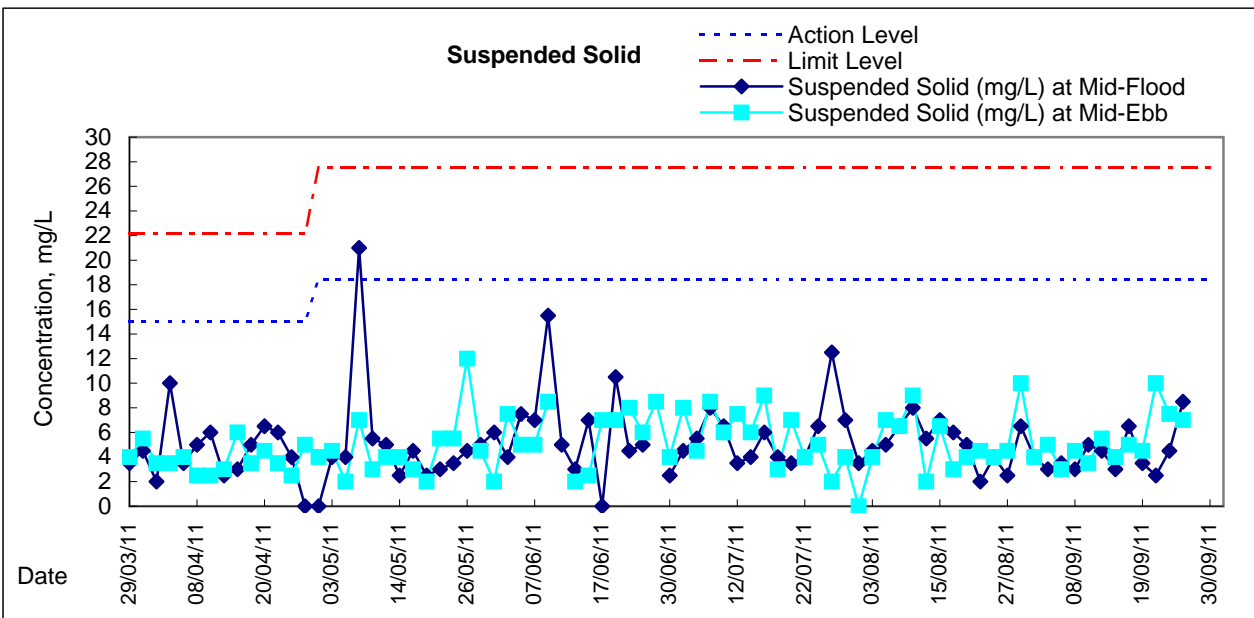
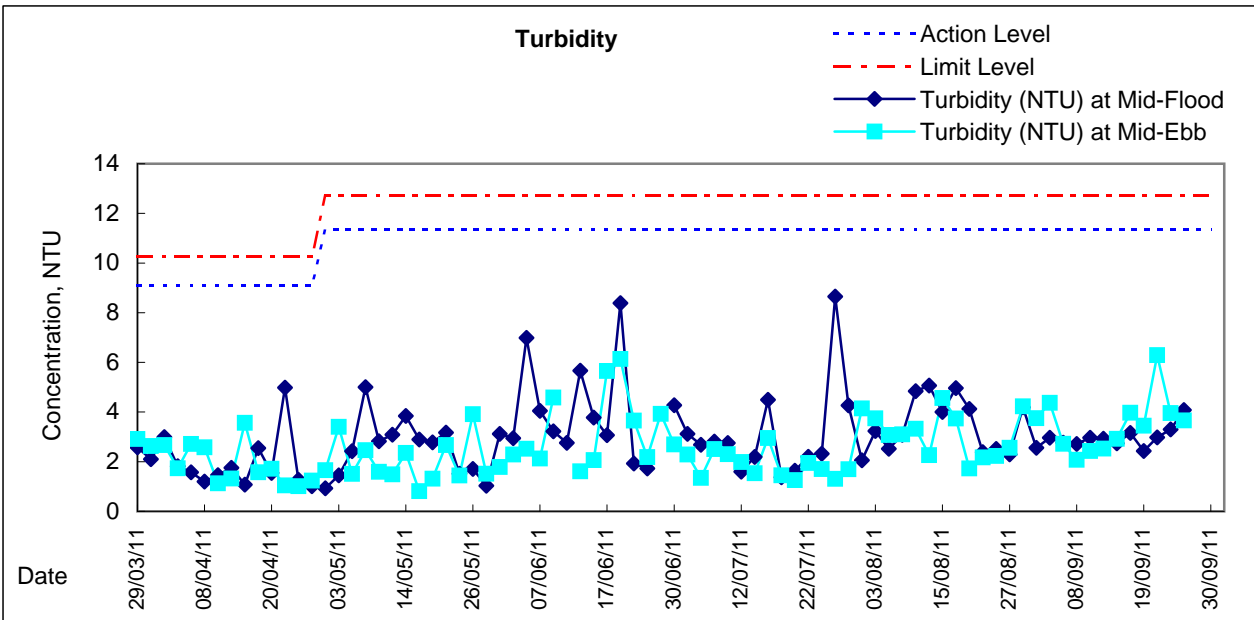
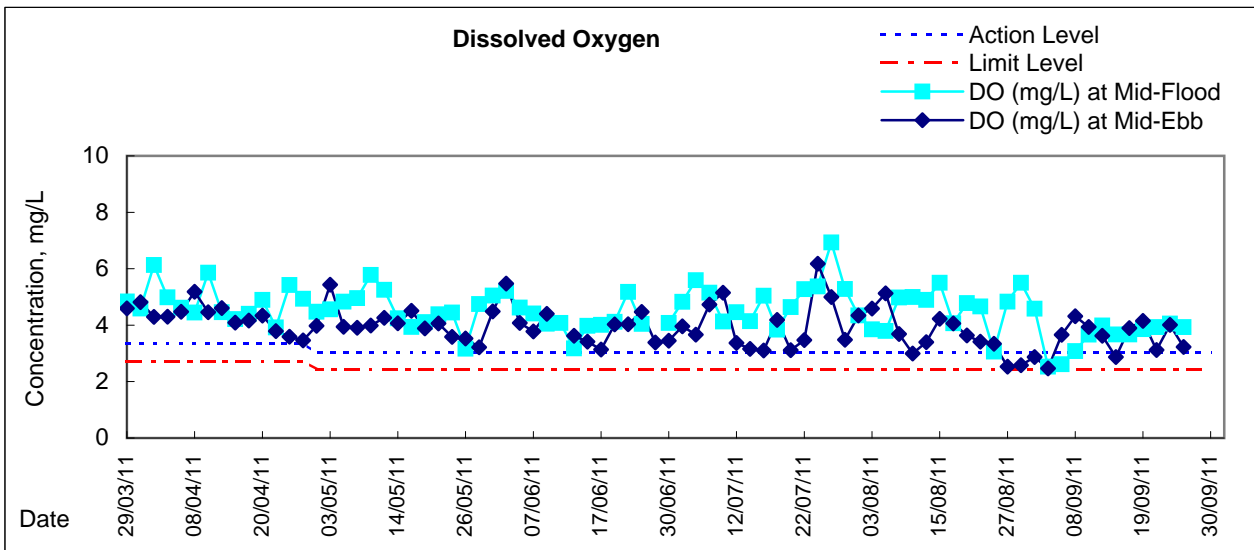
## Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)













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

Date	Time	Weather Condition	Sampling Depth	Water Temperature				pH		Salinity		DO Saturation		DO					
				°C				-		ppt		%		mg/L					
				m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20:14		Middle	1.5	27.01	27.01	27.0	7.39	7.39	7.4	31.32	31.32	31.3	88.7	88.3	88.5	5.93	5.91	5.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21:37		Middle	1.5	26.74	26.77	26.8	7.49	7.49	7.5	31.99	31.98	32.0	76.8	76.4	76.6	5.12	5.09	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:43		Middle	1.5	26.00	26.00	26.0	7.88	7.88	7.9	32.09	32.09	32.1	28.0	28.4	28.2	1.90	1.93	<u>1.92</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:35		Middle	1.0	26.20	26.20	26.2	7.83	7.83	7.8	32.02	32.02	32.0	19.6	18.6	19.1	1.32	1.26	<u>1.29</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14:35		Middle	1.5	27.50	27.50	27.5	7.90	7.90	7.9	31.97	31.97	32.0	34.5	35.6	35.1	2.27	2.34	<u>2.31</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19:08		Middle	1.5	28.04	28.05	28.0	7.31	7.31	7.3	31.78	31.78	31.8	74.7	74.5	74.6	4.99	4.87	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20:13		Middle	1.5	28.47	28.47	28.5	7.62	7.62	7.6	31.59	31.59	31.6	77.2	77.0	77.1	5.09	5.06	5.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20:15		Middle	1.5	28.73	28.73	28.7	7.45	7.45	7.5	31.63	31.63	31.6	75.8	74.5	75.2	4.91	4.83	4.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20:36		Middle	1.5	28.79	28.79	28.8	7.56	7.56	7.6	31.27	31.27	31.3	70.6	70.4	70.5	4.58	4.57	4.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12:02		Middle	1.5	29.20	29.20	29.2	7.97	7.97	8.0	31.96	31.96	32.0	31.9	31.7	31.8	2.05	2.04	<u>2.05</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	17:55		Middle	1.5	28.40	28.41	28.4	7.59	7.59	7.6	31.60	31.60	31.6	64.1	64.0	64.1	4.18	4.17	4.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14:00		Middle	1.5	28.40	28.40	28.4	8.12	8.12	8.1	32.54	32.54	32.5	47.8	48.1	48.0	3.10	3.12	3.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18:24		Middle	1.5	28.08	28.08	28.1	7.57	7.57	7.6	32.08	32.08	32.1	64.5	64.5	64.5	4.22	4.22	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth	Water Temperature				pH			Salinity			DO Saturation			DO		
				m	°C		-		ppt		%		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:06		Middle	1.5	26.81	26.81	26.8	7.15	7.15	7.2	31.52	31.52	31.5	82.2	82.2	82.2	5.50	5.50	5.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:25		Middle	1.5	26.55	26.56	26.6	7.31	7.31	7.3	32.11	32.11	32.1	68.9	68.8	68.9	4.62	4.61	4.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:50		Middle	1.5	26.50	26.50	26.5	7.85	7.85	7.9	31.85	31.85	31.9	40.7	39.6	40.2	2.72	2.66	<u>2.69</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:25		Middle	1.0	26.90	26.90	26.9	7.83	7.83	7.8	32.34	32.34	32.3	40.4	38.7	39.6	2.69	2.58	<u>2.64</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:46		Middle	1.5	28.20	28.20	28.2	7.90	7.90	7.9	32.71	32.71	32.7	49.0	47.6	48.3	3.18	3.09	<u>3.14</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:56		Middle	1.5	28.09	28.09	28.1	7.23	7.23	7.2	31.89	31.89	31.9	55.1	55.1	55.1	3.61	3.60	3.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:06		Middle	1.5	28.31	28.31	28.3	7.56	7.56	7.6	31.95	31.95	32.0	61.2	61.2	61.2	3.99	3.99	3.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:04		Middle	1.5	28.85	28.86	28.9	7.33	7.33	7.3	31.86	31.86	31.9	58.1	57.3	57.7	3.76	3.69	3.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:45		Middle	1.5	28.84	28.84	28.8	7.50	7.50	7.5	31.61	31.61	31.6	56.9	56.9	56.9	3.69	3.69	3.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:06		Middle	1.5	28.40	28.40	28.4	7.94	7.94	7.9	32.02	32.02	32.0	60.2	58.1	59.2	3.90	3.77	3.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:43		Middle	1.5	28.33	28.33	28.3	7.51	7.51	7.5	31.87	31.87	31.9	60.4	60.3	60.4	3.94	3.93	3.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:05		Middle	1.5	28.00	28.00	28.0	8.11	8.11	8.1	32.69	32.69	32.7	62.5	61.6	62.1	4.07	4.02	4.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:14		Middle	1.5	28.01	28.00	28.0	7.54	7.54	7.5	32.28	32.28	32.3	60.6	60.3	60.5	3.96	3.94	3.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth	Water Temperature				pH		Salinity		DO Saturation		DO					
				m	°C		-		ppt		%		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19:55		Middle	1.5	27.05	27.05	27.1	7.26	7.26	7.3	31.81	31.81	31.8	85.4	85.4	85.4	5.69	5.69	5.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21:05		Middle	1.0	26.50	26.50	26.5	7.35	7.35	7.4	32.27	32.27	32.3	85.8	85.1	85.5	5.75	5.71	5.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:30		Middle	1.5	25.90	25.90	25.9	7.89	7.89	7.9	32.28	32.28	32.3	36.8	36.7	36.8	2.49	2.48	<u>2.49</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:10		Middle	1.5	26.00	26.00	26.0	7.86	7.86	7.9	32.94	32.94	32.9	31.7	31.4	31.6	2.14	2.11	<u>2.13</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14:23		Middle	1.5	27.40	27.40	27.4	7.96	7.96	8.0	33.15	33.15	33.2	51.7	50.9	51.3	3.40	3.35	3.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18:35		Middle	1.5	27.85	27.85	27.9	7.26	7.26	7.3	32.44	32.44	32.4	75.4	75.3	75.4	4.93	4.92	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19:50		Middle	1.5	27.98	27.98	28.0	7.43	7.43	7.4	32.17	32.17	32.2	85.5	84.6	85.1	5.56	5.48	5.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19:50		Middle	1.5	28.72	28.71	28.7	7.88	7.88	7.9	32.09	32.09	32.1	80.8	80.1	80.5	5.22	5.18	5.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22:12		Middle	1.5	28.63	28.63	28.6	7.74	7.74	7.7	31.89	31.89	31.9	60.6	60.0	60.3	3.89	3.86	3.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:52		Middle	1.5	29.10	29.10	29.1	8.06	8.06	8.1	32.59	32.59	32.6	46.5	46.4	46.5	2.98	2.97	<u>2.98</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	17:30		Middle	1.5	28.41	28.41	28.4	7.57	7.57	7.6	32.16	32.16	32.2	60.5	60.2	60.4	3.94	3.91	3.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	13:45		Middle	1.5	28.10	28.10	28.1	8.22	8.22	8.2	32.25	32.25	32.3	52.8	52.2	52.5	3.40	3.37	3.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18:00		Middle	1.5	28.09	28.09	28.1	7.59	7.59	7.6	32.68	32.68	32.7	64.5	64.3	64.4	4.21	4.20	4.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth	Water Temperature				pH			Salinity			DO Saturation			DO		
				m	°C			-		ppt		%		mg/L					
					Value	Average		Value	Average	Value	Average	Value	Average	Value	Average				
29/8/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:00		Middle	1.5	27.10	27.10	27.1	7.26	7.26	7.3	31.81	31.81	31.8	85.3	85.3	85.3	5.68	5.68	5.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:10		Middle	1.0	26.46	26.45	26.5	7.40	7.40	7.4	32.35	32.35	32.4	89.8	89.3	89.6	6.02	6.00	6.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	1.0	25.90	25.90	25.9	7.87	7.87	7.9	32.25	32.26	32.3	34.2	34.4	34.3	2.32	2.34	<u>2.33</u>
	10:20		Middle	2.0	25.90	25.90	25.9	7.86	7.86	7.9	32.34	32.34	32.3	31.9	32.8	32.4	2.16	2.22	<u>2.19</u>
	-		Bottom	3.0	25.90	25.90	25.9	7.83	7.83	7.8	32.41	32.41	32.4	33.5	33.1	33.3	2.27	2.24	<u>2.26</u>
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:05		Middle	1.5	25.90	25.90	25.9	7.89	7.89	7.9	32.94	32.94	32.9	29.8	29.8	29.8	2.01	2.00	<u>2.01</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:15		Middle	1.5	27.20	27.20	27.2	7.99	7.99	8.0	33.22	33.22	33.2	56.4	53.9	55.2	3.72	3.56	3.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:40		Middle	1.5	27.85	27.85	27.9	7.27	7.27	7.3	32.43	32.42	32.4	75.2	74.9	75.1	4.91	4.90	4.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:55		Middle	1.5	28.00	28.01	28.0	7.43	7.43	7.4	32.25	32.25	32.3	80.6	80.3	80.5	5.27	5.25	5.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:55		Middle	1.5	28.74	28.74	28.7	7.88	7.88	7.9	32.03	32.03	32.0	79.1	78.9	79.0	5.11	5.10	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:17		Middle	1.5	28.63	28.63	28.6	7.74	7.74	7.7	31.80	31.80	31.8	58.7	58.6	58.7	3.80	3.80	3.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:47		Middle	1.5	29.10	29.10	29.1	8.05	8.05	8.1	32.56	32.56	32.6	46.2	45.3	45.8	2.96	2.90	<u>2.93</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:35		Middle	1.5	28.39	28.39	28.4	7.57	7.57	7.6	32.15	32.15	32.2	58.2	58.1	58.2	3.79	3.77	3.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:40		Middle	1.5	28.40	28.40	28.4	8.15	8.15	8.2	33.20	33.20	33.2	47.0	46.5	46.8	3.03	3.01	<u>3.02</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:05		Middle	1.5	28.14	28.14	28.1	7.59	7.59	7.6	32.63	32.63	32.6	67.6	67.4	67.5	4.40	4.39	4.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weater Condition	Sampling Depth	Water Temperature				pH		Salinity		DO Saturation		DO					
				m	°C		-		ppt		%		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:46		Middle	2	25.90	25.90	25.9	7.97	7.97	8.0	32.02	32.02	32.0	50.5	50.4	50.5	3.39	3.39	3.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	13:15		Middle	2	26.20	26.20	26.2	7.87	7.87	7.9	32.70	32.68	32.7	54.6	53.2	53.9	3.66	3.57	3.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14:15		Middle	2	26.20	26.20	26.2	7.90	7.90	7.9	32.15	32.15	32.2	29.6	29.8	29.7	2.00	2.01	<u>2.01</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7:11		Middle	2	26.26	26.27	26.3	7.27	7.27	7.3	32.26	32.26	32.3	73.5	71.8	72.7	4.95	4.83	4.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12:15		Middle	2	27.20	27.20	27.2	7.88	7.88	7.9	31.92	31.92	31.9	24.7	24.0	24.4	1.65	1.59	<u>1.62</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:55		Middle	2	27.50	27.50	27.5	7.89	7.89	7.9	32.51	32.51	32.5	36.9	36.7	36.8	2.43	2.42	<u>2.43</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	13:00		Middle	2	27.90	27.90	27.9	7.98	7.98	8.0	32.20	32.20	32.2	43.9	43.3	43.6	3.66	3.02	3.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:58		Middle	2	28.70	28.70	28.7	8.04	8.04	8.0	32.48	32.48	32.5	36.2	35.9	36.1	2.34	2.32	<u>2.33</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16:02		Middle	2	29.20	29.20	29.2	8.01	8.01	8.0	32.02	32.02	32.0	38.0	35.2	36.6	2.44	2.26	<u>2.35</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2:43		Middle	2	28.59	28.59	28.6	7.64	7.64	7.6	31.29	31.29	31.3	82.9	82.7	82.8	5.40	5.39	5.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6:09		Middle	2	28.70	28.70	28.7	8.12	8.12	8.1	32.50	32.50	32.5	41.1	40.8	41.0	2.66	2.64	2.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:26		Middle	2	28.10	28.10	28.1	8.15	8.15	8.2	32.68	32.68	32.7	47.7	47.8	47.8	3.10	3.11	3.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:45		Middle	2	27.90	27.90	27.9	8.14	8.14	8.1	32.94	32.94	32.9	47.6	47.0	47.3	3.11	3.07	3.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.





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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
					°C			-			ppt			%			mg/L		
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
29/8/2011	10:34	Fine	Surface	1.0	26.00	26.00	26.0	7.96	7.96	8.0	32.31	32.31	32.3	35.5	35.0	35.3	2.40	2.36	<u>2.38</u>
	10:35		Middle	2.0	26.00	26.00	26.0	7.96	7.96	8.0	32.35	32.35	32.4	38.2	35.0	36.6	2.59	2.37	<u>2.48</u>
	10:36		Bottom	3.0	25.60	25.60	25.6	7.99	7.99	8.0	32.62	32.62	32.6	34.3	34.8	34.6	2.33	2.37	<u>2.35</u>
1/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:57		Middle	1.5	26.00	26.00	26.0	7.96	7.96	8.0	32.91	32.91	32.9	45.7	44.9	45.3	3.08	3.02	<u>3.05</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:05		Middle	1.5	25.80	25.80	25.8	7.93	7.93	7.9	32.92	32.92	32.9	37.2	37.0	37.1	2.51	2.50	<u>2.51</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:48		Middle	1.0	27.06	27.06	27.1	7.35	7.35	7.4	32.54	32.54	32.5	82.9	82.8	82.9	5.50	5.50	5.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:02		Middle	1.5	27.00	27.00	27.0	7.90	7.90	7.9	33.02	33.02	33.0	41.0	42.4	41.7	2.72	2.81	<u>2.77</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:38		Middle	1.5	27.30	27.30	27.3	7.89	7.89	7.9	33.12	33.12	33.1	42.6	42.9	42.8	2.80	2.82	<u>2.81</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:54		Middle	1.5	27.80	27.80	27.8	7.92	7.92	7.9	32.77	32.77	32.8	48.6	49.0	48.8	3.18	3.20	3.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:50		Middle	1.5	28.40	28.40	28.4	7.99	7.99	8.0	32.87	32.87	32.9	53.2	52.9	53.1	3.44	3.42	3.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:50		Middle	1.5	29.00	29.00	29.0	8.22	8.22	8.2	32.53	32.53	32.5	42.8	43.4	43.1	2.75	2.79	<u>2.77</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:00		Middle	1.0	28.67	28.67	28.7	7.73	7.73	7.7	31.83	31.83	31.8	64.2	64.8	64.5	4.17	4.20	4.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:55		Middle	1.5	28.40	28.40	28.4	8.13	8.13	8.1	33.08	33.08	33.1	44.7	44.1	44.4	2.89	2.85	<u>2.87</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	1.0	28.20	28.20	28.2	8.19	8.19	8.2	33.23	33.23	33.2	55.0	52.6	53.8	3.56	3.41	3.49
	7:15		Middle	2.0	28.20	28.20	28.2	8.19	8.19	8.2	33.32	33.32	33.3	55.2	53.6	54.4	3.58	3.47	3.53
	-		Bottom	3.0	28.20	28.20	28.2	8.20	8.20	8.2	33.32	33.32	33.3	55.8	53.4	54.6	3.61	3.46	3.54
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:30		Middle	1.5	27.90	27.90	27.9	8.18	8.18	8.2	33.39	33.39	33.4	56.9	54.4	55.7	3.71	3.52	3.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

Date	Time	Weather Condition	Sampling Depth	Water Temperature				pH		Salinity		DO Saturation		DO					
				m	°C		-		ppt		%		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29/8/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:50		Middle	2	28.10	28.10	28.1	7.95	7.95	8.0	32.11	32.11	32.1	37.9	39.1	38.5	2.48	2.55	<u>2.52</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	13:25		Middle	2	26.90	26.90	26.9	7.91	7.91	7.9	32.80	32.80	32.8	42.7	43.3	43.0	2.84	2.87	<u>2.86</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14:25		Middle	2	26.60	26.60	26.6	7.92	7.92	7.9	32.21	32.21	32.2	37.7	37.1	37.4	2.52	2.48	<u>2.50</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7:04		Middle	2	26.65	26.65	26.7	7.23	7.23	7.2	32.15	32.15	32.2	55.0	54.8	54.9	3.68	3.66	3.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12:28		Middle	1	28.00	28.00	28.0	7.93	7.93	7.9	32.68	32.68	32.7	67.5	65.9	66.7	4.38	4.28	4.33
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12:05		Middle	2	28.20	28.20	28.2	7.88	7.88	7.9	32.72	32.72	32.7	62.1	60.8	61.5	4.03	3.94	3.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	13:06		Middle	1	28.60	28.60	28.6	8.01	8.01	8.0	32.39	32.39	32.4	56.3	55.4	55.9	3.65	3.59	3.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12:06		Middle	2	29.60	29.60	29.6	7.97	7.97	8.0	32.62	32.62	32.6	45.9	45.6	45.8	2.92	2.90	<u>2.91</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16:05		Middle	2	29.30	29.30	29.3	7.97	7.97	8.0	32.17	32.17	32.2	59.3	60.5	59.9	3.82	3.88	3.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2:36		Middle	2	28.91	28.91	28.9	7.63	7.63	7.6	31.65	31.65	31.7	64.1	64.2	64.2	4.15	4.15	4.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6:19		Middle	2	27.70	27.70	27.7	8.14	8.14	8.1	33.36	33.36	33.4	47.7	47.0	47.4	3.13	3.08	<u>3.11</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10:30		Middle	2	27.80	27.80	27.8	8.14	8.14	8.1	32.98	32.98	33.0	61.7	60.8	61.3	4.03	3.98	4.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:53		Middle	2	28.10	28.10	28.1	8.15	8.15	8.2	33.07	33.07	33.1	50.2	48.4	49.3	3.26	3.14	<u>3.20</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

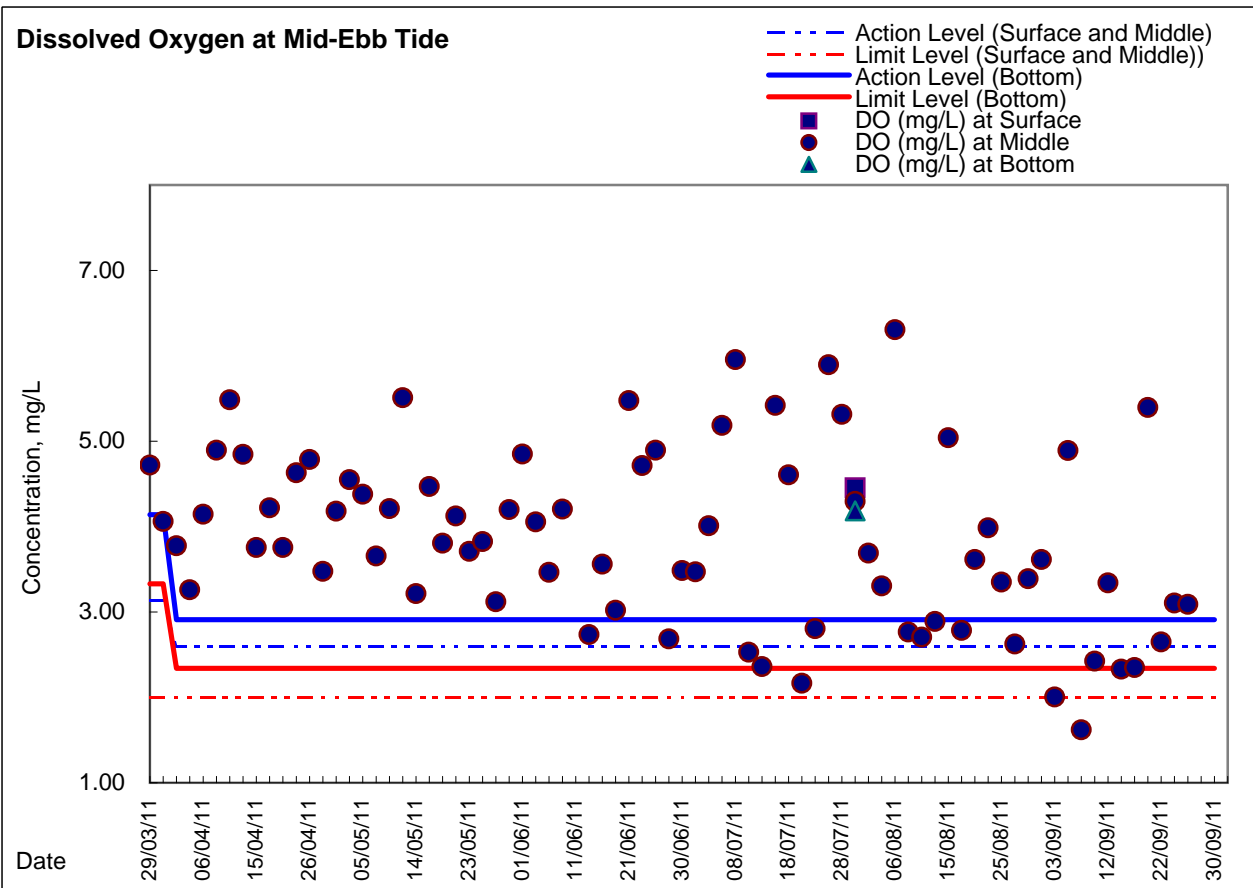
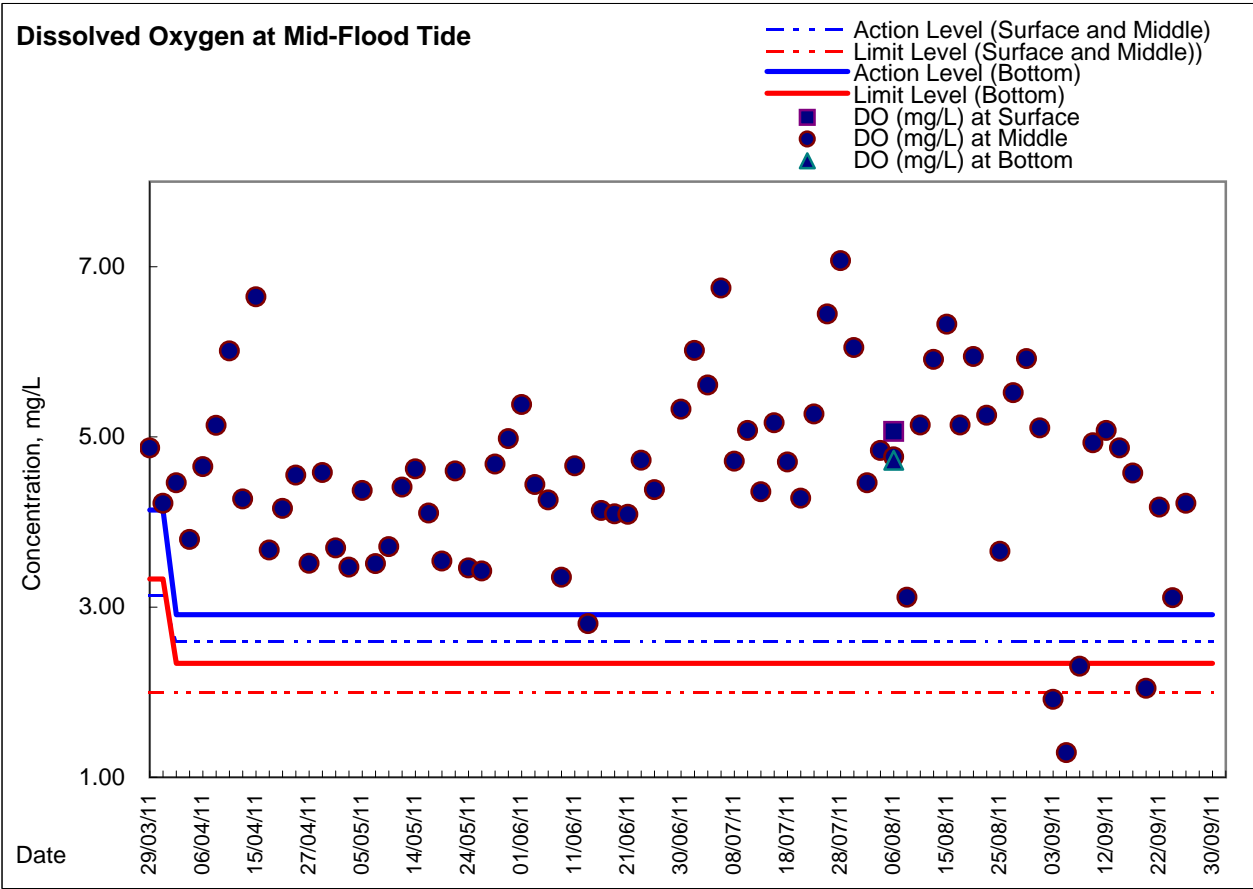
Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
					°C			-			ppt			%			mg/L		
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
29/8/2011	10:24	Fine	Surface	1.0	26.00	26.00	26.0	8.01	8.01	8.0	32.32	32.32	32.3	39.5	39.9	39.7	2.67	2.70	<u>2.69</u>
	10:25		Middle	2.0	25.90	25.90	25.9	8.00	8.00	8.0	32.39	32.39	32.4	38.2	38.0	38.1	2.59	2.58	<u>2.59</u>
	10:26		Bottom	3.0	25.80	25.80	25.8	8.00	8.00	8.0	32.45	32.45	32.5	38.0	38.1	38.1	2.58	2.59	<u>2.59</u>
1/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:52		Middle	1.5	26.00	26.00	26.0	7.92	7.92	7.9	32.97	32.97	33.0	41.5	41.2	41.4	2.80	2.78	<u>2.79</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:00		Middle	1.5	25.80	25.80	25.8	7.99	7.99	8.0	32.92	32.92	32.9	37.8	37.7	37.8	2.56	2.55	<u>2.56</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:51		Middle	1.0	26.96	26.96	27.0	7.34	7.34	7.3	32.57	32.57	32.6	81.9	81.9	81.9	5.44	5.44	5.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:55		Middle	1.5	26.80	26.80	26.8	7.88	7.88	7.9	33.07	33.07	33.1	39.7	38.8	39.3	2.63	2.59	<u>2.61</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:32		Middle	1.5	27.30	27.30	27.3	7.92	7.92	7.9	33.14	33.14	33.1	46.7	46.6	46.7	3.08	3.07	<u>3.08</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:48		Middle	1.5	27.70	27.70	27.7	7.97	7.97	8.0	32.90	32.90	32.9	47.8	47.4	47.6	3.13	3.10	<u>3.12</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:45		Middle	1.5	28.50	28.50	28.5	8.00	8.00	8.0	32.89	32.89	32.9	52.0	52.1	52.1	3.36	3.37	<u>3.37</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/9/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:45		Middle	1.5	28.90	28.90	28.9	8.14	8.14	8.1	32.46	32.46	32.5	41.6	41.1	41.4	2.68	2.64	<u>2.66</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:10		Middle	1.0	28.84	28.84	28.8	7.69	7.69	7.7	32.01	32.01	32.0	68.1	68.2	68.2	4.40	4.40	4.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:50		Middle	1.5	28.50	28.50	28.5	8.06	8.06	8.1	33.12	33.12	33.1	42.8	42.2	42.5	2.76	2.72	<u>2.74</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:10		Middle	1.5	28.10	28.10	28.1	8.17	8.17	8.2	33.28	33.28	33.3	47.1	46.2	46.7	3.05	3.00	<u>3.03</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:24		Middle	1.5	27.90	27.90	27.9	8.15	8.15	8.2	33.30	33.30	33.3	47.8	47.3	47.6	3.11	3.08	<u>3.10</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level.

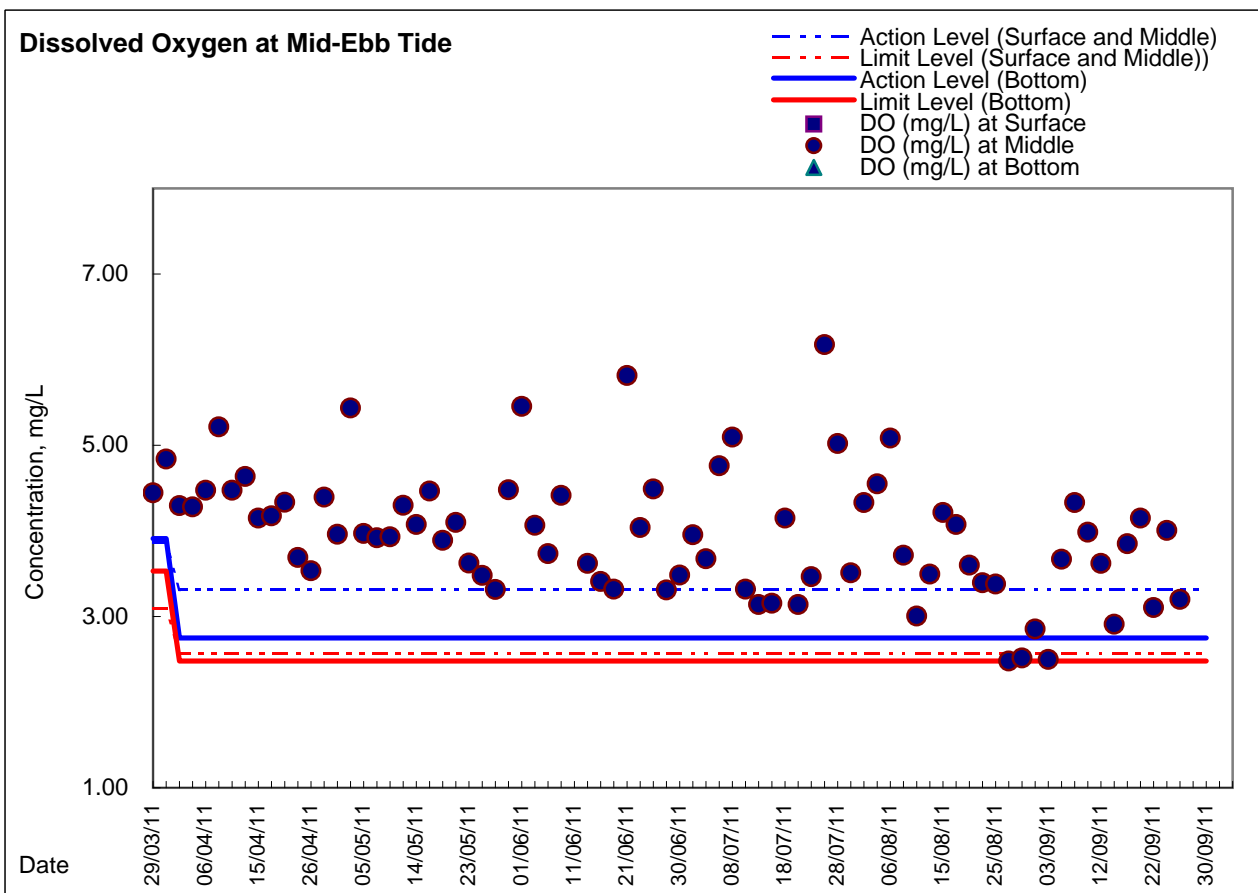
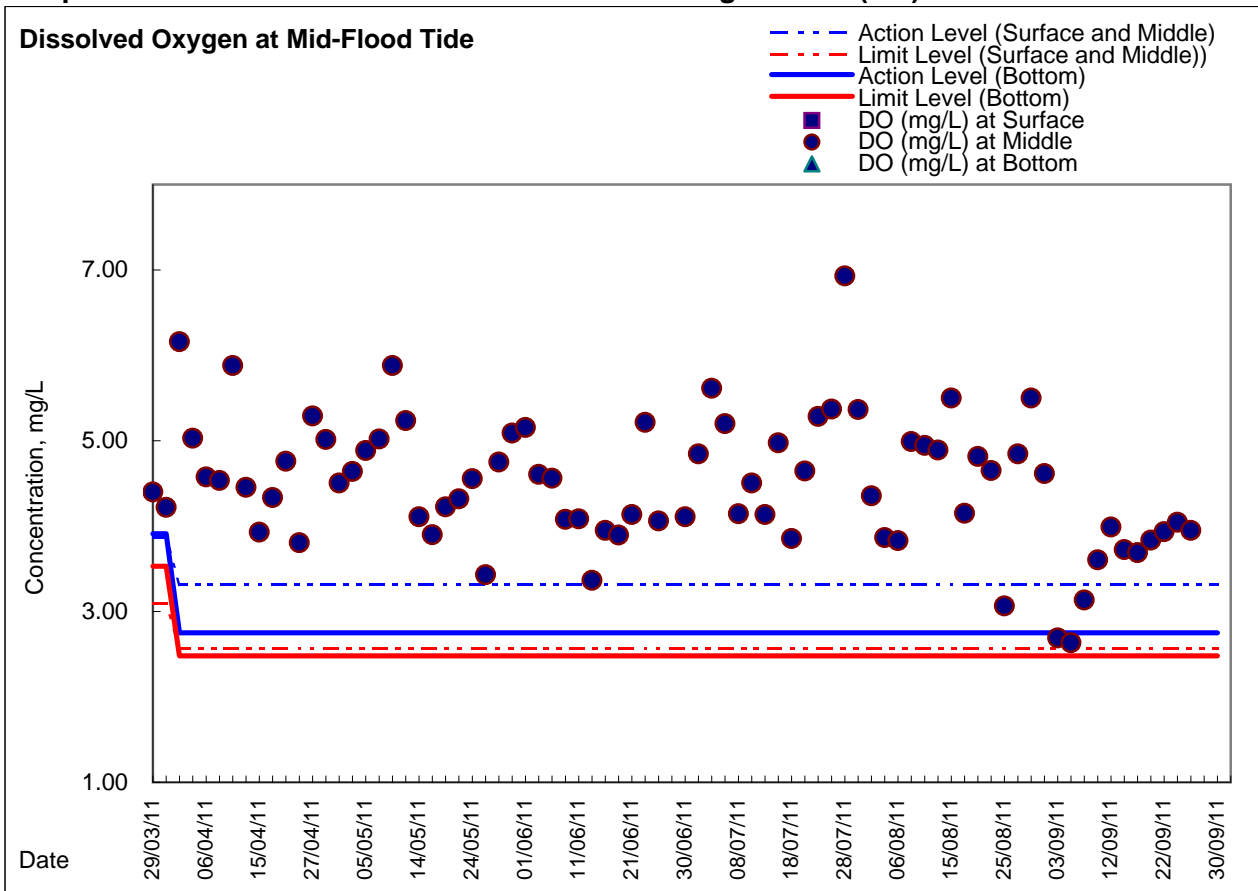
Double underline denotes exceedance over Limit Level.

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



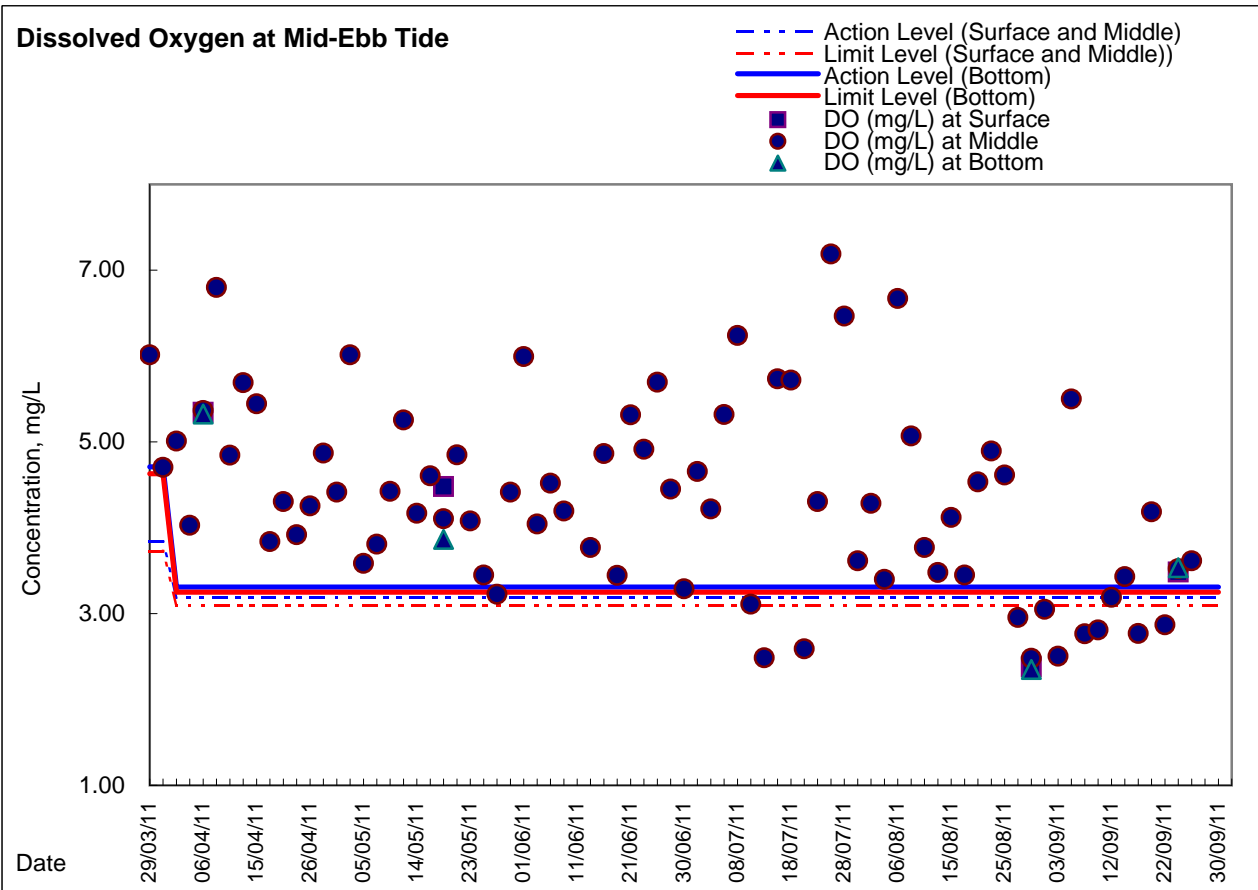
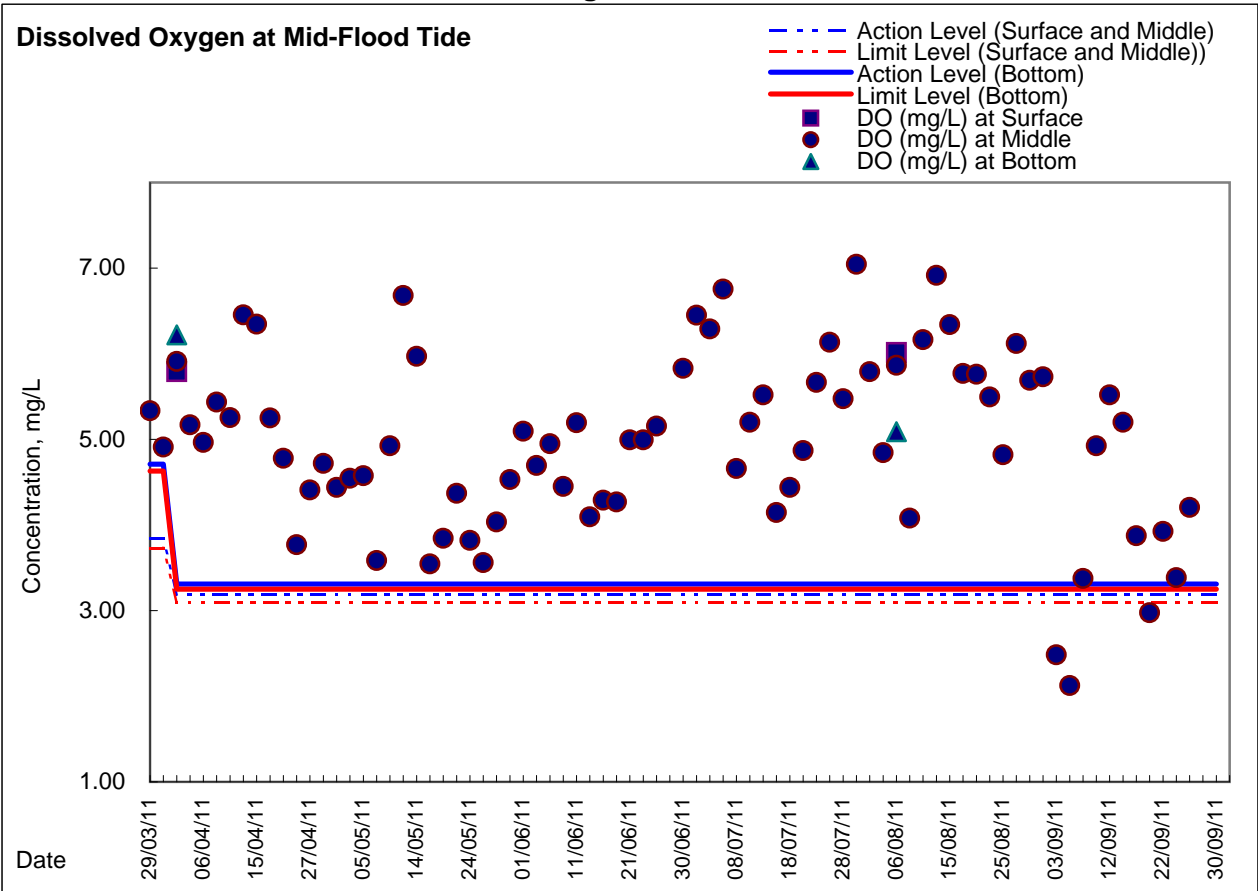


### Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



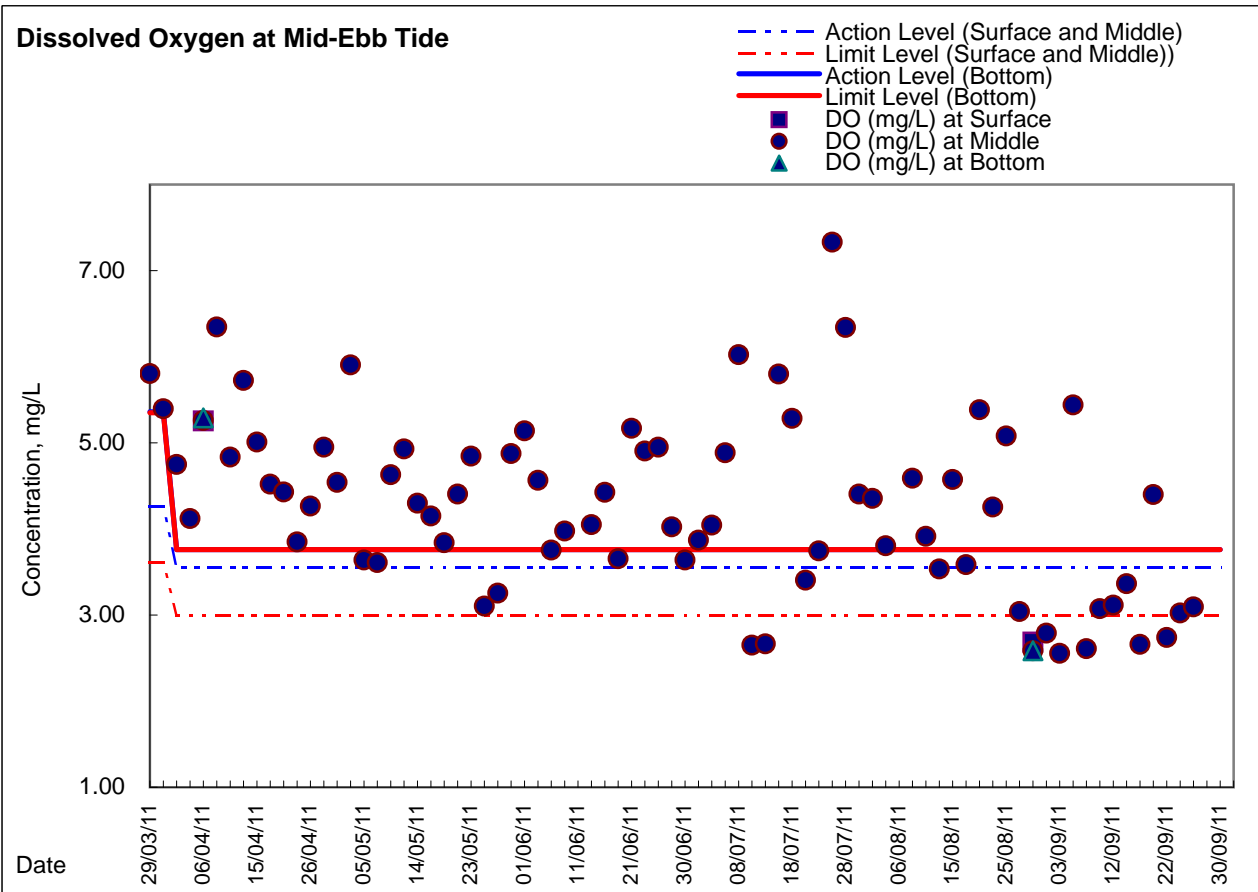
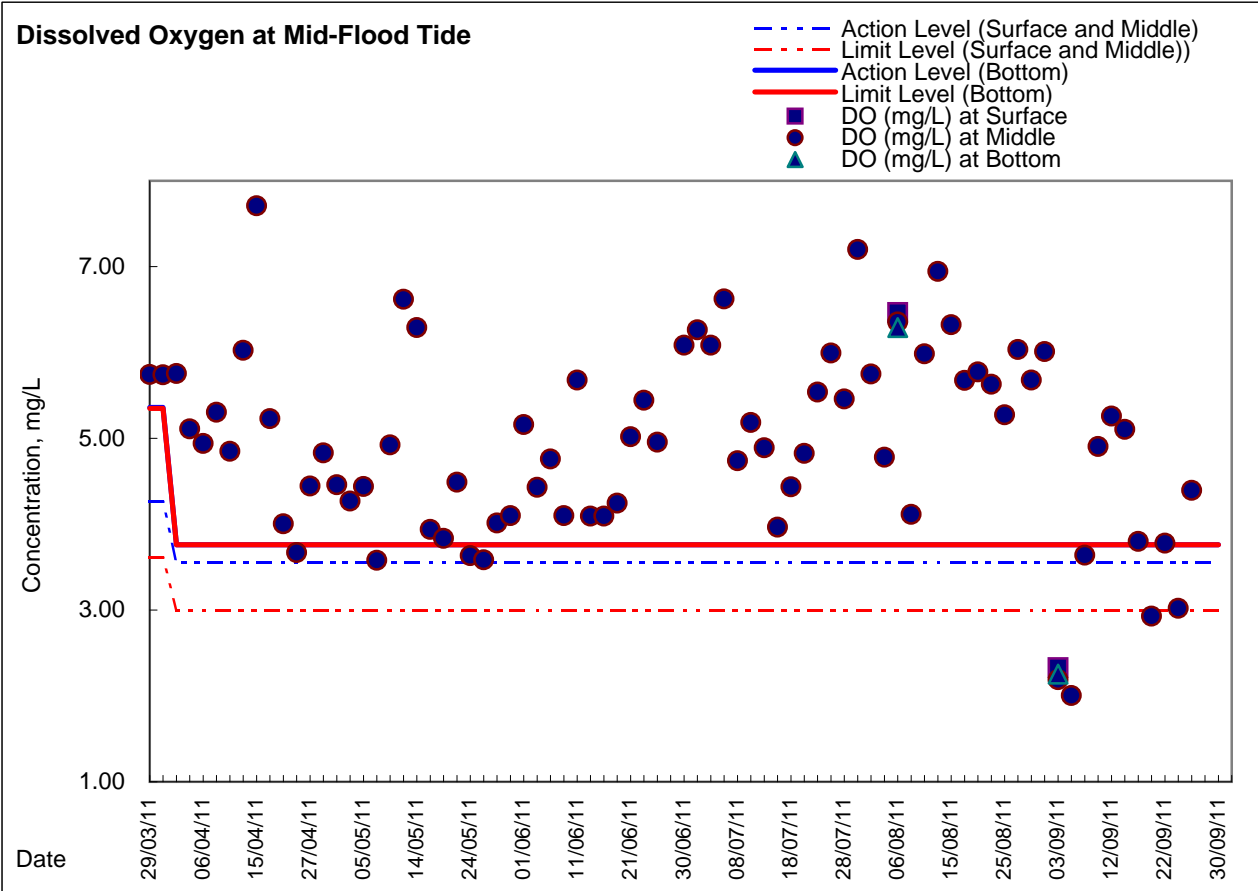


### Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





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





***Appendix 5.5***

*Real-time Noise Monitoring Results and Graphical Presentations*



Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

Normal Day 07:00-19:00

29/8/2011 7:01	64.9
29/8/2011 7:31	65.1
29/8/2011 8:01	64.8
29/8/2011 8:31	67.1
29/8/2011 9:01	66.7
29/8/2011 9:31	69.6
29/8/2011 10:01	69.9
29/8/2011 10:31	69.3
29/8/2011 11:01	69.7
29/8/2011 11:31	66.3
29/8/2011 12:01	65.1
29/8/2011 12:31	64.7
29/8/2011 13:01	68.6
29/8/2011 13:31	67.5
29/8/2011 14:01	66.4
29/8/2011 14:31	67.0
29/8/2011 15:01	67.4
29/8/2011 15:31	67.2
29/8/2011 16:01	66.7
29/8/2011 16:31	69.8
29/8/2011 17:01	68.2
29/8/2011 17:31	68.0
29/8/2011 18:01	65.7
29/8/2011 18:31	65.6
30/8/2011 7:01	66.0
30/8/2011 7:31	68.9
30/8/2011 8:01	68.8
30/8/2011 8:31	63.3
30/8/2011 9:01	69.0
30/8/2011 9:31	68.8
30/8/2011 10:01	66.9
30/8/2011 10:31	67.5
30/8/2011 11:01	67.4
30/8/2011 11:31	68.4
30/8/2011 12:01	65.5
30/8/2011 12:31	65.1
30/8/2011 13:01	67.6
30/8/2011 13:31	68.1
30/8/2011 14:01	67.2
30/8/2011 14:31	71.0
30/8/2011 15:01	71.6
30/8/2011 15:31	68.6
30/8/2011 16:01	68.0
30/8/2011 16:31	68.0
30/8/2011 17:01	69.1
30/8/2011 17:31	65.7
30/8/2011 18:01	65.3
30/8/2011 18:31	64.6
31/8/2011 7:01	64.9
31/8/2011 7:31	65.8
31/8/2011 8:01	65.2
31/8/2011 8:31	65.6
31/8/2011 9:01	68.7
31/8/2011 9:31	68.1
31/8/2011 10:01	66.4
31/8/2011 10:31	66.0
31/8/2011 11:01	65.7
31/8/2011 11:31	69.3
31/8/2011 12:01	63.8
31/8/2011 12:31	64.3
31/8/2011 13:01	66.1
31/8/2011 13:31	66.8
31/8/2011 14:01	67.9
31/8/2011 14:31	68.9
31/8/2011 15:01	66.9
31/8/2011 15:31	66.9
31/8/2011 16:01	69.2
31/8/2011 16:31	67.7
31/8/2011 17:01	67.0
31/8/2011 17:31	66.5
31/8/2011 18:01	64.8
31/8/2011 18:31	64.4
1/9/2011 7:01	64.6
1/9/2011 7:31	65.1
1/9/2011 8:01	64.7
1/9/2011 8:31	65.8
1/9/2011 9:01	69.5
1/9/2011 9:31	68.4
1/9/2011 10:01	67.2
1/9/2011 10:31	66.9
1/9/2011 11:01	67.8
1/9/2011 11:31	66.7
1/9/2011 12:01	65.4
1/9/2011 12:31	64.6
1/9/2011 13:01	66.7
1/9/2011 13:31	66.7
1/9/2011 14:01	67.4
1/9/2011 14:31	66.5
1/9/2011 15:01	66.8
1/9/2011 15:31	66.8
1/9/2011 16:01	67.6
1/9/2011 16:31	68.0
1/9/2011 17:01	68.7
1/9/2011 17:31	66.4
1/9/2011 18:01	64.8
1/9/2011 18:31	64.8
2/9/2011 7:01	64.8
2/9/2011 7:31	65.4
2/9/2011 8:01	65.0
2/9/2011 8:31	69.8
2/9/2011 9:01	68.1
2/9/2011 9:31	70.5
2/9/2011 10:01	70.8
2/9/2011 10:31	69.5
2/9/2011 11:01	71.5
2/9/2011 11:31	65.7
2/9/2011 12:01	64.9
2/9/2011 12:31	65.1
2/9/2011 13:01	66.8
2/9/2011 13:31	65.1
2/9/2011 14:01	66.7
2/9/2011 14:31	71.5
2/9/2011 15:01	66.2
2/9/2011 15:31	65.1
2/9/2011 16:01	68.8
2/9/2011 16:31	65.5
2/9/2011 17:01	69.8
2/9/2011 17:31	67.1
2/9/2011 18:01	67.1
2/9/2011 18:31	64.0
2/9/2011 19:01	64.7
8/9/2011 7:31	65.5
8/9/2011 8:01	65.0

2/9/2011 13:31	68.0
2/9/2011 14:01	68.7
2/9/2011 14:31	68.1
2/9/2011 15:01	68.3
2/9/2011 15:31	69.2
2/9/2011 16:01	67.3
2/9/2011 16:31	68.3
2/9/2011 17:01	67.5
2/9/2011 17:31	65.1
2/9/2011 18:01	64.1
2/9/2011 18:31	62.7
3/9/2011 7:01	64.1
3/9/2011 7:31	65.5
3/9/2011 8:01	66.8
3/9/2011 8:31	69.6
3/9/2011 9:01	66.6
3/9/2011 9:31	66.3
3/9/2011 10:01	69.7
3/9/2011 10:31	67.8
3/9/2011 11:01	67.5
3/9/2011 11:31	68.0
3/9/2011 12:01	65.0
3/9/2011 12:31	65.2
3/9/2011 13:01	66.2
3/9/2011 13:31	71.9
3/9/2011 14:01	68.8
3/9/2011 14:31	66.8
3/9/2011 15:01	69.9
3/9/2011 15:31	68.5
3/9/2011 16:01	69.2
3/9/2011 16:31	67.6
3/9/2011 17:01	65.6
3/9/2011 17:31	64.8
3/9/2011 18:01	64.6
3/9/2011 18:31	63.6
5/9/2011 7:01	65.1
5/9/2011 7:31	65.0
5/9/2011 8:01	64.9
5/9/2011 8:31	65.6
5/9/2011 9:01	65.9
5/9/2011 9:31	67.1
5/9/2011 10:01	67.3
5/9/2011 10:31	67.7
5/9/2011 11:01	67.6
5/9/2011 11:31	65.5
5/9/2011 12:01	63.9
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7/9/2011 9:31	67.4
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7/9/2011 17:31	67.1
7/9/2011 18:01	67.1
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8/9/2011 8:01	65.0

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15/9/2011 11:01	69.3
15/9/2011 11:31	67.2
15/9/2011 12:01	65.2
15/9/2011 12:31	65.1
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15/9/201	

Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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28/8/2011 13:16	64.5	28/8/2011 22:26	64.3	31/8/2011 19:36	65.8	2/9/2011 20:46	64.8	4/9/2011 9:56	65.3	4/9/2011 19:06	65.2
28/8/2011 13:21	64.6	28/8/2011 22:31	63.5	31/8/2011 19:41	65.2	2/9/2011 20:51	65.5	4/9/2011 10:01	65.7	4/9/2011 19:11	66.1
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28/8/2011 13:36	64.3	28/8/2011 22:46	63.9	31/8/2011 19:56	65.4	2/9/2011 21:06	64.4	4/9/2011 10:16	65.6	4/9/2011 19:26	65.9
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28/8/2011 17:11	65.0	29/8/2011 22:21	63.3	1/9/2011 19:31	64.8	3/9/2011 20:41	64.4	4/9/2011 13:51	64.2	4/9/2011 23:01	62.7
28/8/2011 17:16	65.0	29/8/2011 22:26	63.5	1/9/2011 19:36	64.8	3/9/2011 20:46	64.6	4/9/2011 13:56	64.8	5/9/2011 19:01	62.0
28/8/2011 17:21	65.6	29/8/2011 22:31	63.7	1/9/2011 19:41	64.7	3/9/2011 20:51	64.5	4/9/2011 14:01	63.3	5/9/2011 19:06	62.7
28/8/2011 17:26	65.3	29/8/2011 22:36	64.3	1/9/2011 19:46	64.6	3/9/2011 20:56	64.5	4/9/2011 14:06	63.6	5/9/2011 19:11	62.2

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5/9/2011 22:36	64.2	8/9/2011 19:46	65.2	10/9/2011 20:56	63.7	11/9/2011 14:06	64.0	12/9/2011 19:16	63.2	13/9/2011 12:26	63.6
5/9/2011 22:41	63.8	8/9/2011 19:51	64.2	10/9/2011 21:01	64.4	11/9/2011 14:11	64.1	12/9/2011 19:21	63.2	13/9/2011 12:31	63.8
5/9/2011 22:46	63.8	8/9/2011 19:56	65.0	10/9/2011 21:06	64.3	11/9/2011 14:16	63.8	12/9/2011 19:26	64.4	13/9/2011 12:36	63.4
5/9/2011 22:51	64.7	8/9/2011 20:01	65.9	10/9/2011 21:11	63.3	11/9/2011 14:21	64.4	12/9/2011 19:31	64.0	13/9/2011 12:41	63.1
5/9/2011 22:56	63.1	8/9/2011 20:06	64.7	10/9/2011 21:16	64.5	11/9/2011 14:26	64.2	12/9/2011 19:36	64.0	13/9/2011 12:46	63.6
6/9/2011 19:01	61.9	8/9/2011 20:11	64.5	10/9/2011 21:21	63.3	11/9/2011 14:31	64.0	12/9/2011 19:41	65.0	13/9/2011 12:51	63.4
6/9/2011 19:06	62.3	8/9/2011 20:16	64.5	10/9/2011 21:26	64.4	11/9/2011 14:36	64.1	12/9/2011 19:46	64.7	13/9/2011 12:56	64.8
6/9/2011 19:11	61.7	8/9/2011 20:21	64.2	10/9/2011 21:31	64.4	11/9/2011 14:41	64.5	12/9/2011 19:51	64.4	13/9/2011 13:01	65.8
6/9/2011 19:16	62.2	8/9/2011 20:26	64.3	10/9/2011 21:36	64.0	11/9/2011 14:46	64.1	12/9/2011 19:56	64.4	13/9/2011 13:06	65.2
6/9/2011 19:21	61.7	8/9/2011 20:31	64.6	10/9/2011 21:41	63.6	11/9/2011 14:51	64.6	12/9/2011 20:01	65.0	13/9/2011 13:11	65.2
6/9/2011 19:26	61.9	8/9/2011 20:36	64.9	10/9/2011 21:46	63.6	11/9/2011 14:56	64.6	12/9/2011 20:06	65.2	13/9/2011 13:16	64.8
6/9/2011 19:31	63.5	8/9/2011 20:41	64.2	10/9/2011 21:51	64.7	11/9/2011 15:01	64.7	12/9/2011 20:11	64.5	13/9/2011 13:21	65.3
6/9/2011 19:36	62.1	8/9/2011 20:46	64.5	10/9/2011 21:56	64.2	11/9/2011 15:06	64.3	12/9/2011 20:16	64.4	13/9/2011 13:26	64.9
6/9/2011 19:41	63.0	8/9/2011 20:51	64.7	10/9/2011 22:01	64.1	11/9/2011 15:11	64.2	12/9/2011 20:21	64.0	13/9/2011 13:31	64.5
6/9/2011 19:46	62.7	8/9/2011 20:56	64.2	10/9/2011 22:06	63.8	11/9/2011 15:16	64.0	12/9/2011 20:26	64.9	13/9/2011 13:36	64.5
6/9/2011 19:51	63.6	8/9/2011 21:01	64.2	10/9/2011 22:11	63.4	11/9/2011 15:21	64.4	12/9/2011 20:31	63.9	13/9/2011 13:41	64.3
6/9/2011 19:56	64.2	8/9/2011 21:06	64.1	10/9/2011 22:16	63.1	11/9/2011 15:26	64.1	12/9/2011 20:36	64.4	13/9/2011 13:46	64.4
6/9/2011 20:01	66.4	8/9/2011 21:11	64.0	10/9/2011 22:21	62.0	11/9/2011 15:31	64.3	12/9/2011 20:41	65.3	13/9/2011 13:51	64.1
6/9/2011 20:06	64.5	8/9/2011 21:16	64.6	10/9/2011 22:26	62.8	11/9/2011 15:36	63.9	12/9/2011 20:46	63.7	13/9/2011 13:56	63.9
6/9/2011 20:11	64.6	8/9/2011 21:21	64.4	10/9/2011 22:31	62.8	11/9/2011 15:41	64.1	12/9/2011 20:51	64.0	13/9/2011 14:01	64.1
6/9/2011 20:16	64.9	8/9/2011 21:26	65.1	10/9/2011 22:36	63.2	11/9/2011 15:46	64.2	12/9/2011 20:56	63.7	13/9/2011 14:06	64.0
6/9/2011 20:21	64.4	8/9/2011 21:31	64.4	10/9/2011 22:41	64.5	11/9/2011 15:51	64.4	12/9/2011 21:01	64.4	13/9/2011 14:11	64.1
6/9/2011 20:26	64.7	8/9/2011 21:36	64.5	10/9/2011 22:46	62.8	11/9/2011 15:56	64.3	12/9/2011 21:06	64.3	13/9/2011 14:16	63.8
6/9/2011 20:31	64.0	8/9/2011 21:41	64.0	10/9/2011 22:51	63.0	11/9/2011 16:01	64.5	12/9/2011 21:11	63.3	13/9/2011 14:21	64.4
6/9/2011 20:36	64.7	8/9/2011 21:46	64.4	10/9/2011 22:56	63.5	11/9/2011 16:06	64.5	12/9/2011 21:16	64.5	13/9/2011 14:26	64.2
6/9/2011 20:41	63.8	8/9/2011 21:51	63.9	11/9/2011 7:01	61.7	11/9/2011 16:11	64.3	12/9/2011 21:21	63.3	13/9/2011 14:31	64.0
6/9/2011 20:46	64.3	8/9/2011 21:56	64.0	11/9/2011 7:06	63.2	11/9/2011 16:16	64.1	12/9/2011 21:26	64.4	13/9/2011 14:36	64.1
6/9/2011 20:51	64.4	8/9/2011 22:01	64.2	11/9/2011 7:11	62.4	11/9/2011 16:21	64.2	12/9/2011 21:31	64.4	13/9/2011 14:41	64.5
6/9/2011 20:56	64.3	8/9/2011 22:06	63.8	11/9/2011 7:16	62.5	11/9/2011 16:26	64.1	12/9/2011 21:36	64.0	13/9/2011 14:46	64.1
6/9/2011 21:01	64.6	8/9/2011 22:11	64.1	11/9/2011 7:21	62.9	11/9/2011 16:31	64.3	12/9/2011 21:41	63.6	13/9/2011 14:51	64.6
6/9/2011 21:06	64.1	8/9/2011 22:16	64.0	11/9/2011 7:26	62.9	11/9/2011 16:36	64.9	12/9/2011 21:46	63.6	13/9/2011 14:56	64.6
6/9/2011 21:11	64.0	8/9/2011 22:21	65.1	11/9/2011 7:31	63.3	11/9/2011 16:41	64.3	12/9/2011 21:51	64.7	13/9/2011 15:01	64.7
6/9/2011 21:16	63.7	8/9/2011 22:26	63.9	11/9/2011 7:36	64.2	11/9/2011 16:46	64.0	12/9/2011 21:56	64.2	13/9/2011 15:06	64.3
6/9/2011 21:21	64.8	8/9/2011 22:31	64.1	11/9/2011 7:41	63.7	11/9/2011 16:51	64.4	12/9/2011 22:01	64.1	13/9/2011 15:11	64.2
6/9/2011 21:26	64.1	8/9/2011 22:36	63.7	11/9/2011 7:46	65.4	11/9/2011 16:56	65.1	12/9/2011 22:06	63.8	13/9/2011 15:16	64.0
6/9/2011 21:31	65.5	8/9/2011 22:41	63.7	11/9/2011 7:51	63.3	11/9/2011 17:01	64.4	12/9/2011 22:11	63.4	13/9/2011 15:21	64.4
6/9/2011 21:36	64.0	8/9/2011 22:46	63.6	11/9/2011 7:56	63.9	11/9/2011 17:06	64.5	12/9/2011 22:16	63.1	13/9/2011 15:26	64.1
6/9/2011 21:41	64.3	8/9/2011 22:51	64.1	11/9/2011 8:01	63.3	11/9/2011 17:11	65.1	12/9/2011 22:21	62.0	13/9/2011 15:31	64.3
6/9/2011 21:46	64.2	8/9/2011 22:56	63.6	11/9/2011 8:06	63.5	11/9/2011 17:16	64.6	12/9/2011 22:26	62.8	13/9/2011 15:36	63.9
6/9/2011 21:51	64.1	9/9/2011 19:01	63.6	11/9/2011 8:11	64.2	11/9/2011 17:21	63.8	12/9/2011 22:31	62.8	13/9/2011 15:41	64.1
6/9/2011 21:56	64.0	9/9/2011 19:06	64.3	11/9/2011 8:16	63.6	11/9/2011 17:26	64.9	12/9/2011 22:36	63.2	13/9/2011 15:46	64.2
6/9/2011 22:01	63.9	9/9/2011 19:11	61.3	11/9/2011 8:21	63.4	11/9/2011 17:31	64.0	12/9/2011 22:41	64.5	13/9/2011 15:51	64.4
6/9/2011 22:06	64.2	9/9/2011 19:16	62.4	11/9/2011 8:26	65.0	11/9/2011 17:36	63.4	12/9/2011 22:46	62.8	13/9/2011 15:56	64.3
6/9/2011 22:11	63.9	9/9/2011 19:21	60.5	11/9/2011 8:31	64.1	11/9/2011 17:41	64.8	12/9/2011 22:51	63.0	13/9/2011 16:01	64.5
6/9/2011 22:16	63.4	9/9/2011 19:26	60.5	11/9/2011 8:36	64.3	11/9/2011 17:46	65.0	12/9/2011 22:56	63.5	13/9/2011 16:06	64.5
6/9/2011 22:21	64.1	9/9/2011 19:31	62.0	11/9/2011 8:41	64.3	11/9/2011 17:51	64.7	13/9/2011 7:01	61.7	13/9/2011 16:11	64.3
6/9/2011 22:26	63.4	9/9/2011 19:36	61.4	11/9/2011 8:46	64.5	11/9/2011 17:56	65.0	13/9/2011 7:06	63.2	13/9/2011 16:16	64.1
6/9/2011 22:31	63.1	9/9/2011 19:41	62.3	11/9/2011 8:51	65.9	11/9/2011 18:01	65.0	13/9/2011 7:11	62.4	13/9/2011 16:21	64.2
6/9/2011 22:36	63.7	9/9/2011 19:46	61.9	11/9/2011 8:56	64.3	11/9/2011 18:06	64.7	13/9/2011 7:16	62.5	13/9/2011 16:26	64.1
6/9/2011 22:41	64.0	9/9/2011 19:51	61.8	11/9/2011 9:01	64.4	11/9/2011 18:11	64.6	13/9/2011 7:21	62.9	13/9/2011 16:31	64.3
6/9/2011 22:46	63.5	9/9/2011 19:56	61.6	11/9/2011 9:06	64.1	11/9/2011 18:16	65.1	13/9/2011 7:26	62.9	13/9/2011 16:36	64.9
6/9/2011 22:51	63.7	9/9/2011 20:01	63.1	11/9/2011 9:11	65.8	11/9/2011 18:21	64.5	13/9/2011 7:31	63.3	13/9/2011 16:41	64.3
6/9/2011 22:56	63.4	9/9/2011 20:06	65.9	11/9/2011 9:16	64.4	11/9/2011 18:26	64.2	13/9/2011 7:36	64.2	13/9/2011 16:46	64.0
7/9/2011 19:01	63.6	9/9/2011 20:11	63.8	11/9/2011 9:21	63.7	11/9/2011 18:31	64.3	13/9/2011 7:41	63.7	13/9/2011 16:51	64.4
7/9/2011 19:06	63.6	9/9/2011 20:16	62.8	11/9/2011 9:26	65.0	11/9/2011 18:36	63.9	13/9/2011 7:46	65.4	13/9/2011 16:56	65.1
7/9/2011 19:11	63.2	9/9/2011 20:21	63.2	11/9/2011 9:31	64.0	11/9/2011 18:41	63.2	13/9/2011 7:51	63.3	13/9/2011 17:01	64.4
7/9/2011 19:16	63.1	9/9/2011 20:26	62.9	11/9/2011 9:36	64.6	11/9/2011 18:46	62.7	13/9/2011 7:56	63.9	13/9/2011 17:06	64.5
7/9/2011 19:21	64.0	9/9/2011 20:31	62.4	11/9/2011 9:41	64.4	11/9/2011 18:51	63.1	13/9/2011 8:01	63.3	13/9/2011 17:11	65.1
7/9/2011 19:26	64.2	9/9/2011 20:36	62.8	11/9/2011 9:46	64.9	11/9/2011 18:56	64.3	13/9/2011 8:06	63.5	13/9/2011 17:16	64.6
7/9/2011 19:31	63.5	9/9/2011 20:41	62.4	11/9/2011 9:51	65.0	11/9/2011 19:01	64.1	13/9/2011 8:11	64.2	13/9/2011 17:21	63.8
7/9/2011 19:36	64.3	9/9/2011 20:46	62.4	11/9/2011 9:56	64.9	11/9/2011 19:06	64.4	13/9/2011 8:16	63.6	13/9/2011 17:26	64.9
7/9/2011 19:41	63.0	9/9/2011 20:51	62.2	11/9/2011 10:01	64.8	11/9/2011 19:11	64.7	13/9/2011 8:21	63.4	13/9/2011 17:31	64.0
7/9/2011 19:46	64.5	9/9/2011 20:56	62.3	11/9/2011 10:06	64.5	11/9/2011 19:16	64.0	13/9/2011 8:26	65.0	13/9/2011 17:36	63.4
7/9/2011 19:51	63.5	9/9/2011 21:01	62.3	11/9/2011 10:11	64.2	11/9/2011 19:21	64.1	13/9/2011 8:31	64.1	13/9/2011 17:41	64.8
7/9/2011 19:56	63.9	9/9/2011 21:06	61.9	11/9/2011 10:16	64.6	11/9/2011 19:26	64.1	13/9/2011 8:36	64.3	13/9/2011 17:46	65.0
7/9/2011 20:01	64.3	9/9/2011 21:11	62.3	11/9/2011 10:21	64.3	11/9/2011 19:31	64.1	13/9/2011 8:41	64.3	13/9/2011 17:51	64.7
7/9/2011 20:06	64.9	9/9/2011 21:16	61.6	11/9/2011 10:26	64.4	11/9/2011 19:36	64.4	13/9/2011 8:46	64.5	13/9/2011 17:56	65.0
7/9/2011 20:11	64.5	9/9/2011 21:21	62.3	11/9/2011 10:31	65.3	11/9/2011 19:41	64.2	13/9/2011 8:51	65.9	13/9/2011 18:01	65.0
7/9/2011 20:16	64.3	9/9/2011 21:26	62.8	11/9/2011 10:36	64.8	11/9/2011 19:46	64.3	13/9/2011 8:56	64.3	13/9/2011 18:06	64.7
7/9/2011 20:21	64.2	9/9/2011 21:31	63.0	11/9/2011 10:41	64.0	11/9/2011 19:51	64.0	13/9/2011 9:01	64.		

## Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

13/9/2011 21:36	62.2	15/9/2011 22:46	63.5	18/9/2011 7:56	63.2	18/9/2011 17:06	65.3	19/9/2011 22:16	65.0	22/9/2011 19:26	65.0
13/9/2011 21:41	63.2	15/9/2011 22:51	63.5	18/9/2011 8:01	63.0	18/9/2011 17:11	65.4	19/9/2011 22:21	64.7	22/9/2011 19:31	65.3
13/9/2011 21:46	62.7	15/9/2011 22:56	63.6	18/9/2011 8:06	62.8	18/9/2011 17:16	64.5	19/9/2011 22:26	64.2	22/9/2011 19:36	65.3
13/9/2011 21:51	62.9	16/9/2011 19:01	62.5	18/9/2011 8:11	63.7	18/9/2011 17:21	65.1	19/9/2011 22:31	64.2	22/9/2011 19:41	65.3
13/9/2011 21:56	63.1	16/9/2011 19:06	63.7	18/9/2011 8:16	63.2	18/9/2011 17:26	65.0	19/9/2011 22:36	65.2	22/9/2011 19:46	65.0
13/9/2011 22:01	62.8	16/9/2011 19:11	64.8	18/9/2011 8:21	63.3	18/9/2011 17:31	64.6	19/9/2011 22:41	64.7	22/9/2011 19:51	65.5
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13/9/2011 22:16	62.2	16/9/2011 19:26	65.2	18/9/2011 8:36	63.9	18/9/2011 17:46	64.9	19/9/2011 22:56	64.3	22/9/2011 20:06	65.0
13/9/2011 22:21	63.0	16/9/2011 19:31	64.1	18/9/2011 8:41	64.0	18/9/2011 17:51	65.4	20/9/2011 19:01	63.7	22/9/2011 20:11	64.9
13/9/2011 22:26	62.6	16/9/2011 19:36	64.2	18/9/2011 8:46	65.1	18/9/2011 17:56	64.7	20/9/2011 19:06	63.0	22/9/2011 20:16	65.3
13/9/2011 22:31	62.3	16/9/2011 19:41	64.6	18/9/2011 8:51	64.1	18/9/2011 18:01	64.1	20/9/2011 19:11	65.1	22/9/2011 20:21	65.0
13/9/2011 22:36	63.7	16/9/2011 19:46	63.8	18/9/2011 8:56	64.2	18/9/2011 18:06	64.7	20/9/2011 19:16	65.8	22/9/2011 20:26	64.6
13/9/2011 22:41	63.5	16/9/2011 19:51	63.3	18/9/2011 9:01	64.4	18/9/2011 18:11	64.7	20/9/2011 19:21	65.4	22/9/2011 20:31	64.9
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13/9/2011 22:56	54.1	16/9/2011 20:06	64.4	18/9/2011 9:16	64.6	18/9/2011 18:26	64.1	20/9/2011 19:36	66.4	22/9/2011 20:46	64.7
14/9/2011 19:01	64.2	16/9/2011 20:11	66.0	18/9/2011 9:21	65.1	18/9/2011 18:31	64.3	20/9/2011 19:41	66.2	22/9/2011 20:51	65.1
14/9/2011 19:06	64.8	16/9/2011 20:16	65.1	18/9/2011 9:26	65.4	18/9/2011 18:36	64.7	20/9/2011 19:46	65.7	22/9/2011 20:56	65.0
14/9/2011 19:11	64.7	16/9/2011 20:21	64.9	18/9/2011 9:31	65.3	18/9/2011 18:41	64.4	20/9/2011 19:51	65.6	22/9/2011 21:01	65.0
14/9/2011 19:16	65.1	16/9/2011 20:26	64.5	18/9/2011 9:36	65.1	18/9/2011 18:46	64.3	20/9/2011 19:56	65.7	22/9/2011 21:06	65.2
14/9/2011 19:21	64.6	16/9/2011 20:31	64.8	18/9/2011 9:41	65.0	18/9/2011 18:51	64.5	20/9/2011 20:01	65.7	22/9/2011 21:11	65.0
14/9/2011 19:26	64.7	16/9/2011 20:36	64.8	18/9/2011 9:46	64.8	18/9/2011 18:56	64.2	20/9/2011 20:06	65.5	22/9/2011 21:16	64.9
14/9/2011 19:31	65.1	16/9/2011 20:41	64.5	18/9/2011 9:51	64.9	18/9/2011 19:01	64.2	20/9/2011 20:11	65.8	22/9/2011 21:21	65.0
14/9/2011 19:36	67.3	16/9/2011 20:46	64.9	18/9/2011 9:56	64.7	18/9/2011 19:06	64.5	20/9/2011 20:16	66.9	22/9/2011 21:26	65.3
14/9/2011 19:41	66.2	16/9/2011 20:51	64.4	18/9/2011 10:01	64.4	18/9/2011 19:11	63.8	20/9/2011 20:21	65.3	22/9/2011 21:31	64.7
14/9/2011 19:46	65.0	16/9/2011 20:56	64.2	18/9/2011 10:06	64.1	18/9/2011 19:16	64.1	20/9/2011 20:26	65.4	22/9/2011 21:36	64.7
14/9/2011 19:51	65.4	16/9/2011 21:01	66.0	18/9/2011 10:11	65.0	18/9/2011 19:21	64.6	20/9/2011 20:31	65.3	22/9/2011 21:41	64.7
14/9/2011 19:56	64.8	16/9/2011 21:06	64.3	18/9/2011 10:16	64.7	18/9/2011 19:26	64.7	20/9/2011 20:36	65.2	22/9/2011 21:46	64.8
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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25/9/2011 9:41	65.0	25/9/2011 18:51	64.1	27/9/2011 20:01	64.9	28/8/2011 6:01	61.5	29/8/2011 7:11	63.8	31/8/2011 0:21	63.2
25/9/2011 9:46	64.9	25/9/2011 18:56	64.3	27/9/2011 20:06	65.2	28/8/2011 6:06	61.9	29/8/2011 7:16	63.4	31/8/2011 0:26	62.5
25/9/2011 9:51	65.0	25/9/2011 19:01	63.9	27/9/2011 20:11	65.1	28/8/2011 6:11	62.0	29/8/2011 7:21	63.3	31/8/2011 0:31	62.8
25/9/2011 9:56	64.8	25/9/2011 19:06	64.5	27/9/2011 20:16	65.2	28/8/2011 6:16	62.1	29/8/2011 7:26	63.3	31/8/2011 0:36	62.3
25/9/2011 10:01	64.9	25/9/2011 19:11	64.7	27/9/2011 20:21	64.7	28/8/2011 6:21	62.0	29/8/2011 7:31	63.3	31/8/2011 0:41	62.2
25/9/2011 10:06	64.8	25/9/2011 19:16	64.8	27/9/2011 20:26	65.7	28/8/2011 6:26	62.5	29/8/2011 7:36	63.1	31/8/2011 0:46	60.7
25/9/2011 10:11	64.8	25/9/2011 19:21	64.7	27/9/2011 20:31	64.4	28/8/2011 6:31	61.8	29/8/2011 7:41	63.0	31/8/2011 0:51	61.7
25/9/2011 10:16	65.0	25/9/2011 19:26	64.8	27/9/2011 20:36	65.1	28/8/2011 6:36	62.7	29/8/2011 7:46	62.4	31/8/2011 0:56	61.3
25/9/2011 10:21	65.0	25/9/2011 19:31	64.4	27/9/2011 20:41	64.9	28/8/2011 6:41	63.2	29/8/2011 7:51	63.2	31/8/2011 1:01	61.4
25/9/											

**Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot**

31/8/2011 4:26	59.5	1/9/2011 5:36	58.8	2/9/2011 6:46	63.9	3/9/2011 23:56	63.7	5/9/2011 1:06	60.8	6/9/2011 2:16	59.3
31/8/2011 4:31	58.7	1/9/2011 5:41	59.9	2/9/2011 6:51	64.2	4/9/2011 0:01	64.0	5/9/2011 1:11	60.5	6/9/2011 2:21	59.0
31/8/2011 4:36	59.2	1/9/2011 5:46	60.1	2/9/2011 6:56	64.9	4/9/2011 0:06	63.7	5/9/2011 1:16	61.2	6/9/2011 2:26	59.1
31/8/2011 4:41	58.3	1/9/2011 5:51	60.9	2/9/2011 23:01	64.2	4/9/2011 0:11	63.5	5/9/2011 1:21	60.5	6/9/2011 2:31	59.1
31/8/2011 4:46	58.2	1/9/2011 5:56	59.9	2/9/2011 23:06	63.8	4/9/2011 0:16	63.4	5/9/2011 1:26	59.6	6/9/2011 2:36	58.7
31/8/2011 4:51	58.4	1/9/2011 6:01	61.3	2/9/2011 23:11	63.7	4/9/2011 0:21	63.5	5/9/2011 1:31	60.5	6/9/2011 2:41	59.8
31/8/2011 4:56	58.6	1/9/2011 6:06	60.3	2/9/2011 23:16	63.5	4/9/2011 0:26	63.0	5/9/2011 1:36	60.1	6/9/2011 2:46	59.2
31/8/2011 5:01	58.4	1/9/2011 6:11	61.5	2/9/2011 23:21	63.8	4/9/2011 0:31	63.8	5/9/2011 1:41	59.9	6/9/2011 2:51	59.3
31/8/2011 5:06	60.1	1/9/2011 6:16	62.5	2/9/2011 23:26	63.7	4/9/2011 0:36	62.4	5/9/2011 1:46	59.2	6/9/2011 2:56	60.1
31/8/2011 5:11	59.4	1/9/2011 6:21	62.1	2/9/2011 23:31	64.1	4/9/2011 0:41	62.1	5/9/2011 1:51	60.9	6/9/2011 3:01	59.3
31/8/2011 5:16	59.5	1/9/2011 6:26	62.9	2/9/2011 23:36	63.6	4/9/2011 0:46	62.2	5/9/2011 1:56	59.9	6/9/2011 3:06	59.4
31/8/2011 5:21	59.4	1/9/2011 6:31	63.2	2/9/2011 23:41	63.5	4/9/2011 0:51	62.5	5/9/2011 2:01	59.6	6/9/2011 3:11	60.0
31/8/2011 5:26	59.3	1/9/2011 6:36	62.8	2/9/2011 23:46	64.4	4/9/2011 0:56	62.3	5/9/2011 2:06	59.9	6/9/2011 3:16	59.1
31/8/2011 5:31	60.2	1/9/2011 6:41	63.8	2/9/2011 23:51	64.0	4/9/2011 1:01	62.4	5/9/2011 2:11	59.6	6/9/2011 3:21	59.2
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31/8/2011 5:51	61.8	1/9/2011 23:01	63.7	3/9/2011 0:11	63.2	4/9/2011 1:21	62.0	5/9/2011 2:31	58.9	6/9/2011 3:41	59.3
31/8/2011 5:56	61.5	1/9/2011 23:06	64.1	3/9/2011 0:16	63.3	4/9/2011 1:26	62.1	5/9/2011 2:36	60.0	6/9/2011 3:46	59.5
31/8/2011 6:01	60.9	1/9/2011 23:11	64.4	3/9/2011 0:21	63.5	4/9/2011 1:31	61.2	5/9/2011 2:41	59.5	6/9/2011 3:51	59.0
31/8/2011 6:06	61.2	1/9/2011 23:16	63.1	3/9/2011 0:26	63.6	4/9/2011 1:36	62.2	5/9/2011 2:46	59.0	6/9/2011 3:56	58.9
31/8/2011 6:11	61.8	1/9/2011 23:21	64.9	3/9/2011 0:31	63.5	4/9/2011 1:41	62.7	5/9/2011 2:51	58.6	6/9/2011 4:01	58.8
31/8/2011 6:16	62.1	1/9/2011 23:26	63.9	3/9/2011 0:36	63.7	4/9/2011 1:46	61.3	5/9/2011 2:56	59.7	6/9/2011 4:06	58.5
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31/8/2011 6:26	62.1	1/9/2011 23:36	63.4	3/9/2011 0:46	62.9	4/9/2011 1:56	61.7	5/9/2011 3:06	58.7	6/9/2011 4:16	58.8
31/8/2011 6:31	62.7	1/9/2011 23:41	62.9	3/9/2011 0:51	62.1	4/9/2011 2:01	61.5	5/9/2011 3:11	59.0	6/9/2011 4:21	58.4
31/8/2011 6:36	62.4	1/9/2011 23:46	62.9	3/9/2011 0:56	61.8	4/9/2011 2:06	61.5	5/9/2011 3:16	59.8	6/9/2011 4:26	58.3
31/8/2011 6:41	63.6	1/9/2011 23:51	63.6	3/9/2011 1:01	61.0	4/9/2011 2:11	61.7	5/9/2011 3:21	59.2	6/9/2011 4:31	59.3
31/8/2011 6:46	64.3	1/9/2011 23:56	63.4	3/9/2011 1:06	62.1	4/9/2011 2:16	61.8	5/9/2011 3:26	58.7	6/9/2011 4:36	58.4
31/8/2011 6:51	64.1	2/9/2011 0:01	62.9	3/9/2011 1:11	62.4	4/9/2011 2:21	61.6	5/9/2011 3:31	57.8	6/9/2011 4:41	59.4
31/8/2011 6:56	63.7	2/9/2011 0:06	62.6	3/9/2011 1:16	61.4	4/9/2011 2:26	61.0	5/9/2011 3:36	59.7	6/9/2011 4:46	58.7
31/8/2011 23:01	64.2	2/9/2011 0:11	63.4	3/9/2011 1:21	62.2	4/9/2011 2:31	61.3	5/9/2011 3:41	58.5	6/9/2011 4:51	58.9
31/8/2011 23:06	63.8	2/9/2011 0:16	61.9	3/9/2011 1:26	61.9	4/9/2011 2:36	62.2	5/9/2011 3:46	59.3	6/9/2011 4:56	59.6
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31/8/2011 23:16	63.0	2/9/2011 0:26	62.8	3/9/2011 1:36	61.9	4/9/2011 2:46	60.7	5/9/2011 3:56	58.8	6/9/2011 5:06	59.5
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31/8/2011 23:56	62.0	2/9/2011 1:06	61.8	3/9/2011 2:16	61.8	4/9/2011 3:26	60.4	5/9/2011 4:36	58.6	6/9/2011 5:46	60.6
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1/9/2011 0:16	62.9	2/9/2011 1:26	61.3	3/9/2011 2:36	60.7	4/9/2011 3:46	59.8	5/9/2011 4:56	58.6	6/9/2011 6:06	62.3
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1/9/2011 0:31	63.0	2/9/2011 1:41	60.4	3/9/2011 2:51	60.4	4/9/2011 4:01	60.4	5/9/2011 5:11	59.2	6/9/2011 6:21	62.5
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1/9/2011 0:41	62.5	2/9/2011 1:51	61.1	3/9/2011 3:01	60.7	4/9/2011 4:11	61.4	5/9/2011 5:21	59.0	6/9/2011 6:31	64.2
1/9/2011 0:46	61.7	2/9/2011 1:56	60.8	3/9/2011 3:06	59.8	4/9/2011 4:16	60.5	5/9/2011 5:26	60.1	6/9/2011 6:36	64.6
1/9/2011 0:51	61.7	2/9/2011 2:01	59.8	3/9/2011 3:11	59.6	4/9/2011 4:21	59.5	5/9/2011 5:31	60.0	6/9/2011 6:41	65.1
1/9/2011 0:56	62.0	2/9/2011 2:06	60.0	3/9/2011 3:16	59.8	4/9/2011 4:26	61.1	5/9/2011 5:36	60.9	6/9/2011 6:46	64.7
1/9/2011 1:01	61.5	2/9/2011 2:11	59.4	3/9/2011 3:21	59.6	4/9/2011 4:31	60.1	5/9/2011 5:41	60.6	6/9/2011 6:51	64.4
1/9/2011 1:06	61.5	2/9/2011 2:16	60.1	3/9/2011 3:26	59.9	4/9/2011 4:36	60.7	5/9/2011 5:46	61.2	6/9/2011 6:56	65.4
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1/9/2011 1:16	61.1	2/9/2011 2:26	59.7	3/9/2011 3:36	60.2	4/9/2011 4:46	59.8	5/9/2011 5:56	60.9	6/9/2011 23:06	62.8
1/9/2011 1:21	60.9	2/9/2011 2:31	59.7	3/9/2011 3:41	59.9	4/9/2011 4:51	60.1	5/9/2011 6:01	62.2	6/9/2011 23:11	63.8
1/9/2011 1:26	61.3	2/9/2011 2:36	63.0	3/9/2011 3:46	59.5	4/9/2011 4:56	60.8	5/9/2011 6:06	62.4	6/9/2011 23:16	63.5
1/9/2011 1:31	61.1	2/9/2011 2:41	59.4	3/9/2011 3:51	61.7	4/9/2011 5:01	61.7	5/9/2011 6:11	62.4	6/9/2011 23:21	63.2
1/9/2011 1:36	60.7	2/9/2011 2:46	64.0	3/9/2011 3:56	59.2	4/9/2011 5:06	60.1	5/9/2011 6:16	63.0	6/9/2011 23:26	63.3
1/9/2011 1:41	60.0	2/9/2011 2:51	59.4	3/9/2011 4:01	61.1	4/9/2011 5:11	60.8	5/9/2011 6:21	62.8	6/9/2011 23:31	63.3
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1/9/2011 1:51	60.7	2/9/2011 3:01	59.3	3/9/2011 4:11	59.9	4/9/2011 5:21	60.7	5/9/2011 6:31	63.8	6/9/2011 23:41	63.2
1/9/2011 1:56	60.8	2/9/2011 3:06	58.9	3/9/2011 4:16	60.4	4/9/2011 5:26	60.5	5/9/2011 6:36	64.0	6/9/2011 23:46	62.9
1/9/2011 2:01	60.6	2/9/2011 3:11	59.0	3/9/2011 4:21	59.9	4/9/2011 5:31	59.8	5/9/2011 6:41	65.4	6/9/2011 23:51	63.7
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1/9/2011 2:26	59.6	2/9/2011 3:36	58.3	3/9/2011 4:46	60.3	4/9/2011 5:56	61.1	5/9/2011 23:06	63.4	7/9/2011 0:16	63.1

Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

7/9/2011 3:26	59.0	8/9/2011 4:36	59.1	9/9/2011 5:46	60.9	10/9/2011 6:56	63.4	12/9/2011 0:06	63.7	13/9/2011 1:16	61.2
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot)

14/9/2011 2:26	58.4	15/9/2011 3:36	60.1	16/9/2011 4:46	59.5	17/9/2011 5:56	61.0	18/9/2011 23:06	62.9	20/9/2011 0:16	62.5
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14/9/2011 6:16	62.2	15/9/2011 23:26	60.3	17/9/2011 0:36	62.5	18/9/2011 1:46	61.6	19/9/2011 2:56	58.1	20/9/2011 4:06	59.1
14/9/2011 6:21	61.6	15/9/2011 23:31	59.0	17/9/2011 0:41	62.9	18/9/2011 1:51	61.7	19/9/2011 3:01	58.2	20/9/2011 4:11	60.4
14/9/2011 6:26	64.1	15/9/2011 23:36	59.9	17/9/2011 0:46	62.2	18/9/2011 1:56	63.3	19/9/2011 3:06	57.5	20/9/2011 4:16	59.7
14/9/2011 6:31	63.2	15/9/2011 23:41	58.9	17/9/2011 0:51	62.2	18/9/2011 2:01	61.4	19/9/2011 3:11	57.5	20/9/2011 4:21	58.0
14/9/2011 6:36	63.1	15/9/2011 23:46	59.0	17/9/2011 0:56	62.0	18/9/2011 2:06	61.1	19/9/2011 3:16	57.3	20/9/2011 4:26	59.5
14/9/2011 6:41	63.8	15/9/2011 23:51	59.2	17/9/2011 1:01	62.1	18/9/2011 2:11	60.4	19/9/2011 3:21	58.6	20/9/2011 4:31	58.7
14/9/2011 6:46	64.6	15/9/2011 23:56	59.8	17/9/2011 1:06	62.1	18/9/2011 2:16	61.1	19/9/2011 3:26	59.1	20/9/2011 4:36	58.2
14/9/2011 6:51	64.3	16/9/2011 0:01	62.6	17/9/2011 1:11	64.3	18/9/2011 2:21	60.9	19/9/2011 3:31	58.1	20/9/2011 4:41	59.3
14/9/2011 6:56	64.4	16/9/2011 0:06	63.2	17/9/2011 1:16	61.5	18/9/2011 2:26	60.7	19/9/2011 3:36	59.0	20/9/2011 4:46	59.9
14/9/2011 23:01	63.6	16/9/2011 0:11	62.3	17/9/2011 1:21	62.3	18/9/2011 2:31	60.7	19/9/2011 3:41	59.2	20/9/2011 4:51	59.5
14/9/2011 23:06	63.1	16/9/2011 0:16	62.6	17/9/2011 1:26	61.4	18/9/2011 2:36	61.4	19/9/2011 3:46	58.7	20/9/2011 4:56	60.1
14/9/2011 23:11	63.6	16/9/2011 0:21	61.8	17/9/2011 1:31	61.8	18/9/2011 2:41	61.4	19/9/2011 3:51	57.8	20/9/2011 5:01	59.6
14/9/2011 23:16	64.0	16/9/2011 0:26	61.8	17/9/2011 1:36	62.4	18/9/2011 2:46	60.5	19/9/2011 3:56	61.5	20/9/2011 5:06	60.0
14/9/2011 23:21	63.7	16/9/2011 0:31	61.2	17/9/2011 1:41	62.2	18/9/2011 2:51	60.8	19/9/2011 4:01	57.9	20/9/2011 5:11	60.4
14/9/2011 23:26	63.1	16/9/2011 0:36	62.2	17/9/2011 1:46	61.9	18/9/2011 2:56	60.8	19/9/2011 4:06	58.8	20/9/2011 5:16	60.5
14/9/2011 23:31	62.9	16/9/2011 0:41	61.1	17/9/2011 1:51	61.3	18/9/2011 3:01	60.6	19/9/2011 4:11	59.4	20/9/2011 5:21	60.3
14/9/2011 23:36	63.8	16/9/2011 0:46	61.7	17/9/2011 1:56	61.1	18/9/2011 3:06	60.3	19/9/2011 4:16	58.6	20/9/2011 5:26	60.9
14/9/2011 23:41	62.8	16/9/2011 0:51	61.6	17/9/2011 2:01	61.5	18/9/2011 3:11	61.1	19/9/2011 4:21	58.5	20/9/2011 5:31	60.5
14/9/2011 23:46	63.2	16/9/2011 0:56	61.3	17/9/2011 2:06	61.5	18/9/2011 3:16	65.5	19/9/2011 4:26	58.4	20/9/2011 5:36	60.6
14/9/2011 23:51	62.7	16/9/2011 1:01	61.0	17/9/2011 2:11	61.1	18/9/2011 3:21	60.0	19/9/2011 4:31	59.2	20/9/2011 5:41	60.5
14/9/2011 23:56	62.7	16/9/2011 1:06	62.2	17/9/2011 2:16	60.8	18/9/2011 3:26	60.5	19/9/2011 4:36	58.4	20/9/2011 5:46	61.9
15/9/2011 0:01	62.5	16/9/2011 1:11	61.9	17/9/2011 2:21	61.0	18/9/2011 3:31	60.6	19/9/2011 4:41	59.4	20/9/2011 5:51	61.6
15/9/2011 0:06	62.2	16/9/2011 1:16	61.5	17/9/2011 2:26	61.4	18/9/2011 3:36	60.7	19/9/2011 4:46	58.5	20/9/2011 5:56	61.5
15/9/2011 0:11	62.8	16/9/2011 1:21	60.9	17/9/2011 2:31	61.2	18/9/2011 3:41	59.7	19/9/2011 4:51	58.8	20/9/2011 6:01	61.8
15/9/2011 0:16	62.3	16/9/2011 1:26	60.3	17/9/2011 2:36	60.5	18/9/2011 3:46	60.9	19/9/2011			



Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

21/9/2011 1:26	60.9	22/9/2011 2:36	59.1	23/9/2011 3:46	59.2	24/9/2011 4:56	59.5	25/9/2011 6:06	61.8	26/9/2011 23:16	64.1
21/9/2011 1:31	61.2	22/9/2011 2:41	60.2	23/9/2011 3:51	59.0	24/9/2011 5:01	59.9	25/9/2011 6:11	62.2	26/9/2011 23:21	63.7
21/9/2011 1:36	60.3	22/9/2011 2:46	60.7	23/9/2011 3:56	61.1	24/9/2011 5:06	59.5	25/9/2011 6:16	62.4	26/9/2011 23:26	63.6
21/9/2011 1:41	60.8	22/9/2011 2:51	59.7	23/9/2011 4:01	59.2	24/9/2011 5:11	59.2	25/9/2011 6:21	62.2	26/9/2011 23:31	63.2
21/9/2011 1:46	60.5	22/9/2011 2:56	59.3	23/9/2011 4:06	59.4	24/9/2011 5:16	60.2	25/9/2011 6:26	62.9	26/9/2011 23:36	63.5
21/9/2011 1:51	61.2	22/9/2011 3:01	59.6	23/9/2011 4:11	59.3	24/9/2011 5:21	59.7	25/9/2011 6:31	62.9	26/9/2011 23:41	63.9
21/9/2011 1:56	60.2	22/9/2011 3:06	59.6	23/9/2011 4:16	59.0	24/9/2011 5:26	60.1	25/9/2011 6:36	63.3	26/9/2011 23:46	63.2
21/9/2011 2:01	60.8	22/9/2011 3:11	59.9	23/9/2011 4:21	59.2	24/9/2011 5:31	60.1	25/9/2011 6:41	63.9	26/9/2011 23:51	63.3
21/9/2011 2:06	61.1	22/9/2011 3:16	59.6	23/9/2011 4:26	59.4	24/9/2011 5:36	60.7	25/9/2011 6:46	63.8	26/9/2011 23:56	63.3
21/9/2011 2:11	59.1	22/9/2011 3:21	59.5	23/9/2011 4:31	59.2	24/9/2011 5:41	60.6	25/9/2011 6:51	63.9	27/9/2011 0:01	63.4
21/9/2011 2:16	60.1	22/9/2011 3:26	60.1	23/9/2011 4:36	59.0	24/9/2011 5:46	61.1	25/9/2011 6:56	64.0	27/9/2011 0:06	64.4
21/9/2011 2:21	58.9	22/9/2011 3:31	59.3	23/9/2011 4:41	59.4	24/9/2011 5:51	61.5	25/9/2011 7:01	63.9	27/9/2011 0:11	63.4
21/9/2011 2:26	59.5	22/9/2011 3:36	59.6	23/9/2011 4:46	59.0	24/9/2011 5:56	60.9	25/9/2011 7:06	64.0	27/9/2011 0:16	63.5
21/9/2011 2:31	59.2	22/9/2011 3:41	59.7	23/9/2011 4:51	59.1	24/9/2011 6:01	61.6	25/9/2011 7:11	64.5	27/9/2011 0:21	63.0
21/9/2011 2:36	59.1	22/9/2011 3:46	59.1	23/9/2011 4:56	59.5	24/9/2011 6:06	61.8	25/9/2011 7:16	63.8	27/9/2011 0:26	63.2
21/9/2011 2:41	60.0	22/9/2011 3:51	59.1	23/9/2011 5:01	59.5	24/9/2011 6:11	62.1	25/9/2011 7:21	63.6	27/9/2011 0:31	63.1
21/9/2011 2:46	59.1	22/9/2011 3:56	60.2	23/9/2011 5:06	59.4	24/9/2011 6:16	62.4	25/9/2011 7:26	63.1	27/9/2011 0:36	63.2
21/9/2011 2:51	59.1	22/9/2011 4:01	59.0	23/9/2011 5:11	58.8	24/9/2011 6:21	62.2	25/9/2011 7:31	63.1	27/9/2011 0:41	62.7
21/9/2011 2:56	60.7	22/9/2011 4:06	60.3	23/9/2011 5:16	59.8	24/9/2011 6:26	63.5	25/9/2011 7:36	63.2	27/9/2011 0:46	62.5
21/9/2011 3:01	58.8	22/9/2011 4:11	60.4	23/9/2011 5:21	59.7	24/9/2011 6:31	64.9	25/9/2011 7:41	63.1	27/9/2011 0:51	61.4
21/9/2011 3:06	58.5	22/9/2011 4:16	59.7	23/9/2011 5:26	59.9	24/9/2011 6:36	63.8	25/9/2011 7:46	63.3	27/9/2011 0:56	62.0
21/9/2011 3:11	59.3	22/9/2011 4:21	60.3	23/9/2011 5:31	60.3	24/9/2011 6:41	64.1	25/9/2011 7:51	62.9	27/9/2011 1:01	61.6
21/9/2011 3:16	58.5	22/9/2011 4:26	59.6	23/9/2011 5:36	60.0	24/9/2011 6:46	64.2	25/9/2011 7:56	62.6	27/9/2011 1:06	60.9
21/9/2011 3:21	58.5	22/9/2011 4:31	59.0	23/9/2011 5:41	60.6	24/9/2011 6:51	64.4	26/9/2011 0:01	61.2	27/9/2011 1:11	61.6
21/9/2011 3:26	58.8	22/9/2011 4:36	59.0	23/9/2011 5:46	60.9	24/9/2011 6:56	64.8	26/9/2011 0:06	61.6	27/9/2011 1:16	61.6
21/9/2011 3:31	58.9	22/9/2011 4:41	59.3	23/9/2011 5:51	60.9	24/9/2011 7:01	64.1	26/9/2011 0:11	62.3	27/9/2011 1:21	62.1
21/9/2011 3:36	59.8	22/9/2011 4:46	59.6	23/9/2011 5:56	60.4	24/9/2011 7:06	64.0	26/9/2011 0:16	62.2	27/9/2011 1:26	61.7
21/9/2011 3:41	59.1	22/9/2011 4:51	59.4	23/9/2011 6:01	61.4	24/9/2011 7:11	64.6	26/9/2011 0:21	62.7	27/9/2011 1:31	60.9
21/9/2011 3:46	58.2	22/9/2011 4:56	59.9	23/9/2011 6:06	61.6	24/9/2011 7:16	64.0	26/9/2011 0:26	62.5	27/9/2011 1:36	60.5
21/9/2011 3:51	59.4	22/9/2011 5:01	59.9	23/9/2011 6:11	61.9	24/9/2011 7:21	63.6	26/9/2011 0:31	63.1	27/9/2011 1:41	61.3
21/9/2011 3:56	59.0	22/9/2011 5:06	59.8	23/9/2011 6:16	62.3	24/9/2011 7:26	63.3	26/9/2011 0:36	63.3	27/9/2011 1:46	60.6
21/9/2011 4:01	58.9	22/9/2011 5:11	60.0	23/9/2011 6:21	62.1	24/9/2011 7:31	63.1	26/9/2011 0:41	63.7	27/9/2011 1:51	60.8
21/9/2011 4:06	59.3	22/9/2011 5:16	60.3	23/9/2011 6:26	62.8	24/9/2011 7:36	63.2	26/9/2011 0:46	64.3	27/9/2011 1:56	61.2
21/9/2011 4:11	58.7	22/9/2011 5:21	61.5	23/9/2011 6:31	63.4	24/9/2011 7:41	63.1	26/9/2011 0:51	63.9	27/9/2011 2:01	60.9
21/9/2011 4:16	59.0	22/9/2011 5:26	60.8	23/9/2011 6:36	63.6	24/9/2011 7:46	63.0	26/9/2011 0:56	63.9	27/9/2011 2:06	60.6
21/9/2011 4:21	59.4	22/9/2011 5:31	60.3	23/9/2011 6:41	63.9	24/9/2011 7:51	63.0	26/9/2011 1:01	64.0	27/9/2011 2:11	60.1
21/9/2011 4:26	59.1	22/9/2011 5:36	61.2	23/9/2011 6:46	63.8	24/9/2011 7:56	62.7	26/9/2011 1:06	64.3	27/9/2011 2:16	60.3
21/9/2011 4:31	58.3	22/9/2011 5:41	62.3	23/9/2011 6:51	64.1	25/9/2011 0:01	63.4	26/9/2011 1:11	64.2	27/9/2011 2:21	60.1
21/9/2011 4:36	58.5	22/9/2011 5:46	61.2	23/9/2011 6:56	64.6	25/9/2011 0:06	63.4	26/9/2011 1:16	64.6	27/9/2011 2:26	59.6
21/9/2011 4:41	59.7	22/9/2011 5:51	61.3	23/9/2011 7:01	64.0	25/9/2011 0:11	63.1	26/9/2011 1:21	64.3	27/9/2011 2:31	60.8
21/9/2011 4:46	58.9	22/9/2011 5:56	60.5	23/9/2011 7:06	64.1	25/9/2011 0:16	63.2	26/9/2011 1:26	64.6	27/9/2011 2:36	59.7
21/9/2011 4:51	58.8	22/9/2011 6:01	61.9	23/9/2011 7:11	64.3	25/9/2011 0:21	63.6	26/9/2011 1:31	65.0	27/9/2011 2:41	60.2
21/9/2011 4:56	60.5	22/9/2011 6:06	62.1	23/9/2011 7:16	64.0	25/9/2011 0:26	62.6	26/9/2011 1:36	64.7	27/9/2011 2:46	60.5
21/9/2011 5:01	59.9	22/9/2011 6:11	62.8	23/9/2011 7:21	63.5	25/9/2011 0:31	63.2	26/9/2011 1:41	65.2	27/9/2011 2:51	60.8
21/9/2011 5:06	59.8	22/9/2011 6:16	63.2	23/9/2011 7:26	63.3	25/9/2011 0:36	62.9	26/9/2011 1:46	65.4	27/9/2011 2:56	60.1
21/9/2011 5:11	59.6	22/9/2011 6:21	63.6	23/9/2011 7:31	63.2	25/9/2011 0:41	62.9	26/9/2011 1:51	65.5	27/9/2011 3:01	59.6
21/9/2011 5:16	62.2	22/9/2011 6:26	63.6	23/9/2011 7:36	63.3	25/9/2011 0:46	62.9	26/9/2011 1:56	64.7	27/9/2011 3:06	59.7
21/9/2011 5:21	60.3	22/9/2011 6:31	64.0	23/9/2011 7:41	63.0	25/9/2011 0:51	62.3	26/9/2011 2:01	64.6	27/9/2011 3:11	59.1
21/9/2011 5:26	60.1	22/9/2011 6:36	64.0	23/9/2011 7:46	63.3	25/9/2011 0:56	62.0	26/9/2011 2:06	60.6	27/9/2011 3:16	59.6
21/9/2011 5:31	60.3	22/9/2011 6:41	64.5	23/9/2011 7:51	62.9	25/9/2011 1:01	61.9	26/9/2011 2:11	60.5	27/9/2011 3:21	59.3
21/9/2011 5:36	60.3	22/9/2011 6:46	64.7	23/9/2011 7:56	62.7	25/9/2011 1:06	62.0	26/9/2011 2:16	60.2	27/9/2011 3:26	58.1
21/9/2011 5:41	60.7	22/9/2011 6:51	65.7	24/9/2011 0:01	62.8	25/9/2011 1:11	61.5	26/9/2011 2:21	60.4	27/9/2011 3:31	59.7
21/9/2011 5:46	61.0	22/9/2011 6:56	65.5	24/9/2011 0:06	63.2	25/9/2011 1:16	61.9	26/9/2011 2:26	60.3	27/9/2011 3:36	59.2
21/9/2011 5:51	61.8	22/9/2011 7:01	63.9	24/9/2011 0:11	62.9	25/9/2011 1:21	61.6	26/9/2011 2:31	60.4	27/9/2011 3:41	59.7
21/9/2011 5:56	61.6	22/9/2011 7:06	63.9	24/9/2011 0:16	62.7	25/9/2011 1:26	61.4	26/9/2011 2:36	60.5	27/9/2011 3:46	61.0
21/9/2011 6:01	62.4	22/9/2011 7:11	63.8	24/9/2011 0:21	62.6	25/9/2011 1:31	61.4	26/9/2011 2:41	60.2	27/9/2011 3:51	59.7
21/9/2011 6:06	63.7	22/9/2011 7:16	64.3	24/9/2011 0:26	62.6	25/9/2011 1:36	61.6	26/9/2011 2:46	60.2	27/9/2011 3:56	59.6
21/9/2011 6:11	63.1	22/9/2011 7:21	64.0	24/9/2011 0:31	62.4	25/9/2011 1:41	61.7	26/9/2011 2:51	60.1	27/9/2011 4:01	59.9
21/9/2011 6:16	63.3	22/9/2011 7:26	63.5	24/9/2011 0:36	62.8	25/9/2011 1:46	61.1	26/9/2011 2:56	60.7	27/9/2011 4:06	59.1
21/9/2011 6:21	63.2	22/9/2011 7:31	63.4	24/9/2011 0:41	61.9	25/9/2011 1:51	61.0	26/9/2011 3:01	59.6	27/9/2011 4:11	59.0
21/9/2011 6:26	64.1	22/9/2011 7:36	63.4	24/9/2011 0:46	61.6	25/9/2011 1:56	61.1	26/9/2011 3:06	59.7	27/9/2011 4:16	59.4
21/9/2011 6:31	64.2	22/9/2011 7:41	63.9	24/9/2011 0:51	61.4	25/9/2011 2:01	61.0	26/9/2011 3:11	60.0	27/9/2011 4:21	59.5
21/9/2011 6:36	65.3	22/9/2011 7:46	63.5	24/9/2011 0:56	61.3	25/9/2011 2:06	60.9	26/9/2011 3:16	60.5	27/9/2011 4:26	59.5
21/9/2011 6:41	64.7	22/9/2011 7:51	63.2	24/9/2011 1:01	60.9	25/9/2011 2:11	60.5	26/9/2011 3:21	59.8	27/9/2011 4:31	60.4
21/9/2011 6:46	65.0	22/9/2011 7:56	63.6	24/9/2011 1:06	61.4	25/9/2011 2:16	60.7	26/9/2011 3:26	60.0	27/9/2011 4:36	60.0
21/9/2011 6:51	64.8	23/9/2011 0:01	62.3	24/9/2011 1:11	61.4	25/9/2011 2:21	61.0	26/9/2011 3:31	59.4	27/9/2011 4:41	59.3
21/9/2011 6:56	65.3	23/9/2011 0:06	62.3	24/9/2011 1:16	61.1	25/9/2011 2:26	60.3	26/9/2011 3:36	59.9	27/9/2011 4:46	60.0
21/9/2011 7:01	63.5	23/9/2011 0:11	62.7	24/9/2011 1:21	61.3	25/9/2011 2:31	60.5	26/9/2011 3:41	60.0	27/9/2011 4:51	59.2
21/9/2011 7:06	64.9	23/9/2011 0:16	62.1	24/9/2011 1:26	60.7	25/9/2011 2:36	60.7	26/9/2011 3:46	60.1	27/9/2011 4:56	59.5
21/9/2011 7:11	63.5	23/9/2011 0:21	62.1	24/9/2011 1:31	60.8	25/9/2011 2:41	60.6	26/9/2011 3:51	59.5	27/9/2011 5:01	60.4
21/9/2011 7:16	64.9	23/9/2011 0:26	62.1	24/9/2011 1:36	60.8	25/9/2011 2:46	60.2	26/9/2011 3:56	59.8	27/9/2011 5:06	58.7

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

<u>Normal Day 07:00-19:00</u>															
29/8/2011 7:01	64.2	2/9/2011 13:31	68.3	8/9/2011 8:31	69.9	14/9/2011 15:31	73.9	20/9/2011 10:31	69.8	24/9/2011 17:31	71.5				
29/8/2011 7:31	63.6	2/9/2011 14:01	68.4	8/9/2011 9:01	69.0	14/9/2011 16:01	69.9	20/9/2011 11:01	71.0	24/9/2011 18:01	67.0				
29/8/2011 8:01	66.8	2/9/2011 14:31	68.5	8/9/2011 9:31	69.4	14/9/2011 16:31	73.0	20/9/2011 11:31	71.9	24/9/2011 18:31	65.8				
29/8/2011 8:31	68.0	2/9/2011 15:01	67.9	8/9/2011 10:01	69.1	14/9/2011 17:01	72.1	20/9/2011 12:01	66.2	26/9/2011 7:01	64.4				
29/8/2011 9:01	69.0	2/9/2011 15:31	68.2	8/9/2011 10:31	69.5	14/9/2011 17:31	70.7	20/9/2011 12:31	65.9	26/9/2011 7:31	65.2				
29/8/2011 9:31	69.4	2/9/2011 16:01	68.6	8/9/2011 11:01	69.1	14/9/2011 18:01	66.7	20/9/2011 13:01	69.0	26/9/2011 8:01	66.9				
29/8/2011 10:01	70.0	2/9/2011 16:31	68.1	8/9/2011 11:31	66.6	14/9/2011 18:31	66.2	20/9/2011 13:31	73.9	26/9/2011 8:31	72.0				
29/8/2011 10:31	68.7	2/9/2011 17:01	67.3	8/9/2011 12:01	65.0	14/9/2011 19:01	62.8	20/9/2011 14:01	70.3	26/9/2011 9:01	70.8				
29/8/2011 11:01	69.9	2/9/2011 17:31	67.1	8/9/2011 12:31	66.1	14/9/2011 19:31	65.0	20/9/2011 14:31	68.2	26/9/2011 9:31	71.3				
29/8/2011 11:31	67.7	2/9/2011 18:01	66.8	8/9/2011 13:01	68.7	14/9/2011 20:01	70.2	20/9/2011 15:01	56.3	26/9/2011 10:01	70.9				
29/8/2011 12:01	66.2	2/9/2011 18:31	65.8	8/9/2011 13:31	69.7	14/9/2011 20:31	72.5	20/9/2011 15:31	72.0	26/9/2011 10:31	71.3				
29/8/2011 12:31	68.1	2/9/2011 19:01	64.4	8/9/2011 14:01	69.5	14/9/2011 21:01	70.9	20/9/2011 16:01	68.0	26/9/2011 11:01	72.0				
29/8/2011 13:01	72.1	3/9/2011 7:31	66.6	8/9/2011 14:31	69.9	14/9/2011 21:31	70.7	20/9/2011 16:31	65.5	26/9/2011 11:31	70.5				
29/8/2011 13:31	73.3	3/9/2011 8:01	68.9	8/9/2011 15:01	70.5	14/9/2011 22:01	72.1	20/9/2011 17:01	70.8	26/9/2011 12:01	66.3				
29/8/2011 14:01	71.8	3/9/2011 8:31	68.9	8/9/2011 15:31	70.0	14/9/2011 22:31	72.2	20/9/2011 17:31	68.9	26/9/2011 12:31	66.9				
29/8/2011 14:31	71.6	3/9/2011 9:01	69.9	8/9/2011 16:01	71.3	14/9/2011 23:01	72.7	20/9/2011 18:01	66.4	26/9/2011 13:01	72.5				
29/8/2011 15:01	72.0	3/9/2011 9:31	70.1	8/9/2011 16:31	72.7	14/9/2011 23:31	69.8	20/9/2011 18:31	66.2	26/9/2011 13:31	72.2				
29/8/2011 15:31	72.3	3/9/2011 10:01	68.4	8/9/2011 17:01	72.9	14/9/2011 24:01	66.0	21/9/2011 7:01	65.0	26/9/2011 14:01	71.2				
29/8/2011 16:01	71.3	3/9/2011 10:31	69.7	8/9/2011 17:31	71.7	14/9/2011 24:31	66.4	21/9/2011 7:31	65.8	26/9/2011 14:31	69.9				
29/8/2011 16:31	71.2	3/9/2011 11:01	71.1	8/9/2011 18:01	69.1	14/9/2011 25:01	71.3	21/9/2011 8:01	66.6	26/9/2011 15:01	71.8				
29/8/2011 17:01	72.7	3/9/2011 11:31	69.3	8/9/2011 18:31	66.7	14/9/2011 25:31	72.1	21/9/2011 8:31	70.4	26/9/2011 15:31	69.2				
29/8/2011 17:31	72.5	3/9/2011 12:01	69.4	8/9/2011 19:01	61.7	14/9/2011 26:01	70.7	21/9/2011 9:01	70.1	26/9/2011 16:01	70.6				
29/8/2011 18:01	70.9	3/9/2011 12:31	67.0	8/9/2011 19:31	63.4	14/9/2011 26:31	72.1	21/9/2011 9:31	70.2	26/9/2011 16:31	70.3				
29/8/2011 18:31	69.3	3/9/2011 13:01	68.0	8/9/2011 20:01	71.1	14/9/2011 27:01	72.0	21/9/2011 10:01	68.9	26/9/2011 17:01	70.9				
30/8/2011 7:01	66.0	3/9/2011 13:31	68.4	8/9/2011 20:31	69.2	14/9/2011 27:31	70.5	21/9/2011 10:31	67.5	26/9/2011 17:31	68.3				
30/8/2011 7:31	68.9	3/9/2011 14:01	67.7	8/9/2011 21:01	68.4	14/9/2011 28:01	73.0	21/9/2011 11:01	71.1	26/9/2011 18:01	65.5				
30/8/2011 8:01	68.8	3/9/2011 14:31	68.0	8/9/2011 21:31	72.3	14/9/2011 28:31	72.7	21/9/2011 11:31	70.4	26/9/2011 18:31	65.1				
30/8/2011 8:31	63.3	3/9/2011 15:01	67.7	8/9/2011 22:01	69.3	14/9/2011 29:01	73.0	21/9/2011 12:01	66.1	27/9/2011 7:01	65.0				
30/8/2011 9:01	69.0	3/9/2011 15:31	67.0	8/9/2011 22:31	69.8	14/9/2011 29:31	72.6	21/9/2011 12:31	66.3	27/9/2011 7:31	65.3				
30/8/2011 9:31	68.8	3/9/2011 16:01	68.1	8/9/2011 23:01	68.1	14/9/2011 30:01	67.6	21/9/2011 13:01	69.2	27/9/2011 8:01	66.1				
30/8/2011 10:01	66.9	3/9/2011 16:31	67.0	8/9/2011 23:31	65.0	14/9/2011 30:31	67.0	21/9/2011 13:31	73.1	27/9/2011 8:31	67.3				
30/8/2011 10:31	70.8	3/9/2011 17:01	67.2	8/9/2011 24:01	63.8	14/9/2011 31:01	62.9	21/9/2011 14:01	69.4	27/9/2011 9:01	70.7				
30/8/2011 11:01	71.4	3/9/2011 17:31	67.5	8/9/2011 24:31	63.9	14/9/2011 31:31	64.4	21/9/2011 14:31	70.1	27/9/2011 9:31	70.0				
30/8/2011 11:31	68.8	3/9/2011 18:01	67.2	8/9/2011 25:01	66.9	14/9/2011 32:01	69.8	21/9/2011 15:01	65.5	27/9/2011 10:01	68.4				
30/8/2011 12:01	65.6	3/9/2011 18:31	66.8	8/9/2011 25:31	67.2	14/9/2011 32:31	72.3	21/9/2011 15:31	69.4	27/9/2011 10:31	68.4				
30/8/2011 12:31	65.7	3/9/2011 19:01	63.2	8/9/2011 26:01	67.1	14/9/2011 33:01	70.7	21/9/2011 16:01	71.3	27/9/2011 11:01	67.7				
30/8/2011 13:01	65.7	3/9/2011 19:31	63.9	8/9/2011 26:31	67.5	14/9/2011 33:31	70.8	21/9/2011 16:31	71.0	27/9/2011 11:31	69.1				
30/8/2011 13:31	70.1	3/9/2011 20:01	67.3	8/9/2011 27:01	66.7	14/9/2011 34:01	72.3	21/9/2011 17:01	70.7	27/9/2011 12:01	65.8				
30/8/2011 14:01	71.0	3/9/2011 20:31	67.1	8/9/2011 27:31	66.7	14/9/2011 34:31	72.5	21/9/2011 17:31	68.6	27/9/2011 12:31	64.4				
30/8/2011 14:31	72.0	3/9/2011 21:01	66.9	8/9/2011 28:01	67.0	14/9/2011 35:01	72.0	21/9/2011 18:01	67.0	27/9/2011 13:01	66.5				
30/8/2011 15:01	70.8	3/9/2011 21:31	67.1	8/9/2011 28:31	67.9	14/9/2011 35:31	70.3	21/9/2011 18:31	66.9	27/9/2011 13:31	70.8				
30/8/2011 15:31	70.8	3/9/2011 22:01	67.8	8/9/2011 29:01	71.5	14/9/2011 36:01	67.5	22/9/2011 7:01	65.5	27/9/2011 14:01	68.3				
30/8/2011 16:01	72.3	3/9/2011 22:31	67.8	8/9/2011 29:31	65.1	14/9/2011 36:31	66.0	22/9/2011 7:31	65.5	27/9/2011 14:31	68.2				
30/8/2011 16:31	71.3	3/9/2011 23:01	67.7	8/9/2011 30:01	64.2	14/9/2011 37:01	71.2	22/9/2011 8:01	66.7	27/9/2011 15:01	68.5				
30/8/2011 17:01	71.9	3/9/2011 23:31	67.1	8/9/2011 30:31	63.2	14/9/2011 37:31	71.7	22/9/2011 8:31	67.0	27/9/2011 15:31	66.6				
30/8/2011 17:31	71.5	3/9/2011 24:01	66.2	8/9/2011 31:01	64.4	14/9/2011 38:01	72.8	22/9/2011 9:01	71.5	27/9/2011 16:01	67.2				
30/8/2011 18:01	70.3	3/9/2011 24:31	66.5	8/9/2011 31:31	65.7	14/9/2011 38:31	73.0	22/9/2011 9:31	69.4	27/9/2011 16:31	70.9				
30/8/2011 18:31	67.1	3/9/2011 25:01	66.3	8/9/2011 32:01	66.8	14/9/2011 39:01	66.1	22/9/2011 10:01	69.2	27/9/2011 17:01	67.6				
31/8/2011 7:01	62.6	3/9/2011 25:31	68.4	8/9/2011 32:31	68.9	14/9/2011 39:31	70.1	22/9/2011 10:31	67.0	27/9/2011 17:31	66.2				
31/8/2011 7:31	63.8	3/9/2011 26:01	70.0	8/9/2011 33:01	68.6	14/9/2011 40:01	66.9	22/9/2011 11:01	54.8	27/9/2011 18:01	65.3				
31/8/2011 8:01	70.3	3/9/2011 26:31	68.6	8/9/2011 33:31	69.1	14/9/2011 40:31	69.1	22/9/2011 11:31	68.9	27/9/2011 18:31	65.0				
31/8/2011 8:31	71.7	3/9/2011 27:01	67.9	8/9/2011 34:01	68.0	14/9/2011 41:01	68.0	22/9/2011 12:01	66.1						
31/8/2011 9:01	72.3	3/9/2011 27:31	68.5	8/9/2011 34:31	69.2	14/9/2011 41:31	69.2	22/9/2011 12:31	66.0	<u>Normal Day 19:00-23:00</u>					
31/8/2011 9:31	71.2	3/9/2011 28:01	68.2	8/9/2011 35:01	67.3	14/9/2011 42:01	67.4	22/9/2011 13:01	70.9	<u>Sunday &amp; Holiday 07:00-23:00</u>					
31/8/2011 10:01	71.8	3/9/2011 28:31	68.1	8/9/2011 35:31	65.1	14/9/2011 42:31	66.3	22/9/2011 13:31	72.4	28/8/2011 7:01	61.7				
31/8/2011 10:31	71.0	3/9/2011 29:01	68.8	8/9/2011 36:01	66.6	14/9/2011 43:01	62.8	22/9/2011 14:01	72.8	28/8/2011 7:06	61.4				
31/8/2011 11:01	70.7	3/9/2011 29:31	67.9	8/9/2011 36:31	66.6	14/9/2011 43:31	64.8	22/9/2011 14:31	69.6	28/8/2011 7:11	62.0				
31/8/2011 11:31	70.6	3/9/2011 30:01	68.0	8/9/2011 37:01	71.1	14/9/2011 44:01	69.8	22/9/2011 15:01	72.2	28/8/2011 7:16	60.6				
31/8/2011 12:01	65.4	3/9/2011 30:31	64.9	8/9/2011 37:31	72.3	14/9/2011 44:31	71.5	22/9/2011 15:31	67.1	28/8/2011 7:21	61.3				
31/8/2011 12:31	65.8	3/9/2011 31:01	62.9	8/9/2011 38:01	66.0	14/9/2011 45:01	72.1	22/9/2011 16:01	69.5	28/8/2011 7:26	62.0				
31/8/2011 13:01	69.3	3/9/2011 31:31	63.5	8/9/2011 38:31	65.2	14/9/2011 45:31	62.9	22/9/2011 16:31	69.9	28/8/2011 7:31	60.6				
31/8/2011 13:31	71.2	3/9/2011 32:01	66.0	8/9/2011 39:01	73.2	14/9/2011 46:01	71.8	22/9/2011 17:01	69.9	28/8/2011 7:36	62.7				
31/8/2011 14:01	72.2	3/9/2011 32:31	67.9	8/9/2011 39:31	62.9	14/9/2011 46:31	55.6	22/9/2011 17:31	67.7	28/8/2011 7:41	63.4				
31/8/2011 14:31	69.9	3/9/2011 33:01	68.5	8/9/2011 40:01	65.2	14/9/2011 47:01	70.9	22/9/2011 18:01	65.4	28/8/2011 7:46	62.4				
31/8/2011 15:01	71.3	3/9/2011 33:31	68.3	8/9/2011 40:31	52.9	14/9/2011 47:31	68.1	22/9/2011 18:31	65.8	28/8/2011 7:51	63.5				
31/8/2011 15:31	67.9	3/9/2011 34:01	68.4	8/9/2011 41:01	45.1	14/9/2011 48:01	66.9	23/9/2011 7:01	64.3	28/8/2011 7:56	62.2				
31/8/2011 16:01	68.9	3/9/2011 34:31	69.8	8/9/2011 41:31	70.6	14/9/2011 48:31	65.6	23/9/2011 7:31	65.6	28/8/2011 8:01	62.7				
31/8/2011 16:31	67.3	3/9/2011 35:01	68.9	8/9/2011 42:01	68.2	14/9/2011 49:01	71.7	23/9/2011 8:01	70.3	28/8/2011 8:06	61.5				
31/8/2011 17:01	67.0	3/9/2011 35:31	66.5	8/9/2011 42:31	65.3	14/9/2011 49:31	71.1	23/9/2011 8:31	70.7	28/8/2011 8:11	62.1				
31/8/2011 17:31	67.3	3/9/2011 36:01	65.4	8/9/2011 43:01											

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

28/8/2011 11:41	63.4	28/8/2011 20:51	61.4	30/8/2011 22:01	61.0	2/9/2011 19:11	64.7	4/9/2011 8:21	68.6	4/9/2011 17:31	67.0
28/8/2011 11:46	63.1	28/8/2011 20:56	60.7	30/8/2011 22:06	61.0	2/9/2011 19:16	64.7	4/9/2011 8:26	68.7	4/9/2011 17:36	66.9
28/8/2011 11:51	63.3	28/8/2011 21:01	61.5	30/8/2011 22:11	61.0	2/9/2011 19:21	64.9	4/9/2011 8:31	68.3	4/9/2011 17:41	66.5
28/8/2011 11:56	63.9	28/8/2011 21:06	62.0	30/8/2011 22:16	61.1	2/9/2011 19:26	61.2	4/9/2011 8:36	68.3	4/9/2011 17:46	65.9
28/8/2011 12:01	62.0	28/8/2011 21:11	61.6	30/8/2011 22:21	61.9	2/9/2011 19:31	62.7	4/9/2011 8:41	68.2	4/9/2011 17:51	64.1
28/8/2011 12:06	62.7	28/8/2011 21:16	62.3	30/8/2011 22:26	60.8	2/9/2011 19:36	61.7	4/9/2011 8:46	67.9	4/9/2011 17:56	65.0
28/8/2011 12:11	62.4	28/8/2011 21:21	61.1	30/8/2011 22:31	61.0	2/9/2011 19:41	62.0	4/9/2011 8:51	67.9	4/9/2011 18:01	65.6
28/8/2011 12:16	63.3	28/8/2011 21:26	61.2	30/8/2011 22:36	61.4	2/9/2011 19:46	61.5	4/9/2011 8:56	68.4	4/9/2011 18:06	64.6
28/8/2011 12:21	61.7	28/8/2011 21:31	60.9	30/8/2011 22:41	61.0	2/9/2011 19:51	61.6	4/9/2011 9:01	69.1	4/9/2011 18:11	65.6
28/8/2011 12:26	62.1	28/8/2011 21:36	61.8	30/8/2011 22:46	60.7	2/9/2011 19:56	62.0	4/9/2011 9:06	68.5	4/9/2011 18:16	65.7
28/8/2011 12:31	60.3	28/8/2011 21:41	61.4	30/8/2011 22:51	61.1	2/9/2011 20:01	62.8	4/9/2011 9:11	68.4	4/9/2011 18:21	64.8
28/8/2011 12:36	60.6	28/8/2011 21:46	61.2	30/8/2011 22:56	61.4	2/9/2011 20:06	63.0	4/9/2011 9:16	68.8	4/9/2011 18:26	65.6
28/8/2011 12:41	61.8	28/8/2011 21:51	62.3	31/8/2011 19:01	62.2	2/9/2011 20:11	61.9	4/9/2011 9:21	68.7	4/9/2011 18:31	66.9
28/8/2011 12:46	62.3	28/8/2011 21:56	62.0	31/8/2011 19:06	66.1	2/9/2011 20:16	61.9	4/9/2011 9:26	68.6	4/9/2011 18:36	65.8
28/8/2011 12:51	62.0	28/8/2011 22:01	62.2	31/8/2011 19:11	63.9	2/9/2011 20:21	61.8	4/9/2011 9:31	68.7	4/9/2011 18:41	67.9
28/8/2011 12:56	61.8	28/8/2011 22:06	61.3	31/8/2011 19:16	65.5	2/9/2011 20:26	62.0	4/9/2011 9:36	68.4	4/9/2011 18:46	60.7
28/8/2011 13:01	62.2	28/8/2011 22:11	61.1	31/8/2011 19:21	64.2	2/9/2011 20:31	62.2	4/9/2011 9:41	68.7	4/9/2011 18:51	68.6
28/8/2011 13:06	62.3	28/8/2011 22:16	61.4	31/8/2011 19:26	62.6	2/9/2011 20:36	62.9	4/9/2011 9:46	68.9	4/9/2011 18:56	65.0
28/8/2011 13:11	64.3	28/8/2011 22:21	62.3	31/8/2011 19:31	62.9	2/9/2011 20:41	61.3	4/9/2011 9:51	68.1	4/9/2011 19:01	65.5
28/8/2011 13:16	63.8	28/8/2011 22:26	62.4	31/8/2011 19:36	62.5	2/9/2011 20:46	62.0	4/9/2011 9:56	68.2	4/9/2011 19:06	64.9
28/8/2011 13:21	63.8	28/8/2011 22:31	62.2	31/8/2011 19:41	62.6	2/9/2011 20:51	62.7	4/9/2011 10:01	68.4	4/9/2011 19:11	64.5
28/8/2011 13:26	64.2	28/8/2011 22:36	61.2	31/8/2011 19:46	65.4	2/9/2011 20:56	60.8	4/9/2011 10:06	68.4	4/9/2011 19:16	63.9
28/8/2011 13:31	63.9	28/8/2011 22:41	62.3	31/8/2011 19:51	63.2	2/9/2011 21:01	61.6	4/9/2011 10:11	68.7	4/9/2011 19:21	62.4
28/8/2011 13:36	64.6	28/8/2011 22:46	61.2	31/8/2011 19:56	64.7	2/9/2011 21:06	61.1	4/9/2011 10:16	68.7	4/9/2011 19:26	61.9
28/8/2011 13:41	64.6	28/8/2011 22:51	61.2	31/8/2011 20:01	63.6	2/9/2011 21:11	61.4	4/9/2011 10:21	68.1	4/9/2011 19:31	62.5
28/8/2011 13:46	65.3	28/8/2011 22:56	61.7	31/8/2011 20:06	63.6	2/9/2011 21:16	61.6	4/9/2011 10:26	66.9	4/9/2011 19:36	62.2
28/8/2011 13:51	65.3	29/8/2011 19:01	67.6	31/8/2011 20:11	63.7	2/9/2011 21:21	61.7	4/9/2011 10:31	64.9	4/9/2011 19:41	63.1
28/8/2011 13:56	64.4	29/8/2011 19:06	68.2	31/8/2011 20:16	62.3	2/9/2011 21:26	62.4	4/9/2011 10:36	65.1	4/9/2011 19:46	62.3
28/8/2011 14:01	65.4	29/8/2011 19:11	68.6	31/8/2011 20:21	62.3	2/9/2011 21:31	62.2	4/9/2011 10:41	64.8	4/9/2011 19:51	61.9
28/8/2011 14:06	65.3	29/8/2011 19:16	68.4	31/8/2011 20:26	64.0	2/9/2011 21:36	61.7	4/9/2011 10:46	64.5	4/9/2011 19:56	62.2
28/8/2011 14:11	63.1	29/8/2011 19:21	67.8	31/8/2011 20:31	63.3	2/9/2011 21:41	64.1	4/9/2011 10:51	67.5	4/9/2011 20:01	61.5
28/8/2011 14:16	63.0	29/8/2011 19:26	67.8	31/8/2011 20:36	63.3	2/9/2011 21:46	62.4	4/9/2011 10:56	63.8	4/9/2011 20:06	62.7
28/8/2011 14:21	63.3	29/8/2011 19:31	67.9	31/8/2011 20:41	62.5	2/9/2011 21:51	61.3	4/9/2011 11:01	67.1	4/9/2011 20:11	61.6
28/8/2011 14:26	63.3	29/8/2011 19:36	68.4	31/8/2011 20:46	63.3	2/9/2011 21:56	61.6	4/9/2011 11:06	66.8	4/9/2011 20:16	61.3
28/8/2011 14:31	62.4	29/8/2011 19:41	68.7	31/8/2011 20:51	63.6	2/9/2011 22:01	60.8	4/9/2011 11:11	67.0	4/9/2011 20:21	61.8
28/8/2011 14:36	62.4	29/8/2011 19:46	68.7	31/8/2011 20:56	63.3	2/9/2011 22:06	61.2	4/9/2011 11:16	67.1	4/9/2011 20:26	61.7
28/8/2011 14:41	63.9	29/8/2011 19:51	66.4	31/8/2011 21:01	62.7	2/9/2011 22:11	61.0	4/9/2011 11:21	67.0	4/9/2011 20:31	61.5
28/8/2011 14:46	63.5	29/8/2011 19:56	66.1	31/8/2011 21:06	61.8	2/9/2011 22:16	61.8	4/9/2011 11:26	66.7	4/9/2011 20:36	62.3
28/8/2011 14:51	64.5	29/8/2011 20:01	67.8	31/8/2011 21:11	61.7	2/9/2011 22:21	61.3	4/9/2011 11:31	67.0	4/9/2011 20:41	61.1
28/8/2011 14:56	65.6	29/8/2011 20:06	67.5	31/8/2011 21:16	62.1	2/9/2011 22:26	61.3	4/9/2011 11:36	66.2	4/9/2011 20:46	61.6
28/8/2011 15:01	65.1	29/8/2011 20:11	66.9	31/8/2011 21:21	62.3	2/9/2011 22:31	61.2	4/9/2011 11:41	63.5	4/9/2011 20:51	61.7
28/8/2011 15:06	65.5	29/8/2011 20:16	66.2	31/8/2011 21:26	63.2	2/9/2011 22:36	61.5	4/9/2011 11:46	62.8	4/9/2011 20:56	61.3
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28/8/2011 15:26	65.4	29/8/2011 20:36	61.9	31/8/2011 21:46	61.5	2/9/2011 22:56	61.2	4/9/2011 12:06	59.8	4/9/2011 21:16	61.3
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28/8/2011 15:36	65.9	29/8/2011 20:46	62.4	31/8/2011 21:56	62.0	3/9/2011 19:06	65.2	4/9/2011 12:16	60.2	4/9/2011 21:26	63.9
28/8/2011 15:41	65.8	29/8/2011 20:51	62.4	31/8/2011 22:01	61.8	3/9/2011 19:11	64.4	4/9/2011 12:21	60.2	4/9/2011 21:31	62.2
28/8/2011 15:46	65.9	29/8/2011 20:56	62.1	31/8/2011 22:06	62.0	3/9/2011 19:16	65.5	4/9/2011 12:26	60.4	4/9/2011 21:36	61.8
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28/8/2011 15:56	65.0	29/8/2011 21:06	62.2	31/8/2011 22:16	62.4	3/9/2011 19:26	63.3	4/9/2011 12:36	61.6	4/9/2011 21:46	62.0
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28/8/2011 16:06	67.9	29/8/2011 21:16	62.0	31/8/2011 22:26	61.5	3/9/2011 19:36	63.1	4/9/2011 12:46	61.0	4/9/2011 21:56	61.8
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28/8/2011 16:16	64.9	29/8/2011 21:26	61.5	31/8/2011 22:36	61.2	3/9/2011 19:46	66.4	4/9/2011 12:56	64.6	4/9/2011 22:06	61.7
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28/8/2011 16:26	65.7	29/8/2011 21:36	61.1	31/8/2011 22:46	61.4	3/9/2011 19:56	67.5	4/9/2011 13:06	65.9	4/9/2011 22:16	61.9
28/8/2011 16:31	65.9	29/8/2011 21:41	61.4	31/8/2011 22:51	61.9	3/9/2011 20:01	68.6	4/9/2011 13:11	67.7	4/9/2011 22:21	61.7
28/8/2011 16:36	65.8	29/8/2011 21:46	61.8	31/8/2011 22:56	61.7	3/9/2011 20:06	68.6	4/9/2011 13:16	67.6	4/9/2011 22:26	61.4
28/8/2011 16:41	66.3	29/8/2011 21:51	62.1	1/9/2011 19:01	66.9	3/9/2011 20:11	51.3	4/9/2011 13:21	67.9	4/9/2011 22:31	62.0
28/8/2011 16:46	65.6	29/8/2011 21:56	62.4	1/9/2011 19:06	68.7	3/9/2011 20:16	68.8	4/9/2011 13:26	67.6	4/9/2011 22:36	61.2
28/8/2011 16:51	65.8	29/8/2011 22:01	61.5	1/9/2011 19:11	68.5	3/9/2011 20:21	68.9	4/9/2011 13:31	67.4	4/9/2011 22:41	61.7
28/8/2011 16:56	66.2	29/8/2011 22:06	60.7	1/9/2011 19:16	62.6	3/9/2011 20:26	68.2	4/9/2011 13:36	66.9	4/9/2011 22:46	61.3
28/8/2011 17:01	65.1	29/8/2011 22:11	60.9	1/9/2011 19:21	63.5	3/9/2011 20:31	66.4	4/9/2011 13:41	66.5	4/9/2011 22:51	62.1
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28/8/2011 17:11	63.9	29/8/2011 22:21	61.3	1/9/2011 19:31	62.7	3/9/2011 20:41	69.3	4/9/2011 13:51	67.0	4/9/2011 23:01	60.6
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28/8/2011 17:26	63.4	29/8/2011 22:36	61.8	1/9/2011 19:46	68.0	3/9/2011 20:56	68.4	4/9/2011 14:06	66.5	5/9/2011 19:11	60.6
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

5/9/2011 22:36	61.2	8/9/2011 19:46	63.4	10/9/2011 20:56	64.4	11/9/2011 14:06	67.3	12/9/2011 19:16	62.3	13/9/2011 12:26	61.7
5/9/2011 22:41	62.2	8/9/2011 19:51	61.8	10/9/2011 21:01	64.7	11/9/2011 14:11	67.3	12/9/2011 19:21	62.4	13/9/2011 12:31	61.9
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6/9/2011 20:11	67.3	8/9/2011 21:21	63.1	10/9/2011 22:31	61.9	11/9/2011 15:41	62.1	12/9/2011 20:51	61.5	13/9/2011 14:01	62.2
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6/9/2011 20:26	65.9	8/9/2011 21:36	61.6	10/9/2011 22:46	61.2	11/9/2011 15:56	61.8	12/9/2011 21:06	61.2	13/9/2011 14:16	62.1
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6/9/2011 20:36	68.7	8/9/2011 21:46	61.6	10/9/2011 22:56	62.2	11/9/2011 16:06	63.2	12/9/2011 21:16	62.2	13/9/2011 14:26	63.5
6/9/2011 20:41	68.8	8/9/2011 21:51	61.3	11/9/2011 7:01	60.8	11/9/2011 16:11	64.0	12/9/2011 21:21	62.9	13/9/2011 14:31	63.2
6/9/2011 20:46	67.7	8/9/2011 21:56	61.5	11/9/2011 7:06	61.2	11/9/2011 16:16	62.3	12/9/2011 21:26	61.9	13/9/2011 14:36	62.4
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6/9/2011 20:56	68.7	8/9/2011 22:06	61.5	11/9/2011 7:16	60.8	11/9/2011 16:26	63.6	12/9/2011 21:36	61.4	13/9/2011 14:46	62.7
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7/9/2011 20:06	63.3	9/9/2011 21:16	64.1	11/9/2011 10:26	66.5	11/9/2011 19:36	61.6	13/9/2011 8:46	62.4	13/9/2011 17:56	62.9
7/9/2011 20:11	62.4	9/9/2011 21:21	64.3	11/9/2011 10:31	67.6	11/9/2011 19:41	61.5	13/9/2011 8:51	62.5	13/9/2011 18:01	63.7
7/9/2011 20:16	62.7	9/9/2011 21:26	64.4	11/9/2011 10:36	68.2	11/9/2011 19:46	61.3	13/9/2011 8:56	63.8	13/9/2011 18:06	64.6
7/9/2011 20:21	62.2	9/9/2011 21:31	64.9	11/9/2011 10:41	68.6	11/9/2011 19:51	61.4	13/9/2011 9:01	64.1		

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

13/9/2011 21:36	61.3	15/9/2011 22:46	62.2	18/9/2011 7:56	63.1	18/9/2011 17:06	66.3	19/9/2011 22:16	63.4	22/9/2011 19:26	64.8
13/9/2011 21:41	61.1	15/9/2011 22:51	61.4	18/9/2011 8:01	62.7	18/9/2011 17:11	65.8	19/9/2011 22:21	63.4	22/9/2011 19:31	62.7
13/9/2011 21:46	61.7	15/9/2011 22:56	61.7	18/9/2011 8:06	62.0	18/9/2011 17:16	65.4	19/9/2011 22:26	62.8	22/9/2011 19:36	63.5
13/9/2011 21:51	61.3	16/9/2011 19:01	66.3	18/9/2011 8:11	63.5	18/9/2011 17:21	65.3	19/9/2011 22:31	62.4	22/9/2011 19:41	63.4
13/9/2011 21:56	61.3	16/9/2011 19:06	66.0	18/9/2011 8:16	62.7	18/9/2011 17:26	66.1	19/9/2011 22:36	63.3	22/9/2011 19:46	62.0
13/9/2011 22:01	61.5	16/9/2011 19:11	66.1	18/9/2011 8:21	62.4	18/9/2011 17:31	66.0	19/9/2011 22:41	63.0	22/9/2011 19:51	63.1
13/9/2011 22:06	61.2	16/9/2011 19:16	66.8	18/9/2011 8:26	62.9	18/9/2011 17:36	65.8	19/9/2011 22:46	62.7	22/9/2011 19:56	62.5
13/9/2011 22:11	61.1	16/9/2011 19:21	66.3	18/9/2011 8:31	62.7	18/9/2011 17:41	64.2	19/9/2011 22:51	62.6	22/9/2011 20:01	62.0
13/9/2011 22:16	61.5	16/9/2011 19:26	66.8	18/9/2011 8:36	63.1	18/9/2011 17:46	63.1	19/9/2011 22:56	62.9	22/9/2011 20:06	62.2
13/9/2011 22:21	60.6	16/9/2011 19:31	66.0	18/9/2011 8:41	62.9	18/9/2011 17:51	65.0	20/9/2011 19:01	65.6	22/9/2011 20:11	61.9
13/9/2011 22:26	61.0	16/9/2011 19:36	65.0	18/9/2011 8:46	65.8	18/9/2011 17:56	65.5	20/9/2011 19:06	65.2	22/9/2011 20:16	63.6
13/9/2011 22:31	61.7	16/9/2011 19:41	63.1	18/9/2011 8:51	64.1	18/9/2011 18:01	65.5	20/9/2011 19:11	66.0	22/9/2011 20:21	62.9
13/9/2011 22:36	62.1	16/9/2011 19:46	62.3	18/9/2011 8:56	64.2	18/9/2011 18:06	65.3	20/9/2011 19:16	66.2	22/9/2011 20:26	63.2
13/9/2011 22:41	61.2	16/9/2011 19:51	62.1	18/9/2011 9:01	63.5	18/9/2011 18:11	66.0	20/9/2011 19:21	65.7	22/9/2011 20:31	62.6
13/9/2011 22:46	61.0	16/9/2011 19:56	64.0	18/9/2011 9:06	63.2	18/9/2011 18:16	63.6	20/9/2011 19:26	66.3	22/9/2011 20:36	61.7
13/9/2011 22:51	60.6	16/9/2011 20:01	64.2	18/9/2011 9:11	62.9	18/9/2011 18:21	64.4	20/9/2011 19:31	66.0	22/9/2011 20:41	61.9
13/9/2011 22:56	60.8	16/9/2011 20:06	64.3	18/9/2011 9:16	62.8	18/9/2011 18:26	65.1	20/9/2011 19:36	65.9	22/9/2011 20:46	62.0
14/9/2011 19:01	65.4	16/9/2011 20:11	65.2	18/9/2011 9:21	63.5	18/9/2011 18:31	65.4	20/9/2011 19:41	64.3	22/9/2011 20:51	62.4
14/9/2011 19:06	62.7	16/9/2011 20:16	64.2	18/9/2011 9:26	63.8	18/9/2011 18:36	65.7	20/9/2011 19:46	63.9	22/9/2011 20:56	62.7
14/9/2011 19:11	62.1	16/9/2011 20:21	63.9	18/9/2011 9:31	63.4	18/9/2011 18:41	65.7	20/9/2011 19:51	63.0	22/9/2011 21:01	61.9
14/9/2011 19:16	63.2	16/9/2011 20:26	64.3	18/9/2011 9:36	63.1	18/9/2011 18:46	65.4	20/9/2011 19:56	63.2	22/9/2011 21:06	62.0
14/9/2011 19:21	62.1	16/9/2011 20:31	65.0	18/9/2011 9:41	63.5	18/9/2011 18:51	65.5	20/9/2011 20:01	63.6	22/9/2011 21:11	61.7
14/9/2011 19:26	62.4	16/9/2011 20:36	64.7	18/9/2011 9:46	63.4	18/9/2011 18:56	65.2	20/9/2011 20:06	63.5	22/9/2011 21:16	62.3
14/9/2011 19:31	62.5	16/9/2011 20:41	64.4	18/9/2011 9:51	63.2	18/9/2011 19:01	65.0	20/9/2011 20:11	62.9	22/9/2011 21:21	63.2
14/9/2011 19:36	64.4	16/9/2011 20:46	64.3	18/9/2011 9:56	63.3	18/9/2011 19:06	65.0	20/9/2011 20:16	65.1	22/9/2011 21:26	63.2
14/9/2011 19:41	62.7	16/9/2011 20:51	64.8	18/9/2011 10:01	62.7	18/9/2011 19:11	63.9	20/9/2011 20:21	62.7	22/9/2011 21:31	62.3
14/9/2011 19:46	62.8	16/9/2011 20:56	65.0	18/9/2011 10:06	62.7	18/9/2011 19:16	63.1	20/9/2011 20:26	62.1	22/9/2011 21:36	62.7
14/9/2011 19:51	63.1	16/9/2011 21:01	64.7	18/9/2011 10:11	63.0	18/9/2011 19:21	64.1	20/9/2011 20:31	62.2	22/9/2011 21:41	61.8
14/9/2011 19:56	61.9	16/9/2011 21:06	63.3	18/9/2011 10:16	63.2	18/9/2011 19:26	64.6	20/9/2011 20:36	62.3	22/9/2011 21:46	61.9
14/9/2011 20:01	61.7	16/9/2011 21:11	62.9	18/9/2011 10:21	64.3	18/9/2011 19:31	64.4	20/9/2011 20:41	62.8	22/9/2011 21:51	62.0
14/9/2011 20:06	62.2	16/9/2011 21:16	62.7	18/9/2011 10:26	62.8	18/9/2011 19:36	62.9	20/9/2011 20:46	62.3	22/9/2011 21:56	61.0
14/9/2011 20:11	61.3	16/9/2011 21:21	62.9	18/9/2011 10:31	63.5	18/9/2011 19:41	62.2	20/9/2011 20:51	62.1	22/9/2011 22:01	62.4
14/9/2011 20:16	61.9	16/9/2011 21:26	62.9	18/9/2011 10:36	64.3	18/9/2011 19:46	61.9	20/9/2011 20:56	62.2	22/9/2011 22:06	61.6
14/9/2011 20:21	61.9	16/9/2011 21:31	61.9	18/9/2011 10:41	63.2	18/9/2011 19:51	62.5	20/9/2011 21:01	62.2	22/9/2011 22:11	61.5
14/9/2011 20:26	62.0	16/9/2011 21:36	62.6	18/9/2011 10:46	63.3	18/9/2011 19:56	61.4	20/9/2011 21:06	62.7	22/9/2011 22:16	62.2
14/9/2011 20:31	62.0	16/9/2011 21:41	62.4	18/9/2011 10:51	63.6	18/9/2011 20:01	61.3	20/9/2011 21:11	62.0	22/9/2011 22:21	63.0
14/9/2011 20:36	61.3	16/9/2011 21:46	63.0	18/9/2011 10:56	63.0	18/9/2011 20:06	62.2	20/9/2011 21:16	62.2	22/9/2011 22:26	61.3
14/9/2011 20:41	61.1	16/9/2011 21:51	63.7	18/9/2011 11:01	64.2	18/9/2011 20:11	61.6	20/9/2011 21:21	63.1	22/9/2011 22:31	62.0
14/9/2011 20:46	61.2	16/9/2011 21:56	63.7	18/9/2011 11:06	63.4	18/9/2011 20:16	61.7	20/9/2011 21:26	63.3	22/9/2011 22:36	61.6
14/9/2011 20:51	62.1	16/9/2011 22:01	62.5	18/9/2011 11:11	63.0	18/9/2011 20:21	62.2	20/9/2011 21:31	61.5	22/9/2011 22:41	61.1
14/9/2011 20:56	61.5	16/9/2011 22:06	62.1	18/9/2011 11:16	63.3	18/9/2011 20:26	62.0	20/9/2011 21:36	60.9	22/9/2011 22:46	61.9
14/9/2011 21:01	61.1	16/9/2011 22:11	62.1	18/9/2011 11:21	66.0	18/9/2011 20:31	62.5	20/9/2011 21:41	61.5	22/9/2011 22:51	61.5
14/9/2011 21:06	61.4	16/9/2011 22:16	63.3	18/9/2011 11:26	65.6	18/9/2011 20:36	61.7	20/9/2011 21:46	61.5	22/9/2011 22:56	62.1
14/9/2011 21:11	60.8	16/9/2011 22:21	61.7	18/9/2011 11:31	64.4	18/9/2011 20:41	61.8	20/9/2011 21:51	61.7	23/9/2011 19:01	66.6
14/9/2011 21:16	60.9	16/9/2011 22:26	63.0	18/9/2011 11:36	63.2	18/9/2011 20:46	62.2	20/9/2011 21:56	60.7	23/9/2011 19:06	66.5
14/9/2011 21:21	61.6	16/9/2011 22:31	61.8	18/9/2011 11:41	64.4	18/9/2011 20:51	62.5	20/9/2011 22:01	61.6	23/9/2011 19:11	67.0
14/9/2011 21:26	61.7	16/9/2011 22:36	62.3	18/9/2011 11:46	62.2	18/9/2011 20:56	63.5	20/9/2011 22:06	61.8	23/9/2011 19:16	67.3
14/9/2011 21:31	60.9	16/9/2011 22:41	61.6	18/9/2011 11:51	64.0	18/9/2011 21:01	61.8	20/9/2011 22:11	61.0	23/9/2011 19:21	67.4
14/9/2011 21:36	61.1	16/9/2011 22:46	62.3	18/9/2011 11:56	63.1	18/9/2011 21:06	62.6	20/9/2011 22:16	60.5	23/9/2011 19:26	66.8
14/9/2011 21:41	63.1	16/9/2011 22:51	61.8	18/9/2011 12:01	66.0	18/9/2011 21:11	61.6	20/9/2011 22:21	61.4	23/9/2011 19:31	66.5
14/9/2011 21:46	61.4	16/9/2011 22:56	61.9	18/9/2011 12:06	63.5	18/9/2011 21:16	61.6	20/9/2011 22:26	61.1	23/9/2011 19:36	66.2
14/9/2011 21:51	61.5	17/9/2011 19:01	64.2	18/9/2011 12:11	63.4	18/9/2011 21:21	63.4	20/9/2011 22:31	60.9	23/9/2011 19:41	66.2
14/9/2011 21:56	60.9	17/9/2011 19:06	64.4	18/9/2011 12:16	63.3	18/9/2011 21:26	61.1	20/9/2011 22:36	61.0	23/9/2011 19:46	65.3
14/9/2011 22:01	61.2	17/9/2011 19:11	64.6	18/9/2011 12:21	63.0	18/9/2011 21:31	61.3	20/9/2011 22:41	61.2	23/9/2011 19:51	65.7
14/9/2011 22:06	61.4	17/9/2011 19:16	64.3	18/9/2011 12:26	63.1	18/9/2011 21:36	62.3	20/9/2011 22:46	60.6	23/9/2011 19:56	65.5
14/9/2011 22:11	61.2	17/9/2011 19:21	64.2	18/9/2011 12:31	62.7	18/9/2011 21:41	61.3	20/9/2011 22:51	60.9	23/9/2011 20:01	65.2
14/9/2011 22:16	60.9	17/9/2011 19:26	64.5	18/9/2011 12:36	63.5	18/9/2011 21:46	61.4	20/9/2011 22:56	60.6	23/9/2011 20:06	63.6
14/9/2011 22:21	61.5	17/9/2011 19:31	65.5	18/9/2011 12:41	63.3	18/9/2011 21:51	61.7	21/9/2011 19:01	66.1	23/9/2011 20:11	64.4
14/9/2011 22:26	62.0	17/9/2011 19:36	62.5	18/9/2011 12:46	64.4	18/9/2011 21:56	61.1	21/9/2011 19:06	65.9	23/9/2011 20:16	64.2
14/9/2011 22:31	61.5	17/9/2011 19:41	62.2	18/9/2011 12:51	63.5	18/9/2011 22:01	61.5	21/9/2011 19:11	65.0	23/9/2011 20:21	64.5
14/9/2011 22:36	61.5	17/9/2011 19:46	62.2	18/9/2011 12:56	63.0	18/9/2011 22:06	61.1	21/9/2011 19:16	65.3	23/9/2011 20:26	64.5
14/9/2011 22:41	60.8	17/9/2011 19:51	62.0	18/9/2011 13:01	63.8	18/9/2011 22:11	61.3	21/9/2011 19:21	66.8	23/9/2011 20:31	64.3
14/9/2011 22:46	60.8	17/9/2011 19:56	62.9	18/9/2011 13:06	64.1	18/9/2011 22:16	61.2	21/9/2011 19:26	65.5	23/9/2011 20:36	63.5
14/9/2011 22:51	61.2	17/9/2011 20:01	63.6	18/9/2011 13:11	63.7	18/9/2011 22:21	62.1	21/9/2011 19:31	65.8	23/9/2011 20:41	64.4
14/9/2011 22:56	60.7	17/9/2011 20:06	61.0	18/9/2011 13:16	63.5	18/9/2011 22:26	62.3	21/9/2011 19:36	64.7	23/9/2011 20:46	64.0
15/9/2011 19:01	66.4	17/9/2011 20:11	61.9	18/9/2011 13:21	64.2	18/9/2011 22:31	62.0	21/9/2011 19:41	63.9	23/9/2011 20:51	62.8
15/9/2011 19:06	63.1	17/9/2011 20:16	62.1	18/9/2011 13:26	65.4	18/9/2011 22:36	62.0	21/9/2011 19:46	64.1	23/9/2011 20:56	63.4
15/9/2011 19:11	63.7	17/9/2011 20:21	61.4	18/9/2011 13:31	65.0	18/9/2011 22:41	62.0	21/9/2011 19:51	65.7	23/9/2011 21:01	64.0
15/9/2011 19:16	64.5	17/9/2011 20:26	61.5	18/9/2011 13:36	64.4	18/9/2011 22:46	62.1	21/9/2011 19:56	65.4		

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

24/9/2011 20:36	62.7	25/9/2011 13:46	68.2	25/9/2011 22:56	62.9	Night-time 23:00-07:00	29/8/2011 1:06	58.8	30/8/2011 2:16	57.2
24/9/2011 20:41	63.2	25/9/2011 13:51	68.6	26/9/2011 19:01	65.0	28/8/2011 0:01	29/8/2011 1:11	57.8	30/8/2011 2:21	56.9
24/9/2011 20:46	61.6	25/9/2011 13:56	67.0	26/9/2011 19:06	64.3	28/8/2011 0:06	29/8/2011 1:16	58.0	30/8/2011 2:26	57.7
24/9/2011 20:51	61.6	25/9/2011 14:01	66.8	26/9/2011 19:11	64.0	28/8/2011 0:11	29/8/2011 1:21	57.8	30/8/2011 2:31	56.7
24/9/2011 20:56	61.3	25/9/2011 14:06	67.4	26/9/2011 19:16	64.1	28/8/2011 0:16	29/8/2011 1:26	58.9	30/8/2011 2:36	56.8
24/9/2011 21:01	62.1	25/9/2011 14:11	65.6	26/9/2011 19:21	65.0	28/8/2011 0:21	29/8/2011 1:31	57.6	30/8/2011 2:41	57.4
24/9/2011 21:06	61.4	25/9/2011 14:16	63.7	26/9/2011 19:26	65.7	28/8/2011 0:26	29/8/2011 1:36	58.6	30/8/2011 2:46	57.3
24/9/2011 21:11	61.6	25/9/2011 14:21	63.7	26/9/2011 19:31	62.9	28/8/2011 0:31	29/8/2011 1:41	57.2	30/8/2011 2:51	56.5
24/9/2011 21:16	61.6	25/9/2011 14:26	66.6	26/9/2011 19:36	63.4	28/8/2011 0:36	29/8/2011 1:46	57.7	30/8/2011 2:56	57.8
24/9/2011 21:21	61.3	25/9/2011 14:31	68.8	26/9/2011 19:41	63.0	28/8/2011 0:41	29/8/2011 1:51	57.4	30/8/2011 3:01	56.0
24/9/2011 21:26	63.4	25/9/2011 14:36	67.9	26/9/2011 19:46	62.8	28/8/2011 0:46	29/8/2011 1:56	57.1	30/8/2011 3:06	57.2
24/9/2011 21:31	61.9	25/9/2011 14:41	67.8	26/9/2011 19:51	64.6	28/8/2011 0:51	29/8/2011 2:01	55.9	30/8/2011 3:11	55.8
24/9/2011 21:36	61.2	25/9/2011 14:46	67.9	26/9/2011 19:56	64.9	28/8/2011 0:56	29/8/2011 2:06	56.3	30/8/2011 3:16	55.7
24/9/2011 21:41	60.9	25/9/2011 14:51	65.1	26/9/2011 20:01	64.7	28/8/2011 1:01	29/8/2011 2:11	57.4	30/8/2011 3:21	56.6
24/9/2011 21:46	61.4	25/9/2011 14:56	65.1	26/9/2011 20:06	64.8	28/8/2011 1:06	29/8/2011 2:16	55.7	30/8/2011 3:26	55.8
24/9/2011 21:51	61.5	25/9/2011 15:01	63.9	26/9/2011 20:11	66.0	28/8/2011 1:11	29/8/2011 2:21	55.8	30/8/2011 3:31	57.8
24/9/2011 21:56	61.5	25/9/2011 15:06	64.1	26/9/2011 20:16	64.9	28/8/2011 1:16	29/8/2011 2:26	57.0	30/8/2011 3:36	56.4
24/9/2011 22:01	61.5	25/9/2011 15:11	64.5	26/9/2011 20:21	64.6	28/8/2011 1:21	29/8/2011 2:31	55.8	30/8/2011 3:41	57.7
24/9/2011 22:06	61.3	25/9/2011 15:16	64.2	26/9/2011 20:26	65.1	28/8/2011 1:26	29/8/2011 2:36	57.5	30/8/2011 3:46	57.3
24/9/2011 22:11	61.2	25/9/2011 15:21	62.2	26/9/2011 20:31	64.7	28/8/2011 1:31	29/8/2011 2:41	56.1	30/8/2011 3:51	56.9
24/9/2011 22:16	61.2	25/9/2011 15:26	62.2	26/9/2011 20:36	64.7	28/8/2011 1:36	29/8/2011 2:46	55.2	30/8/2011 3:56	56.6
24/9/2011 22:21	61.7	25/9/2011 15:31	63.4	26/9/2011 20:41	64.6	28/8/2011 1:41	29/8/2011 2:51	55.9	30/8/2011 4:01	58.4
24/9/2011 22:26	61.5	25/9/2011 15:36	63.7	26/9/2011 20:46	64.7	28/8/2011 1:46	29/8/2011 2:56	56.3	30/8/2011 4:06	56.1
24/9/2011 22:31	61.5	25/9/2011 15:41	63.1	26/9/2011 20:51	65.6	28/8/2011 1:51	29/8/2011 3:01	55.8	30/8/2011 4:11	56.0
24/9/2011 22:36	61.0	25/9/2011 15:46	62.9	26/9/2011 20:56	65.1	28/8/2011 1:56	29/8/2011 3:06	54.5	30/8/2011 4:16	57.5
24/9/2011 22:41	61.5	25/9/2011 15:51	66.2	26/9/2011 21:01	64.9	28/8/2011 2:01	29/8/2011 3:11	55.5	30/8/2011 4:21	57.1
24/9/2011 22:46	61.4	25/9/2011 15:56	63.9	26/9/2011 21:06	64.6	28/8/2011 2:06	29/8/2011 3:16	55.3	30/8/2011 4:26	57.7
24/9/2011 22:51	61.2	25/9/2011 16:01	63.8	26/9/2011 21:11	64.8	28/8/2011 2:11	29/8/2011 3:21	55.3	30/8/2011 4:31	56.5
24/9/2011 22:56	60.8	25/9/2011 16:06	63.9	26/9/2011 21:16	64.6	28/8/2011 2:16	29/8/2011 3:26	56.0	30/8/2011 4:36	56.1
25/9/2011 7:01	60.6	25/9/2011 16:11	64.9	26/9/2011 21:21	65.0	28/8/2011 2:21	29/8/2011 3:31	54.8	30/8/2011 4:41	56.4
25/9/2011 7:06	61.1	25/9/2011 16:16	63.1	26/9/2011 21:26	63.9	28/8/2011 2:26	29/8/2011 3:36	55.7	30/8/2011 4:46	55.7
25/9/2011 7:11	61.3	25/9/2011 16:21	64.3	26/9/2011 21:31	62.6	28/8/2011 2:31	29/8/2011 3:41	55.4	30/8/2011 4:51	56.0
25/9/2011 7:16	60.1	25/9/2011 16:26	63.0	26/9/2011 21:36	63.0	28/8/2011 2:36	29/8/2011 3:46	56.7	30/8/2011 4:56	56.4
25/9/2011 7:21	60.9	25/9/2011 16:31	62.8	26/9/2011 21:41	62.7	28/8/2011 2:41	29/8/2011 3:51	56.7	30/8/2011 5:01	57.1
25/9/2011 7:26	61.1	25/9/2011 16:36	63.1	26/9/2011 21:46	62.3	28/8/2011 2:46	29/8/2011 3:56	56.2	30/8/2011 5:06	56.6
25/9/2011 7:31	60.5	25/9/2011 16:41	62.9	26/9/2011 21:51	62.1	28/8/2011 2:51	29/8/2011 4:01	55.0	30/8/2011 5:11	55.5
25/9/2011 7:36	62.7	25/9/2011 16:46	64.3	26/9/2011 21:56	61.9	28/8/2011 2:56	29/8/2011 4:06	56.1	30/8/2011 5:16	67.0
25/9/2011 7:41	61.4	25/9/2011 16:51	63.1	26/9/2011 22:01	62.4	28/8/2011 3:01	29/8/2011 4:11	55.4	30/8/2011 5:21	57.2
25/9/2011 7:46	61.8	25/9/2011 16:56	63.0	26/9/2011 22:06	61.5	28/8/2011 3:06	29/8/2011 4:16	55.8	30/8/2011 5:26	55.8
25/9/2011 7:51	62.0	25/9/2011 17:01	63.8	26/9/2011 22:11	62.0	28/8/2011 3:11	29/8/2011 4:21	57.2	30/8/2011 5:31	57.9
25/9/2011 7:56	63.4	25/9/2011 17:06	62.3	26/9/2011 22:16	62.5	28/8/2011 3:16	29/8/2011 4:26	55.0	30/8/2011 5:36	57.5
25/9/2011 8:01	62.6	25/9/2011 17:11	62.8	26/9/2011 22:21	61.9	28/8/2011 3:21	29/8/2011 4:31	56.5	30/8/2011 5:41	59.3
25/9/2011 8:06	63.4	25/9/2011 17:16	62.4	26/9/2011 22:26	60.8	28/8/2011 3:26	29/8/2011 4:36	55.1	30/8/2011 5:46	58.6
25/9/2011 8:11	63.2	25/9/2011 17:21	63.8	26/9/2011 22:31	62.3	28/8/2011 3:31	29/8/2011 4:41	56.3	30/8/2011 5:51	58.1
25/9/2011 8:16	62.7	25/9/2011 17:26	63.7	26/9/2011 22:36	62.1	28/8/2011 3:36	29/8/2011 4:46	56.7	30/8/2011 5:56	58.3
25/9/2011 8:21	62.8	25/9/2011 17:31	64.2	26/9/2011 22:41	61.9	28/8/2011 3:41	29/8/2011 4:51	55.9	30/8/2011 6:01	60.4
25/9/2011 8:26	62.6	25/9/2011 17:36	63.1	26/9/2011 22:46	61.7	28/8/2011 3:46	29/8/2011 4:56	56.8	30/8/2011 6:06	59.4
25/9/2011 8:31	63.8	25/9/2011 17:41	62.5	26/9/2011 22:51	61.5	28/8/2011 3:51	29/8/2011 5:01	55.7	30/8/2011 6:11	59.1
25/9/2011 8:36	62.7	25/9/2011 17:46	62.9	26/9/2011 22:56	61.4	28/8/2011 3:56	29/8/2011 5:06	55.9	30/8/2011 6:16	59.6
25/9/2011 8:41	64.3	25/9/2011 17:51	62.5	27/9/2011 19:01	64.9	28/8/2011 4:01	29/8/2011 5:11	55.2	30/8/2011 6:21	61.3
25/9/2011 8:46	63.2	25/9/2011 17:56	61.8	27/9/2011 19:06	64.7	28/8/2011 4:06	29/8/2011 5:16	57.1	30/8/2011 6:26	61.1
25/9/2011 8:51	63.0	25/9/2011 18:01	62.4	27/9/2011 19:11	64.3	28/8/2011 4:11	29/8/2011 5:21	56.8	30/8/2011 6:31	61.1
25/9/2011 8:56	62.8	25/9/2011 18:06	63.3	27/9/2011 19:16	63.1	28/8/2011 4:16	29/8/2011 5:26	72.4	30/8/2011 6:36	60.6
25/9/2011 9:01	63.0	25/9/2011 18:11	65.1	27/9/2011 19:21	62.1	28/8/2011 4:21	29/8/2011 5:31	56.7	30/8/2011 6:41	61.2
25/9/2011 9:06	63.2	25/9/2011 18:16	61.9	27/9/2011 19:26	62.3	28/8/2011 4:26	29/8/2011 5:36	58.7	30/8/2011 6:46	62.1
25/9/2011 9:11	63.9	25/9/2011 18:21	62.4	27/9/2011 19:31	60.9	28/8/2011 4:31	29/8/2011 5:41	59.8	30/8/2011 6:51	62.6
25/9/2011 9:16	63.3	25/9/2011 18:26	62.2	27/9/2011 19:36	61.1	28/8/2011 4:36	29/8/2011 5:46	59.3	30/8/2011 6:56	61.8
25/9/2011 9:21	62.7	25/9/2011 18:31	62.9	27/9/2011 19:41	62.6	28/8/2011 4:41	29/8/2011 5:51	58.6	30/8/2011 7:01	62.1
25/9/2011 9:26	65.9	25/9/2011 18:36	63.1	27/9/2011 19:46	62.7	28/8/2011 4:46	29/8/2011 5:56	59.0	30/8/2011 7:06	61.0
25/9/2011 9:31	64.3	25/9/2011 18:41	61.8	27/9/2011 19:51	63.3	28/8/2011 4:51	29/8/2011 6:01	59.3	30/8/2011 7:11	60.7
25/9/2011 9:36	65.1	25/9/2011 18:46	62.1	27/9/2011 19:56	63.7	28/8/2011 4:56	29/8/2011 6:06	59.0	30/8/2011 7:16	61.2
25/9/2011 9:41	65.4	25/9/2011 18:51	63.3	27/9/2011 20:01	62.6	28/8/2011 5:01	29/8/2011 6:11	60.3	30/8/2011 7:21	61.5
25/9/2011 9:46	65.0	25/9/2011 18:56	63.7	27/9/2011 20:06	62.0	28/8/2011 5:06	29/8/2011 6:16	60.3	30/8/2011 7:26	62.0
25/9/2011 9:51	65.7	25/9/2011 19:01	64.0	27/9/2011 20:11	62.8	28/8/2011 5:11	29/8/2011 6:21	66.1	30/8/2011 7:31	61.3
25/9/2011 9:56	66.4	25/9/2011 19:06	63.9	27/9/2011 20:16	61.7	28/8/2011 5:16	29/8/2011 6:26	62.9	30/8/2011 7:36	61.3
25/9/2011 10:01	65.4	25/9/2011 19:11	63.9	27/9/2011 20:21	62.5	28/8/2011 5:21	29/8/2011 6:31	61.4	30/8/2011 7:41	60.9
25/9/2011 10:06	65.2	25/9/2011 19:16	63.6	27/9/2011 20:26	62.6	28/8/2011 5:26	29/8/2011 6:36	62.5	30/8/2011 7:46	61.4
25/9/2011 10:11	65.3	25/9/2011 19:21	63.6	27/9/2011 20:31	61.7	28/8/2011 5:31	29/8/2011 6:41	62.9	30/8/2011 7:51	60.2
25/9/2011 10:16	65.0	25/9/2011 19:26	63.5	27/9/2011 20:36	61.5	28/8/2011 5:36	29/8/2011 6:46	62.3	30/8/2011 7:56	60.9
25/9/2011 10:21	65.9	25/9/2011 19:31	63.2	27/9/2011 20:41	61.5	28/8/2011 5:41	29/8/2011 6:51	62.3	31/8/2011 0:01	61.4
25/9/2011 10:26	65.4	25/9/2011 19:36	63.5	27/9/2011 20:46	61.4	28/8/2011 5:46	29/8/2011 6:56	63.9	31/8/2011 0:06	61.1
25/9/2011 10:31	65.8	25/9/2011 19:41	63.1	27/9/2011 20:51	61.3	28/8/2011 5:51	29/8/2011 7:01	60.8	31/8/2011 0:11	60.8
25/9/2011 10:36	66.4	25/9/2011 19:46	63.6	27/9/2011 20:56	61.2	28/8/2011 5:56	29/8/2011 7:06	61.2	31/8/2011 0:16	60.5
25/9/2011 10:41	67.8	25/9/2011 19:51	63.4	27/9/2011 21:01	60.7	28/8/2011 6:01	29/8/2011 7:11	61.4	31/	

## Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

31/8/2011 3:26	56.3	1/9/2011 4:36	56.3	2/9/2011 5:46	59.7	3/9/2011 6:56	64.5	5/9/2011 0:06	61.0	6/9/2011 1:16	60.3
31/8/2011 3:31	56.1	1/9/2011 4:41	56.2	2/9/2011 5:51	58.8	3/9/2011 23:01	61.5	5/9/2011 0:11	60.9	6/9/2011 1:21	58.5
31/8/2011 3:36	57.0	1/9/2011 4:46	55.2	2/9/2011 5:56	58.5	3/9/2011 23:06	61.8	5/9/2011 0:16	59.5	6/9/2011 1:26	60.4
31/8/2011 3:41	57.4	1/9/2011 4:51	57.1	2/9/2011 6:01	59.1	3/9/2011 23:11	61.5	5/9/2011 0:21	60.7	6/9/2011 1:31	58.2
31/8/2011 3:46	56.8	1/9/2011 4:56	56.5	2/9/2011 6:06	59.1	3/9/2011 23:16	61.6	5/9/2011 0:26	59.5	6/9/2011 1:36	59.4
31/8/2011 3:51	56.8	1/9/2011 5:01	57.0	2/9/2011 6:11	60.5	3/9/2011 23:21	61.7	5/9/2011 0:31	59.6	6/9/2011 1:41	58.9
31/8/2011 3:56	55.6	1/9/2011 5:06	56.9	2/9/2011 6:16	65.4	3/9/2011 23:26	62.1	5/9/2011 0:36	59.5	6/9/2011 1:46	59.0
31/8/2011 4:01	56.0	1/9/2011 5:11	58.3	2/9/2011 6:21	63.4	3/9/2011 23:31	61.6	5/9/2011 0:41	60.3	6/9/2011 1:51	58.2
31/8/2011 4:06	55.9	1/9/2011 5:16	58.1	2/9/2011 6:26	60.8	3/9/2011 23:36	61.0	5/9/2011 0:46	59.3	6/9/2011 1:56	58.3
31/8/2011 4:11	56.9	1/9/2011 5:21	57.4	2/9/2011 6:31	60.8	3/9/2011 23:41	61.6	5/9/2011 0:51	61.2	6/9/2011 2:01	57.8
31/8/2011 4:16	55.8	1/9/2011 5:26	59.7	2/9/2011 6:36	62.7	3/9/2011 23:46	61.2	5/9/2011 0:56	61.1	6/9/2011 2:06	57.3
31/8/2011 4:21	57.4	1/9/2011 5:31	57.5	2/9/2011 6:41	63.2	3/9/2011 23:51	61.1	5/9/2011 1:01	60.2	6/9/2011 2:11	57.3
31/8/2011 4:26	57.0	1/9/2011 5:36	57.1	2/9/2011 6:46	62.3	3/9/2011 23:56	61.2	5/9/2011 1:06	58.4	6/9/2011 2:16	56.5
31/8/2011 4:31	56.1	1/9/2011 5:41	58.0	2/9/2011 6:51	62.5	4/9/2011 0:01	61.5	5/9/2011 1:11	58.3	6/9/2011 2:21	57.5
31/8/2011 4:36	57.0	1/9/2011 5:46	60.3	2/9/2011 6:56	63.3	4/9/2011 0:06	61.4	5/9/2011 1:16	58.2	6/9/2011 2:26	57.3
31/8/2011 4:41	56.0	1/9/2011 5:51	57.3	2/9/2011 23:01	61.2	4/9/2011 0:11	61.4	5/9/2011 1:21	57.6	6/9/2011 2:31	57.0
31/8/2011 4:46	55.6	1/9/2011 5:56	59.0	2/9/2011 23:06	61.4	4/9/2011 0:16	61.2	5/9/2011 1:26	57.9	6/9/2011 2:36	57.1
31/8/2011 4:51	55.8	1/9/2011 6:01	58.1	2/9/2011 23:11	61.6	4/9/2011 0:21	61.1	5/9/2011 1:31	57.4	6/9/2011 2:41	56.5
31/8/2011 4:56	55.9	1/9/2011 6:06	59.6	2/9/2011 23:16	60.9	4/9/2011 0:26	60.7	5/9/2011 1:36	57.5	6/9/2011 2:46	57.5
31/8/2011 5:01	56.4	1/9/2011 6:11	61.4	2/9/2011 23:21	61.3	4/9/2011 0:31	61.1	5/9/2011 1:41	56.8	6/9/2011 2:51	56.7
31/8/2011 5:06	57.2	1/9/2011 6:16	67.3	2/9/2011 23:26	60.8	4/9/2011 0:36	60.6	5/9/2011 1:46	57.1	6/9/2011 2:56	56.9
31/8/2011 5:11	56.7	1/9/2011 6:21	62.6	2/9/2011 23:31	61.1	4/9/2011 0:41	59.8	5/9/2011 1:51	58.6	6/9/2011 3:01	57.5
31/8/2011 5:16	56.3	1/9/2011 6:26	61.7	2/9/2011 23:36	60.8	4/9/2011 0:46	59.9	5/9/2011 1:56	57.5	6/9/2011 3:06	57.1
31/8/2011 5:21	56.5	1/9/2011 6:31	61.4	2/9/2011 23:41	60.5	4/9/2011 0:51	59.7	5/9/2011 2:01	58.1	6/9/2011 3:11	57.4
31/8/2011 5:26	56.6	1/9/2011 6:36	62.3	2/9/2011 23:46	60.9	4/9/2011 0:56	60.2	5/9/2011 2:06	59.4	6/9/2011 3:16	57.5
31/8/2011 5:31	57.1	1/9/2011 6:41	61.3	2/9/2011 23:51	61.0	4/9/2011 1:01	60.1	5/9/2011 2:11	57.3	6/9/2011 3:21	56.8
31/8/2011 5:36	57.4	1/9/2011 6:46	63.0	2/9/2011 23:56	62.0	4/9/2011 1:06	60.0	5/9/2011 2:16	56.6	6/9/2011 3:26	57.0
31/8/2011 5:41	63.1	1/9/2011 6:51	62.9	3/9/2011 0:01	60.2	4/9/2011 1:11	60.0	5/9/2011 2:21	56.5	6/9/2011 3:31	57.7
31/8/2011 5:46	58.0	1/9/2011 6:56	62.0	3/9/2011 0:06	60.4	4/9/2011 1:16	59.7	5/9/2011 2:26	56.6	6/9/2011 3:36	56.3
31/8/2011 5:51	59.7	1/9/2011 23:01	61.3	3/9/2011 0:11	60.7	4/9/2011 1:21	59.7	5/9/2011 2:31	55.8	6/9/2011 3:41	56.2
31/8/2011 5:56	59.8	1/9/2011 23:06	61.5	3/9/2011 0:16	61.1	4/9/2011 1:26	59.5	5/9/2011 2:36	57.6	6/9/2011 3:46	57.0
31/8/2011 6:01	58.1	1/9/2011 23:11	61.9	3/9/2011 0:21	60.9	4/9/2011 1:31	59.2	5/9/2011 2:41	56.8	6/9/2011 3:51	56.9
31/8/2011 6:06	59.3	1/9/2011 23:16	60.7	3/9/2011 0:26	60.5	4/9/2011 1:36	59.4	5/9/2011 2:46	55.5	6/9/2011 3:56	56.4
31/8/2011 6:11	59.1	1/9/2011 23:21	61.0	3/9/2011 0:31	60.4	4/9/2011 1:41	60.0	5/9/2011 2:51	55.6	6/9/2011 4:01	56.1
31/8/2011 6:16	59.9	1/9/2011 23:26	61.3	3/9/2011 0:36	60.6	4/9/2011 1:46	58.9	5/9/2011 2:56	55.6	6/9/2011 4:06	56.2
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31/8/2011 6:26	61.6	1/9/2011 23:36	60.7	3/9/2011 0:46	60.4	4/9/2011 1:56	59.0	5/9/2011 3:06	56.0	6/9/2011 4:16	56.8
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31/8/2011 6:41	61.3	1/9/2011 23:51	61.0	3/9/2011 1:01	58.6	4/9/2011 2:11	59.1	5/9/2011 3:21	57.4	6/9/2011 4:31	56.0
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1/9/2011 0:21	60.2	2/9/2011 1:31	58.6	3/9/2011 2:41	57.6	4/9/2011 3:51	59.6	5/9/2011 5:01	56.5	6/9/2011 6:11	60.4
1/9/2011 0:26	61.3	2/9/2011 1:36	58.8	3/9/2011 2:46	57.7	4/9/2011 3:56	60.0	5/9/2011 5:06	56.3	6/9/2011 6:16	60.2
1/9/2011 0:31	60.2	2/9/2011 1:41	57.5	3/9/2011 2:51	57.4	4/9/2011 4:01	59.2	5/9/2011 5:11	56.2	6/9/2011 6:21	60.3
1/9/2011 0:36	60.1	2/9/2011 1:46	57.4	3/9/2011 2:56	57.5	4/9/2011 4:06	59.1	5/9/2011 5:16	56.7	6/9/2011 6:26	60.3
1/9/2011 0:41	60.4	2/9/2011 1:51	58.4	3/9/2011 3:01	57.8	4/9/2011 4:11	59.8	5/9/2011 5:21	57.3	6/9/2011 6:31	62.2
1/9/2011 0:46	60.2	2/9/2011 1:56	58.3	3/9/2011 3:06	57.7	4/9/2011 4:16	59.4	5/9/2011 5:26	57.1	6/9/2011 6:36	61.8
1/9/2011 0:51	59.7	2/9/2011 2:01	57.8	3/9/2011 3:11	57.4	4/9/2011 4:21	59.2	5/9/2011 5:31	57.0	6/9/2011 6:41	62.5
1/9/2011 0:56	58.8	2/9/2011 2:06	57.6	3/9/2011 3:16	57.0	4/9/2011 4:26	60.4	5/9/2011 5:36	58.8	6/9/2011 6:46	63.1
1/9/2011 1:01	59.3	2/9/2011 2:11	57.0	3/9/2011 3:21	57.1	4/9/2011 4:31	59.6	5/9/2011 5:41	60.1	6/9/2011 6:51	61.9
1/9/2011 1:06	58.8	2/9/2011 2:16	57.0	3/9/2011 3:26	57.5	4/9/2011 4:36	59.6	5/9/2011 5:46	60.4	6/9/2011 6:56	62.2
1/9/2011 1:11	59.4	2/9/2011 2:21	56.9	3/9/2011 3:31	57.3	4/9/2011 4:41	59.6	5/9/2011 5:51	61.1	6/9/2011 23:01	61.2
1/9/2011 1:16	58.8	2/9/2011 2:26	56.4	3/9/2011 3:36	57.6	4/9/2011 4:46	58.8	5/9/2011 5:56	58.9	6/9/2011 23:06	61.3
1/9/2011 1:21	59.0	2/9/2011 2:31	57.0	3/9/2011 3:41	57.2	4/9/2011 4:51	59.2	5/9/2011 6:01	59.8	6/9/2011 23:11	61.4
1/9/2011 1:26	58.5	2/9/2011 2:36	60.6	3/9/2011 3:46	57.0	4/9/2011 4:56	59.8	5/9/2011 6:06	59.5	6/9/2011 23:16	60.7
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## Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

7/9/2011 2:26	57.7	8/9/2011 3:36	56.4	9/9/2011 4:46	55.8	10/9/2011 5:56	61.2	11/9/2011 23:06	67.8	13/9/2011 0:16	61.4
7/9/2011 2:31	57.2	8/9/2011 3:41	56.4	9/9/2011 4:51	56.4	10/9/2011 6:01	61.4	11/9/2011 23:11	67.4	13/9/2011 0:21	61.2
7/9/2011 2:36	57.0	8/9/2011 3:46	56.1	9/9/2011 4:56	56.2	10/9/2011 6:06	63.0	11/9/2011 23:16	64.9	13/9/2011 0:26	60.4
7/9/2011 2:41	57.2	8/9/2011 3:51	56.2	9/9/2011 5:01	56.0	10/9/2011 6:11	62.0	11/9/2011 23:21	63.7	13/9/2011 0:31	61.0
7/9/2011 2:46	56.9	8/9/2011 3:56	55.4	9/9/2011 5:06	56.5	10/9/2011 6:16	63.2	11/9/2011 23:26	63.2	13/9/2011 0:36	61.0
7/9/2011 2:51	56.6	8/9/2011 4:01	54.6	9/9/2011 5:11	55.9	10/9/2011 6:21	63.1	11/9/2011 23:31	62.6	13/9/2011 0:41	60.9
7/9/2011 2:56	57.8	8/9/2011 4:06	55.6	9/9/2011 5:16	56.8	10/9/2011 6:26	62.8	11/9/2011 23:36	63.5	13/9/2011 0:46	61.5
7/9/2011 3:01	56.1	8/9/2011 4:11	56.1	9/9/2011 5:21	55.7	10/9/2011 6:31	63.0	11/9/2011 23:41	62.9	13/9/2011 0:51	60.0
7/9/2011 3:06	56.2	8/9/2011 4:16	55.1	9/9/2011 5:26	57.5	10/9/2011 6:36	63.8	11/9/2011 23:46	62.5	13/9/2011 0:56	59.9
7/9/2011 3:11	56.8	8/9/2011 4:21	57.0	9/9/2011 5:31	58.1	10/9/2011 6:41	63.4	11/9/2011 23:51	62.2	13/9/2011 1:01	60.1
7/9/2011 3:16	56.9	8/9/2011 4:26	56.3	9/9/2011 5:36	57.7	10/9/2011 6:46	63.7	11/9/2011 23:56	62.2	13/9/2011 1:06	60.4
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7/9/2011 3:26	56.2	8/9/2011 4:36	56.0	9/9/2011 5:46	59.5	10/9/2011 6:56	65.2	12/9/2011 0:06	62.5	13/9/2011 1:16	59.8
7/9/2011 3:31	55.8	8/9/2011 4:41	59.2	9/9/2011 5:51	58.7	10/9/2011 7:01	62.4	12/9/2011 0:11	62.4	13/9/2011 1:21	59.5
7/9/2011 3:36	56.0	8/9/2011 4:46	56.4	9/9/2011 5:56	59.1	10/9/2011 7:06	62.8	12/9/2011 0:16	62.0	13/9/2011 1:26	59.5
7/9/2011 3:41	56.0	8/9/2011 4:51	56.3	9/9/2011 6:01	59.1	10/9/2011 7:11	61.7	12/9/2011 0:21	62.0	13/9/2011 1:31	59.4
7/9/2011 3:46	55.6	8/9/2011 4:56	56.7	9/9/2011 6:06	60.3	10/9/2011 7:16	61.7	12/9/2011 0:26	62.1	13/9/2011 1:36	59.6
7/9/2011 3:51	55.5	8/9/2011 5:01	56.6	9/9/2011 6:11	58.7	10/9/2011 7:21	61.8	12/9/2011 0:31	60.8	13/9/2011 1:41	59.7
7/9/2011 3:56	57.9	8/9/2011 5:06	56.1	9/9/2011 6:16	61.2	10/9/2011 7:26	62.2	12/9/2011 0:36	60.7	13/9/2011 1:46	59.2
7/9/2011 4:01	55.1	8/9/2011 5:11	56.1	9/9/2011 6:21	61.0	10/9/2011 7:31	62.1	12/9/2011 0:41	60.9	13/9/2011 1:51	59.8
7/9/2011 4:06	56.4	8/9/2011 5:16	56.2	9/9/2011 6:26	62.1	10/9/2011 7:36	62.0	12/9/2011 0:46	60.9	13/9/2011 1:56	59.6
7/9/2011 4:11	55.7	8/9/2011 5:21	56.4	9/9/2011 6:31	61.3	10/9/2011 7:41	61.6	12/9/2011 0:51	59.7	13/9/2011 2:01	58.8
7/9/2011 4:16	56.1	8/9/2011 5:26	57.6	9/9/2011 6:36	61.5	10/9/2011 7:46	61.3	12/9/2011 0:56	60.3	13/9/2011 2:06	59.4
7/9/2011 4:21	55.8	8/9/2011 5:31	56.7	9/9/2011 6:41	61.9	10/9/2011 7:51	61.6	12/9/2011 1:01	60.2	13/9/2011 2:11	59.6
7/9/2011 4:26	56.3	8/9/2011 5:36	57.5	9/9/2011 6:46	62.0	10/9/2011 7:56	61.0	12/9/2011 1:06	60.2	13/9/2011 2:16	58.6
7/9/2011 4:31	56.4	8/9/2011 5:41	58.3	9/9/2011 6:51	61.9	11/9/2011 0:01	61.6	12/9/2011 1:11	59.5	13/9/2011 2:21	58.9
7/9/2011 4:36	55.6	8/9/2011 5:46	58.7	9/9/2011 6:56	62.4	11/9/2011 0:06	61.1	12/9/2011 1:16	60.1	13/9/2011 2:26	58.3
7/9/2011 4:41	56.5	8/9/2011 5:51	59.1	9/9/2011 7:01	62.9	11/9/2011 0:11	61.0	12/9/2011 1:21	60.1	13/9/2011 2:31	58.5
7/9/2011 4:46	55.8	8/9/2011 5:56	58.7	9/9/2011 7:06	63.2	11/9/2011 0:16	61.0	12/9/2011 1:26	59.8	13/9/2011 2:36	59.0
7/9/2011 4:51	56.6	8/9/2011 6:01	58.9	9/9/2011 7:11	63.5	11/9/2011 0:21	61.5	12/9/2011 1:31	59.5	13/9/2011 2:41	59.4
7/9/2011 4:56	57.2	8/9/2011 6:06	59.9	9/9/2011 7:16	64.8	11/9/2011 0:26	60.9	12/9/2011 1:36	59.5	13/9/2011 2:46	58.5
7/9/2011 5:01	55.6	8/9/2011 6:11	59.5	9/9/2011 7:21	63.6	11/9/2011 0:31	60.7	12/9/2011 1:41	59.1	13/9/2011 2:51	58.3
7/9/2011 5:06	56.4	8/9/2011 6:16	59.3	9/9/2011 7:26	63.1	11/9/2011 0:36	60.9	12/9/2011 1:46	58.4	13/9/2011 2:56	58.1
7/9/2011 5:11	56.5	8/9/2011 6:21	60.5	9/9/2011 7:31	63.5	11/9/2011 0:41	60.5	12/9/2011 1:51	58.6	13/9/2011 3:01	59.3
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7/9/2011 5:21	56.5	8/9/2011 6:31	60.8	9/9/2011 7:41	63.1	11/9/2011 0:51	61.4	12/9/2011 2:01	58.8	13/9/2011 3:11	57.7
7/9/2011 5:26	57.2	8/9/2011 6:36	62.1	9/9/2011 7:46	63.2	11/9/2011 0:56	60.4	12/9/2011 2:06	59.0	13/9/2011 3:16	57.5
7/9/2011 5:31	56.7	8/9/2011 6:41	61.7	9/9/2011 7:51	63.3	11/9/2011 1:01	60.5	12/9/2011 2:11	57.9	13/9/2011 3:21	58.5
7/9/2011 5:36	57.3	8/9/2011 6:46	62.1	9/9/2011 7:56	63.2	11/9/2011 1:06	60.4	12/9/2011 2:16	58.2	13/9/2011 3:26	58.0
7/9/2011 5:41	58.9	8/9/2011 6:51	61.9	10/9/2011 0:01	63.4	11/9/2011 1:11	60.5	12/9/2011 2:21	57.3	13/9/2011 3:31	57.9
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7/9/2011 5:51	58.5	8/9/2011 7:01	61.1	10/9/2011 0:11	63.4	11/9/2011 1:21	60.5	12/9/2011 2:31	58.3	13/9/2011 3:41	58.2
7/9/2011 5:56	58.8	8/9/2011 7:06	61.6	10/9/2011 0:16	63.3	11/9/2011 1:26	60.3	12/9/2011 2:36	58.1	13/9/2011 3:46	57.7
7/9/2011 6:01	58.4	8/9/2011 7:11	61.3	10/9/2011 0:21	63.3	11/9/2011 1:31	60.6	12/9/2011 2:41	57.2	13/9/2011 3:51	57.5
7/9/2011 6:06	59.6	8/9/2011 7:16	61.2	10/9/2011 0:26	62.9	11/9/2011 1:36	59.9	12/9/2011 2:46	57.7	13/9/2011 3:56	58.0
7/9/2011 6:11	59.6	8/9/2011 7:21	60.8	10/9/2011 0:31	63.0	11/9/2011 1:41	59.8	12/9/2011 2:51	58.0	13/9/2011 4:01	57.9
7/9/2011 6:16	61.1	8/9/2011 7:26	61.1	10/9/2011 0:36	63.2	11/9/2011 1:46	60.0	12/9/2011 2:56	56.6	13/9/2011 4:06	58.3
7/9/2011 6:21	61.0	8/9/2011 7:31	61.0	10/9/2011 0:41	62.5	11/9/2011 1:51	59.4	12/9/2011 3:01	56.9	13/9/2011 4:11	58.1
7/9/2011 6:26	62.1	8/9/2011 7:36	60.7	10/9/2011 0:46	63.2	11/9/2011 1:56	59.5	12/9/2011 3:06	56.9	13/9/2011 4:16	58.1
7/9/2011 6:31	61.4	8/9/2011 7:41	60.7	10/9/2011 0:51	62.5	11/9/2011 2:01	59.3	12/9/2011 3:11	56.8	13/9/2011 4:21	58.0
7/9/2011 6:36	63.1	8/9/2011 7:46	60.7	10/9/2011 0:56	62.1	11/9/2011 2:06	59.1	12/9/2011 3:16	56.1	13/9/2011 4:26	58.5
7/9/2011 6:41	63.3	8/9/2011 7:51	60.6	10/9/2011 1:01	62.3	11/9/2011 2:11	59.4	12/9/2011 3:21	55.6	13/9/2011 4:31	58.5
7/9/2011 6:46	61.3	8/9/2011 7:56	61.4	10/9/2011 1:06	62.2	11/9/2011 2:16	59.3	12/9/2011 3:26	56.2	13/9/2011 4:36	57.6
7/9/2011 6:51	61.7	9/9/2011 0:01	60.4	10/9/2011 1:11	62.6	11/9/2011 2:21	59.1	12/9/2011 3:31	56.9	13/9/2011 4:41	57.8
7/9/2011 6:56	62.7	9/9/2011 0:06	60.8	10/9/2011 1:16	62.2	11/9/2011 2:26	59.0	12/9/2011 3:36	56.5	13/9/2011 4:46	57.8
7/9/2011 7:01	61.0	9/9/2011 0:11	60.4	10/9/2011 1:21	62.1	11/9/2011 2:31	59.6	12/9/2011 3:41	56.5	13/9/2011 4:51	58.4
7/9/2011 7:06	61.1	9/9/2011 0:16	59.9	10/9/2011 1:26	62.2	11/9/2011 2:36	59.7	12/9/2011 3:46	57.0	13/9/2011 4:56	57.8
7/9/2011 7:11	61.6	9/9/2011 0:21	60.2	10/9/2011 1:31	61.9	11/9/2011 2:41	59.0	12/9/2011 3:51	56.2	13/9/2011 5:01	58.2
7/9/2011 7:16	61.3	9/9/2011 0:26	60.0	10/9/2011 1:36	62.0	11/9/2011 2:46	59.4	12/9/2011 3:56	57.3	13/9/2011 5:06	58.4
7/9/2011 7:21	61.2	9/9/2011 0:31	59.5	10/9/2011 1:41	62.3	11/9/2011 2:51	59.0	12/9/2011 4:01	57.6	13/9/2011 5:11	57.3
7/9/2011 7:26	61.0	9/9/2011 0:36	59.2	10/9/2011 1:46	61.5	11/9/2011 2:56	59.7	12/9/2011 4:06	56.7	13/9/2011 5:16	58.4
7/9/2011 7:31	60.7	9/9/2011 0:41	60.4	10/9/2011 1:51	61.4	11/9/2011 3:01	58.1	12/9/2011 4:11	57.1	13/9/2011 5:21	58.8
7/9/2011 7:36	60.7	9/9/2011 0:46	59.6	10/9/2011 1:56	61.2	11/9/2011 3:06	58.6	12/9/2011 4:16	57.0	13/9/2011 5:26	57.5
7/9/2011 7:41	60.4	9/9/2011 0:51	59.0	10/9/2011 2:01	61.6	11/9/2011 3:11	60.5	12/9/2011 4:21	57.3	13/9/2011 5:31	61.0
7/9/2011 7:46	60.3	9/9/2011 0:56	58.6	10/9/2011 2:06	61.4	11/9/2011 3:16	59.4	12/9/2011 4:26	56.7	13/9/2011 5:36	58.3
7/9/2011 7:51	61.4	9/9/2011 1:01	57.9	10/9/2011 2:11	61.2	11/9/2011 3:21	59.2	12/9/2011 4:31	55.5	13/9/2011 5:41	58.7
7/9/2011 7:56	60.4	9/9/2011 1:06	58.3	10/9/2011 2:16	60.7	11/9/2011 3:26	59.0	12/9/2011 4:36	57.0	13/9/2011 5:46	59.1
8/9/2011 0:01	60.1	9/9/2011 1:11	59.4	10/9/2011 2:21	60.8	11/9/2011 3:31	58.4	12/9/2011 4:41	57.4	13/9/2011 5:51	58.4
8/9/2011 0:06	60.5	9/9/2011 1:16	57.8	10/9/2011 2:26	61.6	11/9/2011 3:36	58.7	12/9/2011 4:46	56.6	13/9/2011 5:56	59.0
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8/9/2011 0:16	60.4	9/9/2011 1:26	58.4	10/9/2011 2:36	60.7	11/9/2011 3:46	59.2	12/9/2011 4:56	57.2	13/9/2011 6:06	59.5
8/9/2011 0:21	59.8	9/9/2011 1:31	57.7	10/9/2011 2:41	61.0	11/9/2011 3:51	58.2	12/9/2011 5:01	57.3	13/9/2011 6:11	59.0
8/9/2011 0:26											



Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

14/9/2011 1:26	57.3	15/9/2011 2:36	56.0	16/9/2011 3:46	56.5	17/9/2011 4:56	57.9	18/9/2011 6:06	58.2	19/9/2011 23:16	61.8
14/9/2011 1:31	57.2	15/9/2011 2:41	57.7	16/9/2011 3:51	55.1	17/9/2011 5:01	57.5	18/9/2011 6:11	59.2	19/9/2011 23:21	62.1
14/9/2011 1:36	57.6	15/9/2011 2:46	57.6	16/9/2011 3:56	57.0	17/9/2011 5:06	59.2	18/9/2011 6:16	59.4	19/9/2011 23:26	62.0
14/9/2011 1:41	56.2	15/9/2011 2:51	56.9	16/9/2011 4:01	55.5	17/9/2011 5:11	58.1	18/9/2011 6:21	59.0	19/9/2011 23:31	61.8
14/9/2011 1:46	58.2	15/9/2011 2:56	55.7	16/9/2011 4:06	55.7	17/9/2011 5:16	58.3	18/9/2011 6:26	58.3	19/9/2011 23:36	62.2
14/9/2011 1:51	57.9	15/9/2011 3:01	61.3	16/9/2011 4:11	56.6	17/9/2011 5:21	58.3	18/9/2011 6:31	58.9	19/9/2011 23:41	62.2
14/9/2011 1:56	56.6	15/9/2011 3:06	59.4	16/9/2011 4:16	55.9	17/9/2011 5:26	57.8	18/9/2011 6:36	60.0	19/9/2011 23:46	61.9
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14/9/2011 2:11	56.2	15/9/2011 3:21	61.3	16/9/2011 4:31	56.1	17/9/2011 5:41	59.8	18/9/2011 6:51	60.9	20/9/2011 0:01	61.9
14/9/2011 2:16	57.5	15/9/2011 3:26	61.3	16/9/2011 4:36	56.0	17/9/2011 5:46	60.2	18/9/2011 6:56	63.3	20/9/2011 0:06	62.0
14/9/2011 2:21	56.3	15/9/2011 3:31	59.9	16/9/2011 4:41	56.1	17/9/2011 5:51	60.2	18/9/2011 23:01	61.5	20/9/2011 0:11	62.2
14/9/2011 2:26	56.0	15/9/2011 3:36	60.8	16/9/2011 4:46	56.3	17/9/2011 5:56	59.5	18/9/2011 23:06	61.6	20/9/2011 0:16	60.9
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14/9/2011 2:36	57.0	15/9/2011 3:46	65.3	16/9/2011 4:56	56.7	17/9/2011 6:06	60.2	18/9/2011 23:16	61.3	20/9/2011 0:26	60.8
14/9/2011 2:41	57.7	15/9/2011 3:51	62.6	16/9/2011 5:01	56.4	17/9/2011 6:11	60.3	18/9/2011 23:21	61.2	20/9/2011 0:31	60.7
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14/9/2011 2:51	55.6	15/9/2011 4:01	61.4	16/9/2011 5:11	56.7	17/9/2011 6:21	61.2	18/9/2011 23:31	60.6	20/9/2011 0:41	60.3
14/9/2011 2:56	55.6	15/9/2011 4:06	61.4	16/9/2011 5:16	57.5	17/9/2011 6:26	60.3	18/9/2011 23:36	60.0	20/9/2011 0:46	59.6
14/9/2011 3:01	55.8	15/9/2011 4:11	59.8	16/9/2011 5:21	57.1	17/9/2011 6:31	61.2	18/9/2011 23:41	60.8	20/9/2011 0:51	60.1
14/9/2011 3:06	55.1	15/9/2011 4:16	58.9	16/9/2011 5:26	58.5	17/9/2011 6:36	61.6	18/9/2011 23:46	60.4	20/9/2011 0:56	60.2
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14/9/2011 4:46	55.4	15/9/2011 5:56	60.7	16/9/2011 23:06	61.8	18/9/2011 0:16	60.3	19/9/2011 1:26	57.7	20/9/2011 2:36	58.4
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14/9/2011 5:31	57.3	15/9/2011 6:41	64.0	16/9/2011 23:51	61.5	18/9/2011 1:01	59.7	19/9/2011 2:11	56.9	20/9/2011 3:21	56.5
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14/9/2011 5:41	58.1	15/9/2011 6:51	63.5	17/9/2011 0:01	61.0	18/9/2011 1:11	59.0	19/9/2011 2:21	57.2	20/9/2011 3:31	56.5
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14/9/2011 5:51	59.5	15/9/2011 23:01	57.2	17/9/2011 0:11	60.9	18/9/2011 1:21	59.0	19/9/2011 2:31	56.4	20/9/2011 3:41	56.7
14/9/2011 5:56	58.3	15/9/2011 23:06	57.5	17/9/2011 0:16	61.2	18/9/2011 1:26	58.8	19/9/2011 2:36	57.0	20/9/2011 3:46	57.7
14/9/2011 6:01	58.6	15/9/2011 23:11	56.7	17/9/2011 0:21	61.4	18/9/2011 1:31	59.1	19/9/2011 2:41	56.9	20/9/2011 3:51	57.7
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14/9/2011 6:11	59.9	15/9/2011 23:21	56.0	17/9/2011 0:31	60.5	18/9/2011 1:41	58.6	19/9/2011 2:51	55.9	20/9/2011 4:01	56.9
14/9/2011 6:16	60.4	15/9/2011 23:26	56.9	17/9/2011 0:36	60.3	18/9/2011 1:46	59.1	19/9/2011 2:56	55.0	20/9/2011 4:06	56.5
14/9/2011 6:21	60.6	15/9/2011 23:31	56.7	17/9/2011 0:41	60.6	18/9/2011 1:51	59.8	19/9/2011 3:01	55.3	20/9/2011 4:11	56.8
14/9/2011 6:26	61.2	15/9/2011 23:36	56.8	17/9/2011 0:46	60.0	18/9/2011 1:56	60.9	19/9/2011 3:06	54.7	20/9/2011 4:16	57.2
14/9/2011 6:31	62.6	15/9/2011 23:41	56.1	17/9/2011 0:51	59.9	18/9/2011 2:01	59.9	19/9/2011 3:11	54.4	20/9/2011 4:21	55.6
14/9/2011 6:36	61.8	15/9/2011 23:46	55.9	17/9/2011 0:56	59.9	18/9/2011 2:06	58.8	19/9/2011 3:16	54.0	20/9/2011 4:26	56.2
14/9/2011 6:41	65.1	15/9/2011 23:51	56.6	17/9/2011 1:01	59.5	18/9/2011 2:11	58.1	19/9/2011 3:21	55.6	20/9/2011 4:31	56.4
14/9/2011 6:46	63.7	15/9/2011 23:56	56.9	17/9/2011 1:06	59.6	18/9/2011 2:16	58.4	19/9/2011 3:26	56.3	20/9/2011 4:36	55.7
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14/9/2011 6:56	62.6	16/9/2011 0:06	61.0	17/9/2011 1:16	59.6	18/9/2011 2:26	58.5	19/9/2011 3:36	55.5	20/9/2011 4:46	56.8
14/9/2011 23:01	60.7	16/9/2011 0:11	60.1	17/9/2011 1:21	60.1	18/9/2011 2:31	58.2	19/9/2011 3:41	57.0	20/9/2011 4:51	57.1
14/9/2011 23:06	60.6	16/9/2011 0:16	60.2	17/9/2011 1:26	59.1	18/9/2011 2:36	59.4	19/9/2011 3:46	55.2	20/9/2011 4:56	57.8
14/9/2011 23:11	61.2	16/9/2011 0:21	59.9	17/9/2011 1:31	59.7	18/9/2011 2:41	58.8	19/9/2011 3:51	55.0	20/9/2011 5:01	57.3
14/9/2011 23:16	60.7	16/9/2011 0:26	59.9	17/9/2011 1:36	59.7	18/9/2011 2:46	57.7	19/9/2011			

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

21/9/2011 0:26	59.5	22/9/2011 1:36	57.4	23/9/2011 2:46	56.9	24/9/2011 3:56	58.3	25/9/2011 5:06	56.8	26/9/2011 6:16	61.5
21/9/2011 0:31	60.4	22/9/2011 1:41	57.6	23/9/2011 2:51	57.7	24/9/2011 4:01	58.4	25/9/2011 5:11	56.4	26/9/2011 6:21	61.4
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21/9/2011 0:41	58.9	22/9/2011 1:51	57.6	23/9/2011 3:01	56.3	24/9/2011 4:11	57.1	25/9/2011 5:21	56.8	26/9/2011 6:31	61.1
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21/9/2011 4:06	55.8	22/9/2011 5:16	56.9	23/9/2011 6:26	60.4	24/9/2011 7:36	60.5	25/9/2011 8:46	59.7	27/9/2011 1:56	56.6
21/9/2011 4:11	55.1	22/9/2011 5:21	59.1	23/9/2011 6:31	61.0	24/9/2011 7:41	60.7	25/9/2011 8:51	59.7	27/9/2011 2:01	57.8
21/9/2011 4:16	55.5	22/9/2011 5:26	57.7	23/9/2011 6:36	61.8	24/9/2011 7:46	61.1	25/9/2011 8:56	60.1	27/9/2011 2:06	57.0
21/9/2011 4:21	56.7	22/9/2011 5:31	56.7	23/9/2011 6:41	61.9	24/9/2011 7:51	62.0	25/9/2011 9:01	59.4	27/9/2011 2:11	56.6
21/9/2011 4:26	58.6	22/9/2011 5:36	58.0	23/9/2011 6:46	62.1	24/9/2011 7:56	60.6	25/9/2011 9:06	59.4	27/9/2011 2:16	57.0
21/9/2011 4:31	55.4	22/9/2011 5:41	62.6	23/9/2011 6:51	62.5	25/9/2011 0:01	61.6	26/9/2011 1:11	58.4	27/9/2011 2:21	56.3
21/9/2011 4:36	55.3	22/9/2011 5:46	60.1	23/9/2011 6:56	62.9	25/9/2011 0:06	61.1	26/9/2011 1:16	58.5	27/9/2011 2:26	56.7
21/9/2011 4:41	56.8	22/9/2011 5:51	59.8	23/9/2011 7:01	61.3	25/9/2011 0:11	61.1	26/9/2011 1:21	59.9	27/9/2011 2:31	57.3
21/9/2011 4:46	55.6	22/9/2011 5:56	59.1	23/9/2011 7:06	61.7	25/9/2011 0:16	61.0	26/9/2011 1:26	58.7	27/9/2011 2:36	55.6
21/9/2011 4:51	55.5	22/9/2011 6:01	59.8	23/9/2011 7:11	61.2	25/9/2011 0:21	60.5	26/9/2011 1:31	57.8	27/9/2011 2:41	57.1
21/9/2011 4:56	56.5	22/9/2011 6:06	59.5	23/9/2011 7:16	60.9	25/9/2011 0:26	62.7	26/9/2011 1:36	58.2	27/9/2011 2:46	57.4
21/9/2011 5:01	57.0	22/9/2011 6:11	59.9	23/9/2011 7:21	61.2	25/9/2011 0:31	60.6	26/9/2011 1:41	58.4	27/9/2011 2:51	57.6
21/9/2011 5:06	56.8	22/9/2011 6:16	60.8	23/9/2011 7:26	61.0	25/9/2011 0:36	60.9	26/9/2011 1:46	57.8	27/9/2011 2:56	57.4
21/9/2011 5:11	56.5	22/9/2011 6:21	60.9	23/9/2011 7:31	61.6	25/9/2011 0:41	60.1	26/9/2011 1:51	57.7	27/9/2011 3:01	57.0
21/9/2011 5:16	56.6	22/9/2011 6:26	61.6	23/9/2011 7:36	60.9	25/9/2011 0:46	60.0	26/9/2011 1:56	57.4	27/9/2011 3:06	56.2
21/9/2011 5:21	57.2	22/9/2011 6:31	61.2	23/9/2011 7:41	60.8	25/9/2011 0:51	59.9	26/9/2011 2:01	57.6	27/9/2011 3:11	56.7
21/9/2011 5:26	57.0	22/9/2011 6:36	61.1	23/9/2011 7:46	61.0	25/9/2011 0:56	59.7	26/9/2011 2:06	58.2	27/9/2011 3:16	56.7
21/9/2011 5:31	60.2	22/9/2011 6:41	61.4	23/9/2011 7:51	61.3	25/9/2011 1:01	59.7	26/9/2011 2:11	57.3	27/9/2011 3:21	55.8
21/9/2011 5:36	57.5	22/9/2011 6:46	61.4	23/9/2011 7:56	60.9	25/9/2011 1:06	60.1	26/9/2011 2:16	57.4	27/9/2011 3:26	55.8
21/9/2011 5:41	58.4	22/9/2011 6:51	62.6	24/9/2011 0:01	60.5	25/9/2011 1:11	59.3	26/9/2011 2:21	57.5	27/9/2011 3:31	56.5
21/9/2011 5:46	57.9	22/9/2011 6:56	62.8	24/9/2011 0:06	60.7	25/9/2011 1:16	59.2	26/9/2011 2:26	56.9	27/9/2011 3:36	56.4
21/9/2011 5:51	59.6	22/9/2011 7:01	61.3	24/9/2011 0:11	60.8	25/9/2011 1:21	59.3	26/9/2011 2:31	56.5	27/9/2011 3:41	57.1
21/9/2011 5:56	58.6	22/9/2011 7:06	61.0	24/9/2011 0:16	61.1	25/9/2011 1:26	58.8	26/9/2011 2:36	56.2	27/9/2011 3:46	55.2
21/9/2011 6:01	59.6	22/9/2011 7:11	61.2	24/9/2011 0:21	60.7	25/9/2011 1:31	59.4	26/9/2011 2:41	56.0	27/9/2011 3:51	56.5
21/9/2011 6:06	60.7	22/9/2011 7:16	61.4	24/9/2011 0:26	61.2	25/9/2011 1:36	58.9	26/9/2011 2:46	57.0	27/9/2011 3:56	57.3
21/9/2011 6:11	60.4	22/9/2011 7:21	60.8	24/9/2011 0:31	61.3	25/9/2011 1:41	59.0	26/9/2011 2:51	56.9	27/9/2011 4:01	56.4
21/9/2011 6:16	60.8	22/9/2011 7:26	61.4	24/9/2011 0:36	60.6	25/9/2011 1:46	59.2	26/9/2011 2:56	54.8	27/9/2011 4:06	55.6
21/9/2011 6:21	61.3	22/9/2011 7:31	61.4	24/9/2011 0:41	60.5	25/					

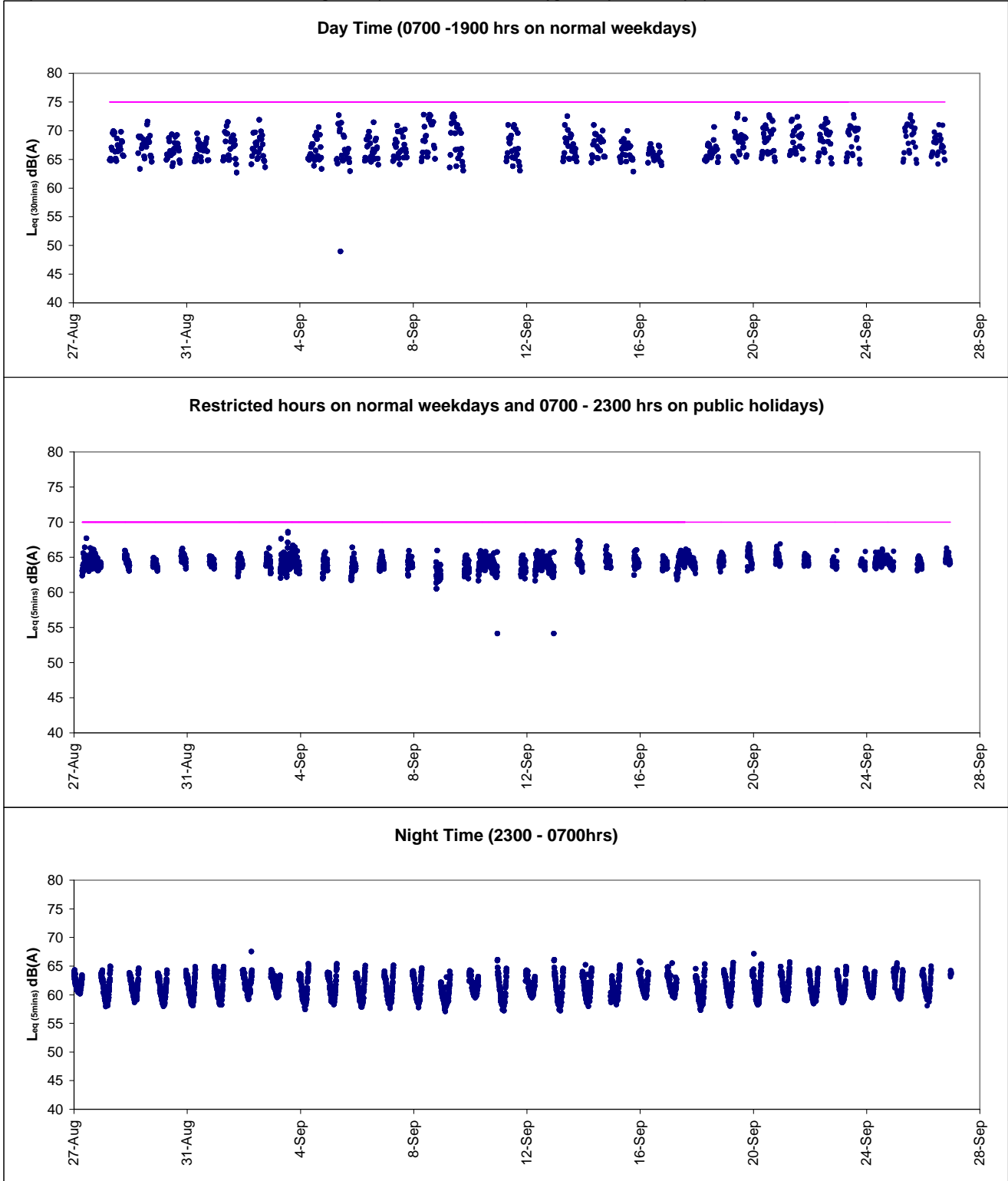
Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

27/9/2011 23:26 61.1  
27/9/2011 23:31 61.1  
27/9/2011 23:36 60.4  
27/9/2011 23:41 60.5  
27/9/2011 23:46 61.4  
27/9/2011 23:51 60.4  
27/9/2011 23:56 60.4

\*Exceedance recorded during  
monitoring compliance check  
with NCO.

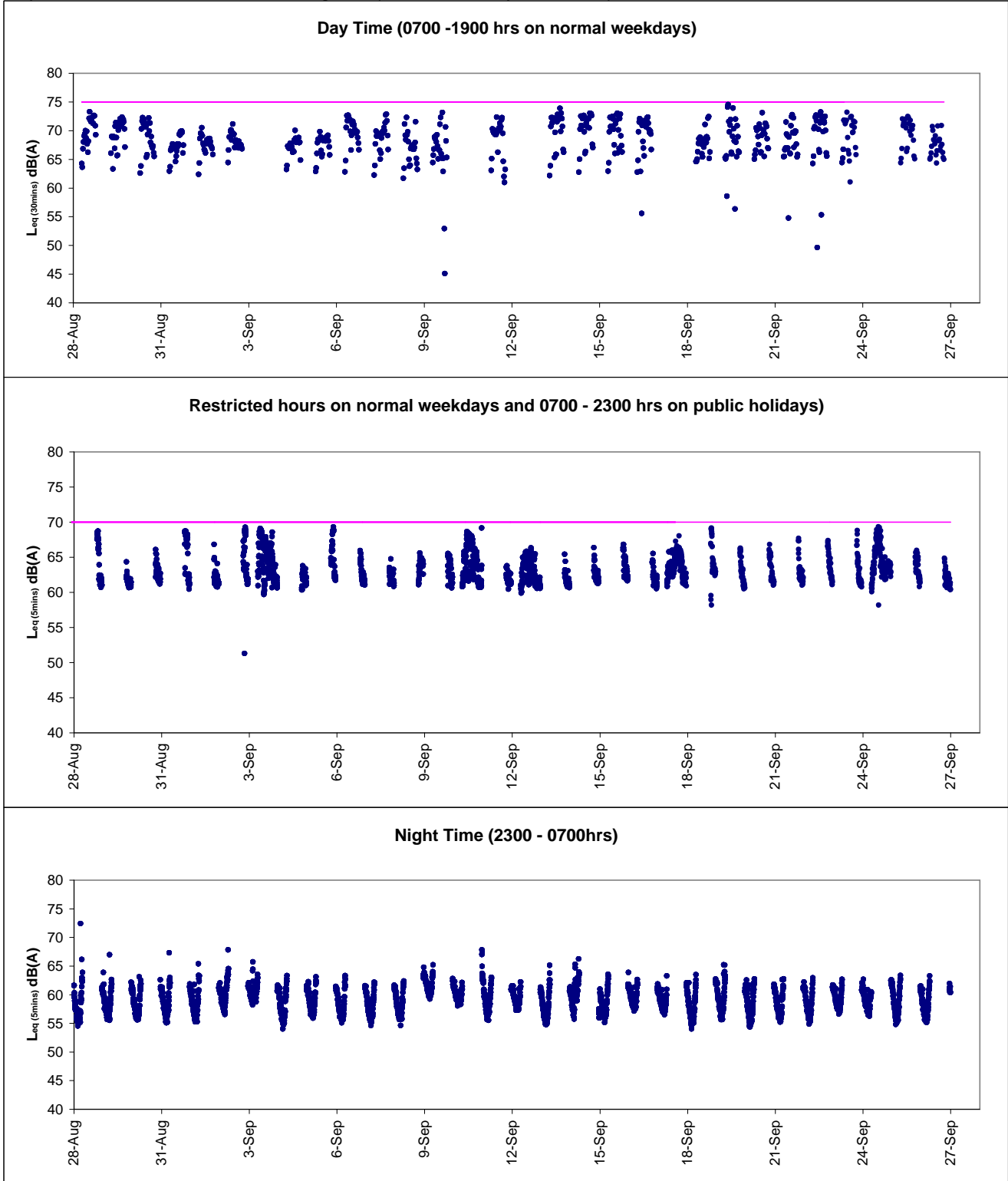


Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)





Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Centre)





***Appendix 6.1***

*Event Action Plans*



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none"><li>1. Notify ER, IEC and Contractor;</li><li>2. Carry out investigation;</li><li>3. Report the results of investigation to the IEC, ER and Contractor;</li><li>4. Discuss with the IEC and Contractor on remedial measures required;</li><li>5. Increase monitoring frequency to check mitigation effectiveness.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Review the investigation results submitted by the ET;</li><li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li><li>3. Advise the ER on the effectiveness of the proposed remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Confirm receipt of notification of failure in writing;</li><li>2. Notify Contractor;</li><li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li><li>4. Supervise the implementation of remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Submit noise mitigation proposals to IEC and ER;</li><li>2. Implement noise mitigation proposals.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	<ol style="list-style-type: none"> <li>1. Inform IEC, ER, Contractor and EPD;</li> <li>2. Repeat measurements to confirm findings;</li> <li>3. Increase monitoring frequency;</li> <li>4. Identify source and investigate the cause of exceedance;</li> <li>5. Carry out analysis of Contractor's working procedures;</li> <li>6. Discuss with the IEC, Contractor and ER on remedial measures required;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures;</li> <li>5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Submit further proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>





**Event / Action Plan for Construction Air Quality**

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
<b>ACTION LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Notify Contractor.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
<b>LIMIT LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>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)</li> </ol>



**Event and Action Plan for Marine Water Quality**

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



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



**Event and Action Plan for Odour Patrol**

Event	ACTION	
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD
<b>Action Level</b>		
Exceedance of Action Level	<ol style="list-style-type: none"><li>1. Identify source/reason of exceedance;</li><li>2. Repeat odour patrol to confirm finding.</li></ol>	<ol style="list-style-type: none"><li>1. Carry out investigation to identify the source/reason of exceedance;</li><li>2. Rectify any unacceptable practice</li><li>3. Implement more mitigation measures if necessary;</li><li>4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li></ol>
<b>Limit Level</b>		
Exceedance of Limit Level	<ol style="list-style-type: none"><li>1. Identify source / reason of exceedance;</li><li>2. Repeat odour patrol to confirm findings;</li><li>3. Increase odour patrol frequency;</li><li>4. If exceedance stops, cease additional odour patrol.</li></ol>	<ol style="list-style-type: none"><li>1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks;</li><li>2. Rectify any unacceptable practice;</li><li>3. Formulate remedial actions;</li><li>4. Ensure remedial actions properly implemented;</li><li>5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented;</li><li>6. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li></ol>



***Appendix 6.2***

*Summary for Notification of Exceedance*



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up
X_W235	1-Sep-11	Mid-flood	WSD7	DO (mg/L)	5.16	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of the water quality monitoring station Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Checked with Contractor's works on 1 Sep 2011, there was no marine works at Tsim Sha Tsui and Cross Harbour Water Mains. 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.
				Turbidity	12.53	10.01	11.54	
				Suspended Solid	11.00	16.26	19.74	



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C297	29-Aug-11	Mid-ebb	C7	DO (mg/L)	2.58	3.02	2.44	Possible reason: Possible in relation to the low flow and low water depth during the ebb tide  Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - trimming and seawall block installation at TS4 The silt curtain and silt screen were in proper condition during monitoring and the site inspection on 30 August 2011.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.
				Turbidity (NTU)	4.23	11.35	12.71	
				SS (mg/L)	10.00	18.42	27.54	
X_10C298	1-Sep-11	Mid-ebb	C7	DO (mg/L)	2.87	3.02	2.44	Possible reason: Possible in relation to the low flow and low water depth during the ebb tide  Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Navigation channel dredging (located outside the TS4); - Trimming at TS4 The silt screen were in proper condition during monitoring.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.
				Turbidity (NTU)	3.75	11.35	12.71	
				SS (mg/L)	4.00	18.42	27.54	
X_10C299	3-Sep-11	Mid-ebb	C7	DO (mg/L)	2.47	3.02	2.44	Possible reason: Possible in relation to the low flow and low water depth during the ebb tide  Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Navigation channel dredging (located outside the TS4); - Trimming at TS4 The silt screen were in proper condition during monitoring.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.
				Turbidity (NTU)	4.37	11.35	12.71	
				SS (mg/L)	5.00	18.42	27.54	
X_10C300	3-Sep-11	Mid-flood	C7	DO (mg/L)	2.53	3.02	2.44	Possible reason: Possible in relation to the low flow and low water depth during the ebb tide  Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Navigation channel dredging (located outside the TS4); - Trimming at TS4 The silt screen were in proper condition during monitoring.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.
				Turbidity (NTU)	2.96	11.35	12.71	
				SS (mg/L)	3.00	18.42	27.54	



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C301	5-Sep-11	Mid-flood	C7	DO (mg/L)	2.62	3.02	2.44	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. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Navigation channel dredging (located outside the TS4); - Laying the seawall block at TS4 The silt curtain and silt screen were in proper condition during monitoring and the site inspection on 6 Sep 2011. Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.
				Turbidity (NTU)	2.76	11.35	12.71	
				SS (mg/L)	3.50	18.42	27.54	
X_10C302	14-Sep-11	Mid-ebb	C7	DO (mg/L)	2.87	3.02	2.44	Possible reason: Possible in relation to the low flow and low water depth during the ebb tide Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were conducted below marine works on that day: - Trimming at TS4; - Rock-filling and landfilling at TS4 The silt curtain and silt screen were in proper condition during monitoring and the site inspection on 15 Sep 2011. Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.
				Turbidity (NTU)	2.92	11.35	12.71	
				SS (mg/L)	4.00	18.42	27.54	





Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C303	14-Sep-11 12:21	Mid-ebb	C8	DO (mg/L)	4.46	3.02	2.44	Possible reason: Accumulation of particles discharged from outfalls near monitoring station Action taken / to be taken: Checked with the contractor marine work activities on 14 Sep 2011, the major marine activity was backfilling of Grade 400 rock at Chainage 615-620 between 0915 and 1800hrs. The silt curtain was in proper condition during the monitoring. 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.
				Turbidity (NTU)	11.75	11.35	12.71	
				SS (mg/L)	13.00	18.42	27.54	
X_10C304	16-Sep-11 16:22	Mid-ebb	C8	DO (mg/L)	4.02	3.02	2.44	Possible reason: Accumulation of particles discharged from outfalls near monitoring station Action taken / to be taken: Checked with the contractor marine work activities on 14 Sep 2011, the major marine activity was backfilling at Chainage 465-480 between 1100 and 1730hrs. The silt curtain was in proper condition during the monitoring. 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.
				Turbidity (NTU)	21.65	11.35	12.71	
				SS (mg/L)	12.50	18.42	27.54	

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D297	29-Aug-11	Mid-ebb	C7	Middle	DO (mg/L)	2.52	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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: - trimming and seawall block installation at TS4 The silt curtain and silt screen were in proper condition during monitoring and the site inspection on 30 August 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D298	29-Aug-11	Mid-ebb	Ex-WPCWA SW	Suface	DO (mg/L)	2.38	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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: - trimming and seawall block installation at TS4 There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 30 August 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D299	29-Aug-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	2.48	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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: - trimming and seawall block installation There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 30 August 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D300	29-Aug-11	Mid-ebb	Ex-WPCWA SW	Bottom	DO (mg/L)	2.35	3.31	3.25	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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: - trimming and seawall block installation at TS4 There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 30 August 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D301	29-Aug-11	Mid-ebb	Ex-WPCWA SE	Surface	DO (mg/L)	2.69	3.55	3.76	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>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:  - trimming and seawall block installation at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 30 August 2011. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D302	29-Aug-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	2.59	3.55	3	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>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:  - trimming and seawall block installation at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 30 August 2011. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D303	29-Aug-11	Mid-ebb	Ex-WPCWA SE	Bottom	DO (mg/L)	2.59	3.76	3.76	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>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:  - trimming and seawall block installation at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 30 August 2011. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D304	1-Sep-11	Mid-ebb	C7	Middle	DO (mg/L)	2.86	3.31	2.57	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: The silt screen were in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D305	1-Sep-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.05	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D306	1-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	2.79	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D307	3-Sep-11	Mid-flood	C6	Middle	DO (mg/L)	1.92	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D308	3-Sep-11	Mid-flood	C7	Middle	DO (mg/L)	2.69	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: The silt screen was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D309	3-Sep-11	Mid-flood	Ex-WPCWA SW	Middle	DO (mg/L)	2.49	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D310	3-Sep-11	Mid-flood	Ex-WPCWA SE	Surface	DO (mg/L)	2.33	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D311	3-Sep-11	Mid-flood	Ex-WPCWA SE	Middle	DO (mg/L)	2.19	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D312	3-Sep-11	Mid-flood	Ex-WPCWA SE	Bottom	DO (mg/L)	2.26	3.76	3.76	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D313	3-Sep-11	Mid-ebb	C6	Middle	DO (mg/L)	2.01	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D314	3-Sep-11	Mid-ebb	C7	Middle	DO (mg/L)	2.50	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: The silt screen were in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D315	3-Sep-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	2.51	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D316	3-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	2.56	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D317	5-Sep-11	Mid-flood	C6	Middle	DO (mg/L)	1.29	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Laying the seawall block at TS4  The silt curtain was in proper condition during monitoring and the site inspection on 6 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_18D318	5-Sep-11	Mid-flood	C7	Middle	DO (mg/L)	2.64	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Laying the seawall block at TS4  The silt curtain and silt screen were in proper condition during monitoring and the site inspection on 6 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D319	5-Sep-11	Mid-flood	Ex-WPCWA SW	Middle	DO (mg/L)	2.13	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Laying the seawall block at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 6 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D320	5-Sep-11	Mid-flood	Ex-WPCWA SE	Middle	DO (mg/L)	2.01	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Laying the seawall block at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 6 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D321	8-Sep-11	Mid-flood	C6	Middle	DO (mg/L)	2.31	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming and landfilling at TS4  The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 7 September.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D322	8-Sep-11	Mid-flood	C7	Middle	DO (mg/L)	3.14	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>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:  - Navigation channel dredging (located outside the TS4);  - Trimming and landfilling at TS4  The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 7 September.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D323	8-Sep-11	Mid-ebb	C6	Middle	DO (mg/L)	1.62	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming and landfilling at TS4  The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 7 September.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D324	8-Sep-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	2.77	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming and landfilling at TS4  There were no marine activities conducted at ex-PCWA. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 7 September.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D325	8-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	2.61	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Trimming and landfilling at TS4  There were no marine activities conducted at ex-PCWA. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 7 September.  Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D326	10-Sep-11	Mid-ebb	C6	Middle	DO (mg/L)	2.43	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 works at TS4;  - Landfilling at TS4</p> <p>Remarks / Other Obs: The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D327	10-Sep-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	2.81	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 works at TS4;  - Landfilling at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D328	10-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.08	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 works at TS4;  - Landfilling at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D329	12-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.12	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Navigation channel dredging (located outside the TS4);  - Seawall block construction and landfilling at TS4</p> <p>Remarks / Other Obs: There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_18D330	14-Sep-11	Mid-ebb	C6	Middle	DO (mg/L)	2.33	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Trimming at TS4;  - Rock-filling and landfilling at TS4</p> <p>Remarks / Other Obs: The silt curtain was in proper condition during monitoring and the site inspection on 15 Sep 2011. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D331	14-Sep-11	Mid-ebb	C7	Middle	DO (mg/L)	2.91	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Trimming at TS4;  - Rock-filling and landfilling at TS4  The silt curtain and silt screen were in proper condition during monitoring and the site inspection on 15 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D332	14-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.37	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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:  - Trimming at TS4;  - Rock-filling and landfilling at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 15 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D333	16-Sep-11	Mid-ebb	C6	Middle	DO (mg/L)	2.35	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 works and trimming at TS4;  - Landfilling at TS4  The silt curtain was in proper condition during monitoring and the site inspection on 15 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D334	16-Sep-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	2.77	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 works and trimming at TS4;  - Landfilling at TS4  There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 15 Sep 2011.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D335	16-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	2.66	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Remarks / Other Obs:</p>	<p>Possible in relation to the low flow and low water depth during the 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 works and trimming at TS4; - Landfilling at TS4 There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 15 Sep 2011. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D336	19-Sep-11	Mid-flood	C6	Middle	DO (mg/L)	2.05	2.6	2	<p>Possible reason: Action taken / to be taken:</p> <p>Remarks / Other Obs:</p>	<p>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: - Landfilling at TS4 The silt curtain was in proper condition during monitoring and the site inspection on 20 Sep 2011. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 20 September. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D337	19-Sep-11	Mid-flood	Ex-WPCWA SW	Middle	DO (mg/L)	2.98	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Remarks / Other Obs:</p>	<p>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: - Landfilling at TS4 There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 20 Sep 2011. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 20 September. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D338	19-Sep-11	Mid-flood	Ex-WPCWA SE	Middle	DO (mg/L)	2.93	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Remarks / Other Obs:</p>	<p>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: - Landfilling at TS4 There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 20 Sep 2011. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 20 September. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D339	22-Sep-11	Mid-ebb	C7	Middle	DO (mg/L)	3.11	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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: - Rock-filling at TS4</p> <p>Remarks / Other Obs:</p> <p>The silt curtain and silt screen were in proper condition during monitoring and the site inspection on 20 Sep 2011. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 20 September. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D340	22-Sep-11	Mid-ebb	Ex-WPCWA SW	Middle	DO (mg/L)	2.87	3.19	3.1	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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: - Rock-filling at TS4</p> <p>Remarks / Other Obs:</p> <p>There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 20 Sep 2011. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 20 September. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D341	22-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	2.74	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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: - Rock-filling at TS4</p> <p>Remarks / Other Obs:</p> <p>There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring and the site inspection on 20 Sep 2011. The odour intensity at the monitoring points at CWBTS and ex-PCWA were below Action Level on 20 September. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D342	24-Sep-11	Mid-flood	Ex-WPCWA SE	Middle	DO (mg/L)	3.02	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>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: - Seawall block laying at TS4</p> <p>Remarks / Other Obs:</p> <p>There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring. In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10D343	24-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.03	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 at TS4 There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D344	26-Sep-11	Mid-ebb	C7	Middle	DO (mg/L)	3.20	3.31	2.57	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 works at TS4 The silt screen were in proper condition during monitoring.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10D345	26-Sep-11	Mid-ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.10	3.55	3	<p>Possible reason: Action taken / to be taken:</p> <p>Possible in relation to the low flow and low water depth during the 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 works at TS4 There were no marine activities conducted at ex-PCWA. The silt curtain was in proper condition during monitoring.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>



***Appendix 9.1***

*Complaint Log*

**Environmental Complaints Log**

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	<ol style="list-style-type: none"><li>1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18<sup>th</sup> Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.</li><li>2) Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.</li><li>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.</li><li>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.</li><li>5) No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.</li></ol>	Closed
100321b	21/3/2010	Unknown	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March 2010(Monday).	<ol style="list-style-type: none"><li>1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18<sup>th</sup> 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.</li><li>2) Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.</li><li>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.</li><li>4) No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</li><li>2) According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010.</li><li>3) No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.</li><li>2) There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.</li><li>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.</li><li>4) It is considered as invalid from the EP and CNP point of view.</li></ol>	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	<ol style="list-style-type: none"><li>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.</li><li>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.</li><li>3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no.. WSD15)	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 has 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.</li><li>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.</li><li>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.</li></ol>	Closed
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</li><li>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.</li><li>3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine Department	North Point	Bad odour was generated from the dredging plant off North Point	<ol style="list-style-type: none"><li>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.</li><li>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.</li><li>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.</li></ol>	Closed
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	<ol style="list-style-type: none"><li>1) ET confirmed the following information with resident site staff on the complaint:<ul style="list-style-type: none"><li>• It was referred to the filling operation at North Point</li></ul></li></ol>	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)		<p>filling operation was louder than the traffic noise &amp; 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;</p> <p>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.</p>	<p>Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II;</p> <ul style="list-style-type: none"> <li>• 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;</li> <li>• Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights;</li> <li>• No starting work on 7 Dec 2010 at 0630hours.</li> </ul> <p>2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour;</p> <p>3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill;</p> <p>4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time.</p> <p>5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose;</p> <p>6) No further complaint was received after implementation of proposed measures</p>	
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.	<p>1) The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work.</p> <p>2) Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement.</p> <p>3) It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant.</p> <p>4) It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile</p> <p>5) The concern of mosquitoes breeding is out the scope of EM&amp;A, the follow-up action is not reported in this monthly EM&amp;A report.</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1-272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	<ol style="list-style-type: none"><li>1) According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period.</li><li>2) There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre.</li><li>3) It is considered as invalid complaint under this Project.</li></ol>	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	<ol style="list-style-type: none"><li>1) The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.</li><li>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.</li><li>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.</li><li>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.</li><li>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.</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon-wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	<ol style="list-style-type: none"><li>1) Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period</li><li>2) Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary.</li><li>3) Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation.</li><li>4) Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.</li></ol>	Closed
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309)	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	<ol style="list-style-type: none"><li>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.</li><li>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.</li><li>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</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 28 July 2011</li> <li>2) RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 8 August 2011</li> <li>2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring</li> <li>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.</li> <li>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.</li> </ol>	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 28 July 2011</li> <li>2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents.</li> <li>3) No noise exceedance was recorded at construction noise</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	<p>monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.</p> <p>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.</p>	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	<p>1) It was referred by AECOM to ET on 28 July 2011</p> <p>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.</p> <p>3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.</p>	Closed
	08/08/2011				<p>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.</p> <p>5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.</p> <p><i>Remarks: There will be counted as two complaints in this complaint log.</i></p>	
110810	10/08/2011	Mr. Yip by ICC no. 1 - 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	<p>1) It was referred by AECOM to ET on 17 August 2011.</p> <p>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.</p> <p>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.</p> <p>4) Contractors were advised to relocate the loose materials</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	<ol style="list-style-type: none"> <li>1) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01.</li> <li>2) The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.</li> <li>3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>	Closed
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the           <ul style="list-style-type: none"> <li>• construction works were referred to the Contractors HY/2009/11 and HY/2009/19.</li> <li>• The pump is located on the site area of HY/2009/19</li> <li>• A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to exclude the outfall.</li> <li>• An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project</li> </ul> </li> </ol>	Waiting RSS respond





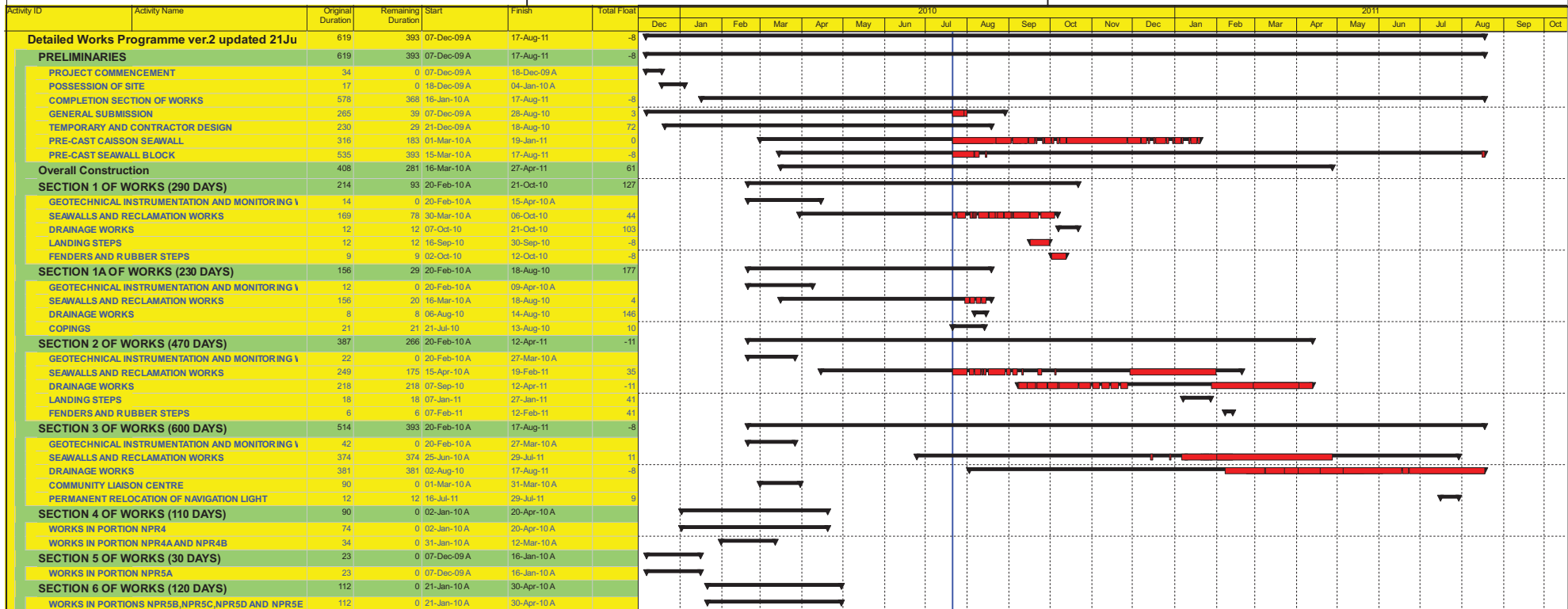
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>team), contractor of HY/200911 and HY/2009/19 and IECOn 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.</p> <ul style="list-style-type: none"><li>• Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19.</li><li>• 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</li></ul> <p>2) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying with their expectation.</p> <p>3) During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.</p> <p>4) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.</p> <p>5) It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.</p> <p>6) Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.</p> <p>7) Contractors have fulfilled the requirement of site cleanliness and no exceedance was recorded during Water Quality Monitoring. It is considered 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</p>	





***Appendix 10.1***

*Construction Programme of Individual Contracts*



Actual Work    
  Critical Remaining Work    
  Summary  
 Remaining Work    
 ◆ Milestone

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																			
			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec									
<b>Submissions before Works Commencement</b>																																																										
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	◆																																																							
<b>Cross Harbour Watermains from WCN to TST (DP6)</b>																																																										
Trench dredging for marine watermains installation	29/4/10	28/10/10				■																																																				
Backfilling for watermain	28/1/11	14/12/11													■																																											
<b>Reclamation Works at HKCEC Water Channel (DP3)</b>																																																										
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10				■																																																				
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11				■																																																				
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11				■																																																				
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11													■																																											
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12																																					■																			
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13																																					■																			

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

ID	Task Name	Duration	Start	2010 2011 2012 2013 2014 2015																							
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
1	<b>HK/2009/02-Marine &amp; Reclamation Works</b>	<b>2008 d</b>	<b>Thu 28/1/10</b>	[Summary bar from Q4 2009 to Q4 2015]																							
2	Contract Commencement	0 d	Thu 28/1/10	[Milestone diamond at start of Q4 2009]																							
3	<b>General</b>	<b>1879 d</b>	<b>Mon 22/2/10</b>	[Summary bar from Q1 2010 to Q4 2015]																							
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10	[Task bar in Q1 2010]																							
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10	[Task bar in Q1 2010]																							
6	Engineer's Design review for Dredging of WCR1, WCR2 & WCR4	30 d	Mon 22/3/10	[Task bar in Q1 2010]																							
7	Relocation of New Star Ferry Pier	0 d	Tue 18/3/14	[Milestone diamond in Q3 2014]																							
8	Demolition of Existing Star Ferry Pier	100 d	Tue 18/3/14	[Task bar in Q3 2014]																							
9	Stage 2 Marine GI for Reclamation	14 d	Tue 18/3/14	[Task bar in Q3 2014]																							
10	Engineer's Design review for Dredging of WCR3	21 d	Tue 25/3/14	[Task bar in Q3 2014]																							
11	Complete Diversion of Hung Hing Road Traffic Back to Original	20 d	Fri 6/2/15	[Task bar in Q2 2015]																							
12	Excavate & remove top of d-wall for permanent seawall construction	50 d	Wed 25/2/15	[Task bar in Q2 2015]																							
13	<b>Submarine Outfall</b>	<b>500 d</b>	<b>Tue 21/9/10</b>	[Summary bar from Q3 2010 to Q4 2011]																							
14	Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea	500 d	Tue 21/9/10	[Task bar from Q3 2010 to Q4 2011]																							
15	<b>Phase 1 - WCR1</b>	<b>158 d</b>	<b>Wed 21/4/10</b>	[Summary bar from Q1 2010 to Q4 2010]																							
16	Mobilization of plants	1 d	Wed 21/4/10	[Task bar in Q1 2010]																							
17	Seabed dredging	63 d	Wed 21/4/10	[Task bar in Q1 2010]																							
18	Bedding Filling and Permanent seawall (precast cassion)	60 d	Tue 22/6/10	[Task bar in Q2 2010]																							
19	Bulk reclamation	37 d	Fri 20/8/10	[Task bar in Q2 2010]																							
20	<b>Phase 2 - WCR2</b>	<b>149 d</b>	<b>Thu 1/3/12</b>	[Summary bar from Q3 2011 to Q4 2012]																							
21	Mobilization of plants	1 d	Thu 1/3/12	[Task bar in Q3 2011]																							
22	Temp seawall and Seabed dredging	77 d	Thu 1/3/12	[Task bar in Q3 2011]																							
23	Bulk reclamation	73 d	Wed 16/5/12	[Task bar in Q4 2011]																							
24	<b>Phase 3 - TWCR4 &amp; WCR4</b>	<b>98 d</b>	<b>Sat 28/4/12</b>	[Summary bar from Q4 2011 to Q4 2012]																							
25	Mobilization of plants	1 d	Sat 28/4/12	[Task bar in Q4 2011]																							
26	Temp Seawall and Seabed dredging	75 d	Sat 28/4/12	[Task bar in Q4 2011]																							
27	Bulk & temp reclamation	24 d	Wed 11/7/12	[Task bar in Q3 2012]																							
28	<b>Phase 4 - WCR3</b>	<b>294 d</b>	<b>Tue 18/3/14</b>	[Summary bar from Q3 2013 to Q4 2014]																							
29	Mobilization of plants	1 d	Tue 18/3/14	[Task bar in Q3 2013]																							
30	Seabed dredging for Permanent Seawall	112 d	Tue 18/3/14	[Task bar in Q3 2013]																							
31	Backfill and permanent seawall (precast cassion)	108 d	Tue 8/7/14	[Task bar in Q4 2013]																							
32	Bulk reclamation	74 d	Fri 24/10/14	[Task bar in Q4 2013]																							
33	<b>Phase 5 - Construct Permanent Seawall Blocks along curved coastline &amp; Remove TWCR4</b>	<b>105 d</b>	<b>Wed 15/4/15</b>	[Summary bar from Q4 2014 to Q4 2015]																							
34	Mobilization of plants	1 d	Wed 15/4/15	[Task bar in Q4 2014]																							
35	Dredging and Filling for permanent seawall construction	50 d	Wed 15/4/15	[Task bar in Q4 2014]																							
36	Construction of Permanent Seawall Blocks for curved coastline	56 d	Wed 3/6/15	[Task bar in Q1 2015]																							
37	Remove temp seawall and reinstate the location of TWCR4	30 d	Mon 29/6/15	[Task bar in Q1 2015]																							

Project: Reclamation Works Programme  
Date: Tue 9/3/10

Task		Summary		Rolled Up Progress		Project Summary	
Progress		Rolled Up Task		Split		Group By Summary	
Milestone		Rolled Up Milestone		External Tasks		Deadline	

Activity ID	Cal ID	Activity Description	Orig Dur	Early Start	Early Finish	Year																
						2010	2011	2012	2013	2014	2015	2016	2017									
<b>TCBR1E (TS1 Area)</b>																						
105	1	TCBR1E(TS1)-dredging+rockfill(pre. for seawall)	86	03DEC10*	26FEB11																	
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11																	
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12																	
<b>TCBR4</b>																						
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10																	
<b>TCBR2 + TCBR3 (TS2 Area)</b>																						
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10																	
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12																	
120	1	TCBR2&TCBR3(TS2) --temporary reclamation	115	26FEB12*	19JUN12																	
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	13OCT13																	
<b>TCBR1W (TS4 Area)</b>																						
125	1	TCBR1W(TS4)-dredging+rockfill(pre. for seawall)	40	19DEC10*	27JAN11																	
130	1	TCBR1W(TS4) --temporary reclamation	68	28JAN11	05APR11																	
165	1	TCBR1W(TS4)--removal temporary reclamation	26	27OCT13*	21NOV13																	
<b>TPCWAE</b>																						
135	1	TPCWAE-dredging+rockfill(pre. for seawall)	55	03DEC10*	26JAN11																	
140	1	TPCWAE --temporary reclamation	77	27JAN11	13APR11																	
170	1	TPCWAE--removal temporary reclamation	28	28SEP13*	25OCT13																	
<b>TPCWAW</b>																						
145	1	TPCWAW-dredging+rockfill(pre. for seawall)	47	28OCT13*	13DEC13																	
150	1	TPCWAW --temporary reclamation	83	14DEC13	06MAR14																	
175	1	TPCWAW--removal temporary reclamation	50	02JUL15*	20AUG15																	

 Early Bar  
 Progress Bar  
 Critical Activity

EP02 CHINA STATE CONSTRUCTION ENGG LTD Sheet 1 of 1  
 CONTRACT NO. HY/2009/15: CENTRAL WAN CHAI BYPASS- TUNNEL (CBTS SECTION)

Prepared based on IWP Rev. 0  
 Date Prepared: 28 Oct 2010



Act ID	Description	Orig Dur	Early Start	Early Finish	2011												2012												2013					
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR			
<b>Section I</b>																																		
<b>Contract Obligation</b>																																		
1000	Commencement of Section I of works	0	20JAN11 *		◆ Commencement of Section I of works																													
<b>Initial Works</b>																																		
1050	Apply Marine notice to Marine Department	30	21JAN11	19FEB11	■ Apply Marine notice to Marine Department (dredg)																													
1060	Apply Marine notice to Marine Dept. Piling	30	18FEB11	19MAR11	■ Apply Marine notice to Marine Dept. Piling																													
1080	Apply FEP under EP356/2009	21	28FEB11	20MAR11	■ Apply FEP under EP356/2009																													
1081	Submission of Works Schedule for FEP	14	05MAR11	21MAR11	■ Submission of Works Schedule for FEP																													
1082	Submission of Location Plan for FEP	14	05MAR11	21MAR11	■ Submission of Location Plan for FEP																													
1083	Submission of Silt Curtain Deployment	14	05MAR11	21MAR11	■ Submission of Silt Curtain Deployment Plan																													
1084	Submission of Silt Screen Deployment Plan	14	05MAR11	21MAR11	■ Submission of Silt Screen Deployment Plan																													
1085	Submission Noise Management Plan	14	05MAR11	21MAR11	■ Submission Noise Management Plan																													
1090	Apply Dumping Permit	30	18FEB11	19MAR11	■ Apply Dumping Permit																													
1100	Apply CNP	30	31JAN11	01MAR11	■ Apply CNP																													
1110	Apply C&D waste disposal	30	20JAN11	18FEB11	■ Apply C&D waste disposal																													
1120	Apply Discharge licence	30	18FEB11	19MAR11	■ Apply Discharge licence																													
1130	Notification of chemical waste Producer	30	20JAN11	18FEB11	■ Notification of chemical waste Producer																													
1140	Notification to Labor Dept-Works	30	20JAN11	18FEB11	■ Notification to Labor Dept-Works Commencement																													
1150	Submit Risk Ass to MTR	21	28FEB11	20MAR11	■ Submit Risk Ass to MTR																													
1260	Erect Hoarding	30	28FEB11	29MAR11	■ Erect Hoarding																													
1270	Demarcation of Marine Site Boundary	21	01MAR11	21MAR11	■ Demarcation of Marine Site Boundary																													
1280	Working Site Office establishment	14	27JAN11	09FEB11	■ Working Site Office establishment																													
<b>Monitoring</b>																																		
1160	Takeover monitoring system from C1	0	21MAR11 *		◆ Takeover monitoring system from C1																													
1180	Commence Monitoring- ADMS,etc	0	21MAR11		◆ Commence Monitoring- ADMS,etc																													
<b>Dredging Works</b>																																		
1070	Submit Dredging MS	30	18FEB11	19MAR11	■ Submit Dredging MS																													
1075	Acceptance of Dredging MS	0		19MAR11	◆ Acceptance of Dredging MS																													
1078	Initial Hydrographic Survey	1	20MAR11	20MAR11	■ Initial Hydrographic Survey																													
1200	Initial Dredging Works for Piling	15	22MAR11	05APR11	■ Initial Dredging Works for Piling																													
1210	Final Hydrographic survey	3	07MAY12	09MAY12	■ Final Hydrographic survey																													
1220	Final Dredging Works	7	10MAY12	16MAY12	■ Final Dredging Works																													
1230	Confirmation Hydrographic survey	70	17MAY12	25JUL12	■ Confirmation Hydrographic survey																													
<b>Piling Works</b>																																		
1240	Submit stage platform MS	30	10FEB11	11MAR11	■ Submit stage platform MS																													
1250	Submit piling MS	30	10FEB11	11MAR11	■ Submit piling MS																													
P1000	Erect temporary Piling Platform	120	06APR11	03AUG11	■ Erect temporary Piling Platform																													
P1020	Pre-drilling	150	06JUN11	02NOV11	■ Pre-drilling																													
P1040	Bored Piles Construction and Testing	250	06JUL11	11MAR12	■ Bored Piles Construction and Testing																													
P1060	Drive Sheet piles along Bored piles	140	03NOV11	21MAR12	■ Drive Sheet piles along Bored piles																													
P1080	Dismantle Temporary Piling Platform	50	25FEB12	14APR12	■ Dismantle Temporary Piling Platform																													
P1100	Dive sheet piles beyond precast seawall	90	17JAN12	15APR12	■ Dive sheet piles beyond precast seawall																													
P1120	Trim pilehead to cut-off level	210	29SEP11	25APR12	■ Trim pilehead to cut-off level																													
P1140	Cut steel casing of bore piles	210	06OCT11	02MAY12	■ Cut steel casing of bore piles																													
P1160	Cut sheet piles to design level for box units	120	08JAN12	06MAY12	■ Cut sheet piles to design level for box units																													

Start date 20JAN11  
 Finish date 19DEC12  
 Data date 20JAN11  
 Run date 05MAR11  
 Page number 1A  
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Contract no. HK/2010/06  
 Wan Chai Development Phase II- Central-Wan Chai By pass over MTR Tsuen Wan Line

GAMMON-LEADER JV

Works Schedule of Marine Works for EP-356/2009

- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point