

Hip Hing – Ngo Kee Joint Venture

Hong Kong Convention and
Exhibition Centre Expansion
(Previously known as HKCEC
Atrium Link Extension):
*Monthly Environmental Monitoring
and Audit Report for January 2007*

February 2007

Environmental Resources Management

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ENVIRONMENTAL MONITORING &
AUDIT REPORT

Hip Hing – Ngo Kee Joint Venture

Hong Kong Convention and
Exhibition Centre Expansion
(Previously known as HKCEC
Atrium Link Extension):
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February 2007

Reference 0050690

For and on behalf of

Environmental Resources Management

Approved by: Steve Duckworth

Signed: Steve Duckworth

Position: Deputy Managing Director

Certified by: Marcus Ip

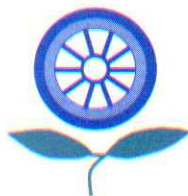
(Environmental Team Leader – Marcus Ip)

Date: 15 February 2007

This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

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14 February 2007

Maunsell Consultants Asia Ltd
Grand Central Plaza, Tower 2
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Shatin, N.T., Hong Kong

Attn: Ms Vera Chan

Dear Sir/Madam,

Hong Kong Convention Center Expansion Project
(Previously known as Hong Kong Convention and Exhibition Center, Atrium Link Extension)
Monthly EM&A Report for January 2007
(Environmental Permit No. EP-239/2006)

With reference to the captioned document concerning the Monthly EM&A report for December 2006 received from ERM dated 9 February 2007 and Annex E received from ERM dated 13 February 2007, we are pleased to provide our verification for the document pursuant to condition 3 of the Environmental Permit (EP) No. EP-239/2006.

Yours faithfully,
Nature & Technologies (HK) Limited

Ir Dr Gabriel C K Lam
Managing Director

- cc: - Hong Kong Trade Development Council (Attn: Mr. K. F. Chan)
- Hip Hing Ngo Kee Joint Venture (Attn: Mr. Eric Lau & Mr. William Tam)
- ERM (Attn: Mr. Marcus Ip)

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EXECUTIVE SUMMARY

The construction works for Hong Kong Convention and Exhibition Centre Expansion (previously known as HKCEC Atrium Link Extension) (EIAO Register No: AEIAR-100/2006) commenced on 1 August 2006. This is the sixth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 January 2007 to 31 January 2007 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Period

The major construction works taken during the reporting period included the construction of pre-bored H piles at southern and northern sides; construction of mini piles for marine platform at southern and northern sides; installation of marine pile; excavation of bored pile at BP3; stitch drilling of bored pile at BP4; stitch drilling and pre-trenching of bored pile at BP5; demolition of Phase II at Grid 16/ B-D from upper roof down to Level 2; construction of RC column at Grid A1/16, removal of glass wall at west façade and erection of temporary pedestrian diversion tunnel mock-up outside site office.

Environmental Monitoring and Audit Progress

A summary of the monitoring activities in this reporting period is listed below:

24-hour Total Suspended	
Particulates (TSP) monitoring	5 times
1-hour TSP monitoring	15 times
Water quality monitoring	13 times (mid-ebb)
	13 times (mid-flood)
Environmental site auditing	4 times

Air Quality

Five sets of 24-hour and fifteen sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during the reporting period. No exceedance was recorded during the reporting month.

Water Quality

Thirteen sets of water quality measurements, recorded at mid-flood and mid-ebb tides, were carried out at the designated monitoring stations W3, W4 and W5. No exceedance of the Action and Limit Level of water quality parameters was recorded at monitoring stations during the reporting month.

Construction Waste Management

The major construction activities undertaken in the reporting month were demolition of existing Atrium Link, land-based piling works and marine piling works. A total of 924 tonnes of inert C&D materials (including 0.5 tonnes materials reused in this Project) and 140 tonnes of C&D wastes were generated during the reporting month. The C&D wastes and inert C&D

materials generated from the Project were disposed of at SENT Landfill / Tseung Kwan O Area 137 temporary construction waste sorting facility and the public fill barging point at Quarry Bay respectively.

Environmental Site Auditing

Four weekly environmental site audits were carried out by the ET. Details of the audit findings and implementation status are presented in *Section 6*.

Environmental Non-conformance

No environmental non-compliance was identified during the reporting period.

No environmental complaint or summons was received during the reporting period.

Future Key Issues

Major works to be undertaken in the coming monitoring period are marine piling works and foundation works.

Potential environmental impacts arising from the construction activities in the coming month are mainly associated with dust, site runoff, marine water quality and waste.

ERM-Hong Kong, Limited (ERM) was appointed by Hip Hing – Ngo Kee Joint Venture as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for Hong Kong Convention and Exhibition Centre Expansion (previously known as HKCEC Atrium Link Extension) (the Project).

1.1 PURPOSE OF THE REPORT

This is the sixth EM&A report which summarizes the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 January 2007 to 31 January 2007**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : Introduction

details the scope and structure of the report.

Section 2 : Project Information

summarizes background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting period.

Section 3 : Environmental Monitoring Requirement

summarizes the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels and Event / Action Plans.

Section 4 : Implementation Status on Environmental Mitigation Measures

summarizes the implementation of environmental protection measures during the reporting period.

Section 5 : Monitoring Results

summarizes the monitoring results obtained in the reporting period.

Section 6 : Environmental Site Auditing

summarizes the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7 : **Environmental Non-conformance**

summarizes any environmental exceedance, environmental complaints and environmental summons received within the reporting period.

Section 8 : **Future Key Issues**

summarizes the impact forecast and monitoring schedule for the next three months.

Section 9 : **Review of EM&A Data and EIA Predictions**

compares and contrasts the EM&A data in the month with the EIA predictions and annotates with explanation for any discrepancies.

Section 10 : **Conclusion**

2.1 BACKGROUND

The Hong Kong Trade Development Council (HKTDC) is expanding its existing facilities to provide additional space for Hong Kong's leading trade fairs to be held at the Hong Kong Convention and Exhibition Centre (HKCEC). The Project is located in the North Wan Chai and will occupy the aerial space between Phase I and Phase II of the HKCEC. The new Atrium Link Extension (ALE) will span across the water channel between Phase I and Phase II of the HKCEC to accommodate 3 main levels of Exhibition Hall Extensions. The level of the main roof of the Extension will be of similar height as that of the podium roof of the Phase I building. A northern row of permanent supporting columns will be located on land close to Expo Drive Central and similarly a southern row will land near to Convention Avenue. There will be no permanent intermediate columns in the waterway.

The major works activities for the ALE will comprise the following:

- Construction and demolition of the temporary footbridge;
- Demolition of the existing Atrium Link;
- Construction and demolition of a temporary working platform;
- Construction of foundations and pile caps for the ALE; and
- Construction of superstructure for the ALE.

The potential environmental impacts of the Project have been studied in the "*Hong Kong Convention and Exhibition Centre, Atrium Link Extension – Environmental Impact Assessment Report*" (EIAO Register No: AEIAR-100/2006). The EIA was approved on 21 April 2006 under the *Environmental Impact Assessment Ordinance* (EIAO) and an Environmental Permit (EP-239/2006) for the works was granted on 12 May 2006. Under the requirements of Condition 3.1 of Environmental Permit EP-239/2006, EM&A programme as set out in the EM&A Manual is required to be implemented.

The construction works commenced on 1 August 2006 and are scheduled to be completed by March 2009.

2.2 SITE DESCRIPTION

The works areas of the Project are illustrated in *Annex A*.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in *Table 2.1*. The locations of the construction activities are shown in *Annex B*.

Table 2.1 *Summary of Construction Activities Undertaken from 1 January 2007 to 31 January 2007*

Construction Activities Undertaken
<ul style="list-style-type: none">• Pre-bored H piles at southern and northern sides• Mini piles for marine platform at southern and northern sides• Marine pile installation• Excavation of bored pile at BP3• Stitch drilling of bored pile at BP4• Stitch drilling and pre-trenching of bored pile at BP5• Demolition of Phase II at Grid 16/B-D from upper roof down to Level 2• Construction of RC column at Grid A1/16• Removal of glass wall at west façade• Erection of temporary pedestrian diversion tunnel mock-up outside site office

2.4 PROJECT ORGANISATION

The Project organisation chart and contact details are shown in *Annex C*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since August 2006 is presented in *Table 2.2*.

Table 2.2 *Summary of Environmental Licensing, Notification and Permit Status*

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Environmental Permit	EP-239/2006	Throughout the Contract	Permit granted on 12 May 2006
Notification of Construction Works under Air Pollution Control (Construction Dust) Regulation	--	--	Notification on 23 June 2006
Discharge Licence under Water Pollution Control Ordinance	EP860/W10/XY0145	N/A	-
Chemical Waste Producer Registration	WPN5213-134-H3125-01	N/A	Chemical waste types: spent paint, acid, alkaline, adhesive, diesel fuel, lubricating oil and bitumen.

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Valid Construction Noise Permit for area inside the Atrium Link	GW-RS0535-06	Valid from 11 September 06 and will expire on 30 January 07)	
	GW-RS0694-06	Valid from 21 November 06 and will expire on 30 March 07	
	PP-RS0036-06	Valid from 15 November 06 and will expire on 14 January 07	
	GW-RS0709-06	Valid from 27 November 06 and will expire on 31 January 07	
	GW-RS0722-06	Valid from 2 December 06 and will expire on 30 April 07	
	GW-RS0026-07	Valid from 21 January 07 and will expire on 14 July 07	
	PP-RS0043-06	Valid from 15 January 07 and will expire on 14 July 07	
	GW-RS0048-07	Valid from 26 January 07 and will expire on 28 February 07	
	GW-RS0829-06	Valid from 3 January 07 and will expire on 2 June 07	

3.1 AIR QUALITY MONITORING

3.1.1 Monitoring Location

In accordance with the EM&A Manual, 24-hour and 1-hour Total Suspended Particulates (TSP) levels were conducted at the monitoring stations listed in *Table 3.1*. Maps and photographs showing the monitoring stations are presented in *Annex D*.

Table 3.1 *Air Monitoring Stations*

Monitoring Station	Description
AM1	Pedestrian Plaza
AM2	Renaissance Harbour View Hotel Hong Kong

3.1.2 Monitoring Parameters, Frequency and Programme

Air quality monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual (*Table 3.2*). The monitoring programme for this and next three months is shown in *Annex E*.

Table 3.2 *TSP Monitoring Parameter and Frequency*

Parameter	Frequency
24-hour TSP	Once every 6 days
1-hour TSP	3 times every 6 days

3.1.3 Action and Limit Levels

The Action and Limit levels were established in accordance with the EM&A Manual and are presented in *Table 3.3*.

Table 3.3 *Action and Limit Levels for Air Quality*

Parameter	Air Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
24-hour TSP	AM1	161	260
	AM2	168	260
1-hour TSP	AM1	327	500
	AM2	329	500

3.1.4 Monitoring Equipment

Continuous 24-hour and 1-hour TSP monitoring were performed using High Volume Samplers (HVS) with appropriate sampling inlets installed, located at the designated monitoring station. The performance specification of HVS complies with the standard method “*Determination of Suspended Particulate Matter in the Atmosphere (High Volume Method)*” as stipulated in US EPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50 Appendix B).

Table 3.4 summarizes the equipment that was used in the 24-hour and 1-hour TSP monitoring.

Table 3.4 **TSP Monitoring Equipment**

Monitoring Station	Equipment	Model (HVS, Calibration Kit)
AM1 (for 24-hr TSP)	HVS, Calibration Kit	GMW-9503, Tisch TE-5025 A
AM2 (for 24-hr TSP)	HVS, Calibration Kit	GMW-9795, Tisch TE-5025A
AM1 (for 1-hr TSP)	HVS, Calibration Kit	GMW-9864, Tisch TE-5025A
AM2 (for 1-hr TSP)	HVS, Calibration Kit	GMW-8115, Tisch TE-5025 A

3.1.5 **Monitoring Methodology**

Installation

The HVSs at AM1 and AM2 were placed at about 1.3 m above local ground level and about 4.3 m above local ground respectively. All of the HVSs were free-standing with no obstruction.

The following criteria were considered in the installation of the HVSs:

- horizontal platform with appropriate support to secure the samplers against gusty wind were provided at AM1 & AM2;
- a minimum of 2 m separation from walls, parapets and penthouses was required for rooftop samplers;
- no furnace or incinerator flues were nearby;
- airflow around the sampler was unrestricted; and
- permission was obtained to set up the samplers and to gain access to the monitoring stations.

Preparation of Filter Papers by ETS-Test Consultant Ltd

- glass fibre filters were labeled and sufficient filters that were clean and without pinholes were selected;
- all filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ± 3 °C; the relative humidity (RH) was 40%; and
- ETS-Test Consultant Ltd, a HOKLAS accredited laboratory, implements comprehensive quality assurance and quality control programmes.

Field Monitoring

- the power supply was checked to ensure that the HVSs were working properly;
- the filter holder and the area surrounding the filter were cleaned;

- the filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- the filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- the swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- then the shelter lid was closed and secured with the aluminum strip;
- the HVSs were warmed-up for about 5 minutes to establish run-temperature conditions;
- a new flowrate record sheet was set into the flow recorder;
- the flow rate of the HVSs was checked and adjust at around 0.6 -1.44 m³/min. The range specified in the EM&A Manual was between 0.6 – 1.7 m³/min;
- the programmable timer was set for a sampling period of 24 hours ± 1 hour, and the starting time, weather condition and the filter number were recorded;
- the initial elapsed time was recorded;
- at the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact;
- it was then placed in a clean plastic envelope and sealed;
- all monitoring information was recorded on a standard data sheet; and
- filters were sent to ETS-Test Consultant Ltd for analysis.

3.1.6 *Maintenance and Calibration*

The HVSs and their accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.

The flow rate of each HVS with mass flow controller were calibrated using an orifice calibrator. Initial calibration of the dust monitoring equipments were conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVSs using Tisch TE-5025 A Calibration Kit. The calibration records for the HVSs are given in *Annex F*.

3.1.7 *Event Action Plan*

The Event / Action Plan (EAP) for air quality monitoring is presented in *Annex J*.

3.2 *WATER QUALITY MONITORING*

3.2.1 *Monitoring Location*

In accordance with the EM&A Manual, the marine water quality monitoring was conducted at the designated monitoring stations during the installation and removal of temporary marine piles listed in *Table 3.5*. The map and photographs showing the monitoring stations are presented in *Annex D*.

Table 3.5 *Water Quality Monitoring Locations*

Station	Location	Intake Level	Easting	Northing
W3	Hong Kong Convention and Exhibition Centre Phase I Cooling Water Intake	7.5m below the existing pump house floor	835852.3	815907.0
W4	Wan Chai Tower/ Revenue Tower/ Immigration Tower Cooling Water Intake ⁽¹⁾	5m below the top of the existing sea wall	835944.1	815885.0
W5	Great Eagle Centre, China Resources Building Cooling Water Intake	5m below the top of the existing sea wall	835963.4	815886.5

Note:
(1) The cooling water intake for Wan Chai Tower / Revenue Tower/ Immigration Tower was partially relocated to the new pump house adjacent to Station W3.

3.2.2 *Monitoring Parameters, Frequency and Programme*

The water quality monitoring was conducted in accordance with *Table 3.6* during the period of installation and removal of temporary marine piles. The monitoring programme for the next month is shown in *Annex E*

Table 3.6 *Water Quality Monitoring Parameters & Frequency*

Parameter	Frequency	No. of Samples per Monitoring Event	Duration
Dissolved Oxygen (DO) Suspended Solids (SS) Turbidity	3 days per week at mid-flood & mid-ebb tides	2	During installation and removal of temporary marine piles.

Reference was made to the predicted tides at Quarry Bay, which is the tidal station nearest to the Project Site, published on the web site of Hong Kong Observatory (<http://www.hko.gov.hk/tide/eQUBtide.htm>).

Measurements of suspended solids (SS), turbidity in Nephelometric Turbidity Units (NTU) and dissolved oxygen (DO) in mgL⁻¹ were undertaken at designated monitoring stations. The first parameter was determined in the laboratory with the latter three were measured in-situ.

3.2.3 *Action and Limit Levels*

The Action and Limit levels were established in accordance with the EM&A Manual and are presented in *Table 3.7*.

Table 3.7 *Action and Limit Levels for Water Quality*

Parameter	Tide	Action Level	Limit Level
Dissolved Oxygen (DO) in mgL ⁻¹	Mid-Ebb	3.26	3.23
	Mid-Flood	3.25	3.14
Suspended Solids (SS) in mgL ⁻¹	Mid-Ebb	9.00	10.00
	Mid-Flood	8.18	8.40
Turbidity (Tby) in NTU	Mid-Ebb	5.32	6.19
	Mid-Flood	4.76	5.79

3.2.4 *Monitoring Equipment and Methodology*

Dissolved oxygen and temperature measuring equipment

The portable and weatherproof dissolved oxygen (DO) measuring meter (YSI Model 95) was used in the impact monitoring.

The DO measuring meter has a membrane electrode with automatic temperature compensation complete with a 50-feet cable. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring station.

Turbidity Measurement Instrument

The turbidity measurements were carried out on split water sample collected from the same depths of SS samples. A portable and weatherproof turbidity-measuring meter (HACH 2100P) was used in the impact monitoring. It has a photoelectric sensor capable of measuring turbidity between 0-1000 NTU. Response of the sensor was checked with certified standard turbidity solutions before the start of measurement.

Suspended Solids

Water samples for suspended solids measurement were collected by use of a transparent PVC cylinder (Kahlsico Water Sampler), packed in ice (cooled to 4°C without being frozen) and delivered to the laboratory as soon as possible after collection. The SS determination work was started within 24 hours after the collection of the water samples, and the testing method of SS was carried by ETS-Testconsult Ltd (HOKLAS accredited laboratory) in accordance with the APHA 19ed 2540D⁽¹⁾ and the lowest detection limit is 1 mgL⁻¹. The Quality Assurance/Quality Control (QA/QC) procedures were followed as required by HOKLAS.

⁽¹⁾ American Public Health Association Standard Methods for the Examination of Water and Wastewater.

Water Depth Detector

A portable, battery-operated echo sounder (Speedtech instrument SM-5A) was used for the determination of water depth at each designated monitoring station.

Location of the Monitoring Sites

A hand-held GPS (MLR SP24) and together with a suitably scaled map was used for locating the water quality monitoring stations.

Calibration of Equipment

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout the water quality monitoring. The calibration records for the monitoring instruments are given in *Annex H*.

3.2.5

Event / Action Plan

The Event / Action Plan (EAP) for water quality monitoring is presented in *Annex J*.

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status of environmental mitigation and status of relevant required submissions under the EP are reported as part of the monthly EM&A report⁽¹⁾. Relevant submissions made on these measures and requirements during the reporting period are summarized in *Annex K*.

⁽¹⁾ The last Monthly EM&A Report for December 2006 was submitted to the EPD on 15 January 2007.

5.1 AIR QUALITY

The monitoring data at AM1 and AM2 were provided by ETS-Testconsult Ltd. Five sets of 24-hour and fifteen sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during the reporting period. The monitoring data for 24-hour TSP and 1-hour TSP together with wind data and graphical presentations are presented in *Annex G*. In addition, the monitoring results can also be found in the web-site (<http://www.hkcecema.com/index.html>).

The weather condition during the monitoring period varied from sunny to rainy. The local impacts observed near the monitoring stations were mainly vehicle emissions along Convention Avenue and Fleming Road.

5.2 WATER QUALITY

Water quality monitoring was conducted in the reporting period and the results of water quality monitoring were provided by ETS-Testconsult Ltd. Thirteen sets of water quality measurement, recorded at mid-flood and mid-ebb tides, were carried out at the designated monitoring stations W3, W4 and W5. The monitoring data and graphical presentations are summarized in *Annex I*. In addition, the monitoring results can also be found in the web-site (<http://www.hkcecema.com/index.html>).

During the reporting month, there were no exceedances of water quality parameter at all monitoring stations.

5.3 WASTE MANAGEMENT

Waste generated from this Project includes inert construction and demolition (C&D) materials and non-inert C&D wastes. Reference has been made on the Monthly Summary Waste Flow Table prepared by Hip Hing – Ngo Kee Joint Venture (*Annex L*). With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting quarter are summarized in *Table 5.1*. The C&D wastes and inert C&D materials generated from the Project were disposed of at SENT Landfill / Tseung Kwan O Area 137 temporary construction waste sorting facility and the public fill barging point at Quarry Bay respectively.

Table 5.1 *Quantities of Waste Generated from the Project*

Month / Year	Quantity	
	C&D Materials (inert) ^(a)	C&D Materials (non-inert) ^(b)
January 2007	924 tonnes	140 tonnes (excluding 90 tonnes steel material)

Notes:

(a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil. 0.5 tonne of inert C&D materials was reused either in this Project. Non-reused inert C&D materials were disposed of at the public fill barging point at Quarry Bay.

(b) C&D wastes include steel materials generated from demolition of footbridge, the existing Atrium Link and working platform, paper / cardboard packaging waste, chemical waste and other wastes such as general refuse. A total of 90 tonnes of steel material were sent to recycler and the remaining C&D wastes other than general refuse were disposed of at SENT Landfill / Tseung Kwan O Area 137 temporary construction waste sorting facility.

Weekly site inspections were carried out by the ET. Four site inspections were conducted on 4, 11, 18 and 25 January 2007. There was no non-compliance event recorded in the reporting month.

Major findings and recommendations are summarized as follows:

Site Specific

- (i) It was observed that silty water generated from the bore piling activity was overflowing to a rainwater drain. The Contractor was reminded to line a sandbag bund around the borehole to avoid leakage. Also, the silty water collected should be properly treated and disposed of. The corrective action was undertaken in the reporting period.
- (ii) Pre-trenching work was being conducted in BP4 and additional tarpaulin screening was recommended to be provided for preventing splashing of silty water. The Contractor was also reminded to ensure all silty water generated from the pre-trenching work is collected, properly treated and disposed of. Particular attention should be paid to ensure no untreated water enters the rainwater drain. The corrective action was undertaken in the reporting period.
- (iii) Stagnant water with oil stain was accumulated around the generator near Gate 1. The Contractor was recommended to remove the stagnant water in accordance with *Code of Practice on the Packaging, Handling and Storage of Chemical Wastes*. The corrective action was undertaken in the reporting period.
- (iv) It is observed that a small amount of silty water was overflowing to the Expo Drive at site area of TSP4. It is recommended to provide additional worker to check and remove the silty water when it is overflowing to the Expo Drive. The corrective action was undertaken in the reporting period.
- (v) The Contractor was recommended to repair the float screen at both sides of the water channel and remove the rubbish adhering to the screen. The corrective action was undertaken in the reporting period.
- (vi) A lot of rubbish was observed at the area below the south-western working platform. It is recommended to clear it and provide rubbish bins within the site. The Contractor was recommended to remind the workers not to throw the rubbish to the site and should keep good housekeeping at the site. The corrective action was undertaken in the reporting period.

Water Discharge Sampling

In accordance with the discharge licence issued under WPCO, water sampling should be conducted quarterly to ensure the quality of treated effluent at three designated discharge points complies with the requirements of discharge license. The last water quality sampling was conducted on 7 December 2006 and reported in the last monthly report. The next sampling is scheduled to be conducted in March 2007.

7.1 *SUMMARY OF ENVIRONMENTAL EXCEEDANCE*

No exceedance of the Action and Limit Levels of 24-hour and 1-hour TSP was recorded at monitoring stations during the reporting period.

No exceedance of the Action and Limit Level of water quality parameters was recorded at monitoring stations during the reporting period.

7.2 *SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE*

No non-compliance event was recorded during the reporting period.

7.3 *SUMMARY OF ENVIRONMENTAL COMPLAINT*

No complaint was received during the reporting period.

7.4 *SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION*

No summons or prosecution on environmental matters was received during the reporting period.

8.1 KEY ISSUES FOR THE COMING MONTH

Works to be taken for the coming monitoring period are summarized in *Table 8.1*.

Table 8.1 Construction Works to be Undertaken in the Coming Month

Work to be taken
<ul style="list-style-type: none"> • Pre-bored H piles at southern and northern sides • Construction of bored pile BP4 and BP5 • Construction of marine platform at east shore and west shore • Construction of marine pile • Construction of temporary pile cap TSP1, TSP4 and spreader beam • Construction of RC column at Grid A1a/24 • Erection of temporary truss for supporting A1 truss at Grid A1/16-A1/24 • Steel work erection for A1 truss at Grid A1/16-A1/24 • Demolition of RC structure at west façade • Phase I A&A works (escalator pit) at Grid 24-25 • Modification of existing Atrium Link for new RC column at Grid A/17 and B/17 • Temporary pedestrian diversion tunnel mock-up outside site office

Potential environmental impacts arising from the above construction activities are mainly associated with dust, site runoff and waste management.

8.2 MONITORING SCHEDULE FOR THE COMING MONTHS

The tentative schedule of TSP monitoring for the next three months is presented in *Annex E*. The environmental monitoring will be conducted at the same monitoring locations as in this reporting month.

It is anticipated that the installation of temporary marine piles will still be carried out in February 2007 and the water monitoring will be conducted during the installation of temporary marine piles. The tentative schedule of water quality monitoring for the next month is presented in *Annex E*. The monitoring programme has been reviewed and was considered as adequate to cater for the nature of works in progress.

8.3 CONSTRUCTION PROGRAMME FOR THE NEXT THREE MONTHS

The construction programme for the next three months is presented in *Annex M*.

9.1 AIR QUALITY

Since the EIA only have qualitative assessment of dust impact during construction phase, the comparison was made on monitoring results and the Hong Kong Air Quality Objectives (HKAQO) (*Table 9.1*).

Table 9.1 Comparison of the HKAQO and Air Quality Monitoring Results

Monitoring Stations	Corresponding ASR in EIA	HKAQO, ug/m ³	Measured 24 hour TSP Monitoring Results, ug/m ³ ⁽²⁾	
		24 hour ⁽¹⁾	Average	Range
AM1	AM8	260	83	34 - 145
AM2	AM6	260	75	29 - 143

Remarks:

⁽¹⁾ Only 24 hours TSP monitoring results were compared as there is no maximum allowable concentration of 1 hour TSP in HKAQO.

⁽²⁾ Average and range of data were calculated for the period of monitoring between August 2006 to January 2007

The monitoring results show that air quality impacts from construction activities during the reporting period were well below maximum allowable concentration stipulated in the HKAQO. Recommended mitigation measures in *Section 4.24* of EIA were implemented during the reporting period and were considered as effective.

9.2 WATER QUALITY

The hydrodynamic modelling assessment undertaken in the approved EIA Report was targeted at assessing the potential effects of the marine works on the flushing capacity of the water channel during the construction phase and no prediction was made on the change in water quality, hence no comparison can be made with the monitoring results.

9.3 WASTE MANAGEMENT

The estimated amount of waste generated in this project and the quantities of waste generated during the reporting period are presented in *Table 9.2*. Recommended mitigation measures in *Sections 6.35 to 6.41* of the EIA are implemented during the reporting period and regarded as effective.

Table 9.3 *Comparison of the Estimated Amount and the Actual Amount of Waste Generated*

Type of Material	Estimated Amount of C&D Materials in EIA (inert & non-inert)	Actual Amount of C&D Materials Recorded ⁽¹⁾ (inert & non-inert)
Demolition of temp. footbridge	585 tonnes	0
Demolition of existing Atrium Link	4,680 tonnes	300 tonnes
Demolition of temp. working platform	390 tonnes	0
Construction of foundations and pile caps	20,000 tonnes	8,963 tonnes
General Refuse	Insignificant	335 tonnes
Chemical Waste	Small	0
Remark: (1) The actual amount of C&D Materials was recorded since the commencement of construction works.		

9.4 CONCLUSION OF REVIEW

The EIA predictions and the monitoring results during the reporting period have been reviewed. The EIA concluded that the proposed HKCEC Atrium expansion would not pose adverse impacts to the environment, and the monitoring results also indicated that the construction of the Project has not posed adverse impacts to the environment. Recommendations given in the EIA are also considered to be adequate and effective for minimising the environmental impacts.

The Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 January to 31 January 2007 in accordance with EM&A Manual and the requirement under EP-239/2006.

No exceedance of the Action and Limit Levels of 24-hour and 1-hour TSP was recorded at the monitoring stations during the reporting month.

No exceedance of the Action and Limit Level of water quality parameters was recorded at monitoring stations during the reporting period.

No non-compliance event was recorded during the reporting month

No complaint and summons/prosecution was received during the reporting period.

The ET will keep track of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Annex A

Locations of Works Areas

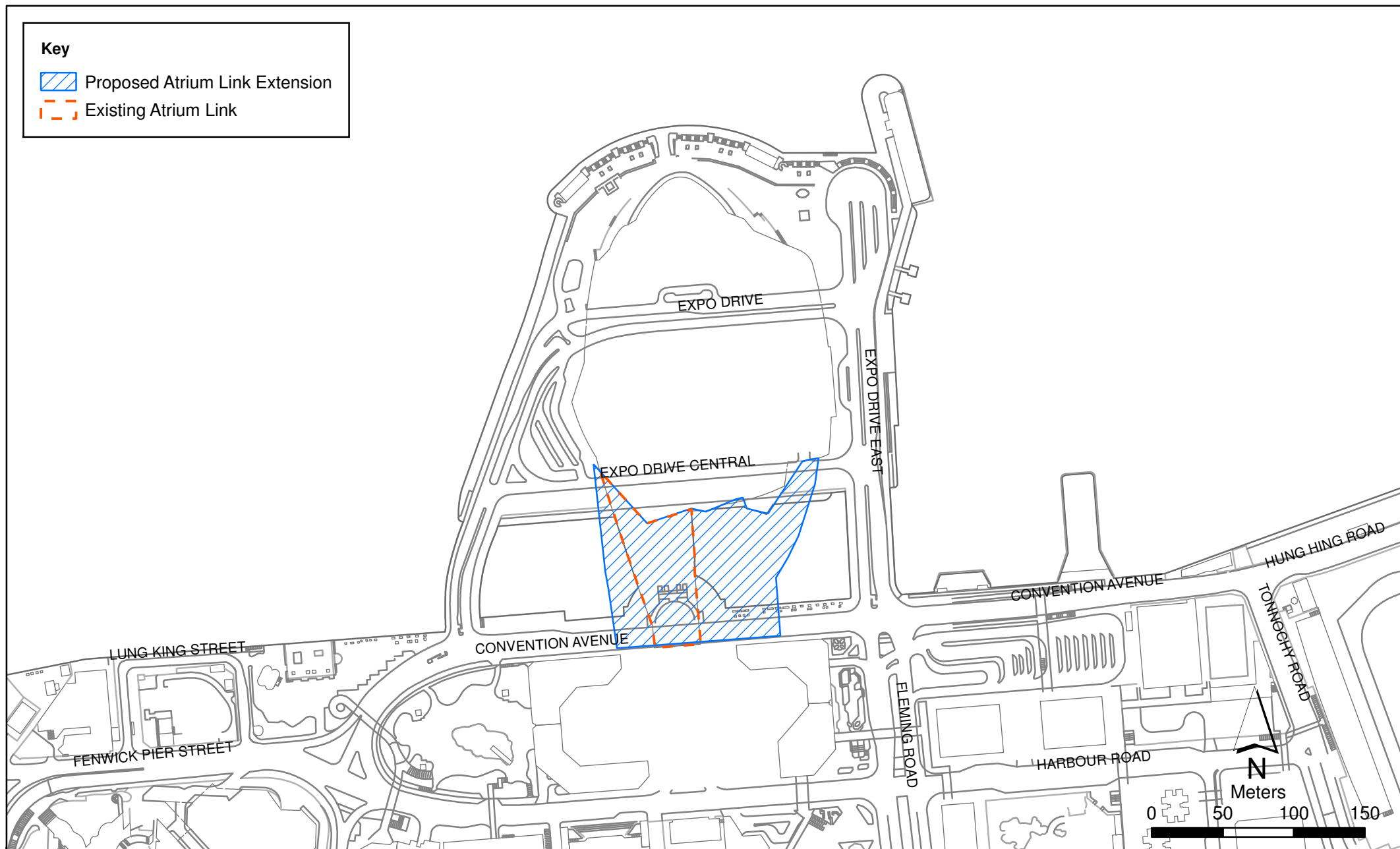
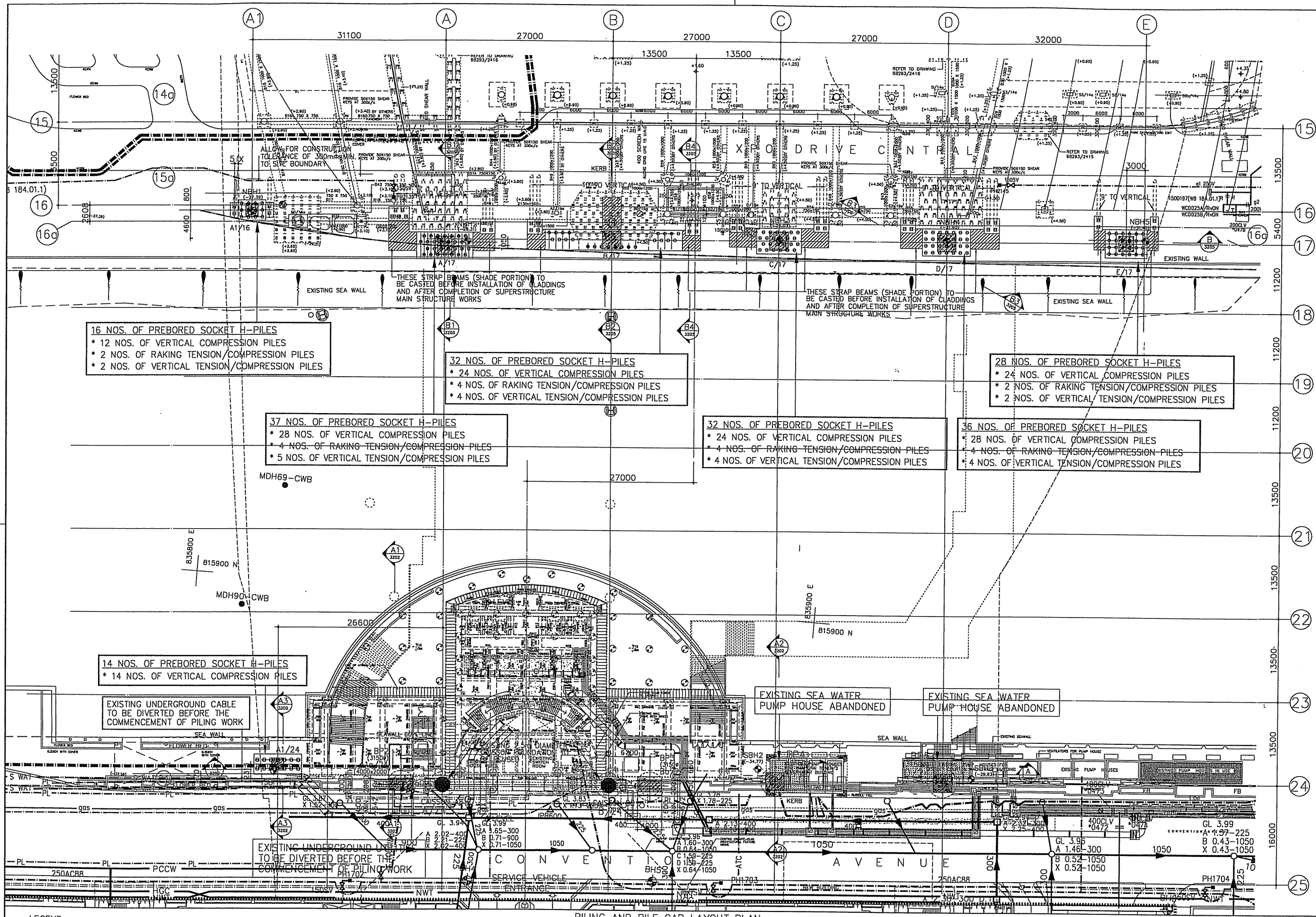


Figure A1

Location of Atrium Link Extension

Annex B

Location of Construction
Activities during the
Reporting Month



B.L.D. REF		
F.S.D. REF		
REVISIONS		
NUMBER	DESCRIPTION	DATE
-	FOR SUBMISSION	9-6-06
A	PIILING FOR COLUMNS A1/24, A16/24, A/24, B/24 & B2/24 REVISED.	20-7-06
	FOR AMENDMENT SUBMISSION	21-7-06
B	PIILING FOR COLUMNS A1/16, A/17, B/17, C/17, D/17 & E/17 REVISED.	25-7-06
	FOR AMENDMENT SUBMISSION	26-7-06
C	REVISE DETAILS FOR BP4, BP5	31-7-06
	FOR AMENDMENT SUBMISSION (MTR)	3-8-06
D	REVISE DETAILS FOR A1/16, A/17, B/17, C/17, D/17 & E/17	4-8-06
	REPLACE SUBMISSION AT 26-7-06	4-8-06
E	FOR SUBMISSION TO CEDD	10-8-06
F	COLUMN A/17 LOCATION REVISED.	18-8-06

PROGRESS PRINT

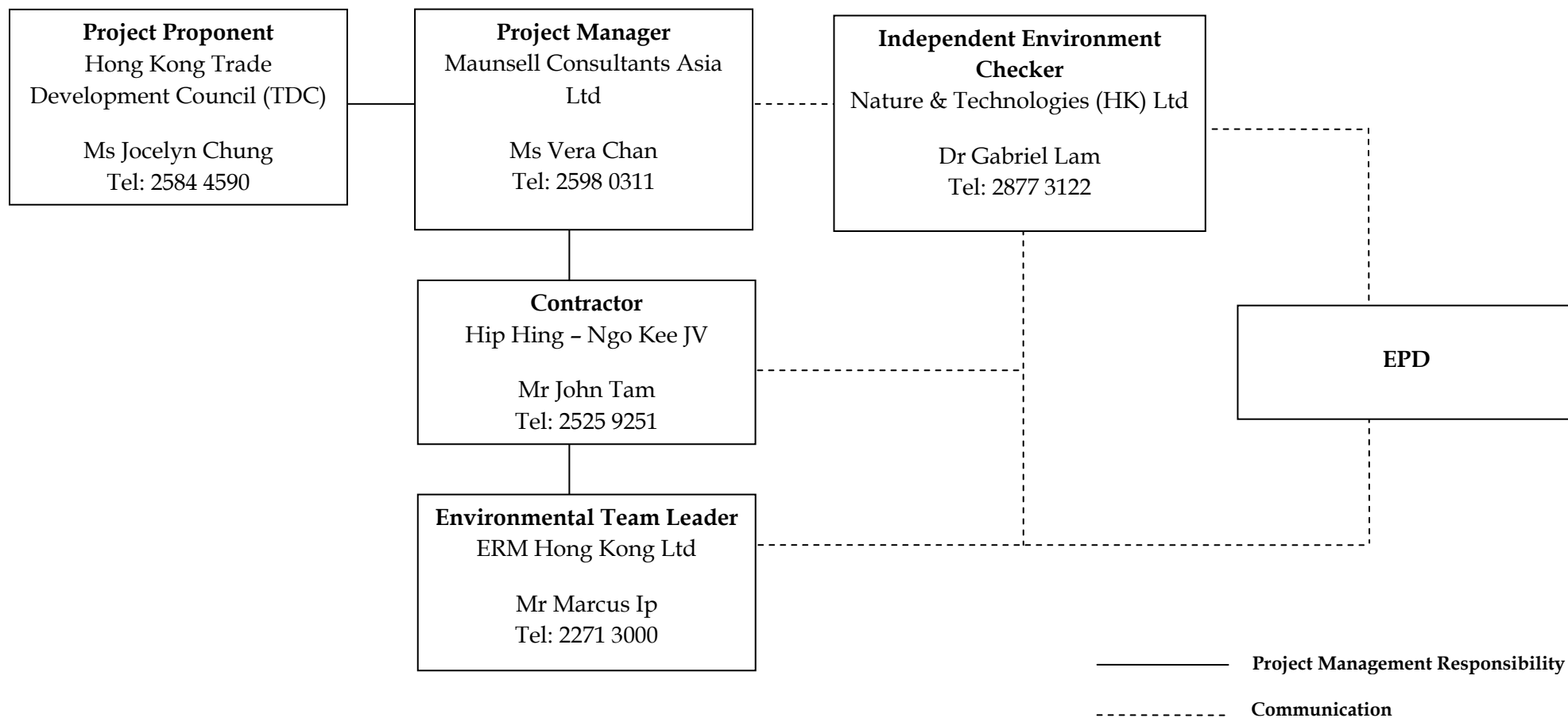
Progress Summary

Description	Location
Pre-bored H piles at northern sides	B/17, C/17 and D/17
Mini piles for marine platform at southern and northern sides	G/F North & South Side (RP20-36)
Marine Pile Installation	Sea channel
Pre-trenching of bored pile (BP4)	Ba/24 South Shore
Drilling of bored pile (BP5)	Ba/24 South Shore
Construction of RC Column	Grid A1/25
Removal of existing Level 2 and 3 floor structure	Grid 16-23/ A1-A
Temporary Pedestrian Diversion Tunnel Mock-up	Outside site office

Annex C

Project Organisation

Project Organization (with contact details)



Annex D

Locations of Air and Water Quality Monitoring Stations

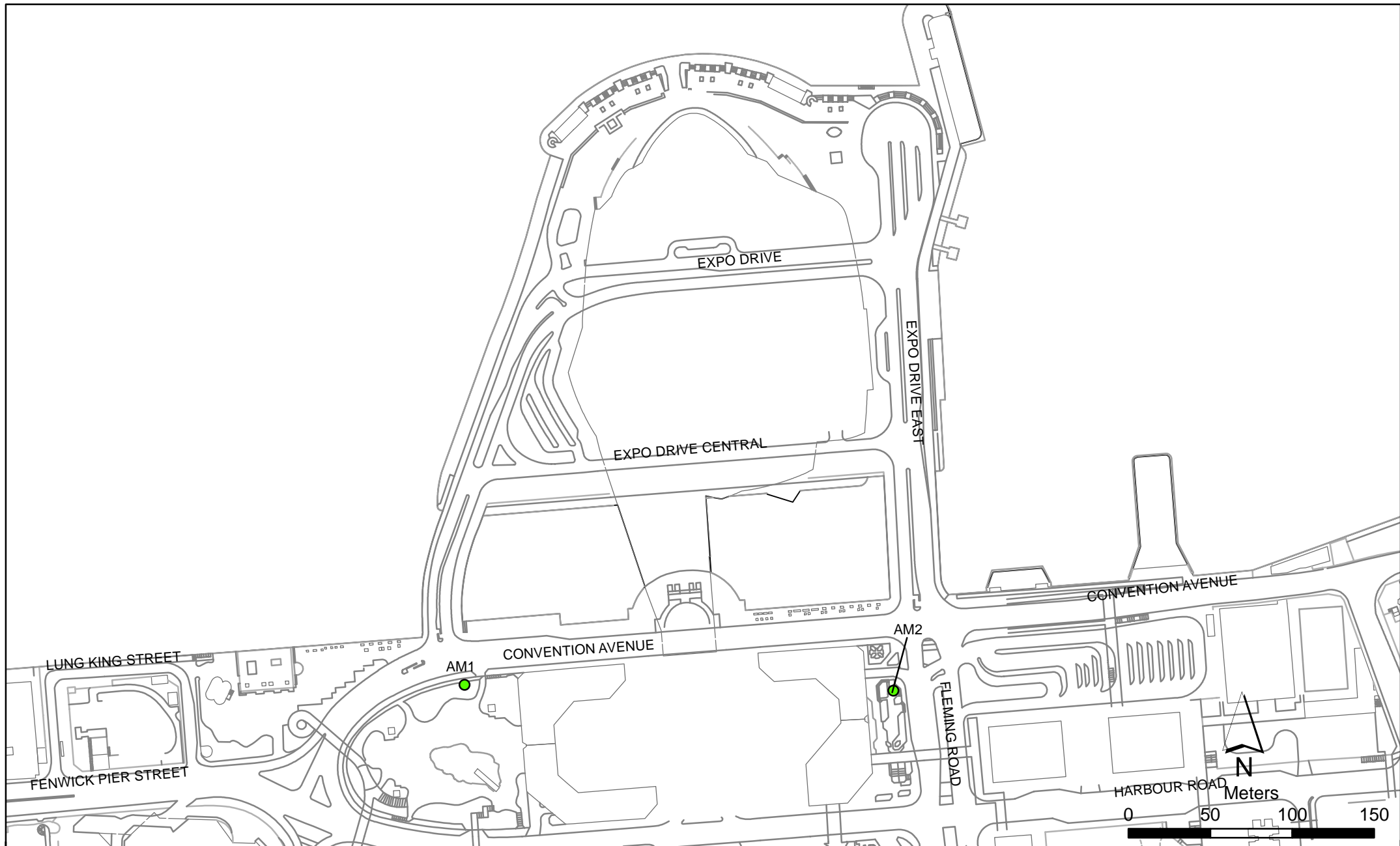


Figure D1

Air Quality Monitoring Station

Monitoring Station	Description	Easting	Northing
3	Hong Kong Convention and Exhibition Centre Phase I Cooling Water Intake	835852.3	815907.0
4	Wan Chai Tower/Revenue Tower/Immigration Towe Cooling Water Intake	835944.1	815885.0
5	Great Eagle Centre/China Resources Building Cooling Water Intake	835963.4	815886.5

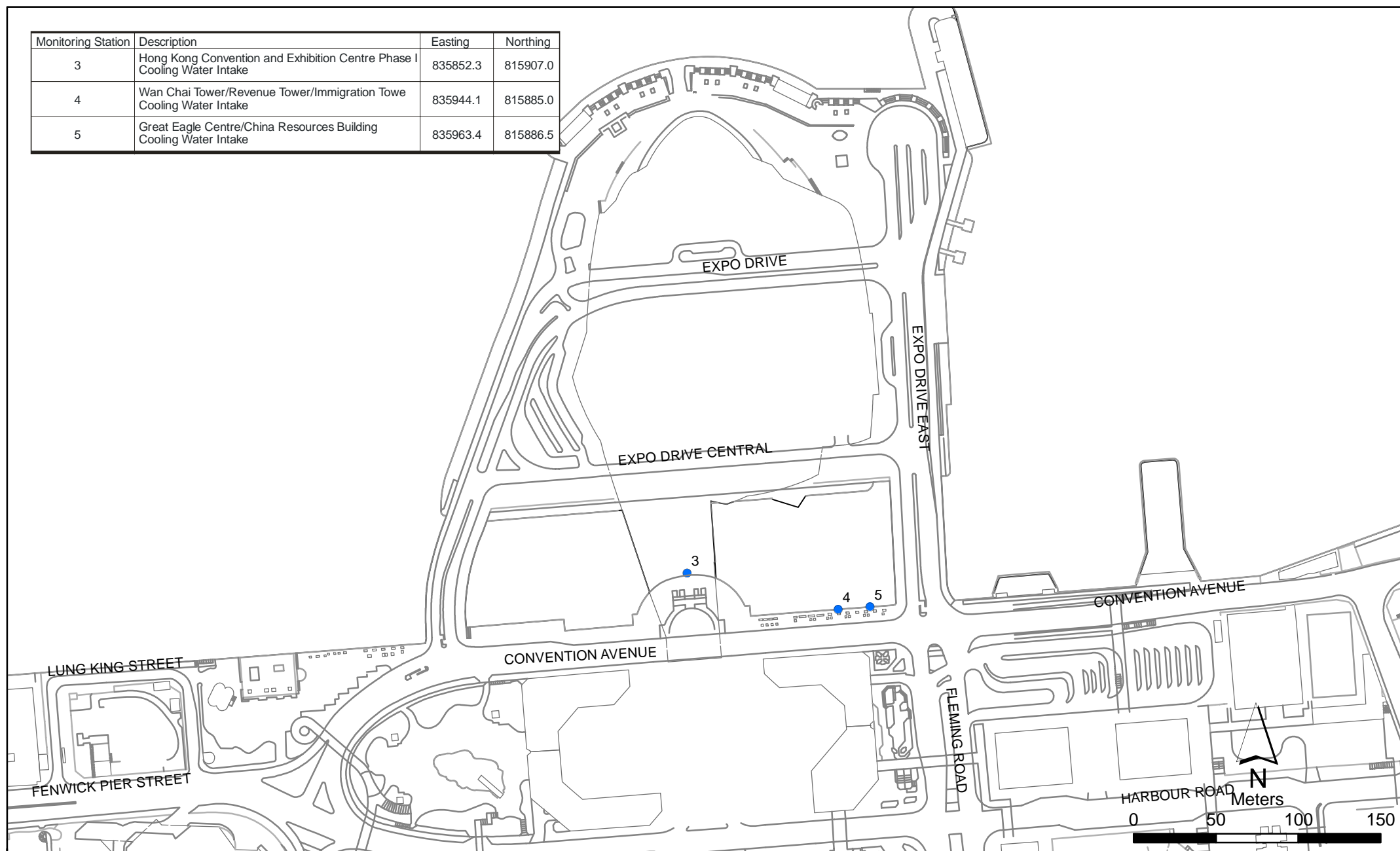
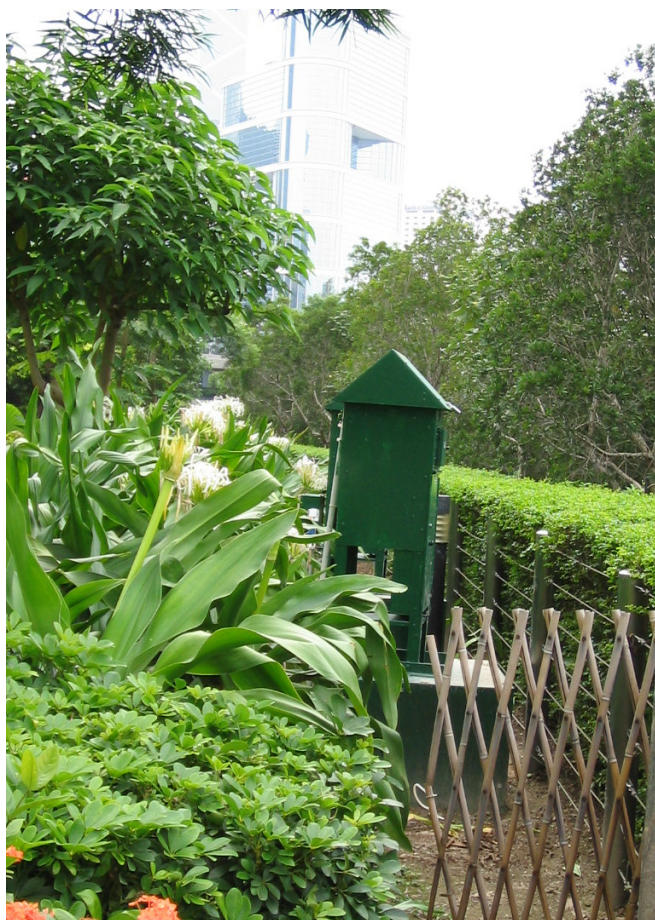


Figure D2

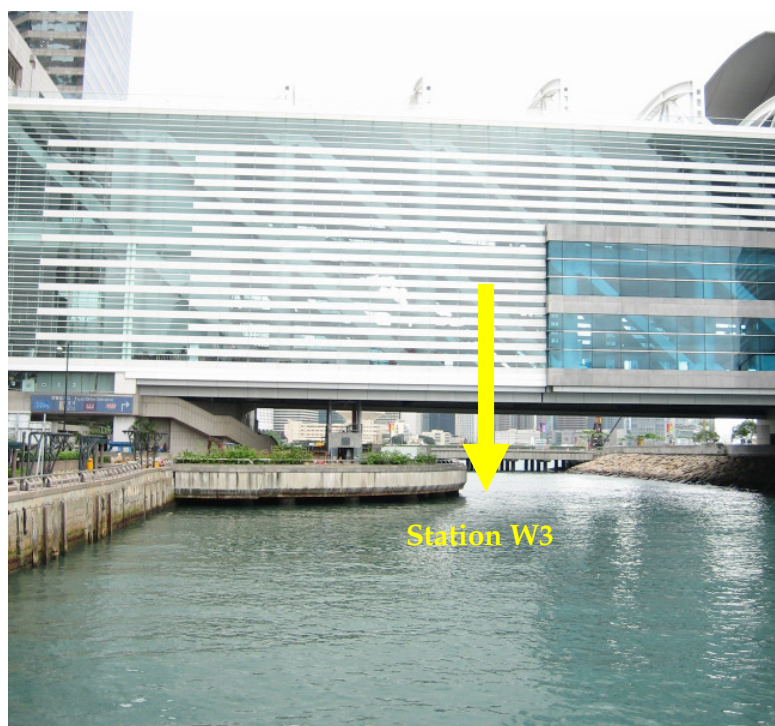
Marine Water Quality Monitoring Station



Air Quality Monitoring Station (AM1)



Air Quality Monitoring Station (AM2)



Water Quality Monitoring Location – Station W3



Water Quality Monitoring Location – Stations W4 and W5

Annex E

Monitoring Schedule for the reporting period and next three months

Hong Kong Convention and Exhibition Centre, Atrium Link Extension
Air Quality Monitoring Schedule - January 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan
				Air Monitoring 1 hr and 24 hr TSP	Air Monitoring 1 hr TSP	
7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan
	Air Monitoring 1 hr TSP		Air Monitoring 1 hr and 24 hr TSP		Air Monitoring 1 hr TSP	
14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan
	Air Monitoring 1 hr TSP	Air Monitoring 1 hr and 24 hr TSP	Air Monitoring 1 hr TSP		Air Monitoring 1 hr TSP	
21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan
	Air Monitoring 1 hr and 24 hr TSP		Air Monitoring 1 hr TSP		Air Monitoring 1 hr and 24 hr TSP	
28-Jan	29-Jan	30-Jan	31-Jan			
	Air Monitoring 1 hr TSP		Air Monitoring 1 hr TSP			

Hong Kong Convention and Exhibition Centre, Atrium Link Extension
Air Quality Monitoring Schedule - February 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Feb	2-Feb	3-Feb
				Air Monitoring 1 hr and 24 hr TSP	Air Monitoring 1 hr TSP	
4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb
	Air Monitoring 1 hr TSP		Air Monitoring 1 hr and 24 hr TSP		Air Monitoring 1 hr TSP	
11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb
	Air Monitoring 1 hr TSP	Air Monitoring 1 hr and 24 hr TSP	Air Monitoring 1 hr TSP		Air Monitoring 1 hr and 24 hr TSP	
18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb
			Air Monitoring 1 hr TSP	Air Monitoring 1 hr and 24 hr TSP	Air Monitoring 1 hr TSP	
25-Feb	26-Feb	27-Feb	28-Feb			
	Air Monitoring 1 hr TSP		Air Monitoring 1 hr and 24 hr TSP			

Hong Kong Convention and Exhibition Centre, Atrium Link Extension
Air Quality Monitoring Schedule - March 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Mar	2-Mar	3-Mar
					Air Monitoring	
4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar
				Air Monitoring		
11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar
			Air Monitoring			
18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar
		Air Monitoring				
25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar
	Air Monitoring					

Hong Kong Convention and Exhibition Centre, Atrium Link Extension
Air Quality Monitoring Schedule - April 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr
					Air Monitoring	
8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr
				Air Monitoring		
15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr
			Air Monitoring			
22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
		Air Monitoring				
29-Apr	30-Apr					
	Air Monitoring					

Hong Kong Convention and Exhibition Centre, Atrium Link Extension
Water Quality Monitoring Schedule - Jan 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan
			Proposed 12:30 Mid-flood 17:08 No mid-ebb		Mid-flood 8:38 Proposed 12:30 No mid-ebb	
7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan
	Mid-flood 10:20 Proposed 16:30 No mid-ebb		Mid-flood 11:23 Proposed 17:05 No mid-ebb		Proposed 8:00 Mid-flood 12:23 Mid-ebb out of piling hour	
14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan
	Mid-flood 10:30 Proposed 18:00 No mid-ebb		Proposed 8:00 Mid-flood 15:48 No mid-ebb		Proposed 12:44 Mid-flood 17:34 No mid-ebb	
21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan
	Mid-flood 9:20 Mid-ebb 14:54		Mid-flood 10:32 Mid-ebb 16:32		Mid-flood 11:53 Mid-ebb 18:48	
28-Jan	29-Jan	30-Jan	31-Jan			
	Mid-flood 9:59 Proposed 18:30 No mid-ebb		Proposed 12:30 Mid-flood 16:48 No mid-ebb			

Hong Kong Convention and Exhibition Centre, Atrium Link Extension
Water Quality Monitoring Schedule - Feb 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Feb	2-Feb	3-Feb
					Proposed 12:48 Mid-flood 17:59 No mid-ebb	
4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb
	Mid-flood 8:47 Mid-ebb 14:18		Mid-flood 9:31 Mid-ebb 15:22		Mid-flood 10:21 Mid-ebb 16:47	
11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb
	Mid-flood 9:00 Proposed 18:00 Mid-ebb out of piling hour		Mid-flood 10:17 Proposed 18:30 Mid-ebb out of piling hour		Proposed 11:55 Mid-flood 16:46 No mid-ebb	
18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb
			Mid-flood 9:01 Mid-ebb 15:06		Mid-flood 10:06 Mid-ebb 16:47	
25-Feb	26-Feb	27-Feb	28-Feb			
	Mid-flood 9:59 Proposed 18:00 Mid-ebb out of piling hour		Mid-flood 10:37 Proposed 18:00 Mid-ebb out of piling hour			

Annex F

Calibration Reports for HVS



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 84-86 Au Pui Wan Street, Fokan, Hong Kong
 Tel : 2695 8318 E-mail : etl@ets-testconsult.com
 Fax : 2695 3944 Web site : www.ets-testconsult.com

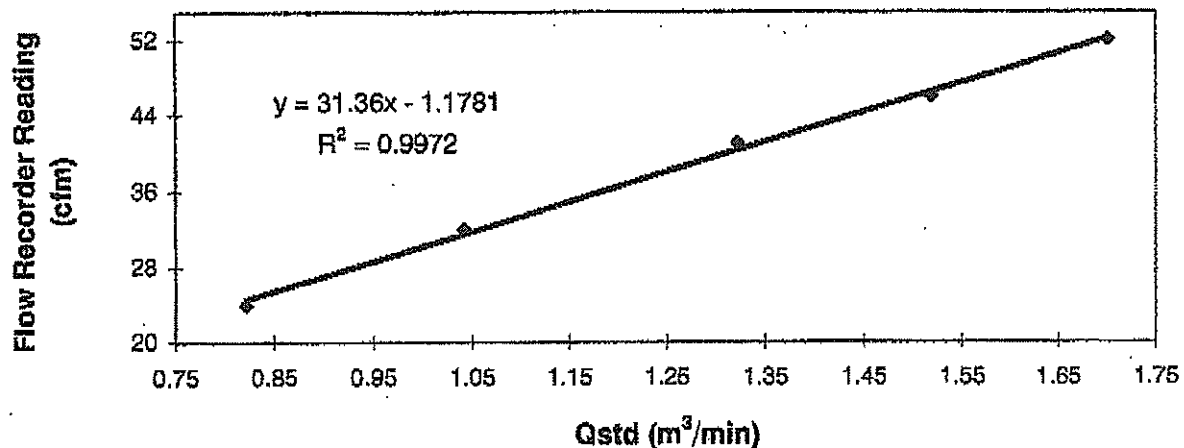
TEST REPORT

Calibration Report
 of
High Volume Air Sampler

Manufacturer : Graseby GMW **Date of Calibration** : 27 December 2006
Serial No. : 9864 (ET / EA / 003 / 19) **Calibration Due Date** : 26 February 2007
Method : Based on Operations Manual for the 5-point calibration using standard calibration kit manufactured by Tisch TE-5025 A

Results	Flow recorder reading (cfm)	52	46	41	32	24
	Qstd (Actual flow rate, m ³ /min)	1.70	1.52	1.32	1.04	0.82
	Pressure : 762.06 mm Hg	Temp. : 293 K				

Sampler 9864 Calibration Curve
Site: Wan Chai (AM-1)
Date of Calibration: 27 December 2006



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use.

Calibrated by : MAK Kei Wai
 MAK Kei Wai
 (Technician)

Approved by : H. T. CHOW
 H. T. CHOW
 (Asst. Environmental Officer)



東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Foton, Hong Kong

Tel : 2695 8318

E-mail : etl@ets-testconsult.com

Fax : 2695 3944

Web site : www.ets-testconsult.com

TEST REPORT

Calibration Report of High Volume Air Sampler

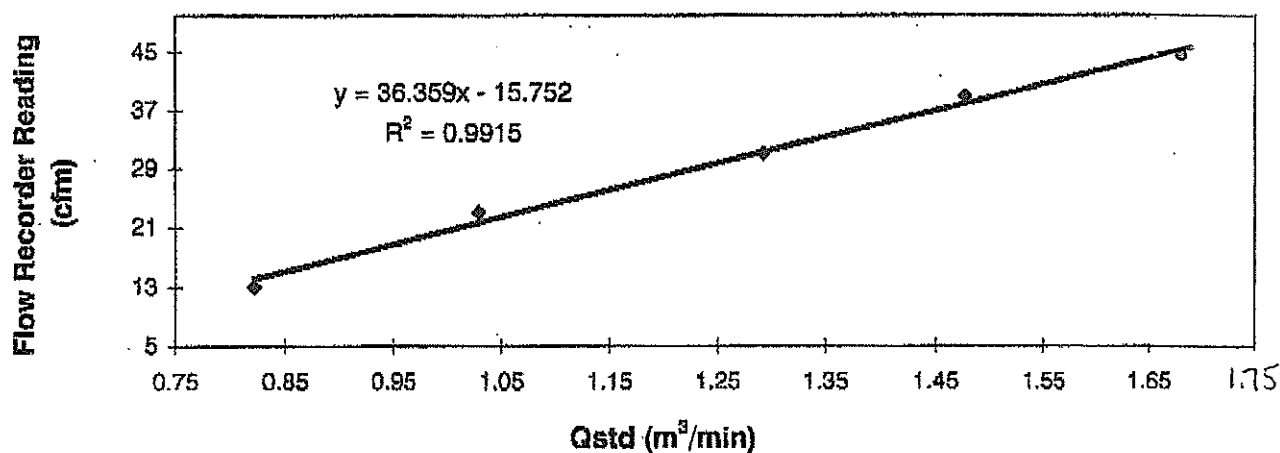
Manufacturer : Graseby GMW Date of Calibration : 27 December 2006

Serial No. : 9795 (ET / EA / 003 / 18) Calibration Due Date : 26 February 2007

Method : Based on Operations Manual for the 5-point calibration using standard calibration kit manufactured by Tisch TE-5025 A

Results	Flow recorder reading (cfm)	44	39	31	23	13
	Qstd (Actual flow rate, m ³ /min)	1.67	1.48	1.29	1.03	0.82
	Pressure : 762.06 mm Hg	Temp. : 293 K				

Sampler 9795 Calibration Curve Site: Wan Chai (AM-2) Date of Calibration: 27 December 2006



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use.

Calibrated by : MAK Kei Wai
MAK Kei Wai
(Technician)Approved by : H. T. CHOW
H. T. CHOW
(Asst. Environmental Officer)

Annex G

24-hour and 1-hour TSP Monitoring Results

Figure G1 - Measured 24-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM1

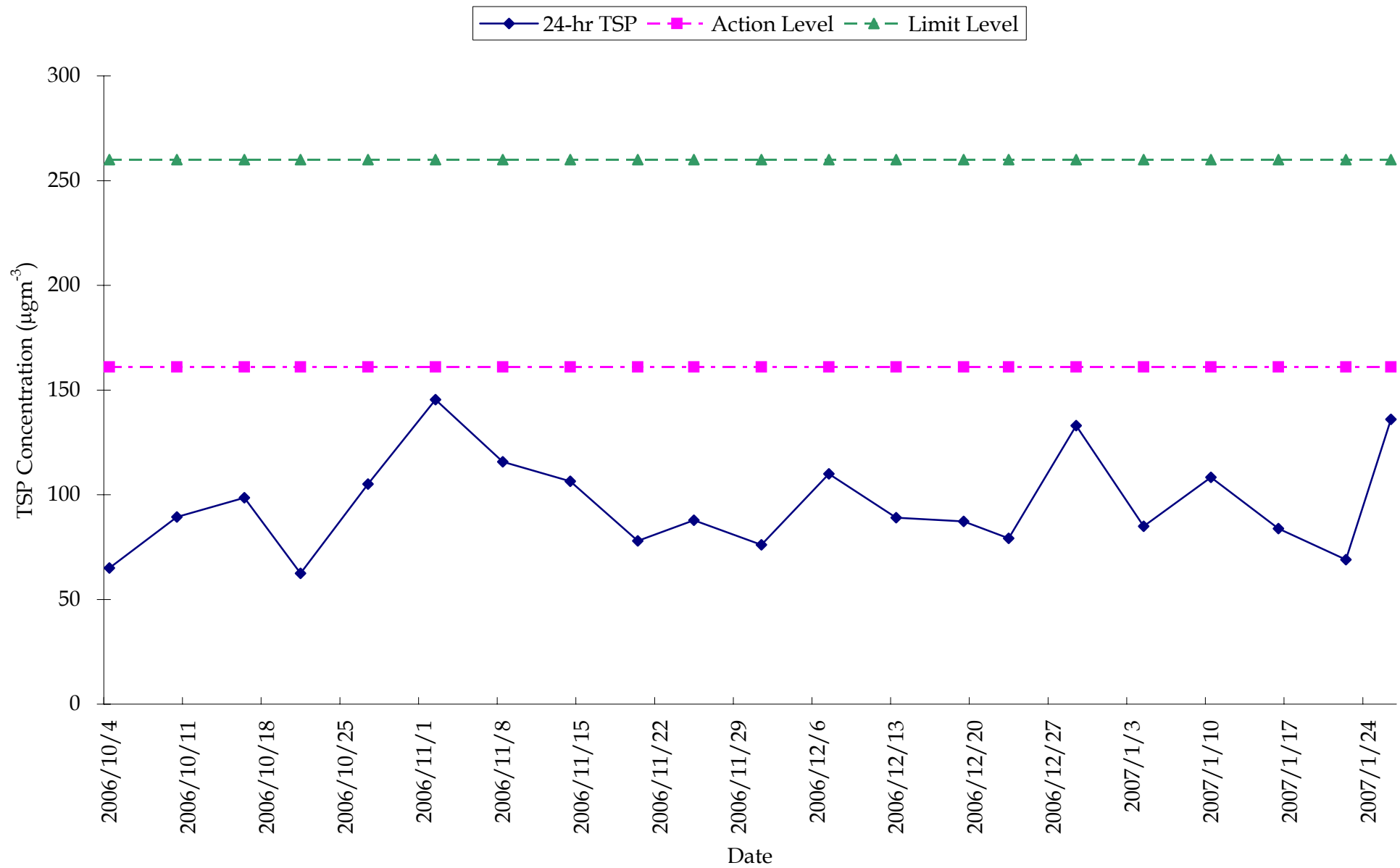


Figure G2 - Measured 24-hour TSP Concentration (μgm^{-3}) at AM2

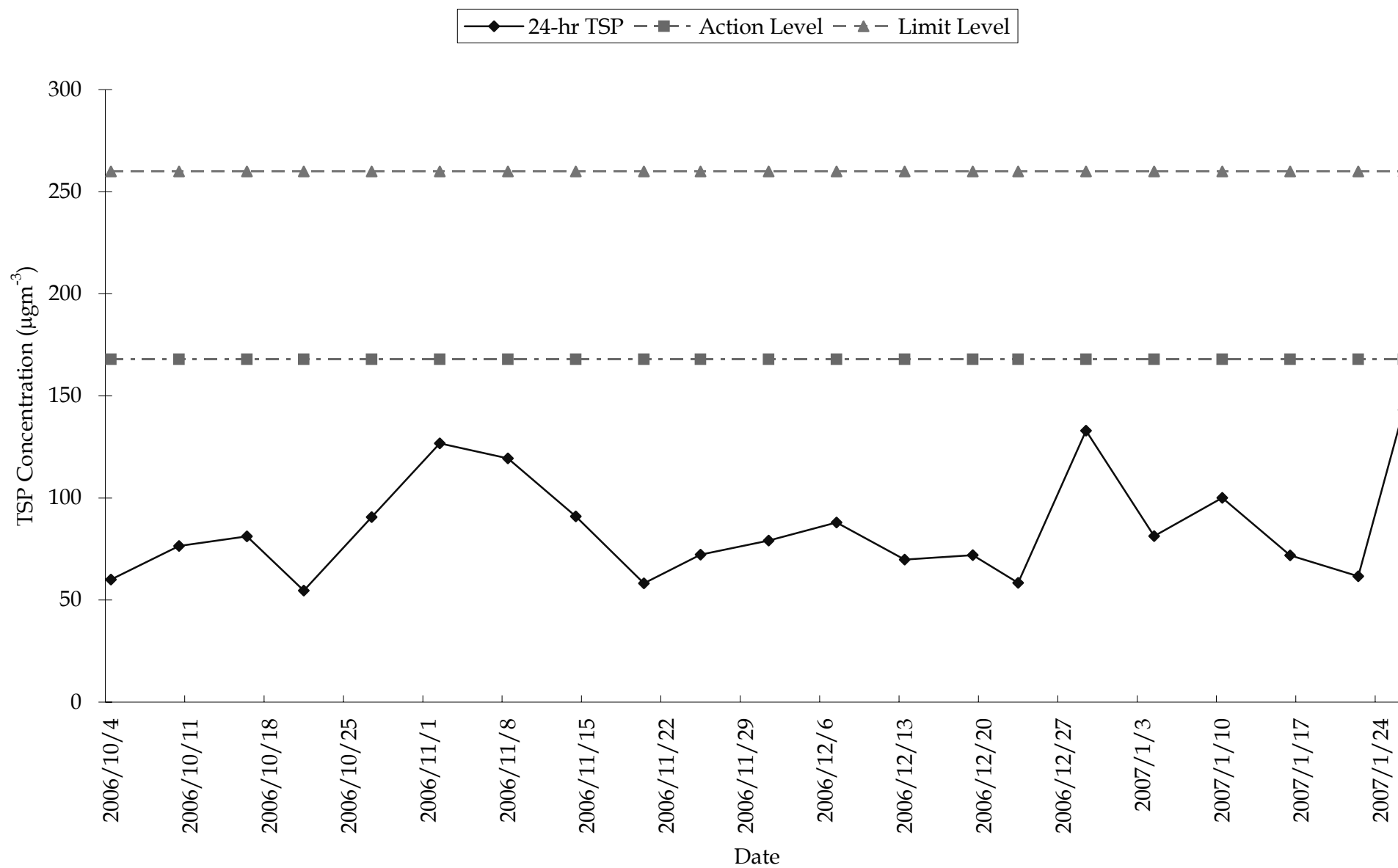


Figure G3 - Measured 1-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM1

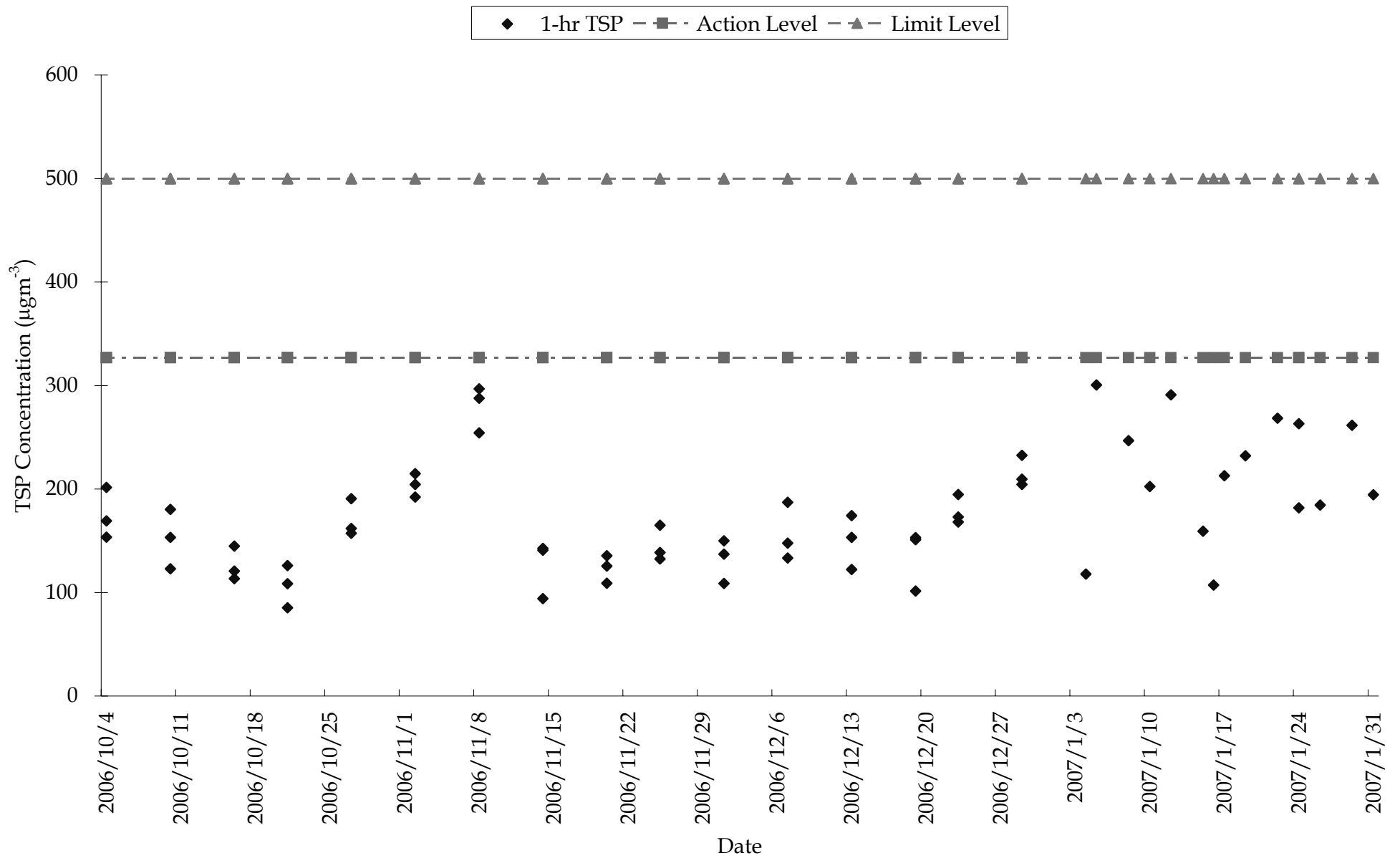
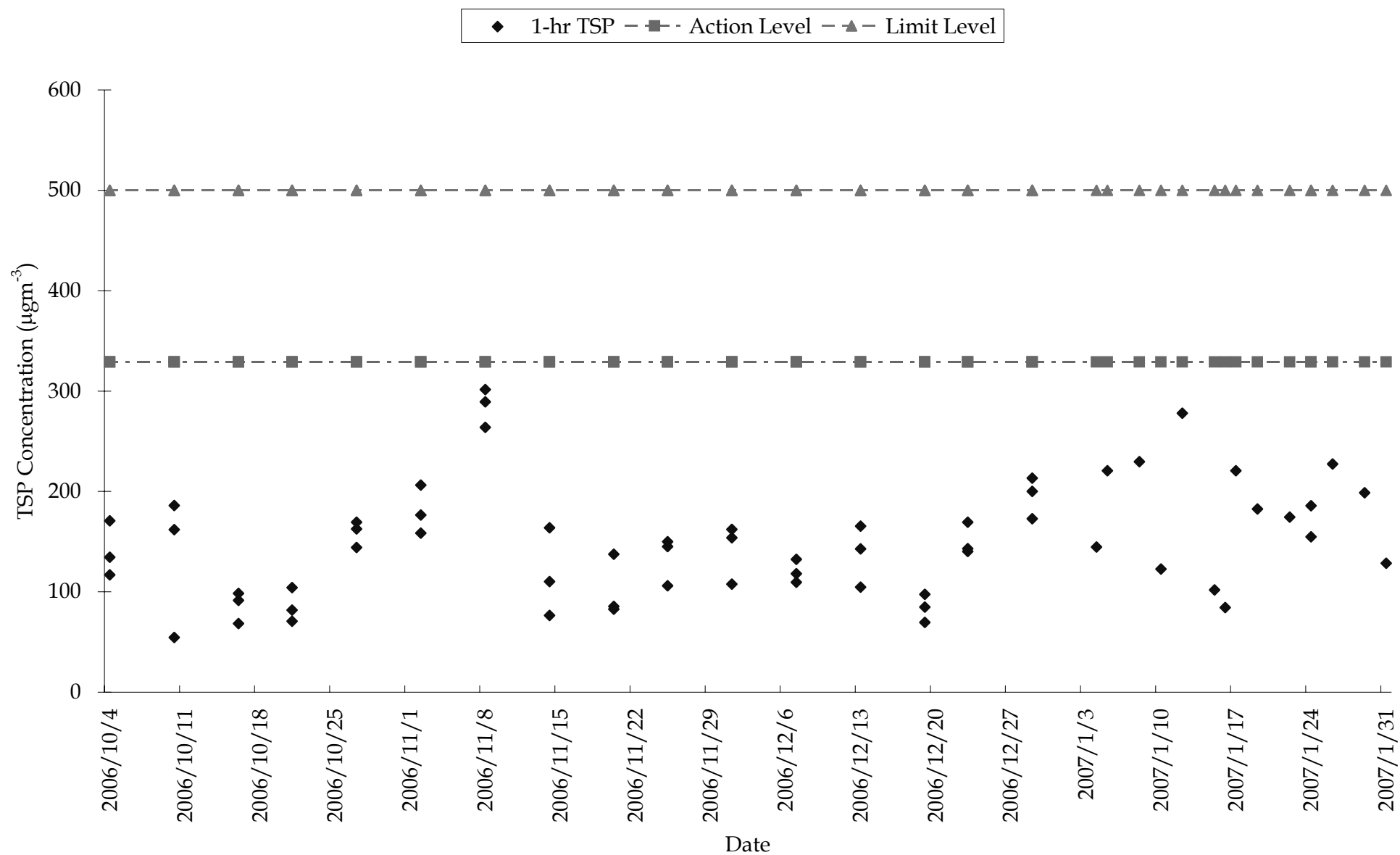


Figure G4 - Measured 1-hour TSP Concentration (μgm^{-3}) at AM2



24-hour TSP Monitoring Results

24-hour TSP Monitoring Results at Station AM1 (Nearby The Grand Hyatt)

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Weather Condition	Ave. Air Temp. (°C)	Particulate weight(g)	Av. flow (m ³ /min)	Total vol. (m ³)
	Initial	Final	Initial	Final	Initial	Final							
04-Jan-07	2.7704	2.8764	0.87	0.87	11074.5	11098.5	24.0	85	Rainy	16.8	0.1060	0.87	1247.9
10-Jan-07	2.7168	2.8718	0.99	0.99	11101.5	11125.5	24.0	108	Sunny	16.0	0.1550	0.99	1431.6
16-Jan-07	2.6963	2.8241	1.06	1.06	11128.5	11152.5	24.0	84	Cloudy	20.8	0.1278	1.06	1523.5
22-Jan-07	2.8414	2.9433	1.03	1.03	11155.5	11179.5	24.0	69	Cloudy	16.4	0.1019	1.03	1477.6
26-Jan-07	2.8560	3.0570	1.03	1.03	11182.5	11206.5	24.0	136	Cloudy	15.3	0.2010	1.03	1477.6
								Min	69				
								Max	136				
								Average	96				

24-hour TSP Monitoring Results at Station AM2 (Nearby Renaissance Harbour View Hotel)

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Weather Condition	Ave. Air Temp. (°C)	Particulate weight(g)	Av. flow (m ³ /min)	Total vol. (m ³)
	Initial	Final	Initial	Final	Initial	Final							
04-Jan-07	2.7663	2.9362	1.45	1.45	9500.0	9524.0	24.0	81	Rainy	16.8	0.1699	1.45	2090.2
10-Jan-07	2.7239	2.9370	1.48	1.48	9527.0	9551.0	24.0	100	Sunny	16.0	0.2131	1.48	2128.9
16-Jan-07	2.6783	2.8341	1.51	1.51	9554.0	9578.0	24.0	72	Cloudy	20.8	0.1558	1.51	2168.5
22-Jan-07	2.8406	2.9744	1.51	1.51	9581.0	9605.0	24.0	62	Cloudy	16.4	0.1338	1.51	2168.5
26-Jan-07	2.8701	3.1805	1.51	1.51	9608.0	9632.0	24.0	143	Cloudy	15.3	0.3104	1.51	2168.5
								Min	62				
								Max	143				
								Average	92				

1-hour TSP Monitoring Results

1-hour TSP Monitoring Results at Station AM1 (Nearby The Grand Hyatt)

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Weather Condition	Ave. Air Temp. (°C)	Particulate weight(g)	Av. flow (m ³ /min)	Total vol. (m ³)
	Initial	Final	Initial	Final	Initial	Final							
04-Jan-07	2.7781	2.7840	0.83	0.83	11073.5	11074.5	1.0	118	Rainy	16.8	0.0059	0.83	50.1
05-Jan-07	2.7611	2.7773	0.90	0.90	11098.5	11099.5	1.0	301	Rainy	16.1	0.0162	0.90	53.9
08-Jan-07	2.7417	2.7550	0.90	0.90	11099.5	11100.5	1.0	247	Cloudy	13.6	0.0133	0.90	53.9
10-Jan-07	2.7270	2.7383	0.93	0.93	11100.5	11101.5	1.0	202	Sunny	16.0	0.0113	0.93	55.8
12-Jan-07	2.7218	2.7386	0.96	0.96	11125.5	11126.5	1.0	291	Sunny	18.0	0.0168	0.96	57.7
15-Jan-07	2.6885	2.6977	0.96	0.96	11126.5	11127.5	1.0	159	Cloudy	19.0	0.0092	0.96	57.7
16-Jan-07	2.6726	2.6790	0.99	0.99	11127.5	11128.5	1.0	107	Cloudy	20.8	0.0064	0.99	59.7
17-Jan-07	2.6961	2.7088	0.99	0.99	11152.5	11153.5	1.0	213	Cloudy	17.2	0.0127	0.99	59.7
19-Jan-07	2.8499	2.8633	0.96	0.96	11153.5	11154.5	1.0	232	Cloudy	17.0	0.0134	0.96	57.7
22-Jan-07	2.8405	2.8560	0.96	0.96	11154.5	11155.5	1.0	268	Cloudy	16.4	0.0155	0.96	57.7
24-Jan-07	2.8615	2.8772	0.99	0.99	11179.5	11180.5	1.0	263	Cloudy	13.8	0.0157	0.99	59.7
24-Jan-07	2.8685	2.8797	1.03	1.03	11180.5	11181.5	1.0	182	Cloudy	13.8	0.0112	1.03	61.6
26-Jan-07	2.8905	2.9015	0.99	0.99	11181.5	11182.5	1.0	184	Cloudy	15.3	0.0110	0.99	59.7
29-Jan-07	2.8406	2.8562	0.99	0.99	11206.5	11207.5	1.0	262	Rainy	14.0	0.0156	0.99	59.7
31-Jan-07	2.8580	2.8696	0.99	0.99	11207.5	11208.5	1.0	194	Rainy	16.8	0.0116	0.99	59.7
								Min	107				
								Max	301				
								Average	215				

1-hour TSP Monitoring Results at Station AM2 (Nearby Renaissance Harbour View Hotel)

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Weather Condition	Ave. Air Temp. (°C)	Particulate weight(g)	Av. flow (m ³ /min)	Total vol. (m ³)
	Initial	Final	Initial	Final	Initial	Final							
04-Jan-07	2.7602	2.7728	1.45	1.45	9499.0	9500.0	1.0	145	Rainy	16.8	0.0126	1.45	87.1
05-Jan-07	2.7553	2.7745	1.45	1.45	9524.0	9525.0	1.0	221	Rainy	16.1	0.0192	1.45	87.1
08-Jan-07	2.7370	2.7570	1.45	1.45	9525.0	9526.0	1.0	230	Cloudy	13.6	0.0200	1.45	87.1
10-Jan-07	2.7332	2.7447	1.56	1.56	9526.0	9527.0	1.0	123	Sunny	16.0	0.0115	1.56	93.7
12-Jan-07	2.7192	2.7434	1.45	1.45	9551.0	9552.0	1.0	278	Sunny	18.0	0.0242	1.45	87.1
15-Jan-07	2.6948	2.7035	1.42	1.42	9552.0	9553.0	1.0	102	Cloudy	19.0	0.0087	1.42	85.4
16-Jan-07	2.6796	2.6868	1.42	1.42	9553.0	9554.0	1.0	84	Cloudy	20.8	0.0072	1.42	85.4
17-Jan-07	2.6893	2.7085	1.45	1.45	9578.0	9579.0	1.0	221	Cloudy	17.2	0.0192	1.45	87.1
19-Jan-07	2.8422	2.8587	1.51	1.51	9579.0	9580.0	1.0	183	Cloudy	17.0	0.0165	1.51	90.4
22-Jan-07	2.8491	2.8640	1.42	1.42	9580.0	9581.0	1.0	174	Cloudy	16.4	0.0149	1.42	85.4
24-Jan-07	2.8638	2.8788	1.62	1.62	9419.0	9420.0	1.0	155	Cloudy	13.8	0.0150	1.62	97.0
24-Jan-07	2.8415	2.8575	1.45	1.45	9606.0	9607.0	1.0	186	Cloudy	13.8	0.0160	1.45	86.2
26-Jan-07	2.8647	2.8845	1.45	1.45	9607.0	9608.0	1.0	227	Cloudy	15.3	0.0198	1.45	87.1
29-Jan-07	2.8295	2.8468	1.45	1.45	9632.0	9633.0	1.0	199	Rainy	14.0	0.0173	1.45	87.1
31-Jan-07	2.8597	2.8711	1.48	1.48	9633.0	9634.0	1.0	129	Rainy	16.8	0.0114	1.48	88.7
								Min	84				
								Max	278				
								Average	177				

Meteorological Data Extracted from King's Park Stations of the Hong Kong Observatory

Date	Weather	King's Park Station				
		Average Air Temperature (°C)	Average Wind Speed (km/h)	Average Relative Humidity (%)	Total Rainfall (mm)	Wind Direction
04-Jan-07	Rainy	16.8	25.0	68.0	1.1	N
05-Jan-07	Rainy	16.1	24.0	68.0	1.0	N
08-Jan-07	Cloudy	13.6	22.0	68.0	0.5	NE
10-Jan-07	Sunny	16.0	22.0	68.0	0.3	NE
12-Jan-07	Sunny	18.0	24.0	69.0	0.3	NE
15-Jan-07	Cloudy	19.0	25.0	71.0	0.8	NE
16-Jan-07	Cloudy	20.8	25.0	71.0	0.7	NE
17-Jan-07	Cloudy	17.2	24.0	71.0	0.7	NE
19-Jan-07	Cloudy	17.0	24.0	72.0	0.6	E
22-Jan-07	Cloudy	16.4	24.0	74.0	0.7	NE
24-Jan-07	Cloudy	13.8	23.0	74.0	0.7	NE
26-Jan-07	Cloudy	15.3	23.0	74.0	0.5	NE
29-Jan-07	Rainy	14.0	25.0	76.0	1.3	NE
31-Jan-07	Rainy	16.8	24.0	75.0	1.5	NE

Annex H

Calibration Certificates of Water Monitoring Equipment



Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : ET/ZW/003/001 Manufacturer : YSI
Model No. : 95 Serial No. : 97H 04071 AD
Date of Calibration : 20/11/06 Calibration Due Date : 19/2/07

Ref. No. of Reference Thermometer : ET/2403/01

Ref. No. of Potassium Dichromate : ET/0520/003/02

Temperature Verification

	Temperature (°C)
Thermometer reading	20.0
Meter reading	20.0

Linearity Checking

Purging time, min	DO meter reading, mg/L			Winkler Titration result, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.51	7.53	7.52	7.48	7.49	7.49	0.40
5	5.29	5.31	5.30	5.22	5.20	5.21	1.71
10	3.56	3.54	3.55	3.61	3.59	3.60	1.40
Linear regression coefficient				0.9990			

Zero Point Checking

DO meter reading, mg/L	0.00
------------------------	------

Salinity Checking

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	6.70	6.72	6.71	6.80	6.82	6.81	1.48
30	6.35	6.23	6.29	6.38	6.36	6.37	2.06

Acceptance Criteria

- (1) Difference between temperature readings from temperature sensor of DO probe and reference thermometer : $< 0.5^{\circ}\text{C}$
- (2) Linear regression coefficient : > 0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within $\pm 5\%$

The equipment complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / unacceptable * for use:

* Delete as appropriate

Calibrated by : PK

Approved by : [Signature]



Internal Calibration Report of Turbidimeter

Equipment Ref. No. : EW/006/001

Manufacturer : HACH

Model No. : HACH 2100P

Serial No. : 040500035856

Date of Calibration : 22/11/06

Calibration Due : 21/12/07

Data

<u>5.60</u> 0 - 10 NTU Gelex Vial	<u>53.0</u> 10 - 100 NTU Gelex Vial	<u>540</u> 100 - 1000 NTU Gelex Vial
<u>5.62</u>	<u>52.7</u>	<u>538</u>

The equipment complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use.

* Delete as appropriate

Calibrated by : [Signature]

Approved by : [Signature]



LABORATORY SHEET

Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided by client

Client : ERM - Hong Kong Ltd
Client Ref. No. : E 60195 HK
Source : HK Convention & Exhibition Centre
Sample Type : Sea water
Date Sampled : 17 / 1 / 07
No. of Sample : 12
Description :

Laboratory Information

Lab. Ref. No. : W21203 (01-12)
W. I. No. : EN / 7 / 1 / 66
Date Received : 17 / 1 / 07
Date Tested : 18 / 1 / 07
Test Method : In-house Method TPE/006/W

$$\text{Recovery of Check} = \frac{109}{101.4} \times 100\% = 107.5\%$$

	Ref. No.
Drying oven used	ET / 0502 / 002
TSS standard used	J273

Lab. Ref. No.			W21203 (01)	(Dup)	(02)	(03)	(04)	(05)	(06)	(07)
Client sample ID	Blank	Check Std	F3	F3	F3-D	F4	F4-D	F5	F5-D	E3
Foil Bowl No.	B	C	1	D	2	3	4	5	6	7
Mass of Filter	1335.0	1311.8	1322.2	1315.0	1305.9	1334.7	1329.8	1304.4	1318.7	1302.8
+ Foil Bowl (mg) (B)	1334.9	1311.7	1322.1	1314.8	1305.7	1334.6	1329.7	1304.3	1318.5	1302.6
Vol. of Sample (mL)	500	500	200	200	400	400	400	400	400	400
Mass of Filter	1334.9	1366.2	1333.2	1315.9	1307.8	1336.7	1331.9	1306.2	1320.5	1304.8
+ Foil Bowl	1334.7	1366.0	1323.1	1315.8	1307.7	1336.6	1331.7	1306.1	1320.3	1304.6
+ S. S. (mg) (A)										
Total Suspended Solids (mg/L) *	0.4	109	5.0	5.0	5.0	5.0	5.0	4.5	4.5	5.0
Chloride Check (✓)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Expanded uncertainty, Uexp										

* Total Suspended Solids (mg/L) = (A - B) / Vol. of Sample used x 1000

Acceptance criteria :

1. Blank : ≤ 0.5mg/L	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
2. Difference between duplicates : < 10%	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
3. Recovery of spike sample : 80% to 120%	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4. Check Sample : 80(%) - 120(%)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

PQL : 5.0mg/L (Seawater / Drinking water / Wastewater)

Remark : 50.7 mg Silica Gel H was added to 500ml distilled water as check. (101.4 mg/L)

Tested By :

Checked By :



LABORATORY SHEET

Determination of Total Suspended Solids Dried at 103°C-105°C

Information provided by client

Client : ---
Client Ref. No. : ---
Source : ---
Sample type : ---
Date Sampled : ---
No. of Sample : ---
Description : ---

Laboratory Information

Lab. Ref. No. : ---
W. I. No. : ---
Date Received : ---
Date Tested : ---
Test Method : In-house Method TPE/006/W

$$\text{Recovery of Spike} = \frac{27 - 4.5}{27} \times 100\% = 101.6\%$$

	Ref. No.
Drying oven used	ET / 0502 / 002
TSS standard used	J273

Lab. Ref. No.	W1203 (08)	(09)	(10)	(11)	(12)	(Spike)				
Client sample ID	E3-D	E4	E4-D	E5	E5-D	E5-D				
Foil Bowl No.	8	9	10	11	12	S				
Mass of Filter	1320.2	1329.4	1318.2	1318.4	1335.6	1306.2				
+ Foil Bowl (mg) (B)	1320.1	1329.2	1318.1	1318.3	1335.4	1306.1				
Vol. of Sample (mL)	400	400	400	400	200	200				
Mass of Filter	1322.2	1331.2	1320.1	1320.2	1336.5	1313.7				
+ Foil Bowl	1322.1	1331.0	1319.9	1320.1	1336.3	1313.5				
+ S. S. (mg) (A)										
Total Suspended Solids (mg/L)'	5.0	4.5	4.5	4.5	4.5	37				
Chloride Check (✓)	✓	✓	✓	✓	✓	✓				
Expanded uncertainty, Uexp										

Total Suspended Solids (mg/L) = (A - B) / Vol. of Sample used x 1000

- Acceptance criteria :
- Blank : ≤ 0.5mg/L Yes ☐ No ☐
 - Difference between duplicates : < 10% Yes ☐ No ☐
 - Recovery of spike sample : 80% to 120% Yes ☒ No ☐
 - Check Sample : 80(%) - 120 (%) Yes ☐ No ☐

FOL : 5.0mg/L (Seawater / Drinking water / Wastewater)

Remark : 6.4 mg Silica Gel H was added to 200ml "E5-D" as spike (32.0 mg/L)

Tested By :

Checked By :

Annex I

Water Quality Monitoring Results

Figure I1 - Water Quality Monitoring Results (Mid Ebb)

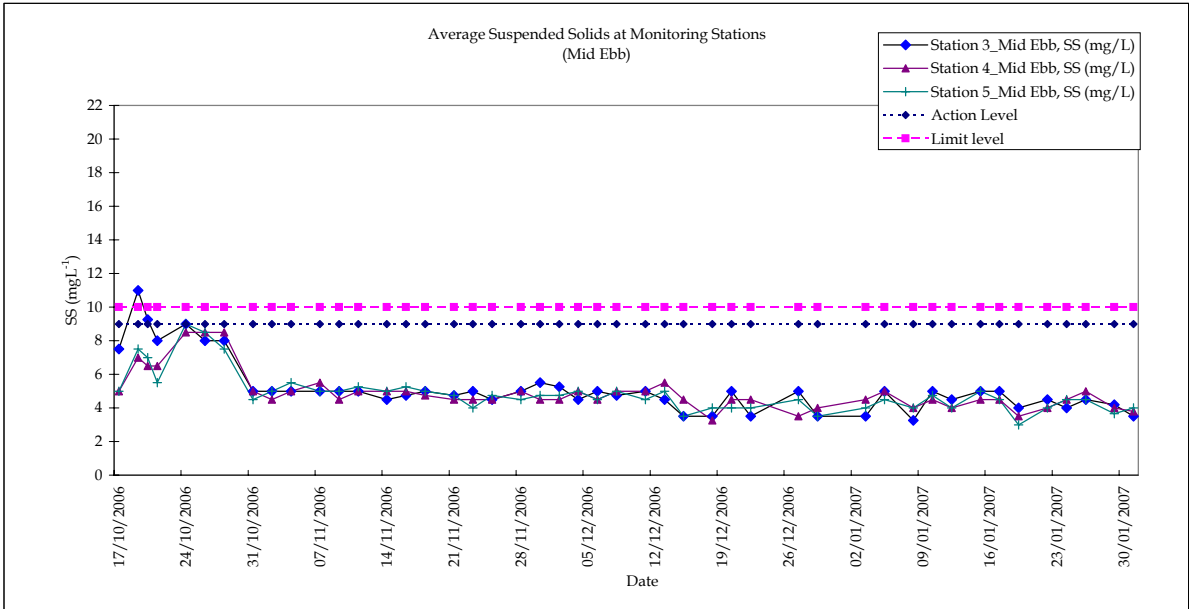
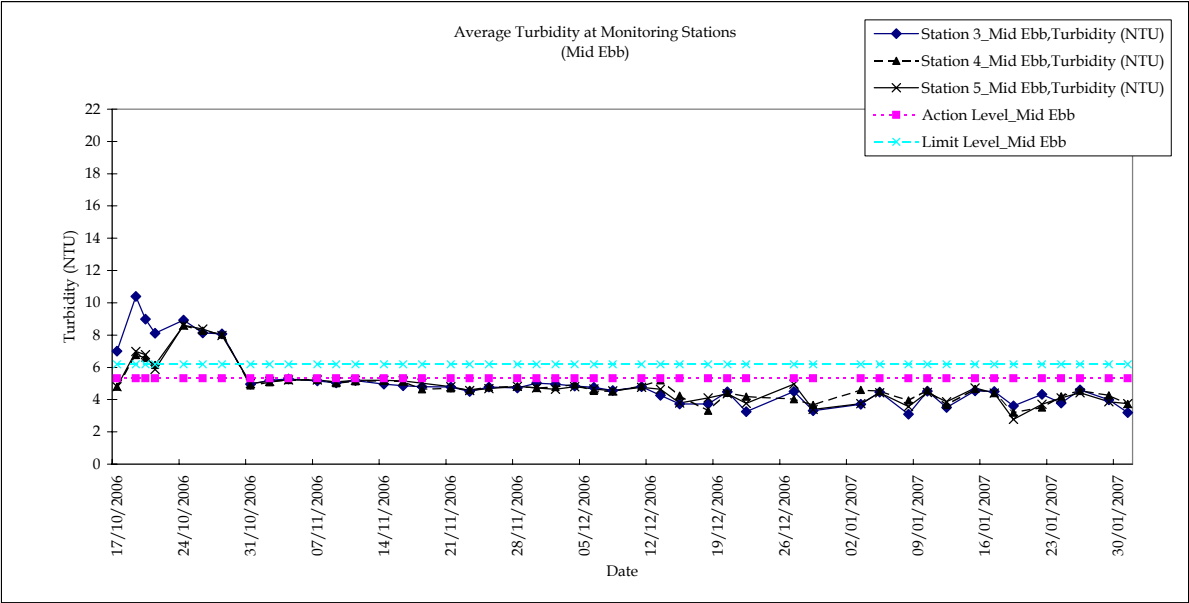
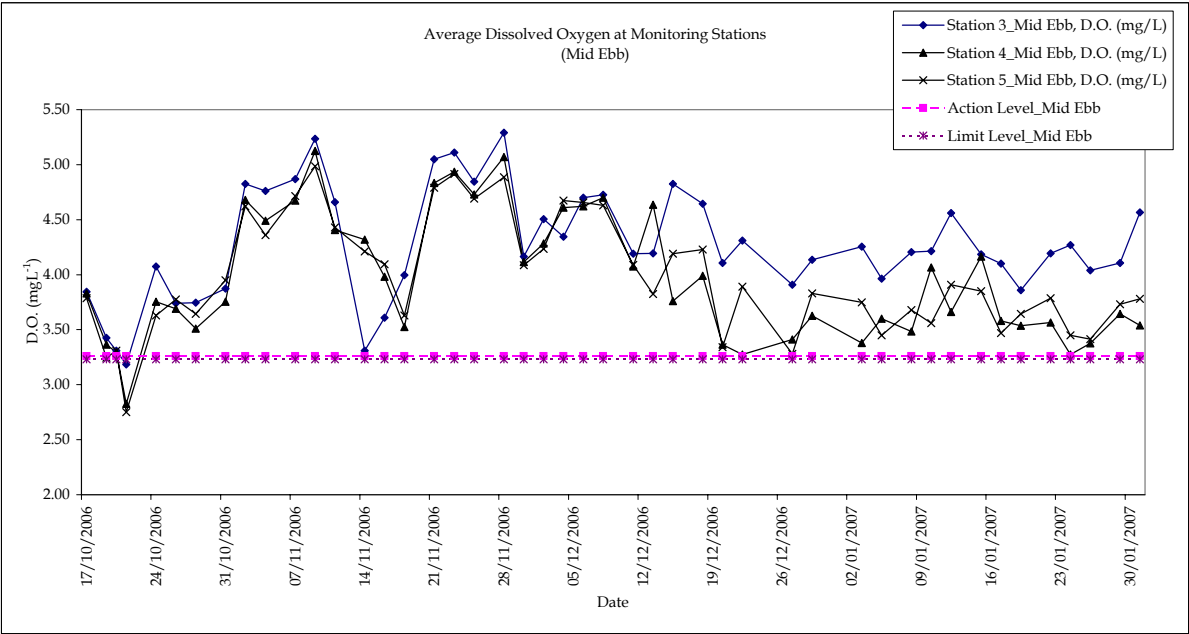
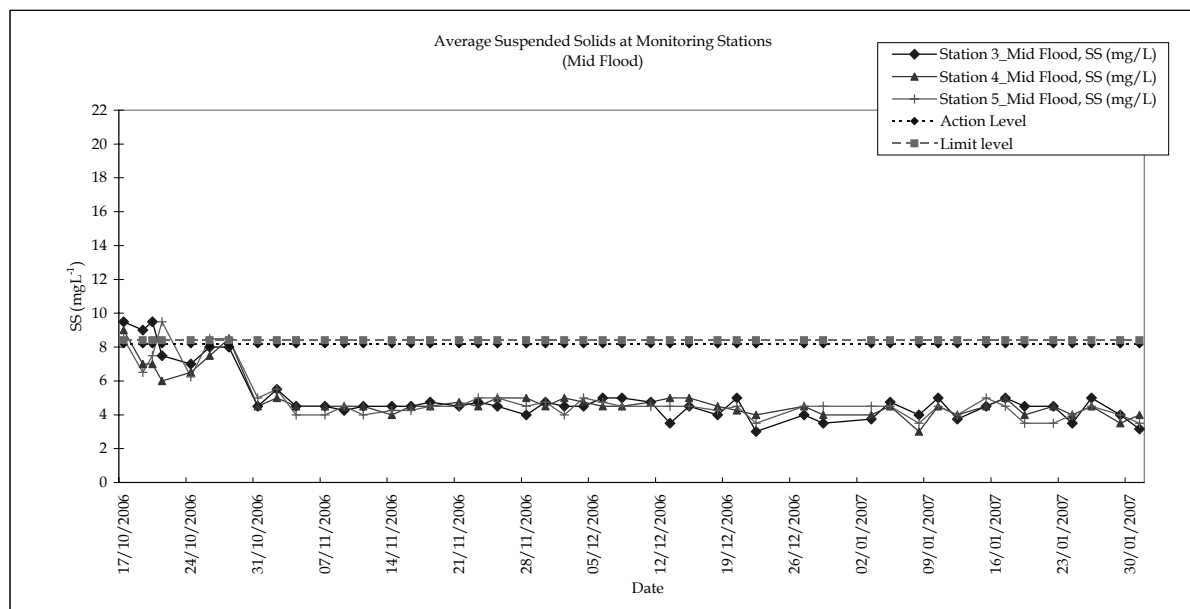
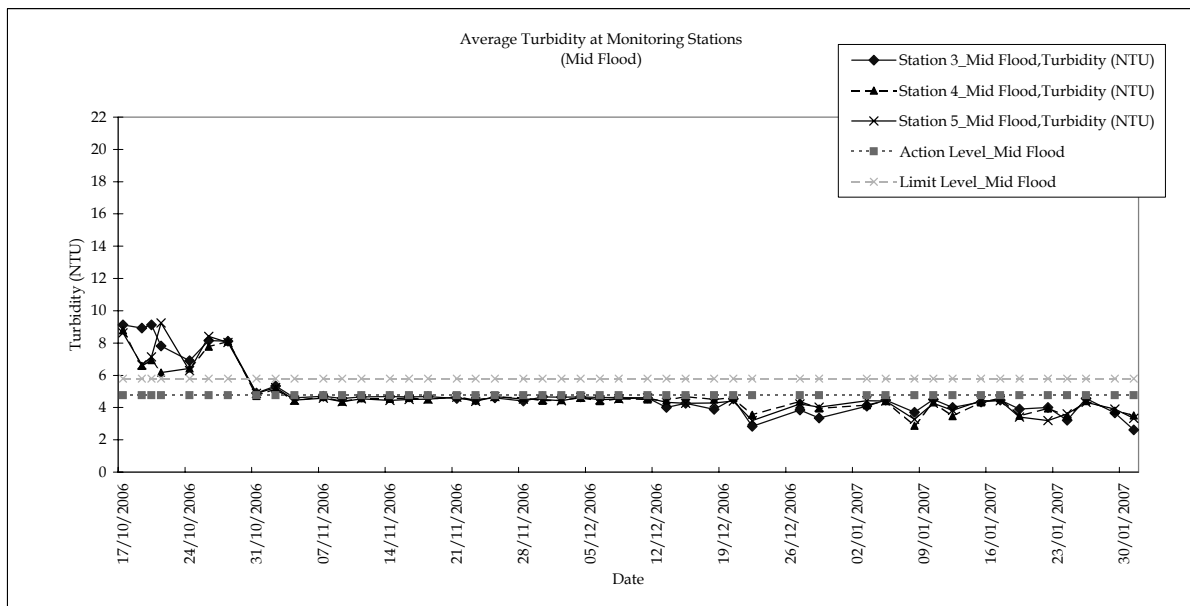
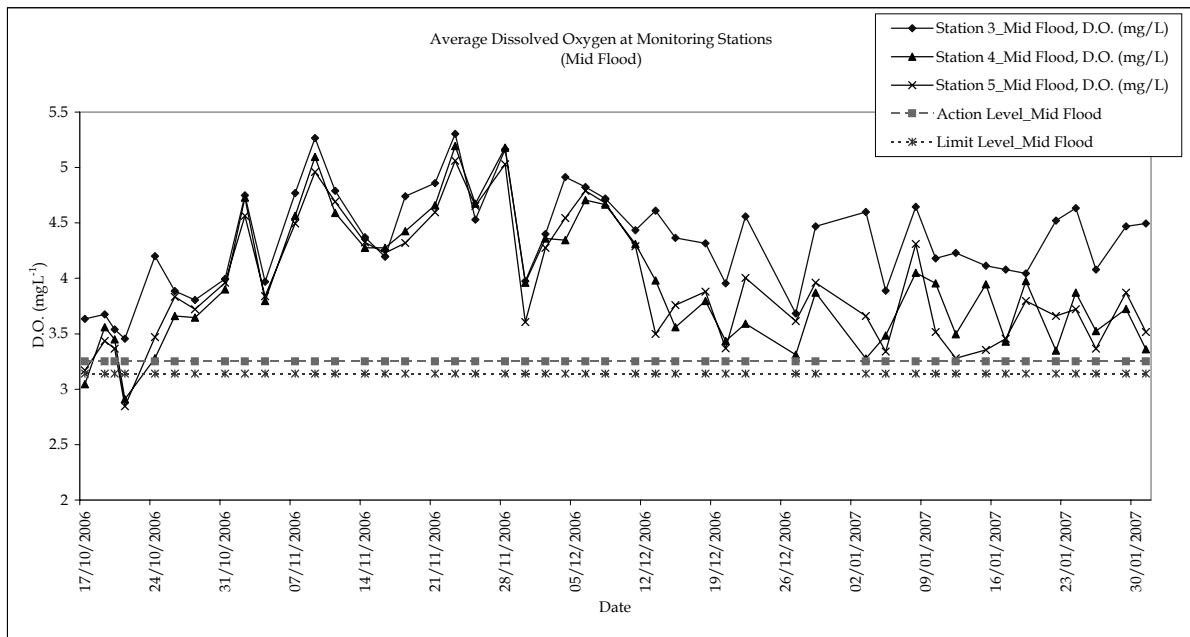


Figure I2 - Water Quality Monitoring Results (Mid Flood)



Water Quality Monitoring Results for Station 3

Date	03/01/2007			03/01/2007			05/01/2007			05/01/2007			08/01/2007			08/01/2007			10/01/2007			10/01/2007			12/01/2007			12/01/2007		
Time (hh:mm)	13:22 - 13:33			17:35 - 17:48			14:12 - 14:27			09:18 - 09:33			15:48 - 16:00			10:29 - 10:39			17:45 - 18:00			12:03 - 12:18			08:06 - 08:18			12:38 - 12:51		
Ambient Temperature	19			18			18			16			14			13			16			15			18			20		
Weather	Drizzle			Cloudy			Sunny			Sunny			Sunny			Sunny			Fine			Fine			Cloudy			Cloudy		
Water Depth (m)	8.40			7.80			7.90			8.00			8.60			9.20			7.60			7.90			9.00			8.40		
Monitoring Depth	7.50			7.50			7.50			7.50			7.50			7.50			7.50			7.50			7.50			7.50		
Tide	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	21.3	21.3	21.3	21.0	21.0	21.0	21.4	21.3	21.4	21.0	20.9	21.0	19.2	19.1	19.2	18.8	18.8	18.8	21.2	21.2	21.2	21.0	21.1	21.1	20.0	20.0	20.0	20.4	20.5	20.5
Salinity (ppt)	32.5	32.5	32.5	32.3	32.4	32.4	32.2	32.2	32.2	32.3	32.3	32.3	31.8	31.8	31.8	32.4	32.5	32.5	32.1	32.1	32.1	32.0	32.0	32.0	32.4	32.4	32.4	32.1	32.1	32.1
D.O. (mg/L)	4.29	4.22	4.3	4.63	4.57	4.6	4.00	3.93	4.0	3.86	3.92	3.9	4.24	4.17	4.2	4.68	4.61	4.6	4.16	4.27	4.2	4.12	4.24	4.2	4.58	4.54	4.6	4.26	4.20	4.2
D.O. Saturation (%)	61.0	60.0	60.5	65.5	64.7	65.1	54.4	53.4	53.9	51.7	52.5	52.1	59.6	58.6	59.1	66.3	65.3	65.8	55.7	57.1	56.4	55.2	56.8	56.0	63.8	63.2	63.5	59.3	58.5	58.9
Turbidity (NTU)	3.73	3.68	3.7	4.05	4.11	4.1	4.50	4.42	4.5	4.42	4.52	4.5	2.88	3.31	3.1	3.64	3.79	3.7	4.46	4.58	4.5	4.48	4.54	4.5	3.49	3.53	3.5	3.97	4.03	4.0
SS* (mg/L)	3.5	3.5	3.5	3.5	4.0	3.8	5.0	5.0	5.0	4.5	5.0	4.8	3.0	3.5	3.3	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.5	3.5	4.0	3.8
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			General earth work			General earth work			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

* For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 times the MDL.

Within Action Level ?																																
Date	03/01/2007		03/01/2007		05/01/2007		05/01/2007		08/01/2007		08/01/2007		10/01/2007		10/01/2007		12/01/2007		12/01/2007		12/01/2007		12/01/2007		12/01/2007		12/01/2007					
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
Within Limit Level ?																																
Date	03/01/2007		03/01/2007		05/01/2007		05/01/2007		08/01/2007		08/01/2007		10/01/2007		10/01/2007		12/01/2007		12/01/2007		12/01/2007		12/01/2007		12/01/2007		12/01/2007					
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				

Water Quality Monitoring Results for Station 3

Date	15/01/2007			15/01/2007			17/01/2007			17/01/2007			19/01/2007			19/01/2007			22/01/2007			22/01/2007			24/01/2007			24/01/2007		
Time (hh:mm)	18:43 - 18:58			10:45 - 11:00			12:00 - 12:15			16:18 - 16:33			13:16 - 13:27			17:40 - 17:52			15:52 - 16:05			09:45 - 09:58			17:15 - 17:25			11:25 - 11:35		
Ambient Temperature	18			18			16			15			18			18			17			17			15			15		
Weather	Cloudy			Cloudy			Rainy			Rainy			Cloudy			Cloudy			Cloudy			Cloudy			Cloudy			Cloudy		
Water Depth (m)	7.80			8.20			7.80			8.20			7.60			8.20			7.60			8.00			8.00			8.40		
Monitoring Depth	7.50			7.50			7.50			7.50			7.50			7.50			7.50			7.50			7.50			7.50		
Tide	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	21.4	21.4	21.4	21.2	21.2	21.2	20.6	20.6	20.6	20.6	20.6	20.6	20.8	20.9	20.9	20.7	20.7	20.7	21.6	21.6	21.6	21.3	21.3	21.3	18.9	18.9	18.9	18.7	18.7	18.7
Salinity (ppt)	32.2	32.2	32.2	32.1	32.0	32.1	32.2	32.2	32.2	32.0	32.2	32.1	31.6	31.6	31.6	31.8	31.8	31.8	32.4	32.5	32.5	32.5	32.6	32.6	32.1	32.1	32.1	32.0	32.0	32.0
D.O. (mg/L)	4.20	4.17	4.2	4.09	4.14	4.1	4.08	4.12	4.1	4.12	4.04	4.1	3.89	3.83	3.9	4.08	4.01	4.0	4.22	4.17	4.2	4.53	4.51	4.5	4.29	4.25	4.3	4.62	4.65	4.6
D.O. Saturation (%)	57.5	57.1	57.3	56.0	56.7	56.4	55.5	56.0	55.8	54.8	53.9	54.4	54.3	47.2	50.8	57.0	56.0	56.5	58.5	57.8	58.2	62.8	62.5	62.7	57.4	56.9	57.2	61.9	62.3	62.1
Turbidity (NTU)	4.52	4.57	4.5	4.32	4.37	4.3	4.48	4.54	4.5	4.52	4.40	4.5	3.60	3.63	3.6	3.95	3.88	3.9	4.28	4.35	4.3	4.04	3.98	4.0	3.78	3.79	3.8	3.21	3.23	3.2
SS* (mg/L)	5.0	5.0	5.0	4.5	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0	3.5	3.5	3.5
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

Within Action Level ?

Date	15/01/2007		15/01/2007		17/01/2007		17/01/2007		19/01/2007		19/01/2007		22/01/2007		22/01/2007		24/01/2007		24/01/2007	
D.O. (mg/L)	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Within Limit Level ?

Date	15/01/2007		15/01/2007		17/01/2007		17/01/2007		19/01/2007		19/01/2007		22/01/2007		22/01/2007		24/01/2007		24/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Water Quality Monitoring Results for Station 3

Date	26/01/2007			26/01/2007			29/01/2007			29/01/2007			31/01/2007			31/01/2007		
Time (hh:mm)	19:18 - 19:23			12:33 - 12:48			19:12 - 19:27			10:41 - 10:56			17:10 - 17:23			12:21 - 12:34		
Ambient Temperature	18			16			12			12			16			18		
Weather	Fine			Sunny			Sunny			Sunny			Sunny			Sunny		
Water Depth (m)	7.70			7.80			7.80			8.40			9.40			8.60		
Monitoring Depth	7.50			7.50			7.50			7.50			7.50			7.50		
Tide	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	20.9	20.9	20.9	20.8	20.9	20.9	17.7	17.7	17.7	17.4	17.4	17.4	19.0	19.0	19.0	19.6	19.5	19.6
Salinity (ppt)	32.2	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.1	32.2	32.4	32.4	32.4	32.0	32.0	32.0
D.O. (mg/L)	4.10	3.98	4.0	4.00	4.16	4.1	4.12	4.09	4.1	4.49	4.45	4.5	4.60	4.53	4.6	4.53	4.46	4.5
D.O. Saturation (%)	55.3	53.7	54.5	53.6	55.8	54.7	56.4	56.0	56.2	61.5	60.9	61.2	63.6	62.6	63.1	62.9	61.9	62.4
Turbidity (NTU)	4.62	4.58	4.6	4.51	4.63	4.6	3.97	3.99	4.0	3.67	3.66	3.7	3.21	3.17	3.2	2.59	2.66	2.6
SS* (mg/L)	4.5	4.5	4.5	5.0	5.0	5.0	4.2	4.2	4.2	4.0	4.0	4.0	3.5	3.5	3.5	3.0	3.3	3.2
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

Within Action Level ?

Date	26/01/2007		26/01/2007		29/01/2007		29/01/2007		31/01/2007		31/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Within Limit Level ?

Date	26/01/2007		26/01/2007		29/01/2007		29/01/2007		31/01/2007		31/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 4

Date	03/01/2007			03/01/2007			05/01/2007			05/01/2007			08/01/2007			08/01/2007			10/01/2007			10/01/2007			12/01/2007		
Time (hh:mm)	13:06 - 13:15			17:18 - 17:29			13:52 - 14:07			08:58 - 09:13			15:32 - 15:42			10:10 - 10:22			17:25 - 17:40			11:43 - 11:58			07:48 - 07:59		
Ambient Temperature	19			18			18			16			14			13			16			15			18		
Weather	Drizzle			Cloudy			Sunny			Sunny			Sunny			Sunny			Fine			Fine			Cloudy		
Water Depth (m)	4.80			4.40			4.30			4.50			3.40			4.00			4.00			4.40			4.30		
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00		
Tide	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	21.5	21.6	21.6	21.2	21.2	21.2	21.3	21.4	21.4	21.1	21.1	21.1	19.1	19.1	19.1	19.0	19.0	19.0	21.2	21.2	21.2	21.1	21.1	21.1	20.1	20.2	20.2
Salinity (ppt)	31.6	31.7	31.7	32.0	32.0	32.0	32.1	32.2	32.2	32.2	32.3	32.3	32.0	32.0	32.0	32.3	32.3	32.3	32.0	32.0	32.0	32.1	32.1	32.1	32.2	32.3	32.3
D.O. (mg/L)	3.41	3.35	3.4	3.29	3.26	3.3	3.67	3.53	3.6	3.56	3.41	3.5	3.51	3.46	3.5	4.02	4.08	4.1	4.10	4.03	4.1	4.00	3.91	4.0	3.69	3.63	3.7
D.O. Saturation (%)	48.5	47.6	48.1	46.6	46.1	46.4	49.2	47.3	48.3	47.7	45.7	46.7	49.3	48.6	49.0	56.9	57.8	57.4	55.8	54.9	55.4	54.4	53.2	53.8	51.4	50.5	51.0
Turbidity (NTU)	4.59	4.63	4.6	4.12	4.18	4.2	4.47	4.58	4.5	4.37	4.43	4.4	3.90	3.98	3.9	2.84	2.90	2.9	4.61	4.54	4.6	4.26	4.39	4.3	3.62	3.71	3.7
SS* (mg/L)	4.5	4.5	4.5	4.0	4.0	4.0	5.0	5.0	5.0	4.5	4.5	4.5	4.0	4.0	4.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			Piling works in progress			Piling works in progress			No construction activities were observed			No construction activities were observed			No construction activities were observed		

* For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 tim

Within Action Level ?

Date		03/01/2007		03/01/2007		05/01/2007		05/01/2007		08/01/2007		08/01/2007		10/01/2007		10/01/2007		12/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Within Limit Level ?

Date		03/01/2007		03/01/2007		05/01/2007		05/01/2007		08/01/2007		08/01/2007		10/01/2007		10/01/2007		12/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 4

Date	12/01/2007			15/01/2007			15/01/2007			17/01/2007			17/01/2007			19/01/2007			19/01/2007			22/01/2007			22/01/2007		
Time (hh:mm)	12:22 - 12:33			18:17 - 18:33			10:20 - 10:35			11:40 - 11:55			16:08 - 16:13			12:59 - 13:10			17:25 - 17:36			15:30 - 15:44			09:26 - 09:37		
Ambient Temperature	20			18			18			16			15			18			18			17			17		
Weather	Cloudy			Cloudy			Cloudy			Rainy			Rainy			Cloudy			Cloudy			Cloudy			Cloudy		
Water Depth (m)	3.80			4.20			4.40			4.40			4.70			2.80			3.40			3.70			4.20		
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00		
Tide	Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	20.9	20.9	20.9	21.3	21.2	21.3	21.1	21.1	21.1	20.7	20.7	20.7	20.7	20.7	20.7	21.2	21.2	21.2	21.0	21.0	21.0	21.9	21.9	21.9	21.8	21.7	21.8
Salinity (ppt)	31.3	31.3	31.3	32.0	32.1	32.1	32.2	32.1	32.2	32.1	32.1	32.1	32.1	32.1	32.1	31.2	31.2	31.2	31.1	31.1	31.1	32.2	32.1	32.2	32.4	32.4	32.4
D.O. (mg/L)	3.52	3.47	3.5	4.15	4.18	4.2	3.96	3.93	3.9	3.60	3.56	3.6	3.37	3.49	3.4	3.56	3.51	3.5	4.00	3.95	4.0	3.60	3.53	3.6	3.38	3.32	3.4
D.O. Saturation (%)	49.2	48.6	48.9	56.8	57.2	57.0	54.2	53.8	54.0	48.2	47.8	48.0	45.2	46.8	46.0	49.7	49.0	49.4	55.9	55.2	55.6	49.9	48.9	49.4	46.8	46.0	46.4
Turbidity (NTU)	3.45	3.51	3.5	4.69	4.65	4.7	4.33	4.30	4.3	4.32	4.47	4.4	4.53	4.63	4.6	3.22	3.18	3.2	3.51	3.46	3.5	3.48	3.55	3.5	3.92	3.97	3.9
SS* (mg/L)	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.0	5.0	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

Within Action Level ?

Date	12/01/2007		15/01/2007		15/01/2007		17/01/2007		17/01/2007		19/01/2007		19/01/2007		22/01/2007		22/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Within Limit Level ?

Date	12/01/2007		15/01/2007		15/01/2007		17/01/2007		17/01/2007		19/01/2007		19/01/2007		22/01/2007		22/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 4

Date	24/01/2007			24/01/2007			26/01/2007			26/01/2007			29/01/2007			29/01/2007			31/01/2007			31/01/2007		
Time (hh:mm)	16:50 - 17:05			10:50 - 11:15			19:08 - 19:13			12:13 - 12:28			18:47 - 19:02			10:16 - 10:31			16:52 - 17:03			12:02 - 12:15		
Ambient Temperature	15			15			18			16			12			12			16			18		
Weather	Cloudy			Cloudy			Fine			Sunny			Sunny			Sunny			Sunny			Sunny		
Water Depth (m)	3.80			4.00			4.40			4.50			3.40			3.80			4.00			3.40		
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00		
Tide	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	18.6	18.6	18.6	18.4	18.4	18.4	21.0	21.0	21.0	20.9	20.9	20.9	17.8	17.8	17.8	17.6	17.6	17.6	19.2	19.3	19.3	19.3	19.3	19.3
Salinity (ppt)	32.1	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.4	32.3	32.4	32.4	32.4	32.4	32.2	32.2	32.2	31.9	31.9	31.9
D.O. (mg/L)	3.29	3.26	3.3	3.89	3.85	3.9	3.33	3.42	3.4	3.48	3.57	3.5	3.67	3.62	3.6	3.74	3.71	3.7	3.57	3.51	3.5	3.39	3.33	3.4
D.O. Saturation (%)	44.0	43.6	43.8	52.1	51.5	51.8	45.0	46.2	45.6	46.7	47.9	47.3	50.2	49.5	49.9	50.8	50.4	50.6	49.4	48.5	49.0	47.1	46.2	46.7
Turbidity (NTU)	4.20	4.23	4.2	3.49	3.47	3.5	4.50	4.62	4.6	4.30	4.49	4.4	4.26	4.29	4.3	3.79	3.81	3.8	3.65	3.80	3.7	3.47	3.55	3.5
SS* (mg/L)	4.5	4.5	4.5	4.0	4.0	4.0	5.0	5.0	5.0	4.5	4.5	4.5	4.0	4.0	4.0	3.5	3.5	3.5	3.8	3.8	3.8	4.0	4.0	4.0
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

Within Action Level ?

Date		24/01/2007		24/01/2007		26/01/2007		26/01/2007		29/01/2007		29/01/2007		31/01/2007		31/01/2007	
D.O. (mg/L)	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Within Limit Level ?

Date		24/01/2007		24/01/2007		26/01/2007		26/01/2007		29/01/2007		29/01/2007		31/01/2007		31/01/2007	
D.O. (mg/L)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 5

Date	03/01/2007			03/01/2007			05/01/2007			05/01/2007			08/01/2007			08/01/2007			10/01/2007			10/01/2007			12/01/2007		
Time (hh:mm)	12:50 - 13:02			17:02 - 17:15			13:32 - 13:47			08:38 - 08:53			15:15 - 15:27			09:50 - 10:04			17:05 - 17:20			11:23 - 11:38			07:32 - 07:43		
Ambient Temperature	19			18			18			16			14			13			16			15			18		
Weather	Drizzle			Cloudy			Sunny			Sunny			Sunny			Sunny			Fine			Fine			Cloudy		
Water Depth (m)	5.00			4.60			4.70			4.80			3.60			4.40			4.30			4.70			4.50		
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00		
Tide	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	21.4	21.4	21.4	21.1	21.2	21.2	21.3	21.3	21.3	21.0	21.1	21.1	19.2	19.3	19.3	18.8	18.9	18.9	21.1	21.2	21.2	21.1	21.1	21.1	20.1	20.1	20.1
Salinity (ppt)	31.7	31.7	31.7	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.1	32.1	32.1	32.3	32.3	32.3	32.1	32.1	32.1	32.0	32.1	32.1	32.2	32.2	32.2
D.O. (mg/L)	3.78	3.72	3.8	3.69	3.63	3.7	3.41	3.49	3.5	3.30	3.38	3.3	3.70	3.66	3.7	4.27	4.35	4.3	3.62	3.50	3.6	3.46	3.57	3.5	3.88	3.94	3.9
D.O. Saturation (%)	53.7	52.9	53.3	52.2	51.4	51.8	46.4	47.5	47.0	44.2	45.3	44.8	52.0	51.5	51.8	60.5	61.6	61.1	49.6	47.9	48.8	46.4	47.8	47.1	54.0	54.9	54.5
Turbidity (NTU)	3.82	3.69	3.8	4.39	4.45	4.4	4.40	4.46	4.4	4.36	4.44	4.4	3.69	3.45	3.6	3.24	3.31	3.3	4.50	4.40	4.5	4.22	4.32	4.3	3.89	3.83	3.9
SS* (mg/L)	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0	3.5	3.5	3.5	5.0	4.5	4.8	4.5	4.5	4.5	4.0	4.0	4.0
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

* For the values of suspended solids less than 5mg/L (PQL), the results are for reference only. PQL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally PQL is about 5 tim

Within Action Level ?

Date	03/01/2007		03/01/2007		05/01/2007		05/01/2007		08/01/2007		08/01/2007		10/01/2007		10/01/2007		12/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Within Limit Level ?

Date	03/01/2007		03/01/2007		05/01/2007		05/01/2007		08/01/2007		08/01/2007		10/01/2007		10/01/2007		12/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Water Quality Monitoring Results for Station 5

Date	12/01/2007			15/01/2007			15/01/2007			17/01/2007			17/01/2007			19/01/2007			19/01/2007			22/01/2007			22/01/2007		
Time (hh:mm)	12:05 - 12:17			18:00 - 18:15			10:03 - 10:18			11:20 - 11:35			15:48 - 16:03			12:45 - 12:57			17:10 - 17:21			15:15 - 15:26			09:08 - 09:21		
Ambient Temperature	20			18			18			16			15			18			18			17			17		
Weather	Cloudy			Cloudy			Cloudy			Rainy			Rainy			Cloudy			Cloudy			Cloudy			Cloudy		
Water Depth (m)	3.80			4.60			4.80			4.70			4.90			3.00			3.60			4.00			4.50		
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00		
Tide	Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	20.7	20.8	20.8	21.1	21.1	21.1	21.1	21.0	21.1	20.7	20.7	20.7	20.7	20.7	20.7	21.1	21.0	21.1	21.0	21.0	21.0	21.8	21.9	21.9	21.7	21.7	21.7
Salinity (ppt)	31.9	31.9	31.9	32.1	32.2	32.2	32.1	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	31.3	31.2	31.3	31.2	31.2	31.2	32.3	32.3	32.3	32.4	32.3	32.4
D.O. (mg/L)	3.30	3.26	3.3	3.83	3.87	3.9	3.37	3.34	3.4	3.45	3.49	3.5	3.50	3.41	3.5	3.67	3.62	3.6	3.82	3.77	3.8	3.82	3.75	3.8	3.69	3.63	3.7
D.O. Saturation (%)	46.1	45.5	45.8	52.4	53.0	52.7	46.1	45.7	45.9	46.5	46.9	46.7	46.9	45.8	46.4	51.3	50.6	51.0	53.4	52.7	53.1	52.9	52.0	52.5	51.1	50.3	50.7
Turbidity (NTU)	3.80	3.86	3.8	4.73	4.71	4.7	4.40	4.44	4.4	4.44	4.36	4.4	4.48	4.38	4.4	2.74	2.80	2.8	3.43	3.38	3.4	3.69	3.73	3.7	3.21	3.16	3.2
SS* (mg/L)	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.5	3.5	3.5	4.0	4.0	4.0	3.5	3.5	3.5
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

Within Action Level ?

Date	12/01/2007		15/01/2007		15/01/2007		17/01/2007		17/01/2007		19/01/2007		19/01/2007		22/01/2007		22/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Within Limit Level ?

Date	12/01/2007		15/01/2007		15/01/2007		17/01/2007		17/01/2007		19/01/2007		19/01/2007		22/01/2007		22/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 5

Date	24/01/2007			24/01/2007			26/01/2007			26/01/2007			29/01/2007			29/01/2007			31/01/2007			31/01/2007		
Time (hh:mm)	16:32 - 16:47			10:32 - 10:47			18:48 - 19:03			11:53 - 12:08			18:30 - 18:45			09:59 - 10:14			16:35 - 16:46			11:45 - 11:57		
Ambient Temperature	15			15			18			16			12			12			16			18		
Weather	Cloudy			Cloudy			Fine			Sunny			Sunny			Sunny			Sunny			Sunny		
Water Depth (m)	3.80			4.20			4.50			4.70			3.40			3.80			4.20			3.60		
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00		
Tide	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
Trial	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	18.6	18.5	18.6	18.4	18.4	18.4	21.0	21.0	21.0	20.9	20.9	20.9	17.8	17.8	17.8	17.6	17.6	17.6	19.4	19.4	19.4	19.5	19.5	19.5
Salinity (ppt)	32.2	32.1	32.2	32.1	32.0	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.4	32.4	32.4	32.4	32.3	32.4	32.3	32.2	32.3	31.8	31.9	31.9
D.O. (mg/L)	3.43	3.47	3.5	3.74	3.70	3.7	3.38	3.45	3.4	3.33	3.40	3.4	3.75	3.71	3.7	3.89	3.85	3.9	3.81	3.75	3.8	3.54	3.49	3.5
D.O. Saturation (%)	45.6	46.1	45.9	49.7	49.2	49.5	45.6	46.6	46.1	44.9	45.8	45.4	51.3	50.8	51.1	52.9	52.3	52.6	52.7	51.8	52.3	49.2	48.5	48.9
Turbidity (NTU)	4.11	4.10	4.1	3.60	3.63	3.6	4.49	4.37	4.4	4.26	4.38	4.3	3.89	3.86	3.9	3.90	3.93	3.9	3.72	3.77	3.7	3.36	3.30	3.3
SS* (mg/L)	4.5	4.5	4.5	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	3.8	3.5	3.7	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5
Remarks	No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed			No construction activities were observed		

Within Action Level ?

Date		24/01/2007		24/01/2007		26/01/2007		26/01/2007		29/01/2007		29/01/2007		31/01/2007		31/01/2007	
D.O. (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Within Limit Level ?

Date		24/01/2007		24/01/2007		26/01/2007		26/01/2007		29/01/2007		29/01/2007		31/01/2007		31/01/2007	
D.O. (mg/L)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (NTU)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SS (mg/L)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Annex J

Event Action Plans for Air and Water Quality Monitoring

Table J1 Event Action Plans for Air Quality

Event Action Level	Action			
	ET	Contractor	ER	IEC
Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source 2. Notify IEC, ER and Contractor within 1 working day after receiving the laboratory results. 3. Conduct additional monitoring to investigate the causes. 4. Report the investigation results and if exceedance is due to contractor's construction works to the IEC, ER and Contractor. 5. Increase monitoring frequency to once per 2 days for 24-hour TSP and daily for 1-hour TSP until exceedance stops if exceedances are considered related to contractor's construction works and report the results to IEC, ER and Contractor within 1 working day after receiving the laboratory results. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance and rectify any unacceptable practice. 2. Submit air mitigation proposal to IEC and ER for agreement within 3 working days if ET indicated that exceedance is related to the construction works 3. Implement agreed proposal within a time scale agreed with ER and IEC. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify Contractor. 3. Require Contractor to submit air mitigation proposal. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Review monitoring data and investigation report submitted by ET. 2. Review Contractor's air mitigation proposal and advise the ER accordingly. 3. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source 2. Notify EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results 3. Conduct additional monitoring to investigate the causes. 4. Report the investigation results and if exceedances are due to contractor's construction works to EPD, IEC, ER and Contractor within 3 working days after additional monitoring. 5. Increase monitoring frequency to daily for 24-hour TSP and 1-hour TSP if exceedances are considered related to contractor's construction works until exceedance stops, and report the results to EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results. 6. If exceedances continue after 1-week monitoring events, request ER to arrange meeting with ER, IEC and contractor to discuss remedial actions. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance and rectify any unacceptable practice 2. In consultation with the IEC, submit air mitigation proposal to IEC and ER for agreement within 3 working days of notification if ET indicated that exceedances are related to construction works 3. Implement agreed proposal within a time scale agreed with ER and IEC. 4. Amend working methods if appropriate. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify Contractor. 3. Require Contractor to submit air mitigation proposal. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Review monitoring data and investigation report submitted by ET. 2. Discuss amongst ER, ET and Contractor in order to formulate air mitigation proposal. 3. Review Contractor's air mitigation proposal and advise the ER accordingly. 4. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.

Event Limit Level	Action			
	ET	Contractor	ER	IEC
Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source 2. Notify EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results 3. Conduct additional monitoring to investigate the causes. 4. Report the investigation results and if exceedances are due to contractor's construction works to EPD, IEC, ER and Contractor within 3 working days after additional monitoring. 5. Increase monitoring frequency to daily if exceedances are considered related to contractor's construction works until exceedance stops, and report the results to EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance and rectify any unacceptable practice 2. In consultation with the IEC, submit air mitigation proposal to IEC and ER for agreement within 3 working days of notification if ET indicated that exceedances are related to construction works 3. Implement agreed proposal within a time scale agreed with ER and IEC. 4. Amend working methods if appropriate. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify Contractor. 3. Require Contractor to submit air mitigation proposal. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Review monitoring data and investigation report submitted by ET. 2. Discuss amongst ER, ET and Contractor in order to formulate air mitigation proposal. 3. Review Contractor's air mitigation proposal and advise the ER accordingly. 4. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source 2. Notify EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results 3. Conduct additional monitoring to investigate the causes. 4. Report the investigation results and if exceedances are due to contractor's construction works to EPD, IEC, ER and Contractor within 3 working days after additional monitoring. 5. Increase monitoring frequency to daily if exceedances are considered related to contractor's construction works until exceedance stops, and report the results to EPD, IEC, ER and Contractor within 1 working day after receiving the laboratory results. 6. If exceedances continue after 2 consecutive monitoring events, request ER to arrange meeting with IEC and contractor to discuss remedial actions. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance and rectify any unacceptable practice 2. In consultation with the IEC, submit air mitigation proposal to IEC and ER for agreement within 3 working days of notification if ET indicated that exceedances are related to construction works 3. Implement agreed proposal within a time scale agreed with ER and IEC. 4. Amend working methods and proposal if appropriate. 5. Stop relevant portion(s) of works as required by ER, ET and IEC 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify Contractor. 3. Require Contractor to submit air mitigation proposal. 4. Ensure remedial measures are properly implemented. 5. If exceedances continue arrange meeting with Contractor, IEC and ET and to consider what portion(s) of works should be further mitigated or have to stop. 	<ol style="list-style-type: none"> 1. Review monitoring data and investigation report submitted by ET. 2. Discuss amongst ER, ET and Contractor in order to formulate air mitigation proposal. 3. Review Contractor's air mitigation proposal and advise the ER accordingly. 4. Supervise and confirm in writing the implementation of remedial measures within 2 working days after receipt of the mitigation proposal.

Table J2 Event Action Plans for Water Quality

Event	Action			
	ET	IC(E)	ER	Contractor
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IC(E) and Contractor; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IC(E) and Contractor; 6. (The above actions should be taken within 1 working day after the exceedance is identified) 7. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> 1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Discuss with IC(E) on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented. 3. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with ET and IC(E) and propose mitigation measures to IC(E) and ER; 6. Implement the agreed mitigation measures. 7. (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	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform IC(E) and Contractor; 3. Check monitoring data, all plant, equipment and Contractor's working methods; 4. Discuss mitigation measures with IC(E) and Contractor; 5. Ensure mitigation measures are implemented; 6. Prepare to increase the monitoring frequency to daily; 7. (The above actions should be taken within 1 working day after the exceedance is identified) 8. Repeat measurement on next working day of exceedance. 	<ol style="list-style-type: none"> 1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Discuss with IC(E) on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with ET and IC(E) and propose mitigation measures to IC(E) and ER within 3 working days; 6. Implement the agreed mitigation measures. 7. (The above actions should be taken within 1 working day after the exceedance is identified)

Event	Action			
	ET	IC(E)	ER	Contractor
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IC(E), contractor and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IC(E), ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level. 8. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Discuss with IC(E), ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures. 5. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with ET , IC(E) and ER and propose mitigation measures to IC(E) and ER within 3 working days; 6. Implement the agreed mitigation measures. 7. (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	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Inform IC(E), contractor and EPD; 3. Check monitoring data, all plant, equipment and Contractor's working methods; 4. Discuss mitigation measures with IC(E), ER and Contractor; 5. Ensure mitigation measures are implemented; 6. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 7. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Discuss with IC(E), ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures; 5. 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. 6. (The above actions should be taken within 1 working day after the exceedance is identified) 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with ET , IC(E) and ER and propose mitigation measures to IC(E) and ER within 3working days; 6. Implement the agreed mitigation measures; 7. As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. 8. (The above actions should be taken within 1 working day after the exceedance is identified)

Annex K

Summary of Implementation Status

Annex K - Summary of Environmental Protection / Mitigation Activities

Environmental Permit No. EP-239/2006

EP Condition Ref	Submission	Action Required by the Permit Holder	Implementation Status
Measures for Mitigating Water Quality Impact			
2.4	Method statement on silt screens for seawater intakes (including design and maintenance requirements)	2 weeks before commencement of marine pile installation works	Method statement was submitted to the EPD on 21/6/06. Method statement (Revision A) was submitted to the EPD on 29/9/06.
2.5	Method statement on silt curtain system for marine piling works (including design and maintenance requirements)	2 weeks before commencement of marine pile installation works	Method statement was submitted to the EPD on 15/9/06.
2.8	Design drawings specifying pile dimension and layout	2 weeks before commencement of marine pile installation works	Revised method statement (Stage 2) was submitted to the EPD on 28/11/06. Method statement (final stage) was submitted to the EPD on 30/11/06.
Measures for Mitigating Air Quality Impact			
2.9	Design drawings of ventilation facility for fresh air intakes (req'd only before operation of Project)	2 weeks before commencement of installation of ventilation facility	---
Measures for Mitigating Landscape and Visual Impact			
2.10	Implementation programme for landscape and visual mitigation measures (for both construction and operational phases of Project)	Within 6 months after commencement of construction of Project	Implementation programme (CM01, CM04 and CM05) was submitted to the EPD on 8/12/06. Proposal for CM03 was submitted to the EPD on 8/12/06. Proposal for CM01, CM04 and CM05 was submitted to the EPD on 15/12/06. CM01 Rev 1 was submitted to the EPD on 22/1/07.
2.10	Details of each landscape and visual mitigation measures package (incl plans)	2 weeks before implementation of a particular mitigation package	Proposal on protection and transplantation of existing trees was submitted to the EPD on 8/12/06.
3.2	Baseline Monitoring Report	One week before the commencement of construction	Report was submitted to the EPD on 24/7/06 and comments from the EPD was received on 3/8/06. Revised report was submitted to EPD on 17/8/06 and no further comments received.

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
<i>Construction Phase</i>			
Air Quality	<p>The Air Pollution Control (Construction Dust) Regulation shall be implemented and good site practices shall be incorporated in the contract clauses to minimize construction dust impact. A number of practical measures are listed below:</p> <ul style="list-style-type: none"> • skip hoist for material transport should be totally enclosed by impervious sheeting; • every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site; • the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; • where a site boundary adjoins a road, streets or other accessible to the public, hoarding of not less than 2.4 m high from ground level should be provided along the entire length except for a site entrance or exit; • every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the 3 sides; • all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet; • the height from which excavated materials dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading; • the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle; and • instigation of an environmental monitoring auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. 	Work site / during construction	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
<i>Operational Phase</i>			
Air Quality	Some fresh air intakes of the Hong Kong Convention and Exhibition Centre Phase I, Renaissance Harbour View Hotel and Grand Hyatt Hotel (ASRs A4, A5 and A6) should be re-diverted to the new air vent shaft provided for Atrium Link Extension where fresh air intake located at +55.8mPD.	Location of ASRs A4, A5 & A6 / Design & Operation Stage (Long-term and Interim Scenario)	Measures not required until commencement of operational phase
Air Quality	Monitoring of NO ₂ concentration underneath the Atrium Link Extension should be conducted.	Underneath the deckover / The first six months upon completion of the ALE.	Measures not required until commencement of operational phase
<i>Construction Phase</i>			
Noise	<p>Good Site Practice:</p> <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program; mobile plant, if any, should be sited as far from NSRs as possible; machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities; <p>Environmental audit shall be carried out to ensure that appropriate noise control measures would be properly implemented.</p>	Construction work areas / Construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
<i>Operational Phase</i>			
Noise	<p>The following noise reduction measures should be considered as far as practicable during detailed design:</p> <ul style="list-style-type: none"> • choose quieter plant such as those which have been effectively silenced; • include noise levels specification when ordering new plant; • locate fixed plant away from any NSRs as far as practicable; • locate fixed plant in plant rooms with thick walls or specially designed enclosure; • locate noisy machines in basement or a completely separate building; and • develop and implement a regularly scheduled plant maintenance programme in order to maintain controlled level of noise. 	Plant Room / Design and Operation Stage	Relevant design and plant procurement procedures to commence at a later stage
<i>Construction Phase</i>			
Water Quality	There should be no permanent structure in the water channel.	At the ALE sea channel / during operational phase	√
Water Quality	No dredging and no reclamation should be carried out for the Project.	At work sites / during construction phase	√
Water Quality	The marine pile layout as shown in Figure 2.6 of the EIA report should be adopted. No more than approximately 80 numbers of temporary marine piles should be installed in the ALE sea channel during the construction phase. The dimension of each temporary marine pile should be 800mm nominal diameter. These piles should be driven into position and internal space should not be excavated, i.e. left as soil. No dredging or soil /sediment excavation should be carried out. Marine piles would be removed by reverse driving.	At work sites / during construction phase	Only Stages 1 & 2 marine piling works have commenced and relevant environmental measures were implemented
Water Quality	Two layers of silt curtain should be installed around each of the marine piling and pile extraction locations. The proposed silt curtain should be extended to seabed with sinker blocks and regularly inspected and maintained to ensure it is serviceable.	At marine work sites and nearby seawater intakes / during marine piling and marine pile extraction	Δ

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	All marine works should be carried out in a controlled manner such that release of sediments into the marine environment would be minimized. All wastewater generated from the piling activities should be collected and be treated before controlled discharge. Spoil should also be properly collected for proper disposal.		
Water Quality	In view of the close vicinity of the seawater intakes to the work site, silt screens are recommended to be deployed at the seawater intakes shown in Figure 5.2 of the EIA report during the whole construction period. Silt screens to be provided at seawater intakes should be regularly checked and maintained to ensure that they are serviceable. Refuse collection vessel should be mobilized on a need basis to collect any floating refuse lost from/ trapped at the work site during the construction period.	At seawater intakes / during the whole construction period	√
Water Quality	Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided where necessary to intercept storm runoff from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains. Minimum distances of 100 m should be maintained between the discharge points of construction site runoff and the nearby saltwater intakes.	Works areas / construction period	Δ

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Water Quality	<p>There is a need to apply to EPD for a discharge license for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Reuse and recycling of the treated effluent can minimize water consumption and reduce the effluent discharge volume. The beneficial uses of the treated effluent may include dust suppression, wheel washing and general cleaning. It is anticipated that only a small quantity of wastewater would be generated from the works areas. Any effluent discharge from the construction activities should be diverted away from the sea channel so as to avoid adverse water quality impact. Construction works should be programmed to minimize excavation works in rainy seasons (April to September). If excavation in soil could not be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.</p>	Works areas / construction period	√
Water Quality	<p>Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.</p> <p>Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations</p>	Works areas / construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>should be discharged into storm drains via silt removal facilities.</p> <p>Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.</p> <p>Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.</p>		
Water Quality	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	Works areas / construction period	Δ
Water Quality	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Works areas / construction period	√
Water Quality	Water used in ground boring and drilling or rock /soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Works areas / construction period	Δ
Water Quality	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum.	Works areas / construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an on-line standby pump of adequate capacity and with automatic alternating devices.</p> <p>Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.</p>		
Water Quality	<p>All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads.</p> <p>A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.</p>	Works areas / construction period	√
Water Quality	<p>Bentonite slurries used in diaphragm wall and bore-pile construction should be reconditioned and reused wherever practicable. 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.</p> <p>If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.</p>	Works areas / construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.</p> <p>Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.</p> <p>Discharge of sterilization effluent should be properly pre-treated for compliance with TM/WPCO requirements, such as but not limited to total residual chlorine.</p>	Works areas / construction period	
Water Quality	<p>Effluent discharges from building construction and other construction site activities are subject to WPCO control. Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.</p> <p>Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary.</p>	Works areas / construction period	Δ
Water Quality	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters.	Works areas / construction period	No acidic wastewater will be generated.
Water Quality	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul	Works areas / construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>sewer via grease traps capable of providing at least 20 minutes retention during peak flow.</p> <p>Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptors with peak storm bypass.</p> <p>Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.</p>		
Water Quality	<p>It is recommended to provide sufficient chemical toilets in the works areas. The toilet facilities should be more than 30 m from the seafront or any watercourse. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.</p> <p>Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment. Regular environmental audit on the construction site can provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site.</p>	Works areas / construction period	√
Water Quality	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Works areas / construction period	√
Water Quality	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and	Works areas / construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.</p> <p>Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:</p> <ul style="list-style-type: none"> • suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; • chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and • storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 		
Water Quality	<p>To minimize the potential water quality impacts from the construction works located at or near the storm system or seafront, the following mitigation measures should be adopted:</p> <ul style="list-style-type: none"> • the use of less or smaller construction plants may be specified to reduce the disturbance to the seabed; • temporary sewerage system should be designed to prevent wastewater from entering the storm system and sea; • temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works; • stockpiling of construction materials and dusty materials should be covered and located away from any water courses; • construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers; • construction activities, which generate large amount of 	Works areas / construction period	Δ

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>wastewater, should be carried out in a distance away from the waterfront, where practicable;</p> <ul style="list-style-type: none"> • mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff; • construction effluent, site run-off and sewage should be properly collected and/or treated; • proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/sea; and • supervisory staff should be assigned to station on site to closely supervise and monitor the works. 		
Water Quality	If monitoring of the treated effluent quality from the Works Areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD. The contractor should submit detailed monitoring programme to EPD for approval before commencement of the construction activities.	Works areas / construction period	√
Water Quality	Monitoring of the water quality at the seawater intakes inside the ALE sea channel should be conducted.	ALE sea channel / Before construction period and during installation and removal of temporary marine piles.	√
Water Quality	All barges should be fitted with tight seals to their bottom opening to prevent leakage of materials. The decks of all vessels should be kept tidy and free of oil or other substances that might be accidentally or otherwise washed overboard. Loading of barges should be controlled to prevent splashing of materials to the surrounding environment and barges should under no circumstances be filled to a level which would cause overflowing of material or sediment laden water during loading and transportation. All barges should maintain adequate clearance between vessels and the seabed at all states of the tide and	Works areas / construction period	No barge will be required for the project.

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	should operate at a reduced speeds to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.		
Water Quality	Connection of sewage generated from the ALE will be connected to the existing public sewer. For handling, treatment and disposal of other operational stage effluent, the practices outlined in ProPECC PN 5/93 should be adopted where applicable. Consensus from DSD should be sought on technical details of the drainage and sewerage proposals.	Project site / design and construction period	Relevant works have yet to be commenced / completed
<i>Construction Phase</i>			
Waste	<p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> • nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all Wastes generated at the site; • training of site personnel in proper waste management and chemical handling procedures; • provision of sufficient waste disposal points and regular collection of waste; • appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and • regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	Work site / during the construction period	Δ
Waste	<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"> • sorting of demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (ie soil, broken concrete, metal, etc); • segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or 	Work site / during the construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>recycling of materials and their proper disposal;</p> <ul style="list-style-type: none"> encourage collection of aluminum cans by individual collectors by providing separate labeled bins to enable this waste to be segregated from other general refuse generated by the work force; proper storage and site practices to minimize the potential for damage to contamination of construction materials; and plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 		
Waste	<p><u>General Refuse</u></p> <p>General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	Work site / during the construction period	Δ
Waste	<p><u>Construction and Demolition Material</u></p> <ul style="list-style-type: none"> In order to minimize the impact resulting from collection and transportation of C&D material for off-site disposal, the C&D material from the following construction activities should be reused and recycled as far as possible to reduce the net amount of C&D material generated from the Project; a Waste Management Plan should be prepared in accordance with ETWB TCW No. 19/2005; a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed; in order to monitor the disposal of C&D and solid wastes at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be included. One may make 	Work site / during the construction period	√

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	<p>reference to ETWB TCW No.31/2004 for details;</p> <ul style="list-style-type: none"> the large amount of C&D waste generated is mainly due to the piling works of large diameter piles' excavation at the sea front site. If however marine sediment is found during pile excavation, the handling and disposal of such wastes will be managed in accordance with the requirements of the DASO and the current ETWB Tech. Circular no. 34/2002. 		
Waste	<p><u>Chemical Wastes</u></p> <p>If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the <i>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</i>. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. For this Project, the amount of chemical wastes produced would be small.</p>	Work site / during the construction period	√
<i>Operational Phase</i>			
Waste	<p><u>General Refuse</u></p> <p>Similar to the existing situation, the main waste type generated during the operation stage of the Project will be general refuse generated by the public and staff. These include waste paper, food wrappings and beverage containers. The disposal of future waste arisings generated at the HKCEC would follow the existing handling and disposal arrangement. Provided proper</p>	Work site / during the construction period	Measures not required until commencement of operational phase

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	arrangements are made with licensed contractors to collect the generated waste, adverse waste-related impact is not anticipated during the operation stage. It is expected that there will be a 5-7% increase ratio in the future operations.		
<i>Construction Phase</i>			
Landscape & Visual	Due consideration of appearance and view to 'hide' the construction through careful use of: (a) hoarding design; (b) temporary partition walls; (c) screen for hotels; and (d) temporary footbridge.	Entire works area and adjacent hotels	√
Landscape & Visual	Due consideration to protect existing trees.	Entire works area	√
Landscape & Visual	Due consideration of visual impact from construction activities: (a) construction workers access to reach construction areas without passing through hotels and existing HKCEC; and (b) construction light.	Entire works area	√
<i>Operational Phase</i>			
Landscape & Visual	Sensitive soft and hard landscape design for exposed rooftop garden and shady covered area underneath the Atrium Link Extension. Maximize greening opportunity via various in-situ planting and potted planting to achieve 30% of the roof area as planting area for the project.	Roof top and area underneath the Atrium Link Extension	Mitigation measures to be implemented during operational phase
Landscape & Visual	Sensitive building architecture to visually reduce the bulkiness of the building structure, to visually break down the scale of the facades, and to create rooftops for greening opportunities.	Building of the Atrium Link Extension	Mitigation measures to be implemented during operational phase
Landscape & Visual	Appearance and view considerations: (a) avoid industrial feel of building service elements;	Entire proposed works and adjacent hotels	Mitigation measures to be implemented during operational phase

Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	(b) interior visual screens for lower levels of the hotels; (c) consider relocation of facilities of interior spaces of hotels; and (d) careful lighting design at roofs and for building façade to avoid night-time glare.		
Landscape & Visual	Transplanting of trees to adjacent locations.	Convention Avenue	Mitigation measures to be implemented during operational phase
Landscape & Visual	Reinstatement of existing waterfront public footpaths along Convention Avenue and the existing open spaces near Fenwick Street.	Convention Avenue and Fenwick Street	Mitigation measures to be implemented during operational phase

Remark:

- √ Compliance of Mitigation Measures
- ◇ Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Hip Hing – Ngo Kee JV
- Δ Deficiency of Mitigation Measures but rectified by Hip Hing – Ngo Kee JV

Annex L

Waste Flow Table

HKCEC – Atrium Link Extension Project

Name of Project Proponent: HKTDC

Project Commencement Date: 1 Aug 2006

Construction Completion Date: March 2009

Monthly Summary Waste Flow Table for Year 2006

Year	Actual Quantities of inert C&D Materials (in 10 ³ Kg) ⁽¹⁾					Actual Quantities of C&D Wastes (in 10 ³ Kg) ⁽⁴⁾									
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Steel Materials				Paper/cardboard packaging		Chemical Waste		General refuse	Other waste
						Demolition of existing Atrium Link		Demolition of existing working platform							
	(a)	(b)	(c)	(d)	(a)-(b)-(c)-(d)	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
August	264	0	1	0	263	0	0	0	0	0	1	0	0	50	81
September	1509 ⁽²⁾	0	2	0	1507	0	0	0	0	0	1	0	0	60	215
October	1380	0	2 ⁽³⁾	0	1378	30 ⁽⁵⁾	0	0	0	0	1	0	0	55	532 ⁽⁶⁾
November	2091	0	1 ⁽³⁾	0	2090	100 ⁽⁵⁾	0	0	0	0	1.5	0	0	50	115 ⁽⁶⁾
December	1717	0	1 ⁽³⁾	0	1716	80 ⁽⁵⁾	0	0	0	0.2	0.1	0	0	60	50
Total	6961	0	7	0	6954	210	0	0	0	0.2	4.6	0	0	275	993

Note: ⁽¹⁾ Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.

⁽²⁾ Inert C&D material mainly generated from construction of foundation.

⁽³⁾ Reused for building bunds and making sand bags.

⁽⁴⁾ C&D wastes include steel materials generated from demolition, paper / cardboard packaging waste, chemical waste and other wastes such as general refuse. Wastes other than general refuse will be disposed of at Tsueng Kwan O Area 137 temporary construction waste sorting facility.

⁽⁵⁾ Waste from demolition of steel structure at existing Atrium Link of HKCEC (Phase 2).

⁽⁶⁾ Wastes include materials associated with additional and alternation (A&A) works of HKCEC (e.g. demolition of E&M equipment and finishing materials, bamboo scaffolding) and piling works.

HKCEC – Atrium Link Extension Project

Name of Project Proponent: HKTDC

Project Commencement Date: 1 Aug 2006

Construction Completion Date: March 2009

Monthly Summary Waste Flow Table for Year 2007

Year	Actual Quantities of inert C&D Materials (in 10 ³ Kg) ⁽¹⁾					Actual Quantities of C&D Wastes (in 10 ³ Kg) ⁽⁴⁾									
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Steel Materials				Paper/cardboard packaging		Chemical Waste		General refuse	Other waste
						Demolition of existing Atrium Link		Demolition of existing working platform							
	(a)	(b)	(c)	(d)	(a)-(b)-(c)-(d)	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal
January	924	0	0.5	0	923.5	90	0	0	0	0.2	0.05	0	0	60	80
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	924	-	0.5	0	923.5	90	0	0	0	0.2	0.05	0	0	60	80

Note: ⁽¹⁾ Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.

⁽²⁾ Inert C&D material mainly generated from construction of foundation.

⁽³⁾ Reused for building bunds and making sand bags.

⁽⁴⁾ C&D wastes include steel materials generated from demolition, paper / cardboard packaging waste, chemical waste and other wastes such as general refuse. Wastes other than general refuse will be disposed of at Tsung Kwan O Area 137 temporary construction waste sorting facility.

⁽⁵⁾ Waste from demolition of steel structure at existing Atrium Link of HKCEC (Phase 2).

⁽⁶⁾ Wastes include materials associated with additional and alternation (A&A) works of HKCEC (e.g. demolition of E&M equipment and finishing materials, bamboo scaffolding) and piling works.

Annex M

Construction Programme for Next Three Months

Hong Kong Convention and Exhibition Centre
Expansion Project
3 Months Rolling Programme 10Dec06 to 10March07
Based on Master Programme Rev. 1

ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline Start	Baseline Finish	3Month Rolling	Start	2006	2007
1	PROJECT WIDE	23%	26/5/2006	NA	26/5/2006	11/3/2009	1	26/5/2006	Sep	14/1/07
2	Critical Dates	23%	26/5/2006	NA	26/5/2006	11/3/2009	1	26/5/2006	Oct	Nov
3	Project Milestones	0%	26/5/2006	NA	26/5/2006	11/3/2009	1	26/5/2006	Dec	Jan
9	Commencement of Bored Pile Works	100%	11/9/2006	11/9/2006	11/9/2006	11/9/2006	1	11/9/2006	Feb	Mar
10	RIP for GBP With Fire Engineering Approval	0%	NA	NA	15/11/2006	15/11/2006	1	29/11/2006	Apr	May
11	Assembly of Steel Panel Truss A1	0%	NA	NA	23/12/2006	23/12/2006	1	23/12/2006		
52	For GL 17/A&B Columns Construction and level 10.4 west port	100%	15/9/2006	24/11/2006	15/9/2006	4/11/2006	1	15/9/2006		
53	WP Hoarding Design Preparation & Submission	100%	15/9/2006	29/9/2006	15/9/2006	29/9/2006	1	15/9/2006		
54	Design Check by Independent Checking Engineer	100%	29/9/2006	24/11/2006	29/9/2006	20/10/2006	1	29/9/2006		
55	DDR for Hoarding Plan for PM	100%	25/10/2006	6/11/2006	20/10/2006	4/11/2006	1	25/10/2006		
56	For New Pedestrian Diversion Access (Beside A1 Truss)	99%	20/9/2006	NA	20/9/2006	29/11/2006	1	20/9/2006		
57	WP Hoarding Design Preparation & Submission	100%	20/9/2006	3/11/2006	20/9/2006	2/11/2006	1	20/9/2006		
58	Design Check by Independent Checking Engineer	100%	3/11/2006	2/12/2006	3/11/2006	15/11/2006	1	3/11/2006		
59	DDR for Hoarding Plan for PM	99%	4/1/2007	NA	16/11/2006	29/11/2006	1	4/1/2007		
70	For Stage 1A (at level 1)	100%	24/7/2006	8/9/2006	24/7/2006	8/9/2006	1	24/7/2006		
71	Hoarding Design Preparation & Submission	100%	24/7/2006	8/9/2006	24/7/2006	8/9/2006	1	24/7/2006		
72	RIP/DDR by Independent Checking Engineer	100%	9/8/2006	4/9/2006	9/8/2006	4/9/2006	1	9/8/2006		
73	RIP/DDR for Hoarding Plan by PM	100%	5/9/2006	8/9/2006	5/9/2006	8/9/2006	1	5/9/2006		
74	For Stage 2 to 3 (at level 1)	70%	1/12/2006	NA	1/12/2006	16/12/2006	1	1/12/2006		
75	Hoarding Design Preparation & Submission	100%	1/12/2006	20/12/2006	1/12/2006	14/12/2006	1	1/12/2006		
76	RIP/DDR by Independent Checking Engineer	99%	22/12/2006	NA	15/12/2006	30/12/2006	1	22/12/2006		
77	RIP/DDR for Hoarding Plan by PM	0%	NA	NA	2/1/2007	15/1/2007	1	9/1/2007		
78	Temporary Working Platform over water channel (including foundation)	99%	15/8/2006	NA	15/8/2006	21/10/2006	1	15/8/2006		
79	Temp. Platform Design Preparation & Submission	100%	15/8/2006	7/9/2006	15/8/2006	7/9/2006	1	15/8/2006		
80	Design Check by Independent Checking Engineer	100%	6/9/2006	6/10/2006	6/9/2006	6/10/2006	1	6/9/2006		
81	DDR by PM	99%	12/10/2006	NA	9/10/2006	21/10/2006	1	12/10/2006		
82	DDR for Temporary Working Platform	0%	NA	NA	21/10/2006	21/10/2006	1	17/11/2006		
83	Foundation design for Temporary Pedestrian Access Platform in Phase	100%	25/8/2006	20/10/2006	25/8/2006	2/11/2006	1	25/8/2006		
84	Preparation & Submission	100%	25/8/2006	16/9/2006	25/8/2006	16/9/2006	1	25/8/2006		
85	Design Check by Design Checker	100%	16/9/2006	6/10/2006	16/9/2006	6/10/2006	1	16/9/2006		
86	DDR for Submission by PM	100%	6/10/2006	20/10/2006	9/10/2006	2/11/2006	1	6/10/2006		
115	Demolition of Existing Ablution Link	77%	6/10/2006	NA	6/10/2006	2/2/2007	1	6/10/2006		
116	BS Diversion Plan	99%	6/10/2006	NA	6/10/2006	19/12/2006	1	6/10/2006		
117	Design BS Diversion Preparation & Submission	100%	6/10/2006	25/11/2006	6/10/2006	31/10/2006	1	6/10/2006		
118	Design Check by Design Checker	100%	2/11/2006	16/12/2006	2/11/2006	2/11/2006	1	2/11/2006		
119	RIP / DDR by PM and HKCEC	99%	18/12/2006	NA	28/11/2006	19/12/2006	1	18/12/2006		
120	RIP / DDR for Diversion Plan	0%	NA	NA	19/12/2006	19/12/2006	1	11/1/2007		
121	Demolition Plan	69%	6/10/2006	NA	6/10/2006	2/2/2007	1	6/10/2006		
122	Demolition Plan Preparation & Submission	97%	5/10/2006	NA	5/10/2006	15/12/2006	1	5/10/2006		
123	Design Check by Design Checker	0%	NA	NA	16/12/2006	17/1/2007	1	16/12/2006		
124	RIP / DDR for Submission by PM	0%	NA	NA	18/1/2007	2/2/2007	1	18/1/2007		
125	RIP / DDR for Demolition Plan	0%	NA	NA	2/2/2007	2/2/2007	1	2/2/2007		
126	Heavy Lifting / Sliding System for Steel Roof Trusses	29%	23/10/2006	NA	23/10/2006	30/4/2007	1	23/10/2006		

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Task
Critical Task
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Baseline 1

Hong Kong Convention and Exhibition Centre
Expansion Project
3 Months Rolling Programme 10Dec06 to 10March07
Based on Master Programme Rev. 1

ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline1 Start	Baseline1 Finish	3Month Rolling	Start	Sen	Oct	Nov	Dec	2006	Jan	Feb	Mar	Apr	May
127	Design Preparation & Submission	98%	23/10/2006	NA	23/10/2006	14/12/2006	1	15/12/2006										
128	Design Check by Independent Checking Engineer	0%	NA	NA	15/12/2006	22/12/2006	1	15/12/2006										
129	RIP by PM	0%	NA	NA	23/12/2006	11/1/2007	1	23/12/2006										
130	RIP for Heavy Lifting Method	0%	NA	NA	11/1/2007	11/1/2007	1	11/1/2007										
135	Pontoons for Construction Works	63%	1/11/2006	NA	1/11/2006	12/12/2006	1	1/11/2006										
136	Pontoons Design Preparation & Submission	99%	1/11/2006	NA	1/11/2006	14/11/2006	1	1/11/2006										
137	Design Check by Independent Checking Engineer	0%	NA	NA	15/11/2006	28/11/2006	1	4/12/2006										
138	DDR for Pontoons by PM	0%	NA	NA	29/11/2006	12/12/2006	1	18/12/2006										
139	Tree Transplant	100%	21/7/2006	6/12/2006	21/7/2006	20/10/2006	1	21/7/2006										
140	Tree Transplant Proposal Submission to Town Planning Board	100%	21/7/2006	21/7/2006	21/7/2006	21/7/2006	1	21/7/2006										
141	Approval from Planning Department	100%	21/7/2006	6/12/2006	21/7/2006	20/10/2006	1	21/7/2006										
142	Design Submission & Approval (Permanent Works)	68%	25/8/2006	NA	25/8/2006	14/4/2007	1	25/8/2006										
143	Fire Engineering Report A	88%	8/7/2006	NA	8/7/2006	18/11/2006	1	8/7/2006										
144	Preparation of GBP and Fire Engineering Report A	100%	8/7/2006	28/8/2006	8/7/2006	29/8/2006	1	8/7/2006										
145	Submission of GBP with FER to PM	100%	29/8/2006	28/8/2006	29/8/2006	29/8/2006	1	29/8/2006										
146	1st FSC Meeting	100%	13/9/2006	13/9/2006	13/9/2006	13/9/2006	1	13/9/2006										
147	Issue of Comments from FSC	100%	14/9/2006	4/10/2006	14/9/2006	4/10/2006	1	14/9/2006										
148	Preparation and Resubmission to FSC	100%	14/9/2006	11/10/2006	14/9/2006	11/10/2006	1	14/9/2006										
149	2nd FSC Meeting	100%	15/11/2006	15/11/2006	1/11/2006	1/11/2006	1	15/11/2006										
150	Approval from FSC	0%	NA	NA	2/11/2006	15/11/2006	1	16/11/2006										
151	General Building Plan	98%	14/6/2006	NA	14/6/2006	15/11/2006	1	14/6/2006										
152	GBP Preparation & Submission	100%	14/6/2006	10/7/2006	14/6/2006	10/7/2006	1	14/6/2006										
153	1st Design Check by Design Checker	100%	11/7/2006	14/6/2006	11/7/2006	14/6/2006	1	11/7/2006										
154	GBP (Amendment) Preparation & Submission	100%	15/8/2006	8/9/2006	15/8/2006	6/9/2006	1	15/8/2006										
155	2nd Design Check by Design Checker	100%	9/9/2006	6/10/2006	9/9/2006	6/10/2006	1	9/9/2006										
156	RIP/DDR by PM	98%	15/8/2006	NA	15/8/2006	15/11/2006	1	15/8/2006										
157	Review of Modification Application by ASD	100%	3/10/2006	27/11/2006	3/10/2006	15/11/2006	1	3/10/2006										
158	RIP/DDR Approval for GBP & Amendment	0%	NA	NA	15/11/2006	15/11/2006	1	29/11/2006										
159	OTTV Calculations	72%	12/10/2006	NA	12/10/2006	8/1/2007	1	12/10/2006										
160	Preparation & Submission	100%	12/10/2006	30/12/2006	12/10/2006	4/1/2007	1	12/10/2006										
161	Design Check by Design Checker	5%	2/12/2006	NA	5/12/2006	18/12/2006	1	2/12/2006										
162	RIP/DDR by PM	0%	NA	NA	19/12/2006	6/1/2007	1	15/1/2007										
163	RIP/DDR for OTTV	0%	NA	NA	6/1/2007	6/1/2007	1	31/1/2007										
164	A&A Works for HKCEC Phase 1	78%	22/8/2006	NA	22/8/2006	30/12/2006	1	22/8/2006										
165	A&A Works Design Preparation	100%	22/8/2006	26/9/2006	22/8/2006	26/9/2006	1	22/8/2006										
166	Submission to BD	100%	11/9/2006	29/11/2006	27/9/2006	1/11/2006	1	11/9/2006										
167	Design Check by Design Checker	99%	26/9/2006	NA	27/9/2006	1/11/2006	1	26/9/2006										
168	RIP for PM	0%	NA	NA	2/11/2006	16/11/2006	1	4/12/2006										
169	RIP for A&A Plan	0%	NA	NA	16/11/2006	16/11/2006	1	18/12/2006										
170	Structural Detailed Design Preparation	100%	27/9/2006	7/11/2006	27/9/2006	29/10/2006	1	27/9/2006										
171	Submission to BD	100%	8/11/2006	4/1/2007	21/10/2006	23/11/2006	1	8/11/2006										
172	Design Check by Design Checker	99%	14/11/2006	NA	21/11/2006	23/11/2006	1	14/11/2006										
173	Consent Application	0%	NA	NA	24/11/2006	30/12/2006	1	6/12/2006										

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Task Progress Summary External Tasks Group By Summary
Critical Task Milestone Split Project Summary Baseline 1

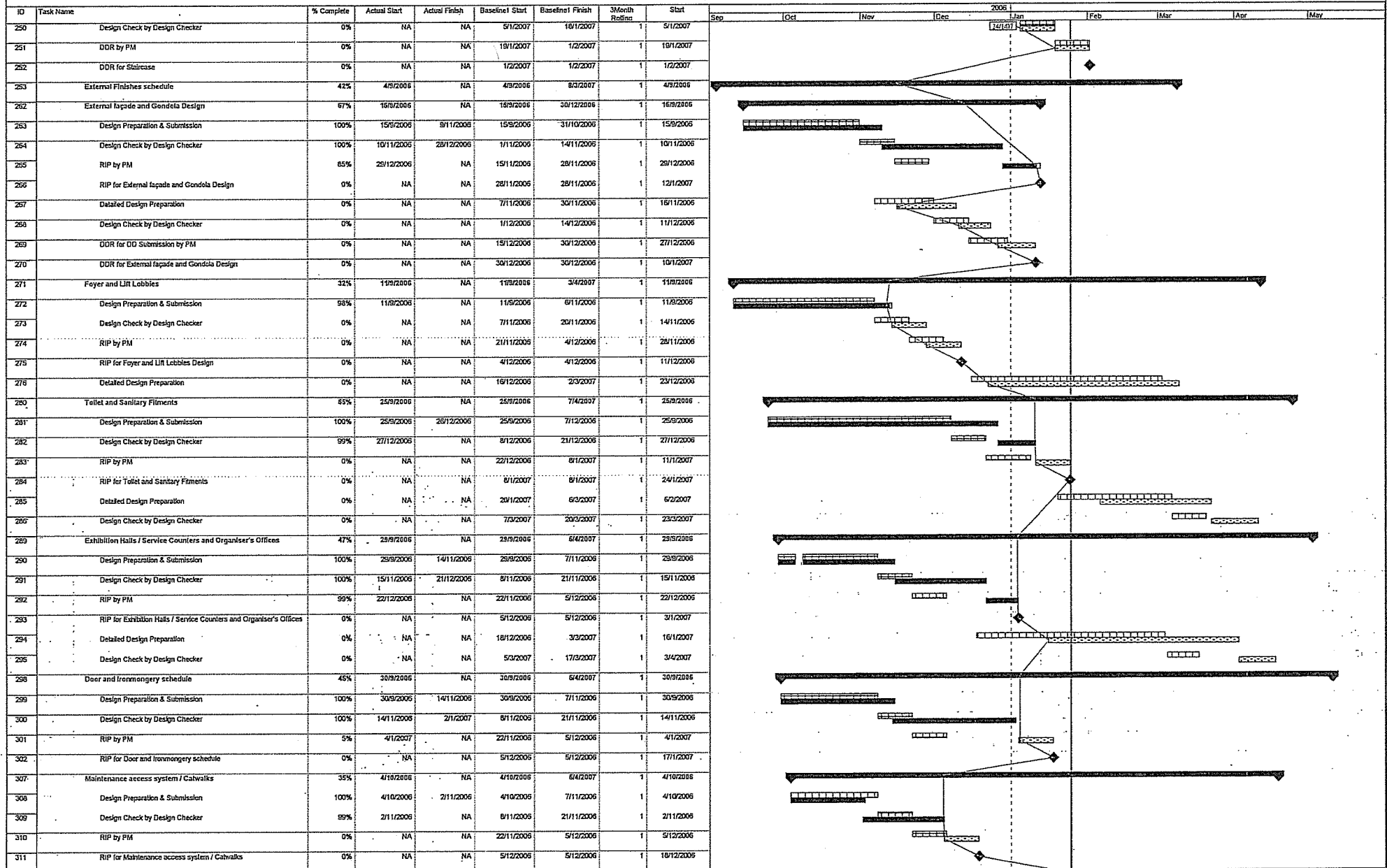
Hong Kong Convention and Exhibition Centre
Expansion Project
3 Months Rolling Programme 10Dec06 to 10March07
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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline Start	Baseline Finish	3Month Rollin	Start	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
174	DDR for Submission by PM	0%	NA	NA	27/11/2006	30/12/2006	1	8/12/2006									
176	A&A Works for HKCEC Phase 2	73%	8/9/2006	NA	8/9/2006	3/12/2007	1	8/9/2006									
177	A&A Works Design Preparation & Submission	100%	8/9/2006	20/10/2006	8/9/2006	26/10/2006	1	8/9/2006									
178	Design Check by Design Checker	100%	20/10/2006	19/12/2006	27/10/2006	7/11/2006	1	20/10/2006									
179	RIP for PM	99%	16/12/2006	NA	6/11/2006	22/11/2006	1	16/12/2006									
180	RIP by A&A Plan	0%	NA	NA	22/11/2006	22/11/2006	1	3/12/2007									
181	Detailed Design Preparation (superced by G&P Amendment Plan)	65%	17/10/2006	NA	24/10/2006	28/11/2006	1	17/10/2006									
182	Design Check by Design Checker	0%	NA	NA	29/11/2006	6/12/2006	1	8/12/2006									
183	DDR for Submission by PM	0%	NA	NA	7/12/2006	3/12/2007	1	16/12/2006									
184	DDR for A&A Plan of HKCEC Phase 2	0%	NA	NA	3/12/2007	3/12/2007	1	12/12/2007									
216	Architectural Design	43%	26/8/2006	NA	26/8/2006	14/4/2007	1	26/8/2006									
217	Internal Finishes schedule	61%	26/8/2006	NA	26/8/2006	22/2/2007	1	26/8/2006									
218	Design Preparation & Submission	100%	26/8/2006	6/10/2006	26/8/2006	6/10/2006	1	26/8/2006									
219	Design Check by Design Checker	100%	6/10/2006	6/11/2006	9/10/2006	28/10/2006	1	6/10/2006									
220	RIP by PM	100%	20/11/2006	6/12/2006	31/10/2006	23/11/2006	1	20/11/2006									
221	RIP for Internal Finishes schedule	100%	6/12/2006	6/12/2006	23/11/2006	23/11/2006	1	6/12/2006									
222	Detailed Design Preparation	99%	6/12/2006	NA	6/12/2006	14/12/2006	1	6/12/2006									
223	Design Check by Design Checker	0%	NA	NA	15/12/2006	2/1/2007	1	19/12/2006									
224	DDR by PM	0%	NA	NA	3/1/2007	22/2/2007	1	6/1/2007									
225	DDR for Internal Finishes schedule	0%	NA	NA	22/2/2007	22/2/2007	1	27/2/2007									
226	Fire curtain / Shutter and Smoke curtain schedule	83%	28/8/2006	NA	28/8/2006	27/1/2007	1	28/8/2006									
227	Design Preparation & Submission	100%	28/8/2006	14/10/2006	28/8/2006	14/10/2006	1	28/8/2006									
228	Design Check by Design Checker	100%	14/10/2006	9/12/2006	16/10/2006	28/10/2006	1	14/10/2006									
229	RIP by PM	100%	6/12/2006	28/12/2006	31/10/2006	13/11/2006	1	6/12/2006									
230	RIP for Fire curtain / Shutter and Smoke curtain schedule	100%	28/12/2006	28/12/2006	13/11/2006	13/11/2006	1	28/12/2006									
231	Detailed Design Preparation	90%	13/12/2006	NA	25/11/2006	29/12/2006	1	13/12/2006									
232	Design Check by Design Checker	0%	NA	NA	30/12/2006	13/1/2007	1	30/12/2006									
233	DDR by PM	0%	NA	NA	15/1/2007	27/1/2007	1	13/2/2007									
234	DDR for Fire curtain / Shutter and Smoke curtain schedule	0%	NA	NA	27/1/2007	27/1/2007	1	2/2/2007									
235	Staircase (AST-3 & 4)	89%	26/8/2006	NA	26/8/2006	6/12/2007	1	26/8/2006									
236	Design Preparation & Submission	100%	26/8/2006	21/10/2006	26/8/2006	20/10/2006	1	26/8/2006									
237	Design Check by Design Checker	100%	23/10/2006	21/11/2006	20/10/2006	4/11/2006	1	23/10/2006									
238	RIP by PM	100%	29/11/2006	7/12/2006	4/11/2006	18/11/2006	1	29/11/2006									
239	RIP for Staircase	100%	7/12/2006	7/12/2006	18/11/2006	18/11/2006	1	7/12/2006									
240	Detailed Design Preparation	100%	8/12/2006	29/12/2006	18/11/2006	5/12/2006	1	8/12/2006									
241	Design Check by Design Checker	99%	27/12/2006	NA	5/12/2006	19/12/2006	1	27/12/2006									
242	DDR by PM	0%	NA	NA	19/12/2006	5/1/2007	1	28/12/2006									
244	Staircase	49%	21/10/2006	NA	26/8/2006	12/2/2007	1	21/10/2006									
245	Design Preparation & Submission	100%	21/10/2006	24/11/2006	26/8/2006	7/12/2006	1	21/10/2006									
246	Design Check by Design Checker	99%	8/12/2006	NA	8/12/2006	21/12/2006	1	8/12/2006									
247	RIP by PM	0%	NA	NA	22/12/2006	4/1/2007	1	22/12/2006									
248	RIP for Staircase	0%	NA	NA	4/1/2007	4/1/2007	1	4/1/2007									
249	Detailed Design Preparation	0%	NA	NA	21/12/2006	4/1/2007	1	21/12/2006									

Project: 3 Months Rolling Programme
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Date: 10/01/2007

Task  Progress  Summary  External Tasks  Group By Summary 
Critical Task  Milestone  Split  Project Summary  Baseline 1 

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Task
Critical Task

Progress
Milestone

Summary
Split

External Tasks
Project Summary

Group By Summary
Baseline 1

Hong Kong Convention and Exhibition Centre
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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline Start	Baseline Finish	3Month Retire	Start		Sep	Oct	Nov	Dec	2006	Jan	Feb	Mar	Apr	May
316	Acoustic Operable Partition	64%	25/9/2006	NA	25/9/2006	5/12/2006	1	25/9/2006											
317	Design Preparation & Submission	100%	25/9/2006	25/10/2006	25/9/2006	7/11/2006	1	25/9/2006											
318	Design Check by Design Checker	100%	2/11/2006	23/11/2006	8/11/2006	21/11/2006	1	2/11/2006											
319	RIP by PM	100%	25/11/2006	16/12/2006	23/11/2006	5/12/2006	1	25/11/2006											
325	Miscellaneous Package I	32%	7/12/2006	NA	7/12/2006	16/2/2007	1	7/12/2006											
326	Design Preparation & Submission	85%	7/12/2006	NA	7/12/2006	19/1/2007	1	7/12/2006											
327	Design Check by Design Checker	0%	NA	NA	20/1/2007	2/2/2007	1	20/1/2007											
328	RIP by PM	0%	NA	NA	3/2/2007	16/2/2007	1	3/2/2007											
329	RIP for Miscellaneous Package I	0%	NA	NA	16/2/2007	16/2/2007	1	16/2/2007											
330	Detailed Design Preparation	0%	NA	NA	7/2/2007	7/2/2007	1	7/2/2007											
348	Signage	41%	24/10/2006	NA	24/10/2006	7/1/2007	1	24/10/2006											
349	Schematic Design Preparation & Submission	90%	24/10/2006	NA	24/10/2006	5/1/2007	1	24/10/2006											
350	Design Check by Design Checker	0%	NA	NA	6/1/2007	19/1/2007	1	6/1/2007											
351	RIP by PM	0%	NA	NA	20/1/2007	2/2/2007	1	20/1/2007											
357	Electronic Signage	41%	24/10/2006	NA	24/10/2006	7/1/2007	1	24/10/2006											
358	Schematic Design Preparation & Submission	90%	24/10/2006	NA	24/10/2006	5/1/2007	1	24/10/2006											
359	Design Check by Design Checker	0%	NA	NA	6/1/2007	19/1/2007	1	6/1/2007											
360	RIP by PM	0%	NA	NA	20/1/2007	2/2/2007	1	20/1/2007											
366	Miscellaneous Package II (Provisional Item)	0%	NA	NA	6/12/2006	13/1/2007	1	6/12/2006											
367	Confirmation of Provisional Item by PM	0%	NA	NA	6/12/2006	6/12/2006	1	6/12/2006											
368	Schematic Design Preparation & Submission	0%	NA	NA	7/12/2006	19/1/2007	1	7/12/2006											
369	Design Check by Design Checker	0%	NA	NA	20/1/2007	26/1/2007	1	20/1/2007											
370	RIP by PM	0%	NA	NA	27/1/2007	12/2/2007	1	27/1/2007											
376	AAA Works Details for Phase I	28%	25/11/2006	NA	25/11/2006	8/2/2007	1	25/11/2006											
381	AAA Works Details for Phase II	13%	2/12/2006	NA	2/12/2006	15/2/2007	1	2/12/2006											
388	Landscape Works	14%	16/10/2006	NA	16/10/2006	14/1/2007	1	16/10/2006											
387	Landscape Master Plan Preparation & Submission	99%	16/10/2006	NA	16/10/2006	7/12/2006	1	16/10/2006											
389	Design Check by Design Checker	0%	NA	NA	8/12/2006	21/12/2006	1	8/12/2006											
390	RIP by PM	0%	NA	NA	22/12/2006	8/1/2007	1	22/12/2006											
391	RIP for Landscaping Master Plan	0%	NA	NA	8/1/2007	8/1/2007	1	8/1/2007											
392	Landscape Master Plan Detail Design Preparation & Submission	0%	NA	NA	9/1/2007	5/3/2007	1	9/1/2007											
393	Design Check by Design Checker	0%	NA	NA	6/3/2007	19/3/2007	1	6/3/2007											
394	DDR for landscape master plan by PM	0%	NA	NA	20/3/2007	6/4/2007	1	20/3/2007											
395	DDR for Landscaping Master Plan	0%	NA	NA	6/4/2007	6/4/2007	1	6/4/2007											
396	Planting schedule/Material Plans RIP Design Preparation	0%	NA	NA	20/12/2006	5/1/2007	1	20/12/2006											
411	Details Design Review	71%	7/6/2006	NA	7/6/2006	2/2/2007	1	7/6/2006											
412	Roof Trusses (including Bearing Design)	83%	7/6/2006	NA	7/6/2006	7/11/2006	1	7/6/2006											
413	Detailed Design Preparation	99%	7/6/2006	NA	7/6/2006	14/9/2006	1	7/6/2006											
414	Design Check by Design Checker	99%	15/9/2006	NA	15/9/2006	20/10/2006	1	15/9/2006											
415	DDR for DD Submission by PM	0%	NA	NA	20/10/2006	7/11/2006	1	8/11/2006											
416	DDR for Structural Plan	0%	NA	NA	7/11/2006	7/11/2006	1	24/11/2006											
417	R.C. Mega Columns A1-A	100%	3/10/2006	27/12/2006	3/10/2006	17/11/2006	1	3/10/2006											
418	Detailed Design Preparation	100%	3/10/2006	19/10/2006	3/10/2006	20/10/2006	1	3/10/2006											

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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline Start	Baseline Finish	3Month Rolling	Start	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
419	Design Check by Design Checker	100%	20/10/2006	7/12/2006	20/10/2006	2/11/2006	1	20/10/2006					24/11/07				
420	DDR Submission by PM	100%	8/12/2006	27/12/2006	2/11/2006	17/11/2006	1	8/12/2006									
421	DDR for Structural Plan	100%	27/12/2006	27/12/2006	17/11/2006	17/11/2006	1	27/12/2006									
422	R.C. Mega Columns (Remaining Area)	85%	4/10/2006	NA	4/10/2006	27/11/2006	1	4/10/2006									
423	Detailed Design Preparation	100%	4/10/2006	12/12/2006	4/10/2006	28/10/2006	1	4/10/2006									
424	Design Check by Design Checker	95%	13/12/2006	NA	31/10/2006	13/11/2006	1	13/12/2006									
425	DDR Submission by PM	0%	NA	NA	14/11/2006	27/11/2006	1	29/12/2006									
426	DDR for Structural Plan	0%	NA	NA	27/11/2006	27/11/2006	1	12/1/2007									
427	Floor Structure (Grid A1-A/16-25)	94%	8/9/2006	NA	8/9/2006	10/11/2006	1	8/9/2006									
428	Detailed Design Preparation	100%	8/9/2006	12/10/2006	8/9/2006	14/10/2006	1	8/9/2006									
429	Design Check by Design Checker	100%	13/10/2006	21/12/2006	18/10/2006	28/10/2006	1	13/10/2006									
430	DDR Submission by PM	50%	22/12/2006	NA	27/10/2006	10/11/2006	1	22/12/2006									
431	DDR for Structural Plan	0%	NA	NA	10/11/2006	10/11/2006	1	8/1/2007									
432	Floor Structure (Remaining Area)	65%	13/10/2006	NA	13/10/2006	18/12/2006	1	13/10/2006									
433	Detailed Design Preparation	95%	13/10/2006	NA	13/10/2006	10/12/2006	1	13/10/2006									
434	Design Check by Design Checker	0%	NA	NA	18/12/2006	3/1/2007	1	18/12/2006									
435	DDR Submission by PM	0%	NA	NA	4/1/2007	18/1/2007	1	4/1/2007									
436	DDR for Structural Plan	0%	NA	NA	18/1/2007	18/1/2007	1	18/1/2007									
437	R.C. structure including M.J. detail (A1-A)	90%	13/9/2006	NA	13/9/2006	27/11/2006	1	13/9/2006									
438	Detailed Design Preparation	100%	13/9/2006	30/10/2006	13/9/2006	30/10/2006	1	13/9/2006									
439	Design Check by Design Checker	100%	31/10/2006	28/12/2006	31/10/2006	13/11/2006	1	31/10/2006									
440	DDR Submission by PM	15%	29/12/2006	NA	14/11/2006	27/11/2006	1	29/12/2006									
441	DDR for Structural Plan	0%	NA	NA	27/11/2006	27/11/2006	1	12/1/2007									
442	R.C. structure including M.J. detail (Remaining)	65%	7/11/2006	NA	7/11/2006	8/12/2006	1	7/11/2006									
443	Detailed Design Preparation	99%	7/11/2006	NA	7/11/2006	7/12/2006	1	7/11/2006									
444	Design Check by Design Checker	0%	NA	NA	8/12/2006	21/12/2006	1	8/12/2006									
445	DDR Submission by PM	0%	NA	NA	22/12/2006	5/1/2007	1	22/12/2006									
446	DDR for Structural Plan	0%	NA	NA	5/1/2007	5/1/2007	1	5/1/2007									
452	Stage 1 A&A Works for Existing Atrium Link	55%	17/10/2006	NA	17/10/2006	28/12/2006	1	17/10/2006									
457	Stage 2 (Refer Demolition Plan)	50%	5/10/2006	NA	5/10/2006	2/2/2007	1	5/10/2006									
469	BS Design	86%	14/6/2006	NA	14/6/2006	8/2/2007	1	14/6/2006									
469	BS - HVAC	90%	14/7/2006	NA	14/7/2006	18/12/2006	1	14/7/2006									
470	Review in Principle	99%	14/7/2006	NA	14/7/2006	22/11/2006	1	14/7/2006									
471	Stage 1	100%	14/7/2006	9/10/2006	14/7/2006	9/10/2006	1	14/7/2006									
472	Schematic Design of All HVAC Installation Preparation &	100%	14/7/2006	16/8/2006	14/7/2006	16/8/2006	1	14/7/2006									
473	Design Check by Design Checker	100%	17/8/2006	15/9/2006	17/8/2006	15/9/2006	1	17/8/2006									
474	RIP by PM	100%	18/9/2006	9/10/2006	18/9/2006	9/10/2006	1	18/9/2006									
475	RIP for Schematic Design	100%	9/10/2006	9/10/2006	9/10/2006	9/10/2006	1	9/10/2006									
476	Stage 2	98%	16/8/2006	NA	16/8/2006	22/11/2006	1	16/8/2006									
477	Preliminary HVAC Installation Preparation & Submission	100%	16/8/2006	16/8/2006	16/8/2006	16/9/2006	1	16/8/2006									
478	Design Check by Design Checker	100%	21/9/2006	15/12/2006	15/9/2006	31/10/2006	1	21/9/2006									
479	RIP by PM	85%	16/12/2006	NA	1/11/2006	22/11/2006	1	16/12/2006									
480	RIP for Schematic Design	0%	NA	NA	22/11/2006	22/11/2006	1	10/1/2007									

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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline1 Start	Baseline1 Finish	3 Month Rolling	Start	Sep	Oct	Nov	Dec	2006	Jan	Feb	Mar	Apr	May
481	Details Design Review	76%	6/9/2006	NA	6/9/2006	18/1/2007	1	6/9/2006										
482	Detailed Design Preparation	100%	5/9/2006	25/11/2006	5/9/2006	25/11/2006	1	5/9/2006										
483	Design Check by Design Checker	65%	27/11/2006	NA	29/11/2006	27/12/2006	1	27/11/2006										
484	DDR for HVAC Submission by PM	0%	NA	NA	28/12/2006	18/1/2007	1	23/12/2006										
485	DDR for HVAC	0%	NA	NA	18/1/2007	18/1/2007	1	18/1/2007										
486	BS - Electrical	91%	28/7/2006	NA	28/7/2006	12/1/2007	1	28/7/2006										
487	Review In Principle	100%	28/7/2006	2/11/2006	28/7/2006	22/11/2006	1	28/7/2006										
488	Stage 1	100%	28/7/2006	6/10/2006	28/7/2006	6/10/2006	1	28/7/2006										
489	Electrical System Design Preparation & Submission	100%	28/7/2006	25/8/2006	28/7/2006	25/8/2006	1	28/7/2006										
490	Design Check by Design Checker	100%	25/8/2006	15/9/2006	25/8/2006	15/9/2006	1	25/8/2006										
491	RIP by PM	100%	16/9/2006	6/10/2006	16/9/2006	6/10/2006	1	16/9/2006										
492	RIP for Electrical System Design	100%	6/10/2006	6/10/2006	6/10/2006	6/10/2006	1	6/10/2006										
493	Stage 2	100%	25/8/2006	2/11/2006	25/8/2006	22/11/2006	1	25/8/2006										
494	Electrical Layouts Preparation & Submission	100%	25/8/2006	25/9/2006	25/8/2006	25/9/2006	1	25/8/2006										
495	Design Check by Design Checker	100%	25/9/2006	28/10/2006	25/9/2006	31/10/2006	1	25/9/2006										
496	RIP by PM	100%	31/10/2006	21/11/2006	1/11/2006	22/11/2006	1	31/10/2006										
497	RIP for Electrical Layouts	100%	21/11/2006	21/11/2006	22/11/2006	22/11/2006	1	21/11/2006										
498	Details Design Review	80%	25/9/2006	NA	25/9/2006	12/1/2007	1	25/9/2006										
499	Detailed Design Preparation	100%	25/9/2006	22/12/2006	25/9/2006	23/11/2006	1	25/9/2006										
500	Design Check by Design Checker	60%	27/12/2006	NA	24/11/2006	19/12/2006	1	27/12/2006										
501	DDR for Electrical Submission by PM	0%	NA	NA	20/12/2006	12/1/2007	1	23/12/2006										
502	DDR for Electrical	0%	NA	NA	12/1/2007	12/1/2007	1	12/2/2007										
503	BS - Lift and Escalator	85%	19/7/2006	NA	19/7/2006	23/12/2006	1	19/7/2006										
504	Schematic Design Preparation & Submission	100%	19/7/2006	28/8/2006	19/7/2006	25/8/2006	1	19/7/2006										
505	Design Check by Design Checker	100%	30/8/2006	13/9/2006	30/8/2006	13/9/2006	1	30/8/2006										
506	RIP by PM	100%	14/9/2006	4/10/2006	14/9/2006	4/10/2006	1	14/9/2006										
507	RIP for Schematic Design	100%	4/10/2006	10/10/2006	4/10/2006	4/10/2006	1	4/10/2006										
508	Detailed Design Preparation	100%	2/10/2006	2/12/2006	2/10/2006	4/11/2006	1	2/10/2006										
509	Design Check by Design Checker	75%	4/12/2006	NA	6/11/2006	1/12/2006	1	4/12/2006										
510	DDR for Lift and Escalator Submission by PM	0%	NA	NA	2/12/2006	23/12/2006	1	3/1/2007										
511	DDR for Lift and Escalator	0%	NA	NA	23/12/2006	23/12/2006	1	24/1/2007										
512	BS - Fire Services	92%	14/6/2006	NA	14/6/2006	13/1/2007	1	14/6/2006										
513	Review In Principle	100%	14/6/2006	15/12/2006	14/6/2006	17/11/2006	1	14/6/2006										
514	Stage 1	100%	14/6/2006	9/10/2006	14/6/2006	9/10/2006	1	14/6/2006										
515	Schematic Design Preparation & Submission	100%	14/6/2006	23/8/2006	14/6/2006	23/8/2006	1	14/6/2006										
516	Design Check by Design Checker	100%	24/8/2006	18/9/2006	24/8/2006	16/9/2006	1	24/8/2006										
517	RIP by PM	100%	18/9/2006	9/10/2006	18/9/2006	9/10/2006	1	18/9/2006										
518	RIP for Schematic Design	100%	9/10/2006	9/10/2006	9/10/2006	9/10/2006	1	9/10/2006										
519	Stage 2	100%	28/8/2006	15/12/2006	28/8/2006	17/11/2006	1	28/8/2006										
520	Preliminary Fire Services Layouts Preparation & Submission	100%	28/8/2006	28/9/2006	28/8/2006	28/9/2006	1	28/8/2006										
521	Design Check by Design Checker	100%	29/9/2006	29/11/2006	29/9/2006	29/10/2006	1	29/9/2006										
522	RIP by PM	100%	27/11/2006	15/12/2006	27/10/2006	17/11/2006	1	27/11/2006										
523	RIP for Preliminary Fire Services Layouts Design	100%	15/12/2006	15/12/2006	17/11/2006	17/11/2006	1	15/12/2006										

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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline Start	Baseline Finish	3Month Retire	Start	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
524	Details Design Review	66%	3/11/2006	NA	27/10/2006	13/11/2006	1	3/11/2006									
525	Detailed Design Preparation	100%	3/11/2006	24/11/2006	27/10/2006	23/11/2006	1	3/11/2006									
526	Design Check by Design Checker	85%	27/11/2006	NA	24/11/2006	21/12/2006	1	27/11/2006									
527	DDR for Fire Services Submission by PM	0%	NA	NA	23/12/2006	13/1/2007	1	27/11/2006									
528	DDR for Fire Services	0%	NA	NA	13/1/2007	13/1/2007	1	16/1/2007									
529	BS - Plumbing and Drainage	87%	20/6/2006	NA	20/6/2006	30/1/2007	1	20/6/2006									
530	Review in Principle	100%	20/6/2006	27/11/2006	20/6/2006	30/11/2006	1	20/6/2006									
531	Stage 1	100%	20/6/2006	15/8/2006	20/6/2006	15/8/2006	1	20/6/2006									
532	Schematic Design Preparation & Submission	100%	20/6/2006	18/7/2006	20/6/2006	18/7/2006	1	20/6/2006									
533	Design Check by Design Checker	100%	19/7/2006	31/7/2006	19/7/2006	31/7/2006	1	19/7/2006									
534	RIP by PM	100%	1/8/2006	15/8/2006	1/8/2006	15/8/2006	1	1/8/2006									
535	RIP for Schematic Design	100%	15/8/2006	15/8/2006	15/8/2006	15/8/2006	1	15/8/2006									
536	Stage 2	100%	17/7/2006	27/11/2006	17/7/2006	30/11/2006	1	17/7/2006									
537	Preliminary Plumbing and Drainage Layouts Design Prep	100%	17/7/2006	9/10/2006	17/7/2006	9/10/2006	1	17/7/2006									
538	Design Check by Design Checker	100%	12/10/2006	6/11/2006	12/10/2006	9/11/2006	1	12/10/2006									
539	RIP by PM	100%	6/11/2006	27/11/2006	10/11/2006	30/11/2006	1	6/11/2006									
540	RIP for Preliminary Plumbing and Drainage Layouts Design	100%	27/11/2006	27/11/2006	30/11/2006	30/11/2006	1	27/11/2006									
541	Details Design Review	62%	7/11/2006	NA	10/11/2006	30/1/2007	1	7/11/2006									
542	Detailed Design Preparation	100%	7/11/2006	22/12/2006	10/11/2006	9/12/2006	1	7/11/2006									
543	Design Check by Design Checker	50%	27/12/2006	NA	11/1/2007	6/1/2007	1	27/12/2006									
544	DDR for Plumbing and Drainage Submission by PM	0%	NA	NA	8/1/2007	30/1/2007	1	22/1/2007									
545	DDR for Plumbing and Drainage	0%	NA	NA	30/1/2007	30/1/2007	1	13/2/2007									
546	BS - Extra Low Voltage	89%	21/7/2006	NA	21/7/2006	17/1/2007	1	21/7/2006									
547	Review in Principle	100%	21/7/2006	29/11/2006	21/7/2006	21/11/2006	1	21/7/2006									
548	Stage 1	100%	21/7/2006	3/10/2006	21/7/2006	3/10/2006	1	21/7/2006									
549	Schematic Design Preparation & Submission	100%	21/7/2006	24/8/2006	21/7/2006	24/8/2006	1	21/7/2006									
550	Design Check by Design Checker	100%	25/8/2006	12/9/2006	25/8/2006	12/9/2006	1	25/8/2006									
551	RIP by PM	100%	13/9/2006	3/10/2006	13/9/2006	3/10/2006	1	13/9/2006									
552	RIP for Schematic Design	100%	3/10/2006	3/10/2006	3/10/2006	3/10/2006	1	3/10/2006									
553	Stage 2	100%	10/8/2006	29/11/2006	10/8/2006	21/11/2006	1	10/8/2006									
554	Preliminary ELV Layout Design Preparation & Submission	100%	10/8/2006	30/9/2006	10/8/2006	30/9/2006	1	10/8/2006									
555	Design Check by Design Checker	100%	30/9/2006	9/11/2006	30/9/2006	31/10/2006	1	30/9/2006									
556	RIP by PM	100%	10/11/2006	29/11/2006	1/11/2006	21/11/2006	1	10/11/2006									
557	RIP for Preliminary ELV Layout Design	100%	29/11/2006	29/11/2006	21/11/2006	21/11/2006	1	29/11/2006									
558	Details Design Review	62%	11/11/2006	NA	11/11/2006	17/1/2007	1	11/11/2006									
559	Detailed Design Preparation	100%	11/11/2006	12/12/2006	1/11/2006	28/11/2006	1	11/11/2006									
560	Design Check by Design Checker	65%	12/12/2006	NA	29/11/2006	23/12/2006	1	12/12/2006									
561	DDR for Low Voltage Submission by PM	0%	NA	NA	27/12/2006	17/1/2007	1	10/1/2007									
562	DDR for Low Voltage	0%	NA	NA	17/1/2007	17/1/2007	1	30/1/2007									
563	BS - Telecommunication Installation	87%	30/6/2006	NA	30/6/2006	18/12/2006	1	30/6/2006									
564	Review in Principle	100%	30/6/2006	17/10/2006	30/6/2006	3/10/2006	1	30/6/2006									
565	Stage 1 & 2	100%	30/6/2006	17/10/2006	30/6/2006	3/10/2006	1	30/6/2006									
566	Schematic Design Preparation & Submission	100%	30/6/2006	25/8/2006	30/6/2006	25/8/2006	1	30/6/2006									

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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline1 Start	Baseline1 Finish	3Month Rolling	Start	End
567	Design Check by Design Checker	100%	25/9/2006	11/9/2006	26/9/2006	11/9/2006	1	25/9/2006	
568	RIP by PM	100%	12/9/2006	17/10/2006	12/9/2006	3/10/2006	1	12/9/2006	
569	RIP for Schematic Design	100%	17/10/2006	17/10/2006	3/10/2006	3/10/2006	1	17/10/2006	
570	Details Design Review	76%	14/9/2006	NA	14/9/2006	18/12/2006	1	14/9/2006	
571	Detailed Design Preparation	100%	14/9/2006	11/12/2006	14/9/2006	30/10/2006	1	14/9/2006	
572	Design Check by Design Checker	65%	11/12/2006	NA	31/10/2006	27/11/2006	1	11/12/2006	
573	DDR for Submission by PM	0%	NA	NA	28/11/2006	18/12/2006	1	11/1/2007	
574	DDR for Telecommunication Plan	0%	NA	NA	18/12/2006	18/12/2006	1	31/1/2007	
575	BS - Diversion Plan for Pedestrian Tunnel	91%	11/10/2006	NA	11/10/2006	27/12/2006	1	11/10/2006	
576	RIP/DDR Review	91%	11/10/2006	NA	11/10/2006	27/12/2006	1	11/10/2006	
577	Design Preparation	100%	11/10/2006	15/11/2006	11/10/2006	4/11/2006	1	11/10/2006	
578	Design Check by Design Checker	100%	16/11/2006	16/12/2006	6/11/2006	2/12/2006	1	16/11/2006	
579	RIP/DDR for Submission by PM	65%	16/12/2006	NA	4/12/2006	27/12/2006	1	16/12/2006	
580	RIP/DDR for Pedestrian Tunnel	0%	NA	NA	27/12/2006	27/12/2006	1	10/1/2007	
581	BS - Diversion Plan for A&A Works at Phase I	69%	11/10/2006	NA	11/10/2006	8/2/2007	1	11/10/2006	
582	RIP/DDR Review	69%	11/10/2006	NA	11/10/2006	8/2/2007	1	11/10/2006	
583	Design Preparation	100%	11/10/2006	18/12/2006	11/10/2006	16/12/2006	1	11/10/2006	
584	Design Check by Design Checker	50%	18/12/2006	NA	18/12/2006	17/1/2007	1	18/12/2006	
585	RIP/DDR for Submission by PM	0%	NA	NA	18/1/2007	8/2/2007	1	19/1/2007	
586	RIP/DDR for A&A Works at Phase I	0%	NA	NA	8/2/2007	8/2/2007	1	9/2/2007	
587	BS - Diversion Plan for A&A Works at Phase II	80%	11/10/2006	NA	11/10/2006	19/12/2006	1	11/10/2006	
588	RIP/DDR Review	80%	11/10/2006	NA	11/10/2006	19/12/2006	1	11/10/2006	
589	Design Preparation	95%	11/10/2006	NA	11/10/2006	30/10/2006	1	11/10/2006	
590	Design Check by Design Checker	0%	NA	NA	31/10/2006	27/11/2006	1	1/12/2006	
591	RIP/DDR for Submission by PM	0%	NA	NA	28/11/2006	19/12/2006	1	2/1/2007	
592	RIP/DDR for A&A Works at Phase II	0%	NA	NA	19/12/2006	19/12/2006	1	23/1/2007	
615	Pontoons for Construction Works	84%	13/10/2006	NA	16/11/2006	15/1/2007	1	13/10/2006	
616	Submission to Marine Department	100%	13/10/2006	13/10/2006	15/11/2006	15/11/2006	1	13/10/2006	
617	Review By Marine Department	100%	14/10/2006	13/11/2006	15/11/2006	19/12/2006	1	14/10/2006	
618	Approval by Marine Department	100%	13/11/2006	13/11/2006	19/12/2006	19/12/2006	1	13/11/2006	
619	Material Procurement & Delivery	100%	14/11/2006	29/12/2006	15/11/2006	30/12/2006	1	14/11/2006	
620	Commencement to assemble on Site	0%	NA	NA	30/12/2006	30/12/2006	1	29/12/2006	
621	Assemble Pontoon on Site	0%	NA	NA	2/1/2007	15/1/2007	1	30/12/2006	
622	Steel Piles	100%	29/9/2006	5/10/2006	29/9/2006	5/10/2006	1	29/9/2006	
623	Procure Materials (Marine Pile)	100%	8/9/2006	5/10/2006	8/9/2006	5/10/2006	1	8/9/2006	
624	Procure Materials (Pre-bored H Pile)	100%	29/9/2006	29/9/2006	29/9/2006	29/9/2006	1	29/9/2006	
625	Structural Steel Works	34%	7/6/2006	NA	7/6/2006	22/11/2007	1	7/6/2006	
626	Place Ordering of Materials from Steel Mills	100%	7/6/2006	29/6/2006	7/6/2006	29/6/2006	1	7/6/2006	
627	Material Procurement & Delivery	60%	7/6/2006	NA	7/6/2006	7/11/2007	1	7/6/2006	
628	Shop Drawing Submission & Approval	65%	13/10/2006	NA	13/10/2006	12/12/2006	1	13/10/2006	
629	First Delivery to Fabrication Yards	0%	NA	NA	1/12/2006	1/12/2006	1	1/12/2006	
630	Fabrication of Structural Steel Works	3%	1/12/2006	NA	1/12/2006	22/11/2007	1	1/12/2006	
649	Bearing for Steel Truss	12%	12/10/2006	NA	7/11/2006	1/2/2007	1	12/10/2006	

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Progress
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Baseline 1

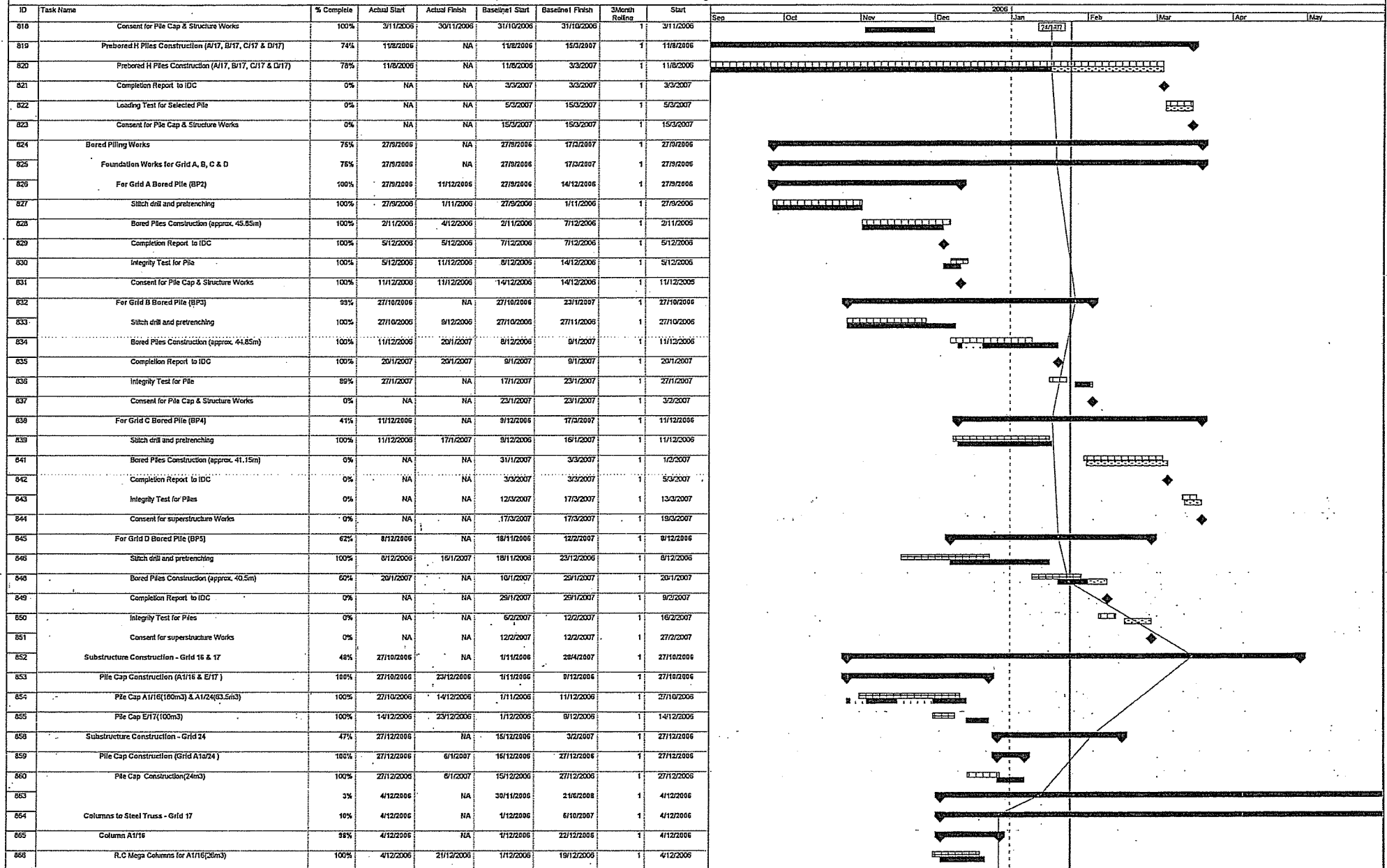
Hong Kong Convention and Exhibition Centre
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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline Start	Baseline Finish	3Month Rolling	Start	Dec	Jan	Feb	Mar	Apr	May
650	Shop Drawing Submission & Approval(2/11)	12%	12/10/2006	NA	23/11/2006	9/12/2006	1	12/10/2006						
651	Bearing Procurement and Delivery(2/11)	12%	20/10/2006	NA	9/12/2006	17/2/2007	1	20/10/2006						
701	Internal Hoarding Erection at Existing Atrium Link	100%	2/8/2006	16/12/2006	2/8/2006	24/2/2007	1	2/8/2006						
702	For West Façade Removal and Structural Modification to West truss at	100%	2/8/2006	23/11/2006	2/8/2006	28/11/2006	1	2/8/2006						
703	Bamboo Scaffolding Erection (Phase 1)	100%	2/8/2006	8/8/2006	2/8/2006	8/8/2006	1	2/8/2006						
704	Hoarding Erection	100%	9/8/2006	15/9/2006	9/8/2006	15/9/2006	1	9/8/2006						
705	Bamboo Scaffolding Erection (Phase 2)	100%	6/10/2006	13/10/2006	6/10/2006	13/10/2006	1	6/10/2006						
706	Hoarding Erection	100%	24/10/2006	29/11/2006	24/10/2006	29/11/2006	1	24/10/2006						
707	For West Façade Removal and Structural Modification to West truss at	100%	6/10/2006	28/11/2006	6/10/2006	28/11/2006	1	6/10/2006						
708	Bamboo Scaffolding Erection	100%	6/10/2006	13/10/2006	6/10/2006	13/10/2006	1	6/10/2006						
709	Hoarding Erection	100%	24/10/2006	29/11/2006	24/10/2006	29/11/2006	1	24/10/2006						
710	For GL 17/A&B Columns Construction (Stage 3)	100%	6/10/2006	16/12/2006	6/12/2006	24/2/2007	1	6/10/2006						
711	Bamboo Scaffolding Erection	100%	6/10/2006	21/10/2006	6/12/2006	27/11/2007	1	6/10/2006						
712	Hoarding Erection	100%	24/10/2006	19/12/2006	9/12/2006	24/2/2007	1	24/10/2006						
745	HKCEC Phase 2 - Demolition Works (GL 16/B-E)	100%	26/7/2006	26/12/2007	26/7/2006	20/12/2007	1	26/7/2006						
746	Erect Weather Proof Hoarding / Protective measure	100%	26/7/2006	31/8/2006	26/7/2006	31/8/2006	1	26/7/2006						
747	Remove Existing Finishes & Feature	100%	1/9/2006	25/9/2006	1/9/2006	25/9/2006	1	1/9/2006						
748	Termination for Existing E&M Services	100%	11/8/2006	29/9/2006	11/8/2006	29/9/2006	1	11/8/2006						
749	Modification/Remove for External Façade	100%	30/9/2006	20/10/2006	30/9/2006	20/10/2006	1	30/9/2006						
750	Demolition of Structure for Grid 16/B-E	100%	21/10/2006	20/12/2007	21/10/2006	20/12/2007	1	21/10/2006						
758	Modification of Existing Atrium Link	20%	22/11/2006	NA	23/11/2006	21/5/2007	1	22/11/2006						
759	Removal of Existing West Glass Wall at Atrium Link	100%	22/11/2006	30/12/2006	23/11/2006	11/12/2007	1	22/11/2006						
760	Removal of Existing West Glass Wall	100%	22/11/2006	30/12/2006	23/11/2006	11/12/2007	1	22/11/2006						
787	New Atrium Link Extension	6%	27/6/2006	NA	27/6/2006	11/2/2009	1	27/6/2006						
788	Material Handling Facilities & Temporary Working Platforms	60%	18/9/2006	NA	18/9/2006	6/6/2007	1	18/9/2006						
789	East Temporary Steel Working Platform (for Roof Trusses Assemb	32%	18/9/2006	NA	18/9/2006	21/2/2007	1	18/9/2006						
790	Mini/Marine Pile Construction(Pile no. RP1 to 30, P1 to 50, VP28 to	58%	18/9/2006	NA	18/9/2006	31/1/2007	1	18/9/2006						
791	On Site fabrication of Bracing	25%	25/10/2006	NA	25/10/2006	9/3/2007	1	25/10/2006						
792	On Site fabrication of Supports	25%	28/10/2006	NA	28/10/2006	13/3/2007	1	28/10/2006						
793	Temporary Working Platform Erection	20%	2/11/2006	NA	9/11/2006	21/3/2007	1	2/11/2006						
794	Partial completion for Bored Pile(P49 to 50, RP20 to 30, VP28 to 31	100%	28/11/2006	28/11/2006	28/11/2006	28/11/2006	1	28/11/2006						
795	Completion of marine platform (approx. 480sqm)	0%	NA	NA	21/3/2007	21/3/2007	1	16/3/2007						
796	West Temporary Steel Working Platform (for A1 Panel Truss Assen	86%	27/9/2006	NA	27/9/2006	25/12/2007	1	27/9/2006						
797	Mini/Marine Pile Construction(Pile no. RP32 to 39, P59 to 60,9+27)	95%	27/9/2006	NA	27/9/2006	4/1/2007	1	27/9/2006						
798	On Site fabrication of Bracing	70%	18/10/2006	NA	18/10/2006	11/1/2007	1	18/10/2006						
799	On Site fabrication of Supports	90%	21/10/2006	NA	21/10/2006	30/12/2006	1	21/10/2006						
800	Temporary Working Platform Erection	90%	16/11/2006	NA	16/11/2006	25/1/2007	1	16/11/2006						
801	Completion of marine platform (approx. 1100sqm.)	0%	NA	NA	25/1/2007	25/1/2007	1	25/1/2007						
813	Pre-bored H Piling Works	81%	11/8/2006	NA	11/8/2006	18/2/2007	1	11/8/2006						
814	Prebored H Piles Construction (A1/16, A1/24 & E/17)	100%	11/8/2006	30/11/2006	11/8/2006	31/10/2006	1	11/8/2006						
815	Prebored H Piles Construction (A1/16 & A1/24, E/17)	100%	11/8/2006	18/10/2006	11/8/2006	18/10/2006	1	11/8/2006						
816	Completion Report to IDC	100%	18/10/2006	18/10/2006	18/10/2006	18/10/2006	1	18/10/2006						
817	Loading Test for Selected Pile	100%	19/10/2006	31/12/2006	19/10/2006	31/10/2006	1	19/10/2006						

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ID	Task Name	% Complete	Actual Start	Actual Finish	Baseline1 Start	Baseline1 Finish	3Month Rolling	Start	Sep	Oct	Nov	Dec	2006	Jan	Feb	Mar	Apr	May
867	Bearing Installation at Column A1/16	90%	22/12/2006	NA	20/12/2006	22/12/2006	1	22/12/2006										
883	Columns to Steel Truss - Grid 24	10%	14/12/2006	NA	1/12/2006	31/5/2007	1	14/12/2006										
884	Column A1/24	98%	14/12/2006	NA	1/12/2006	22/12/2006	1	14/12/2006										
885	R.C. Mega Columns for A1/24(30m3)	100%	14/12/2006	5/1/2007	12/12/2006	22/12/2006	1	14/12/2006										
886	Bearing Installation at Column A1/24	90%	5/1/2007	NA	28/12/2006	22/12/2006	1	5/1/2007										
887	Column A1a/24	10%	8/1/2007	NA	28/12/2006	24/2/2007	1	8/1/2007										
888	R.C. Mega Columns for A1a/24 (+1 to +14.4, 84m3)	30%	8/1/2007	NA	28/12/2006	15/1/2007	1	8/1/2007										
889	R.C. Mega Columns for A1a/24 (+14.4 to +51.8, 300m3)	0%	NA	NA	16/1/2007	21/2/2007	1	25/1/2007										
890	Bearing Installation at Column A1a/24	0%	NA	NA	22/2/2007	24/2/2007	1	3/3/2007										
900	Steel Roof Trusses and Superstructure	2%	28/12/2006	NA	30/11/2006	21/6/2007	1	28/12/2006										
901	Panel Truss A1	6%	28/12/2006	NA	30/11/2006	21/6/2007	1	28/12/2006										
902	Temp supporting fabrication & assembly	100%	20/12/2006	17/1/2007	NA	NA	1	20/12/2006										
903	Assembly on Steel Truss A1(807tons)	30%	23/12/2006	NA	23/12/2006	15/3/2007	1	23/12/2006										
904	Steel Structure for Grid A1 to Existing Facade Truss	0%	NA	NA	30/11/2006	21/6/2007	1	4/1/2007										
905	Level 2 +14.40	0%	NA	NA	8/1/2007	30/2/2007	1	8/1/2007										
906	Main Floor Trusses for Level 2 (8nos)	0%	NA	NA	8/1/2007	30/1/2007	1	8/1/2007										
907	Secondary Floor Trusses/Beams for Level 2 (62nos)	0%	NA	NA	31/1/2007	21/2/2007	1	31/1/2007										
908	Composite Decking Slab for Level 2(2056sqm)	0%	NA	NA	8/2/2007	27/2/2007	1	8/2/2007										
909	R.C. Wall & Staircase	0%	NA	NA	5/3/2007	30/3/2007	1	5/3/2007										
910	Level 3 +21.90	0%	NA	NA	3/2/2007	21/3/2007	1	3/2/2007										
911	Main Floor Trusses for Level 3 (3nos)	0%	NA	NA	3/2/2007	14/2/2007	1	3/2/2007										
912	Secondary Floor Trusses/Beams for Level 3 (30nos)	0%	NA	NA	10/2/2007	1/3/2007	1	10/2/2007										
913	Composite Decking Slab for Level 3(540sqm)	0%	NA	NA	28/2/2007	17/3/2007	1	28/2/2007										
943	BS Installation	0%	NA	NA	30/11/2006	19/5/2007	1	4/1/2007										
944	Approval of Disable Hydraulic Lift	0%	NA	NA	30/11/2006	30/11/2006	1	4/1/2007										
945	Disable Hydraulic Lift Installation	0%	NA	NA	23/3/2007	20/4/2007	1	19/4/2007										
946	Form 6	0%	NA	NA	19/5/2007	19/5/2007	1	14/5/2007										
947	HVAC Installation	0%	NA	NA	16/3/2007	24/4/2007	1	19/4/2007										
948	Electrical Installation	0%	NA	NA	16/3/2007	16/4/2007	1	19/4/2007										
949	FS Installation	0%	NA	NA	23/3/2007	19/4/2007	1	19/4/2007										
950	T&C	0%	NA	NA	21/4/2007	10/5/2007	1	14/5/2007										
951	Form 501 Submission	0%	NA	NA	24/4/2007	24/4/2007	1	11/5/2007										
952	Inspection	0%	NA	NA	11/5/2007	28/5/2007	1	11/5/2007										
953	Pedestrian Routing Divert to New Access	0%	NA	NA	28/5/2007	28/5/2007	1	28/5/2007										

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