

Hip Hing Joint Venture

Hong Kong Convention and
Exhibition Centre Expansion
Project:

*Quarterly Environmental Monitoring
and Audit Report
(May 2009 - Jul 2009)*

September 2009

Environmental Resources Management

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Hip Hing Joint Venture

Hong Kong Convention and
Exhibition Centre Expansion


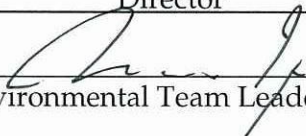
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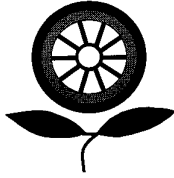
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For and on behalf of ERM-Hong Kong, Ltd
Approved by: <u>Dr. Robin Kennish</u>
Signed: <u></u>
Position: <u>Director</u>
Certified by: <u></u> (Environmental Team Leader – Marcus Ip)
Date: <u>16 September 2009</u>

This report has been prepared by 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.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.



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16 September 2009

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
Quarterly Environmental Monitoring and Audit Report for May 2009 to July 2009
(Environmental Permit No. EP-239/2006/B)

With reference to the captioned document concerning the Quarterly EM&A report for May 2009 to July 2009 received from ERM dated 15 September 2009, we are pleased to provide our verification for the document pursuant to condition 3 of the Environmental Permit (EP) No. EP-239/2006/B.

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 twelfth quarterly Environmental Monitoring and Audit (EM&A) report presenting the EM&A work carried out during this period from 1 May 2009 to 31 July 2009 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 include the application of waterproofing on internal and roof structures, the installation of façade panel/louvers, fire shutter, smoke curtain, doors, wall granite, false ceiling, HVAC, partition walls, plumbing and town gas systems, escalators, electrical and fire services system, internal cladding, carpet tiles, planters, the erection of staircases, wall fitting out works and vinyl sheet flooring works, the reinstatement of seawall parapet and promenade along Convention Avenue and Expo Drive Central, extraction of temporary marine piles, removal of temporary marine platform, installation of new traffic signs and the removal of temporary hoardings.

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	15 times
1-hour TSP monitoring	46 times
Marine water quality sampling	38 times
Joint environmental site auditing	13 times

Air Quality

Fifteen sets of 24-hour TSP monitoring and forty-six sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during this quarter. No exceedance of Action and Limit Levels was recorded at the monitoring stations during this quarter.

Marine Water Quality

Thirty eight sets of marine water quality measurements were carried out at the designated monitoring stations W3, W4 and W5 during the preparatory works for extraction of marine piles in this reporting period. A total of six exceedances of Action Level of turbidity were recorded on 22 and 25 May 2009 and 1 and 17 June 2009. Investigations indicated that these exceedances were likely due to natural fluctuation in marine water quality rather than Project work.

Construction Waste Management

The major construction activities undertaken in the reporting period were installation of marine pile, construction of marine platform and pedestrian tunnel. A total of 1575.0 tonnes of inert C&D materials and 546.94 tonnes of C&D wastes were generated during this quarter. 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. A total of 9 tonnes of steel materials were generated from works over this quarter and sent to recycler. No chemical waste was collected during the reporting period by licensed chemical waste collector.

Environmental Non-conformance

Thirteen weekly joint environmental site audits were carried out by the ET. No non-compliance event is recorded during this quarter.

No environmental complaints or summons were received during this quarter.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by Hip Hing 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 twelfth quarterly EM&A report which summarizes the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 May 2009 to 31 July 2009**.

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 Non-conformance**

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

Section 7: **Review of EM&A Data and EIA Predictions**

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

Section 8: **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 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). An Environmental Permit (EP-239/2006) for the works was granted on 12 May 2006. An application for variation of the Environmental Permit was made on 25 January 2007, an amended Environmental Permit (EP-239/2006/A) was granted on 12 February 2007. An application for further variation of the Environmental Permit was made on 18 April 2008, and an amended Environmental Permit (EP-239/2006/B) was granted on 12 May 2008. Under the requirements of Condition 3.1 of Environmental Permit EP-239/2006/B, an EM&A programme as set out in the EM&A Manual and its supplement is required to be implemented.

The construction works commenced on 1 August 2006. From the current progress of the works, it is expected that the majority of the construction works for the Project will be substantially completed towards the end of

August 2009 but the final completion date of all works is still subject to confirmation by the Contractor.

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 quarter is shown in *Table 2.1*. The locations of the construction activities are presented in *Annex B*.

Table 2.1 *Summary of Construction Activities Undertaken*

Construction Activities Undertaken
• Installation of Façade Panel/Louvre
• Installation of Partition Wall
• Erection of Staircase
• Installation of Fire Shutter
• Installation of Smoke Curtain
• Timber Door Installation
• Application of Waterproofing for Internal Structures
• Installation of Wall Granite
• Installation of False Ceiling
• Installation of HVAC
• Installation of Electrical Facilities
• Installation of Fire Services
• Installation of Plumbing and Town Gas
• Installation of Escalators
• Installation of Internal Cladding
• Wall Fitting Out Works
• Installation of Vinyl Sheet Flooring
• Installation of Carpet Tile
• Installation of Planters
• Reinstatement of Seawall Parapet
• Extraction of Temporary Marine Piles
• Removal of Temporary Marine Platform
• Installation of New Traffic Signs
• Promenade Reinstatement Works along Convention Avenue and Expo Drive Central
• Removal of Temporary Hoarding

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/B	Throughout the Contract -	Environmental Permit (EP) EP-239/2006 granted originally on 12 May 2006. Since then the EP have been varied twice. The latest revised EP was issued on 12 May 2008
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/XY 0145	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.
Valid Construction Noise Permit for area inside the Atrium Link	GW-RS0207-09 GW-RS10345-08 GW-RS0385-09	Valid from 18 Mar to 31 Jul 2009 Valid from 31 December 2008 to 31 May 2009 Valid from 31 May to 31 July 2009	

3.1 AIR QUALITY MONITORING

3.1.1 Monitoring Location

In accordance with the EM&A Manual, sampling for 24-hour and 1-hour Total Suspended Particulates (TSP) levels were conducted at the designated monitoring stations listed in *Table 3.1*. Map 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*).

Table 3.2 *TSP Monitoring Parameter and Frequency*

Parameter	Frequency
24-hour TSP	Once per every 6 days
1-hour TSP	3 times per 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 (μgm^{-3})	Limit Level (μgm^{-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-5025A
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-5025A

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-Testconsult 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-Testconsult 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 four 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 aluminium 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 adjusted 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-Testconsult 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 was calibrated using an orifice calibrator. Initial calibration of the dust monitoring equipments was conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVSs using Tisch TE-5025A Calibration Kit. The calibration records for the HVSs are given in the respective monthly reports.

3.2 MARINE 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 Marine 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	815907
W4	Wan Chai Tower/ Revenue Tower/ Immigration Tower Cooling Water Intake ^(a)	5m below the top of the existing sea wall	835944	815885
W5	Great Eagle Centre, China Resources Building Cooling Water Intake	5m below the top of the existing sea wall	835963	815886

Note:
(a) 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 marine water quality monitoring was conducted in accordance with *Table 3.6* during the period of installation and removal of temporary marine piles.

Table 3.6 Marine 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 the 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 Marine 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-foot 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 started within 24 hours after the collection of the water samples, and the testing method of SS were 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.

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.

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

Location of the Monitoring Sites

A hand-held GPS (MLR SP24) and together with a suitably scaled map were used for locating the marine 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 marine water quality monitoring. The calibration records for the monitoring instruments are given in the respective monthly reports.

4 IMPLEMENTATION STATUS OF ENVIRONMENTAL PROTECTION REQUIREMENTS

4.1 ENVIRONMENTAL SITE AUDITING

Weekly site inspections were carried out by the ET. Thirteen site inspections were conducted on 8, 15, 20 and 27 May 2009; 4, 12, 17 and 24 June 2009, and 2, 8, 15, 21 and 30 July 2009 respectively. The major construction activities undertaken in the reporting period were the construction of floor structures and interior building features. The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. There was no non-compliance event recorded in the reporting period. The implementation status of environmental mitigation and status of relevant required submissions under the EP were reported as part of the monthly EM&A reports ⁽¹⁾. Relevant submissions made on these measures and requirements during these reporting periods are summarized in *Annex E*.

4.2 EFFLUENT DISCHARGE SAMPLING

In accordance with the discharge licence issued under WPCO, water sampling should be conducted at least quarterly to ensure the quality of treated effluent at operating discharge points complies with the requirements of discharge license. During the reporting period, ⁽²⁾⁽³⁾⁽⁴⁾ effluent sample monitoring was not necessary as discharge points are not in operation.

4.3 LANDSCAPE AND VISUAL MONITORING

In accordance with *Section 6.7* of the EM&A Manual, bi-weekly landscape and visual monitoring is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures are fully achieved. The monitoring has commenced since January 2007 and is conducted by Earthasia Limited. Landscape and visual mitigation measures were implemented by the Contractor and the implementation status is given in *Annex E*.

⁽¹⁾ The Monthly EM&A Reports for May 2009, June 2009 and July 2009 were submitted to the EPD on 3 July 2009, 22 July 2009 and 3 Sept 2009 respectively.

⁽²⁾ Discharge point 1 is designated for discharge of treated effluents from plant room construction works near gate no.4 on Expo Drive Central. Effluents are no longer discharged upon completion of respective works, and therefore further effluent sampling and testing at Discharge point 1 are no longer conducted.

⁽³⁾ Discharge point 2 is designated for discharge of treated effluents from works near gate no.1 on Expo Drive Central. Effluents are no longer discharged upon completion of works in the area, and therefore no further effluent sampling are conducted.

⁽⁴⁾ Discharge point 3 is designated for discharge of treated effluents from works near the southwest corner under the atrium link extension. Effluents are no longer discharged upon completion of works in the area, and therefore no further effluent sampling are conducted.

4.4

EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING

The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimizing environmental impacts.

The EM&A for the Project was conducted as scheduled during the reporting period. No non-compliance events were observed during site audits and no exceedances were recorded during this quarter. The EM&A programme is considered effective.

5.1 AIR QUALITY

The monitoring data at AM1 and AM2 were provided by ETS-Testconsult Ltd. Fifteen sets of 24-hour and forty-six sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during this quarter. The 1-hour TSP and 24-hour TSP monitoring at AM1 on 10 June and 24-hour TSP monitoring scheduled on 21 July 2009 were disrupted by a failure of the power supply to the HVS. As a result, the monitoring sessions at AM1 were undertaken on 11 June 2009 (1-hour TSP monitoring), 13 June 2009 (24-hour TSP monitoring) and 23 July 2009 (24-hour TSP monitoring) respectively. The monitoring data for 24-hour TSP and 1-hour TSP with weather conditions and graphical presentations are presented in *Annex F*.

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.

No exceedance of Action and Limit Levels of 24-hour and 1-hour TSP was recorded at the monitoring stations during this quarter. The measured 24-hr TSP ranged from 26 - 100 μgm^{-3} at AM1 and from 25 - 110 μgm^{-3} at AM2.

5.2 MARINE WATER QUALITY

Marine water quality monitoring was conducted in the reporting period and the results of marine water quality monitoring were provided by ETS-Testconsult Ltd. Thirty-eight sets of marine water quality measurements were carried out at the designated monitoring stations W3, W4 and W5 in the reporting period during the extraction of temporary marine piles, which was started on 20 April 2009.

The monitoring data and graphical presentations are summarised in *Annex G*. The monitoring results can also be found in the web-site (<http://www.hkcecema.com/index.html>).

During the reporting period a total of six exceedances of marine water quality parameters of the monitoring stations were recorded and were summarized in *Table 5.1*. Notification of Exceedances with detailed investigation reports were issued to IEC when the exceedances were identified.

Table 5.1 Summary of Record of Exceedance recorded during the Reporting Period

Station	Record of Exceedance
W4	Exceedance of Action Level of Turbidity on 22 May 2009 during the mid-flood tide
W5	Exceedance of Action Level of Turbidity on 22 May 2009 during the mid-flood tide
W4	Exceedance of Action Level of Turbidity on 25 May 2009 during the mid-flood tide
W5	Exceedance of Action Level of Turbidity on 25 May 2009 during the mid-flood tide
W5	Exceedance of Action Level of Turbidity on 1 June 2009 during the mid-flood tide

Station	Record of Exceedance
W4	Exceedance of Action Level of Turbidity on 17 June 2009 during the mid-flood tide

Pile extraction works were observed near W4 and W5 only on 22 May 2009. No works was observed to be ongoing on 25 May 2009 in the marine channel near W4 and W5. During the monitoring sessions, no silty water was observed to be discharged from the site into the marine channel. The exceedances of Action Level of Turbidity at W4 and W5 were therefore likely due to natural fluctuation and unpleasant weather conditions.

Preparation works for paving on the promenade were observed near W5 on 1 June 2009 and no construction work was observed near W4 on 17 June 2009. On 1 June 2009, marine pile extraction works were carried out near the half-circular area of the promenade to the west of W5, but no exceedance of the action level for turbidity was recorded at station W3 and W4, which are west of station W5 and are both closer to the marine pile extraction area than W5. On 17 June 2009, no marine works were conducted in the marine channel. On both dates, no silty water was discharged from land-based works on the promenade and the marine platform into the marine channel. The exceedances of Action Level of Turbidity at W4 and W5 were therefore likely due to natural fluctuation and were unrelated to site construction activities.

In addition, the gravimetric measurement of SS samples from the above monitoring sessions in the laboratory, which is considered a more accurate and quantitative measurement, complied with the Action Level, indicating the water quality was acceptable as compared with the Action Level.

Although no further follow-up corrective actions were found to be required, the Contractor was reminded to inspect the deployed silt curtains regularly to ensure effective control of potentially silty discharges.

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 Joint Venture (*Annex H*).

With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarized in *Table 5.1*.

Table 5.2 *Quantities of Waste Generated from the Project*

Month / Year	Quantity		
	C&D Materials (inert) ^(a)	C&D Wastes (non-inert) ^(b)	Chemical Waste
May 2009	825.0 tonnes	220.32 tonnes (3 tons of steel materials were collected and recycled)	0

Month / Year	Quantity		
	C&D Materials (inert) ^(a)	C&D Wastes (non-inert) ^(b)	Chemical Waste
June 2009	400.0 tonnes	183.31 tonnes (including 3 tonnes of steel materials were collected and recycled)	0
July 2009	350.0 tonnes	143.31 tonnes (including 3 tonnes of steel materials which were collected and recycled)	0
Total	1575.0 tonnes	546.94 tonnes (including 9 tonnes steel material which were collected and recycled)	0

Notes:

- (a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil. No inert C&D materials were reused in this Project. Non-reused inert C&D materials were disposed 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 6 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.

A total of 1575.0 tonnes of inert C&D materials and 546.94 tonnes of C&D wastes were generated during the reporting period. 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. A total of 9 tonnes of steel materials from works were generated and recycled in this quarter. No chemical waste was collected during the reporting period by licensed chemical waste collector.

6 ENVIRONMENTAL NON-CONFORMANCE

6.1 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 this quarter.

Six exceedances of the Action Level of marine water quality parameters were recorded at monitoring stations during the reporting period. Details of the exceedance are summarized in *Table 5.1*.

6.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was recorded during this quarter.

6.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during this quarter.

6.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

There was no summons or prosecution on environmental matters during this quarter.

7.1 AIR QUALITY

Since qualitative assessment of dust impact was conducted during construction phase in the EIA, a comparison was made against monitoring results and the Hong Kong Air Quality Objectives (HKAQO) (*Table 7.1*).

Table 7.1 Comparison of the HKAQO and Air Quality Monitoring Results

Month	Monitoring Stations	Corresponding ASR in EIA	HKAQO,	Measured 24 hour TSP	
			μgm^{-3} 24 hour ^(a)	Average	Range ⁽²⁾
May 2009	AM1	AM8	260	82	23 – 160
	AM2	AM6	260	74	14 – 161
June 2009	AM1	AM8	260	82	23 – 160
	AM2	AM6	260	73	14 - 161
July 2009	AM1	AM8	260	81	23 – 160
	AM2	AM6	260	72	14 - 161

Notes:

(a) 24-hour TSP criterion under HKAQOs was used.

(b) Average and range of data were calculated for the period of monitoring between the commencement of the construction works and this quarter.

The monitoring results show that the average and range of 24-hour TSP levels measured since the commencement of the construction works were well below the 24-hour TSP criterion in the HKAQO. Recommended mitigation measures in *Section 4.24* of EIA were implemented throughout the construction period and were considered effective.

7.2 MARINE 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 marine water quality, hence no comparison can be made with the monitoring results.

7.3 WASTE MANAGEMENT

The estimated amount of waste generated in this project and the accumulated quantities of waste generated up to the reporting period are presented in *Table 7.2*. Recommended mitigation measures in *Sections 6.35* to *6.41* of the EIA report are implemented during the reporting period. These measures are regarded as effective.

Table 7.2 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)	Accumulated Actual Amount of C&D Materials Recorded ^(a) (inert & non-inert)
Demolition of temp. footbridge	585 tonnes	0 tonne
Demolition of existing Atrium Link	4,680 tonnes	2,681.5 tonnes
Demolition of temp. working platform	390 tonnes	0 tonne
Construction of foundations and pile caps	20,000 tonnes	27,725.4 tonnes
General Refuse	Insignificant	5985.9 tonnes
Chemical Waste	Small	288 Litres

Note:
(a) The actual amount of C&D Materials was recorded since the commencement of construction works in August 2006.

7.4 CONCLUSION OF THE REVIEW

The EIA predictions and the monitoring results since the commencement of construction works have been reviewed. The EIA concluded that the Project would not pose adverse impacts to the environment, and the monitoring results also indicated that the construction of the Project did not pose adverse impacts to the environment. Recommendations given in the EIA are also considered to be adequate and effective for minimising the environmental impacts.

This Twelfth Quarterly Environmental Monitoring and Audit (EM&A) Report presents the EM&A work undertaken during the period from 1 May 2009 to 31 July 2009 in accordance with the EM&A Manual and the requirement under EP-239/2006B.

Fifteen sets of 24-hour TSP monitoring and 46 sets of 1-hour TSP monitoring were carried out at the designated monitoring stations (AM1 & AM2) during this quarter. The 1-hour TSP and 24-hour TSP monitoring at AM1 on 10 June and 24-hour TSP monitoring scheduled on 21 July 2009 were disrupted by a failure of the power supply to the HVS. As a result, the monitoring sessions at AM1 were undertaken on 11 June 2009 (1-hr TSP monitoring), 13 June 2009 (24-hour TSP monitoring) and 23 July 2009 (24-hour TSP monitoring) respectively. No exceedance of Action and Limit Levels was recorded at the monitoring stations during this quarter.

Thirty-eight sets of marine water quality measurements were carried out at the designated monitoring stations W3, W4 and W5 in the reporting period during the extraction of temporary marine piles starting from 20 April 2009. Six exceedances of the Action Level of marine water quality parameters were recorded at monitoring stations during this quarter. Details of the exceedance are summarized in *Table 5.1*.

No non-compliance event was recorded during this quarter.

No complaint and summons/prosecution was received during this quarter.



Water sampling at discharge points was not scheduled as all discharge points are no longer used by the Contractor since May 2009.

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

Location of Works Areas

Key

-  Proposed Atrium Link Extension
-  Existing Atrium Link

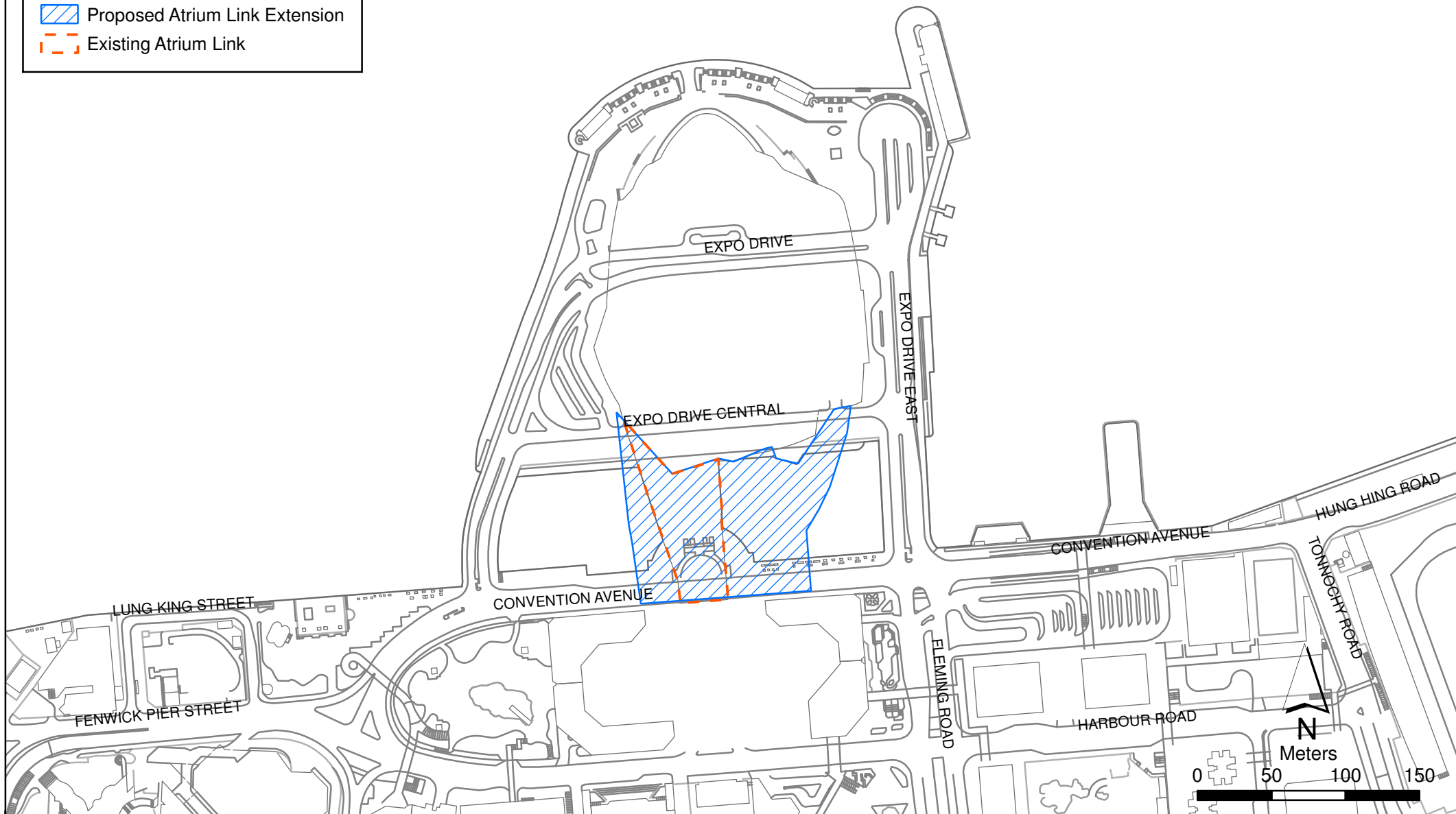


Figure A1

Location of Atrium Link Extension



Annex B

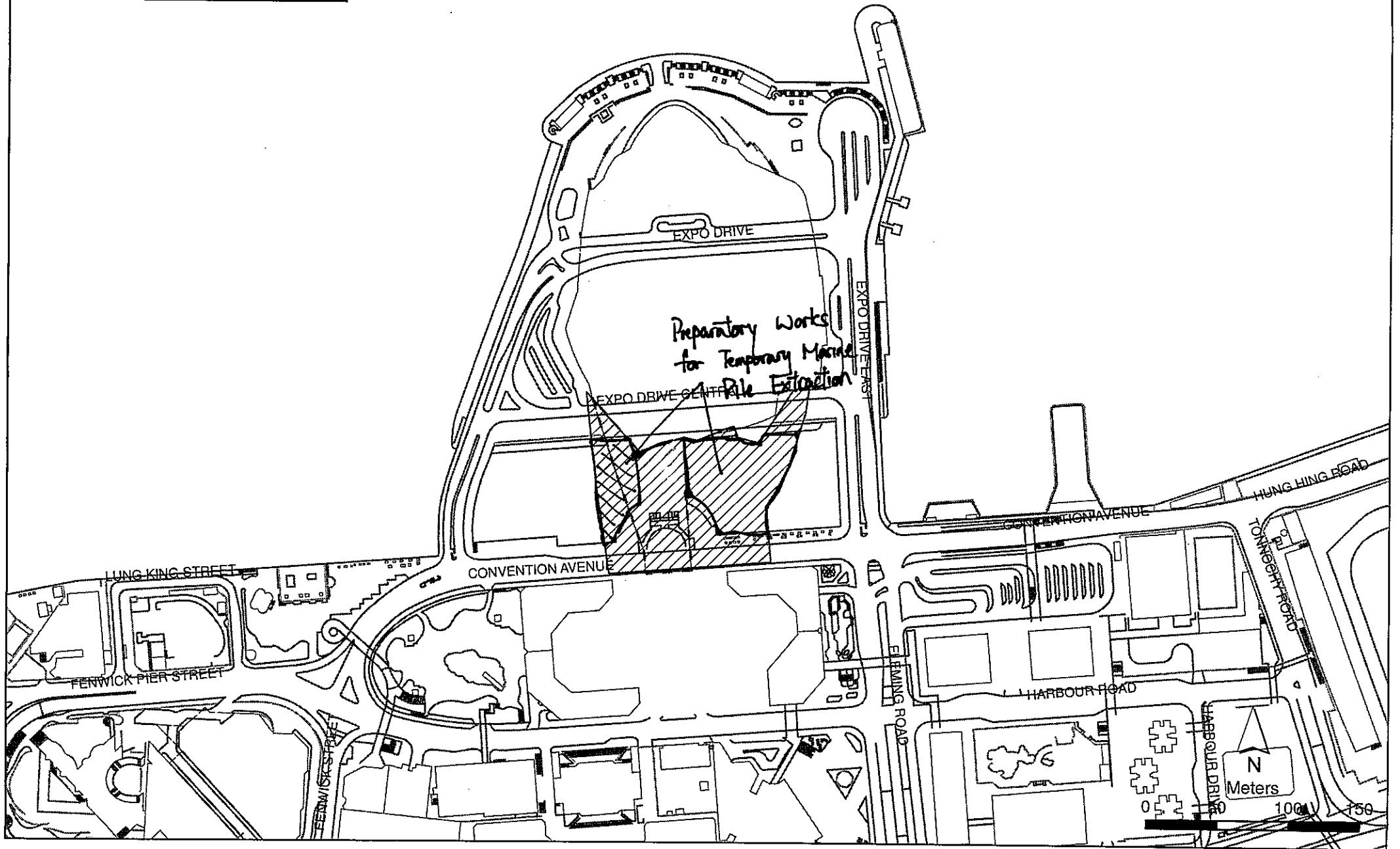
Location of Construction Activities during the Reporting Period

Summary of Works for May 2009

Description	Location
Installation of Façade Panel/Louvre	West and East Façade
Timber Door Installation	
Waterproofing (Internal & Roof)	
Wall Granite	
False Ceiling	
HVAC Installation	
Electrical Installation	
F.S. Installation	
Plumbing and Town Gas Installation	
Internal Cladding Installation	
Wall Fitting Out Works	Foyers
Vinyl Sheet Flooring Works	
Carpet Tile Installation	
Planter Wall Tiling and Soiling Works	Main Roof
Extraction of Temporary Marine Piles	Marine Channel
Promenade Reinstatement Works	

Key

-  Proposed Atrium Link Extension
-  Existing Atrium Link




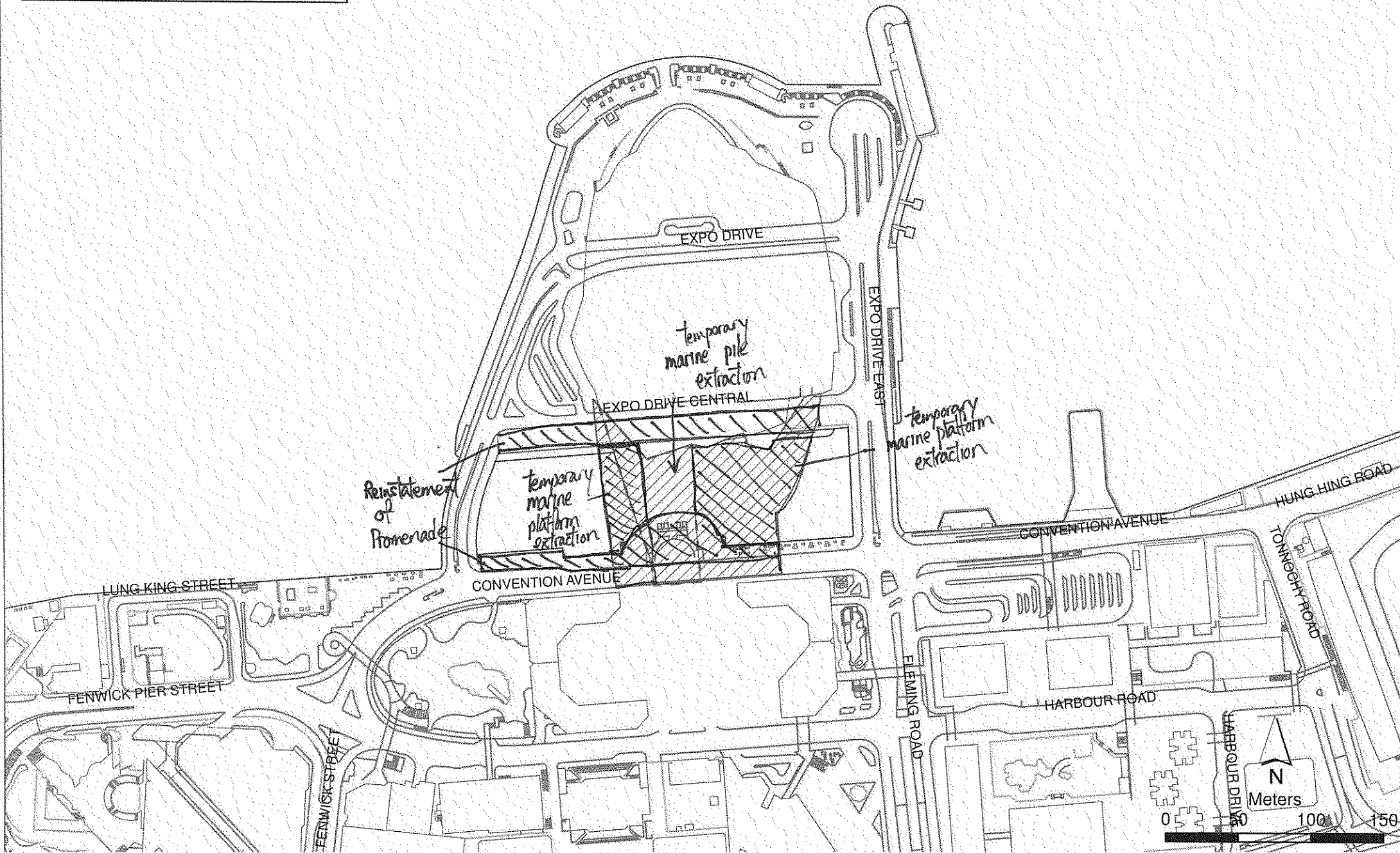
Summary of Works for June 2009

Description	Location
Extraction of Temporary Marine Piles	Marine Channel
Extraction of Temporary Marine Platform	Western and Eastern Platform
Removal of Temporary Hoarding	Around Project Site
Reinstatement of Sea Paparet	Along Sea Paparet
Reinstatement of promenade	Convention Avenue and Expo Drive Central
Installation of new traffic sign	Not available

Key

 Proposed Atrium Link Extension

 Existing Atrium Link




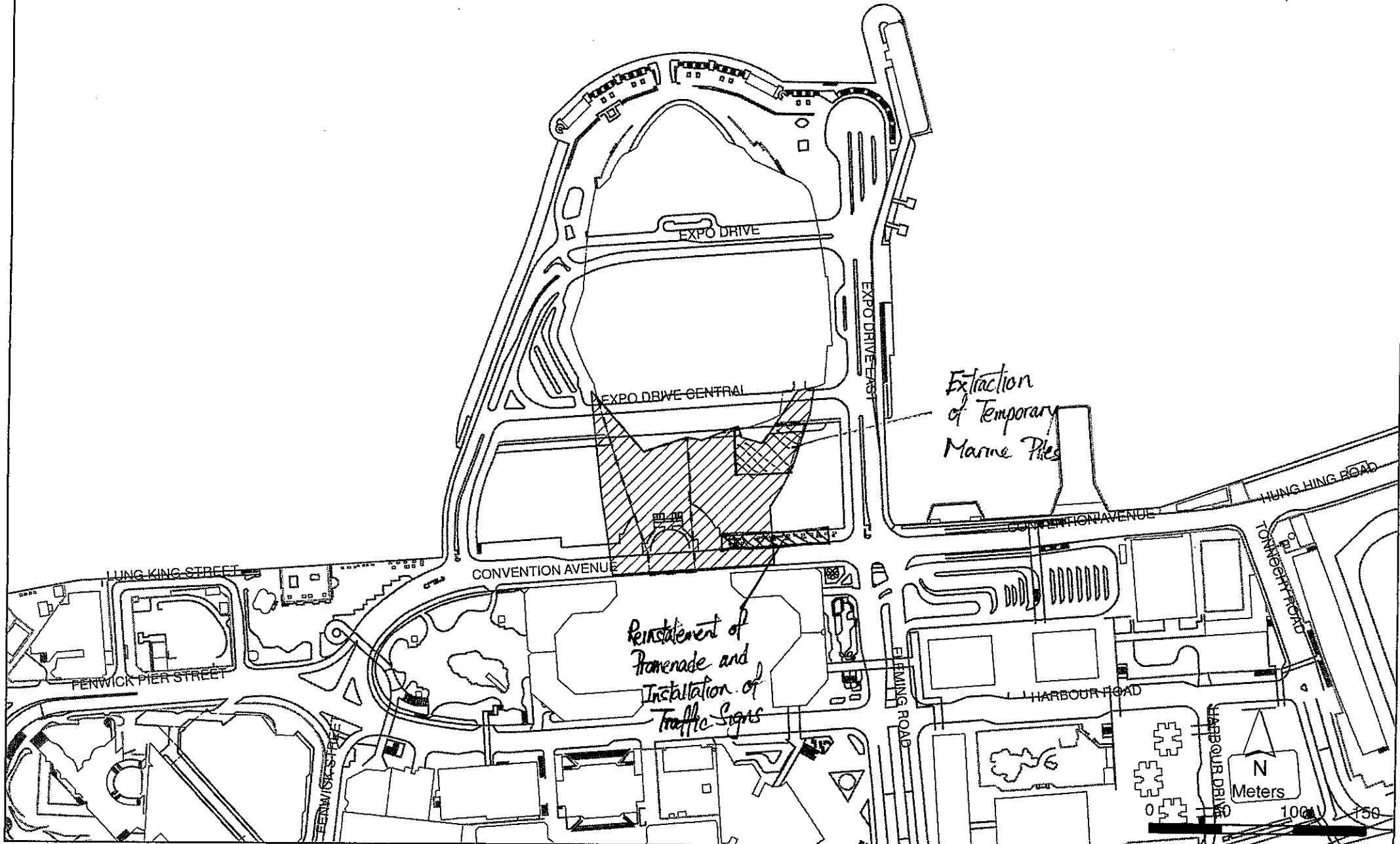
Summary of Works for July 2009

Description	Location	Finish Date
Extraction of Temporary Marine Piles	Eastern Marine Channel	Late August 2009
Extraction of Temporary Marine Platform	Eastern Platform	Late August 2009
Reinstatement of Sea Paparet	Along Sea Paparet	Late September 2009
Reinstatement of promenade	Convention Avenue and Expo Drive Central	Late September 2009
Installation of new traffic sign	Not available	Late August 2009

Key

 Proposed Atrium Link Extension

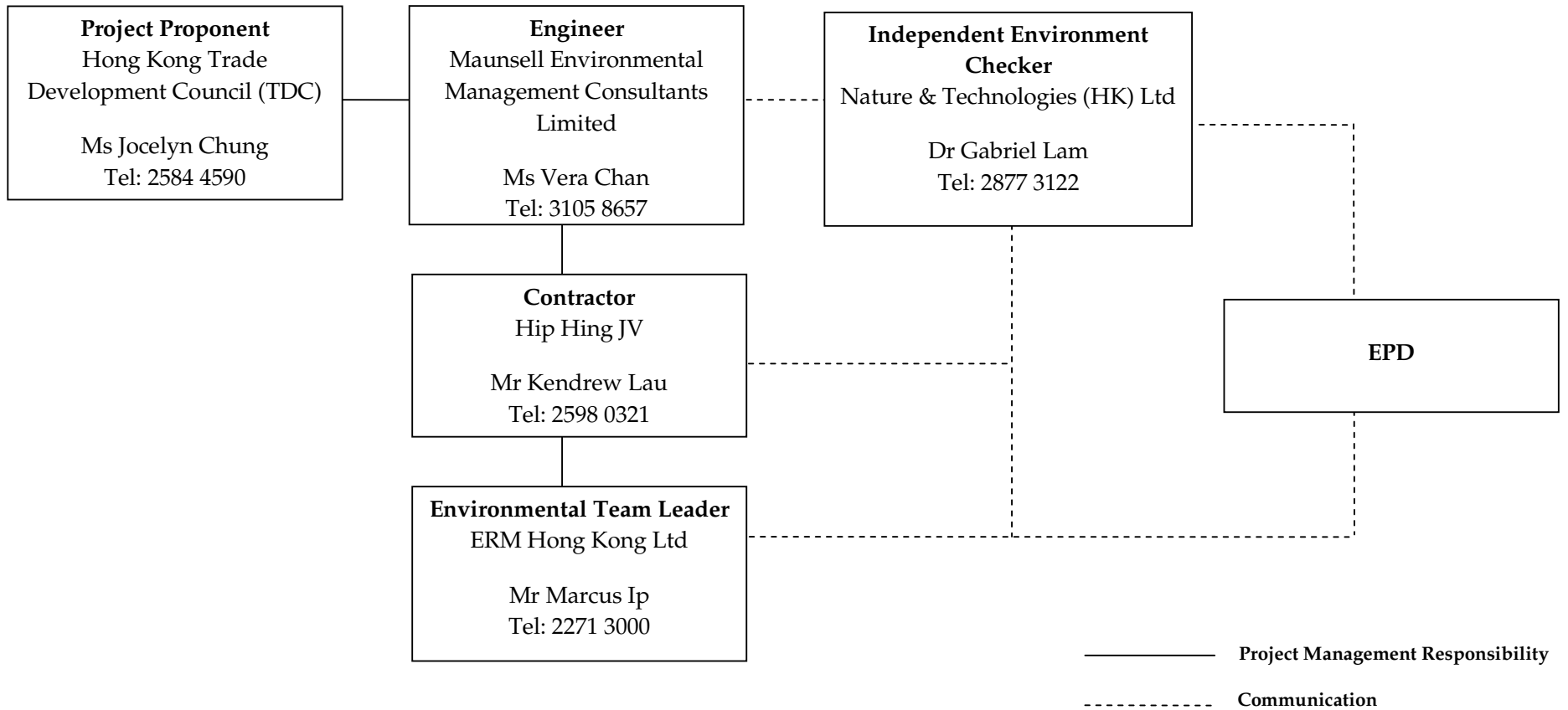
 Existing Atrium Link



Annex C

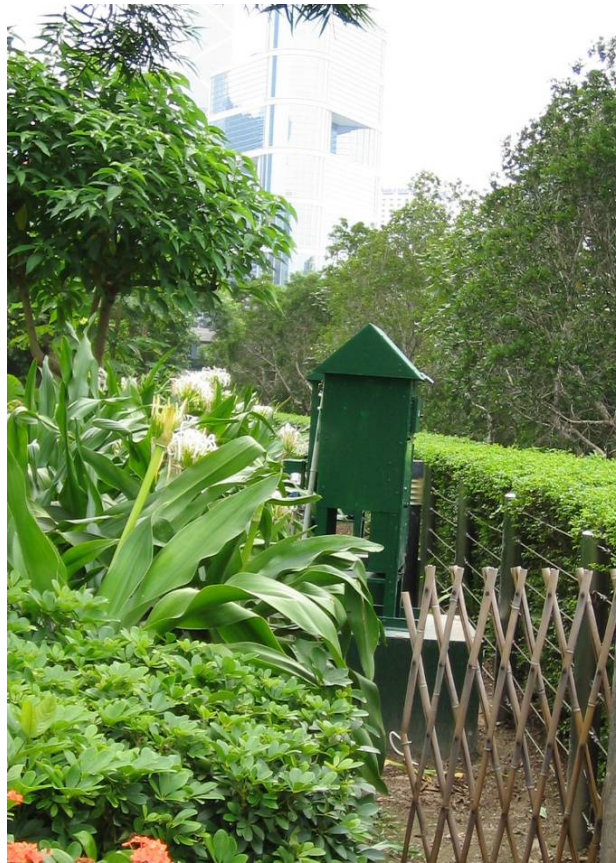
Project Organization Chart and Contact Detail

Project Organization (with contact details)



Annex D

Locations of Air and Water Quality Monitoring Stations



Air Quality Monitoring Station (AM1)



Air Quality Monitoring Station (AM2)

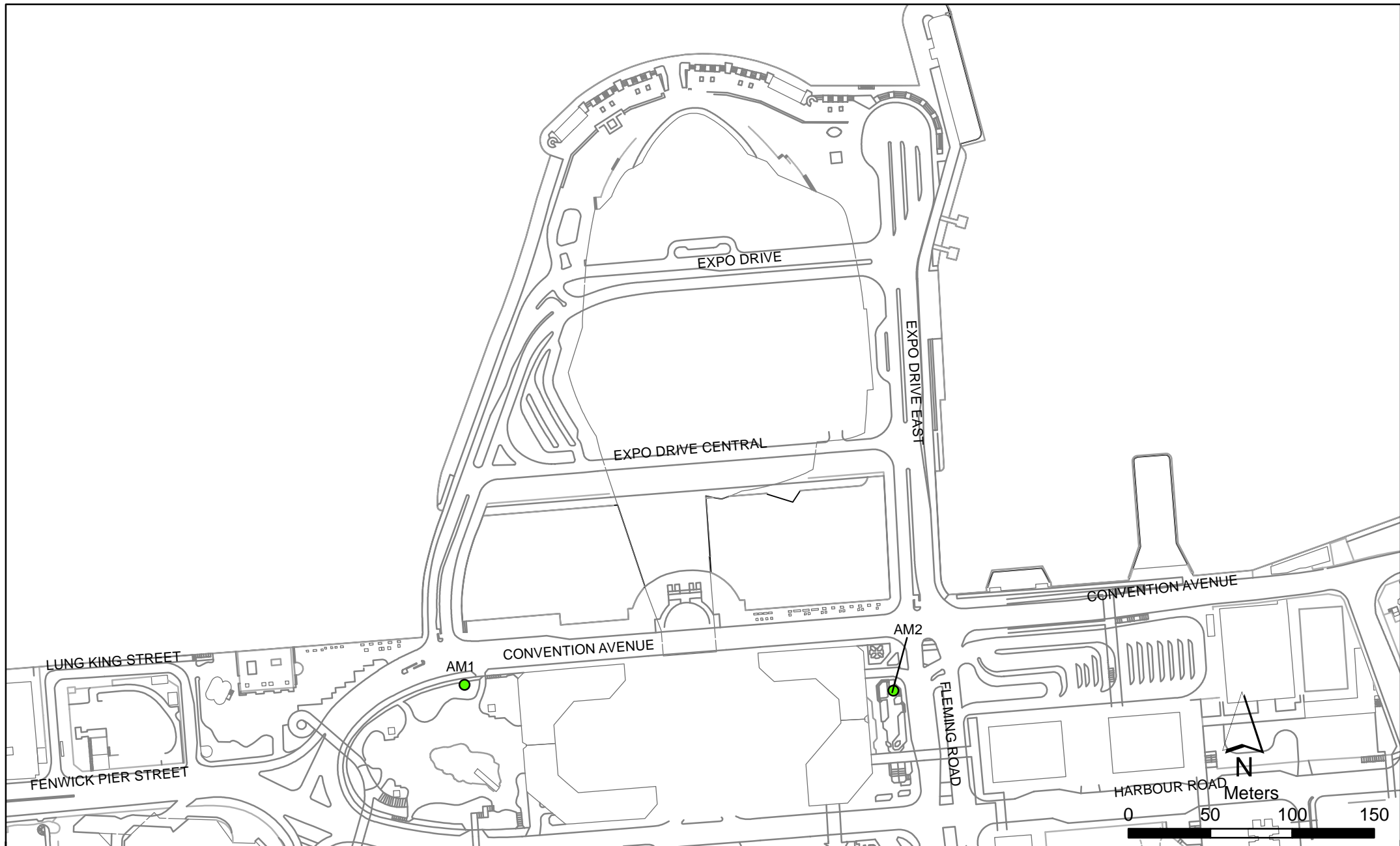


Figure D1

Air Quality Monitoring Station

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Date: 08/09/2006

Environmental
Resources
Management





Water Quality Monitoring Location – Station W3



Water Quality Monitoring Location – Stations W4 and W5

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 Tower Cooling Water Intake	835944.1	815885.0
5	Great Eagle Centre/China Resources Building Cooling Water Intake	835963.4	815886.5

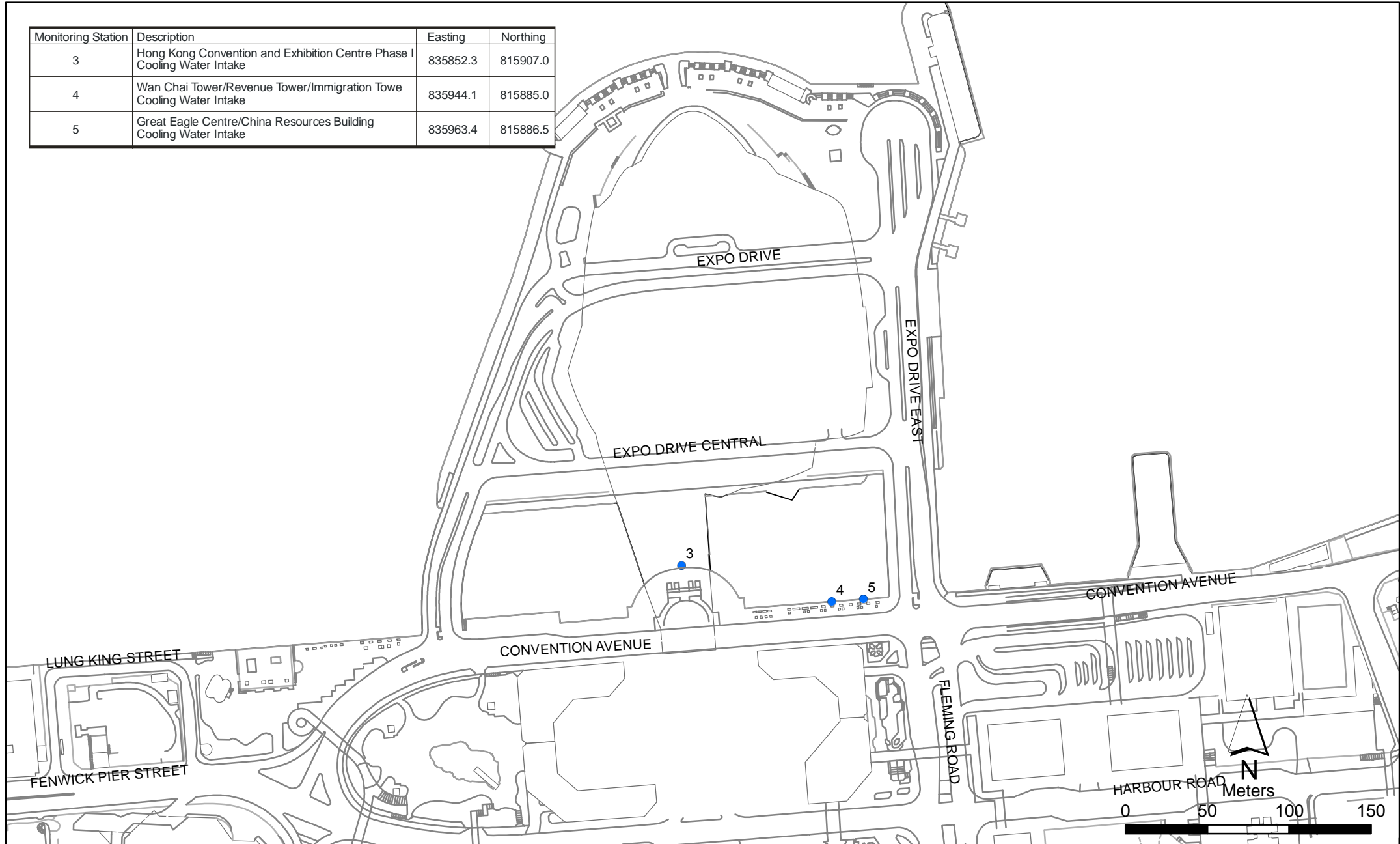


Figure D2

Marine Water Quality Monitoring Station

Annex E

Summary of Implementation Status

Annex E - Summary of Environmental Protection / Mitigation Activities

Environmental Permit No. EP-239/2006/B

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. Method statement (Revision B) and supplementary information was submitted to the EPD on 23/5/07 and 18/6/07 respectively.
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	Marine pile layout (final stage) was submitted to the EPD on 15/2/07. Revised marine pile layout (final stage) was submitted to the EPD on 26/3/07.
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.
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. 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. Proposal CM02 was submitted to the EPD on 13/3/07. Proposal for OM01 was submitted to the EPD on 15/11/07.
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	Δ

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)	√. Notes: Proposal for diversion of fresh air intakes was submitted on 17 Mar 2009 to EPD. Diversion works of fresh air intake have been completed.
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 3 of the Environmental Permit 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	√
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 Notes: Extraction of temporary marine piles was conducted in reporting period.

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	Δ
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	√

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	Δ

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	√
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. 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	√
Water Quality	<p>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.</p>	Works areas / construction period	No acidic wastewater will be generated.
Water Quality	<p>Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul</p>	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	<p>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.</p>	Works areas / construction period	√
Water Quality	<p>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</p>	Works areas / construction period	Δ

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	√
<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	√
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	Δ

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 JV
- Δ Deficiency of Mitigation Measures but rectified by Hip Hing JV

Annex F

24-hour and 1-hour TSP Monitoring Results

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							
6/5/2009 to 7/5/2009	2.8024	2.9597	1.0933	1.0933	15111.38	15135.38	24.0	100	Sunny	22.7	0.1573	1.0933	1574.35
12/5/2009 to 13/5/2009	2.7692	2.8813	1.1915	1.1915	15138.38	15162.38	24.0	65	Sunny	26.6	0.1121	1.1915	1715.76
18/5/2009 to 19/5/2009	2.8020	2.8617	1.1915	1.1915	15165.38	15189.38	24.0	35	Sunny	28.2	0.0597	1.1915	1715.76
23/5/2009 to 24/5/2009	2.8081	2.8646	1.0279	1.0279	15192.38	15216.38	24.0	38	Rainy	25.6	0.0565	1.0279	1480.18
29/5/2009 to 30/5/2009	2.8054	2.8767	0.9625	0.9625	15219.38	15243.38	24.0	51	Rainy	22	0.0713	0.9625	1386.00
								Min	35				
								Max	100				
								Average	58				

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							
6/5/2009 to 7/5/2009	2.8141	2.9601	1.3094	1.3094	13466.60	13490.60	24.0	77	Sunny	22.7	0.1460	1.3094	1885.54
12/5/2009 to 13/5/2009	2.7537	2.8554	1.3813	1.3813	13493.60	13517.60	24.0	51	Sunny	26.6	0.1017	1.3813	1989.07
18/5/2009 to 19/5/2009	2.7876	2.8451	1.2734	1.2734	13520.60	13544.60	24.0	31	Sunny	28.2	0.0575	1.2734	1833.70
23/5/2009 to 24/5/2009	2.8362	2.8889	1.3453	1.3453	13547.60	13571.60	24.0	27	Rainy	25.6	0.0527	1.3453	1937.23
29/5/2009 to 30/5/2009	2.8181	2.8975	1.2734	1.2734	13574.60	13598.60	24.0	43	Rainy	22	0.0794	1.2734	1833.70
								Min	27				
								Max	77				
								Average	46				

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 May 09	2.7951	2.8018	1.0933	1.0933	15109.38	15110.38	1.00	102	Rainy	23.1	0.0067	1.0933	65.60
06 May 09	2.8141	2.8245	1.0606	1.0606	15110.38	15111.38	1.00	163	Sunny	22.7	0.0104	1.0606	63.64
08 May 09	2.7982	2.8089	1.0933	1.0933	15135.38	15136.38	1.00	163	Sunny	23.3	0.0107	1.0933	65.60
11 May 09	2.7784	2.7924	1.0933	1.0933	15136.38	15137.38	1.00	213	Sunny	25.9	0.0140	1.0933	65.60
12 May 09	2.7726	2.7873	1.1260	1.1260	15137.38	15138.38	1.00	218	Sunny	26.6	0.0147	1.1260	67.56
13 May 09	2.7693	2.7801	1.1915	1.1915	15162.38	15163.38	1.00	151	Sunny	26.8	0.0108	1.1915	71.49
15 May 09	2.7881	2.7990	1.1588	1.1588	15163.38	15164.38	1.00	157	Sunny	25.6	0.0109	1.1588	69.53
18 May 09	2.8014	2.8170	1.0606	1.0606	15164.38	15165.38	1.00	245	Sunny	28.2	0.0156	1.0606	63.64
20 May 09	2.8294	2.8346	1.1588	1.1588	15189.38	15190.38	1.00	75	Rainy	27.3	0.0052	1.1588	69.53
22 May 09	2.8178	2.8277	1.1915	1.1915	15190.38	15191.38	1.00	138	Rainy	27.5	0.0099	1.1915	71.49
23 May 09	2.7942	2.8002	1.0279	1.0279	15191.38	15192.38	1.00	97	Rainy	25.6	0.0060	1.0279	61.67
25 May 09	2.8033	2.8089	1.0279	1.0279	15216.38	15217.38	1.00	91	Rainy	24.8	0.0056	1.0279	61.67
27 May 09	2.8368	2.8415	1.0279	1.0279	15217.38	15218.38	1.00	76	Rainy	25.5	0.0047	1.0279	61.67
29 May 09	2.8324	2.8372	0.9625	0.9625	15218.38	15219.38	1.00	83	Rainy	22	0.0048	0.9625	57.75
							Min	75					
							Max	245					
							Average	141					

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 May 09	2.7835	2.7900	1.3094	1.3094	13464.60	13465.60	1.00	83	Rainy	23.1	0.0065	1.3094	78.56
06 May 09	2.7842	2.7948	1.3094	1.3094	13465.60	13466.60	1.00	135	Sunny	22.7	0.0106	1.3094	78.56
08 May 09	2.7923	2.8040	1.3094	1.3094	13490.60	13491.60	1.00	149	Sunny	23.3	0.0117	1.3094	78.56
11 May 09	2.7925	2.8044	1.3094	1.3094	13491.60	13492.60	1.00	151	Sunny	25.9	0.0119	1.3094	78.56
12 May 09	2.7764	2.7867	1.2734	1.2734	13492.60	13493.60	1.00	135	Sunny	26.6	0.0103	1.2734	76.40
13 May 09	2.7904	2.8022	1.3453	1.3453	13517.60	13518.60	1.00	146	Sunny	26.8	0.0118	1.3453	80.72
15 May 09	2.8169	2.8242	1.2734	1.2734	13518.60	13519.60	1.00	96	Sunny	25.6	0.0073	1.2734	76.40
18 May 09	2.7844	2.8019	1.2375	1.2375	13519.60	13520.60	1.00	236	Sunny	28.2	0.0175	1.2375	74.25
20 May 09	2.8249	2.8320	1.3094	1.3094	13544.60	13545.60	1.00	90	Rainy	27.3	0.0071	1.3094	78.56
22 May 09	2.8104	2.8171	1.2015	1.2015	13545.60	13546.60	1.00	93	Rainy	27.5	0.0067	1.2015	72.09
23 May 09	2.8272	2.8339	1.2375	1.2375	13546.60	13547.60	1.00	90	Rainy	25.6	0.0067	1.2375	74.25
25 May 09	2.8177	2.8236	1.2734	1.2734	13571.60	13572.60	1.00	77	Rainy	24.8	0.0059	1.2734	76.40
27 May 09	2.8232	2.8279	1.2015	1.2015	13572.60	13573.60	1.00	65	Rainy	25.5	0.0047	1.2015	72.09
29 May 09	2.8499	2.8562	1.2375	1.2375	13573.60	13574.60	1.00	85	Rainy	22	0.0063	1.2375	74.25
							Min	65					
							Max	236					
							Average	117					

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

Date	Weather	King's Park Station				
		Average Air Temperature (°C)	Average Relative Humidity (%)	Total Rainfall (mm)	Wind Direction (Degree)	Average Wind Speed (km/h)
04 May 09	Rainy	23.1	79	0.5	110	9.6
06 May 09	Sunny	22.7	72	0.0	110	14.9
08 May 09	Sunny	23.3	71	0.0	110	11.2
11 May 09	Sunny	25.9	82	0.0	120	10.9
12 May 09	Sunny	26.6	79	0.0	110	4.3
13 May 09	Sunny	26.8	80	0.0	280	6.3
15 May 09	Sunny	25.6	79	0.0	110	9.8
18 May 09	Sunny	28.2	77	0.0	280#	8.1#
20 May 09	Rainy	27.3	80	12.5	170	9.3
22 May 09	Rainy	27.5	82	2.5	100	11.9
23 May 09	Rainy	25.6	92	64.5	100	16.4
25 May 09	Rainy	24.8	94	30.0	110	12.5
27 May 09	Rainy	25.5	91	38.5	110	12.8
29 May 09	Rainy	22	84	6.0	100	10.8

Notes:

- missing (less than 24 hourly observations a day)

NA - not available

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

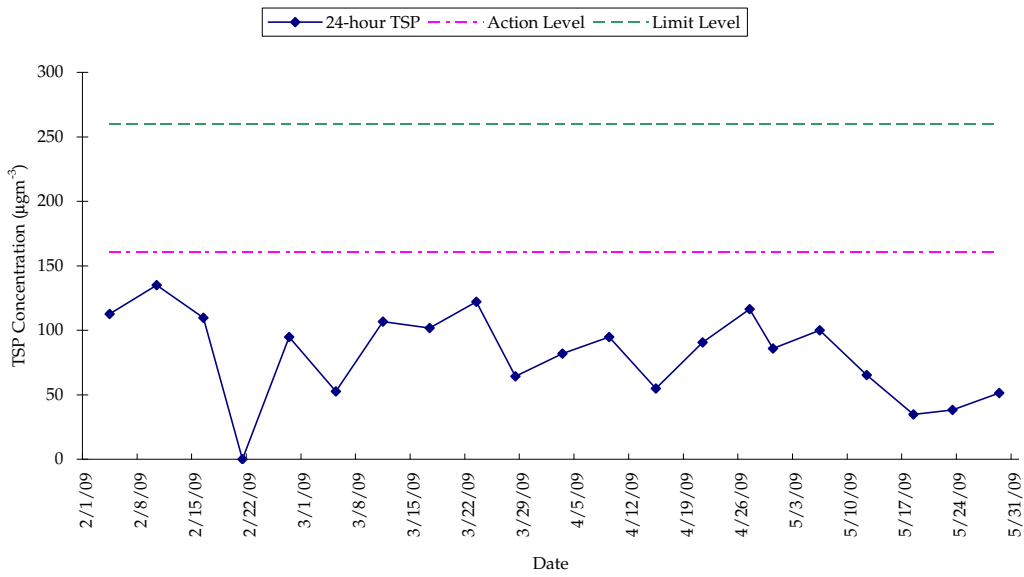


Figure G2 - Measured 24-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM2

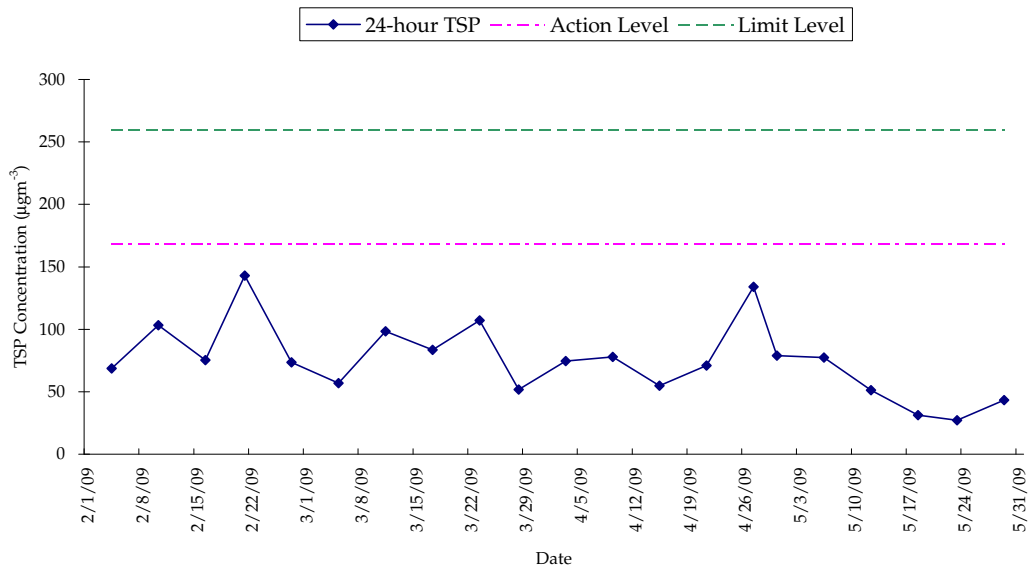


Figure G3 - Measured 1-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM1

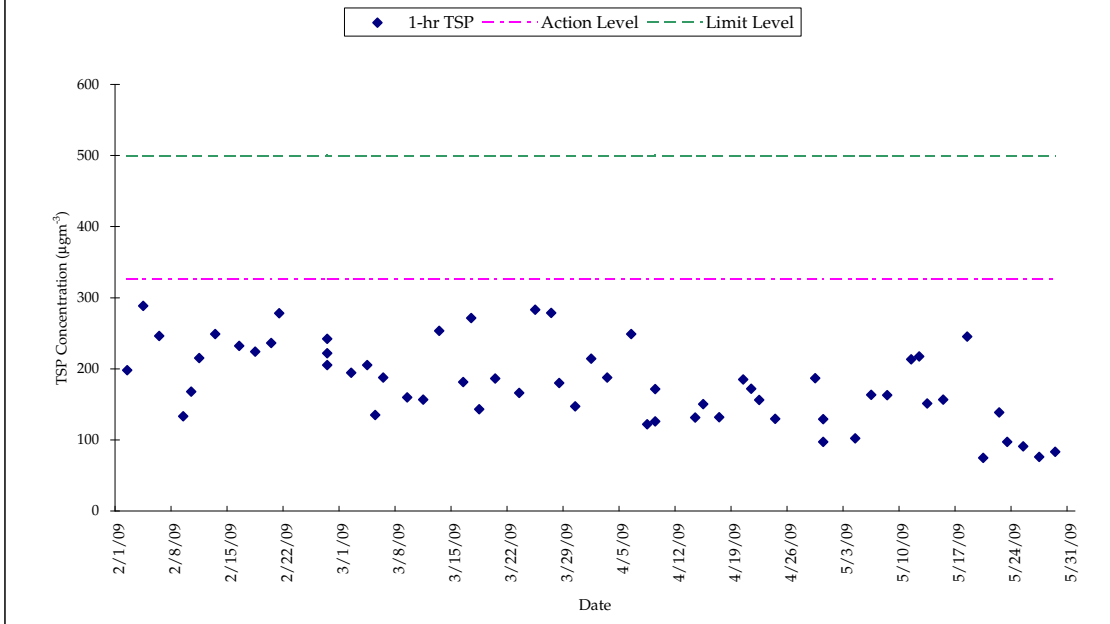
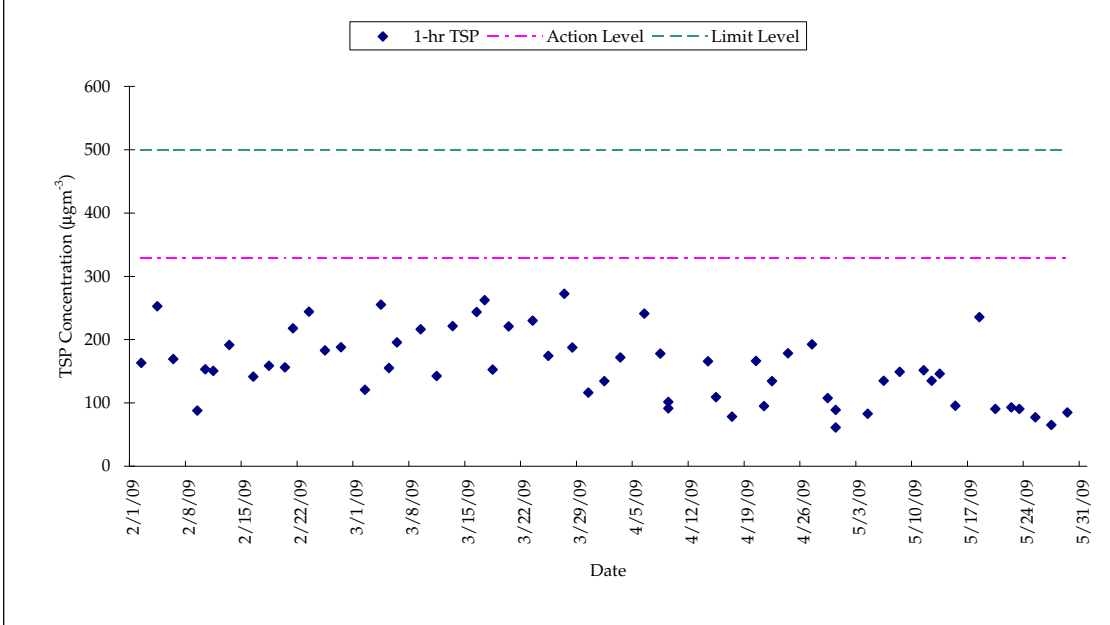


Figure G4 - Measured 1-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM2



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							
4/6/09 to 5/6/09	2.8957	3.0294	1.0279	1.0279	15246.39	15270.39	24.0	90	Rainy	27.6	0.1337	1.0279	1480.18
11/6/09 to 12/6/09	2.8868	2.9620	0.9952	0.9952	15272.39	15296.39	24.0	52	Rainy	26.4	0.0752	0.9952	1433.09
16/6/09 to 17/6/09	2.7489	2.8124	0.9952	0.9952	15300.39	15324.39	24.0	44	Rainy	27.3	0.0635	0.9952	1433.09
22/6/09 to 23/6/09	2.7434	2.7952	0.9625	0.9625	15327.39	15351.39	24.0	37	Rainy	29.1	0.0518	0.9625	1386.00
27/6/09 to 28/6/09	2.8172	2.8479	0.8316	0.8316	15354.39	15378.39	24.0	26	Rainy	26.3	0.0307	0.8316	1197.50
								Min	26				
								Max	90				
								Average	50				

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							
4/6/09 to 5/6/09	2.9016	3.0976	1.2375	1.2375	13601.60	13625.60	24.0	110	Rainy	27.6	0.1960	1.2375	1782.00
10/6/09 to 11/6/09	2.8692	2.9387	1.2015	1.2015	13628.60	13652.60	24.0	40	Rainy	26.8	0.0695	1.2015	1730.16
16/6/09 to 17/6/09	2.7378	2.7957	1.2375	1.2375	13655.60	13679.60	24.0	32	Rainy	27.3	0.0579	1.2375	1782.00
22/6/09 to 23/6/09	2.7588	2.8306	1.2375	1.2375	13682.60	13706.60	24.0	40	Rainy	29.1	0.0718	1.2375	1782.00
27/6/09 to 28/6/09	2.7926	2.8410	1.3453	1.3453	13709.60	13733.60	24.0	25	Rainy	26.3	0.0484	1.3453	1937.23
								Min	25				
								Max	110				
								Average	50				

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							
01 Jun 09	2.8672	2.8761	1.0279	1.0279	15243.38	15244.39	1.01	143	Sunny	26	0.0089	1.0279	62.29
03 Jun 09	2.8391	2.8442	1.0279	1.0279	15244.39	15245.39	1.00	83	Rainy	28	0.0051	1.0279	61.67
04 Jun 09	2.9005	2.9043	0.8970	0.8970	15245.39	15246.39	1.00	71	Rainy	28	0.0038	0.8970	53.82
05 Jun 09	2.8866	2.8913	0.9625	0.9625	15270.39	15271.39	1.00	81	Sunny	28	0.0047	0.9625	57.75
08 Jun 09	2.8739	2.8832	0.8970	0.8970	15271.39	15272.39	1.00	173	Rainy	27	0.0093	0.8970	53.82
12 Jun 09	2.7944	2.8023	0.9952	0.9952	15296.39	15297.39	1.00	132	Rainy	27	0.0079	0.9952	59.71
13 Jun 09	2.8824	2.8916	0.9952	0.9952	15297.39	15298.39	1.00	154	Sunny	29	0.0092	0.9952	59.71
15 Jun 09	2.7546	2.7589	0.9298	0.9298	15298.39	15299.39	1.00	77	Rainy	26	0.0043	0.9298	55.79
16 Jun 09	2.7349	2.7430	0.9952	0.9952	15300.39	15300.39	1.00	136	Rainy	27	0.0081	0.9952	59.71
17 Jun 09	2.7489	2.7550	1.0279	1.0279	15324.39	15325.39	1.00	99	Sunny	29	0.0061	1.0279	61.67
19 Jun 09	2.7415	2.7463	0.9298	0.9298	15325.39	15326.39	1.00	86	Rainy	29	0.0048	0.9298	55.79
22 Jun 09	2.7328	2.7393	0.9298	0.9298	15326.39	15327.39	1.00	117	Rainy	29	0.0065	0.9298	55.79
25 Jun 09	2.7744	2.7791	0.9952	0.9952	15351.39	15352.39	1.00	79	Rainy	29	0.0047	0.9952	59.71
26 Jun 09	2.8092	2.8145	0.9625	0.9625	15352.39	15353.39	1.00	92	Rainy	28	0.0053	0.9625	57.75
27 Jun 09	2.7807	2.7870	0.8643	0.8643	15353.39	15354.39	1.00	121	Rainy	26	0.0063	0.8643	51.86
29 Jun 09	2.8142	2.8209	1.0279	1.0279	15378.39	15379.39	1.00	109	Sunny	29	0.0067	1.0279	61.67
30 Jun 09	2.8212	2.8256	1.0933	1.0933	15379.39	15380.39	1.00	67	Sunny	29	0.0044	1.0933	65.60
							Min	67					
							Max	173					
							Average	107					

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							
01 Jun 09	2.8557	2.8662	1.2015	1.2015	13598.60	13599.60	1.00	146	Sunny	26.4	0.0105	1.2015	72.09
03 Jun 09	2.8391	2.8448	1.1656	1.1656	13599.60	13600.60	1.00	82	Rainy	27.9	0.0057	1.1656	69.94
04 Jun 09	2.8871	2.8933	1.1296	1.1296	13600.60	13601.60	1.00	91	Rainy	27.6	0.0062	1.1296	67.78
05 Jun 09	2.8966	2.9026	1.2015	1.2015	13625.60	13626.60	1.00	83	Sunny	27.9	0.0060	1.2015	72.09
08 Jun 09	2.8653	2.8752	1.1656	1.1656	13626.60	13627.60	1.00	142	Rainy	27.2	0.0099	1.1656	69.94
10 Jun 09	2.8729	2.8801	1.1656	1.1656	13627.60	13628.60	1.00	103	Rainy	28.3	0.0072	1.1656	69.94
12 Jun 09	2.7579	2.7652	1.2015	1.2015	13652.60	13653.60	1.00	101	Rainy	26.8	0.0073	1.2015	72.09
15 Jun 09	2.7540	2.7572	1.1656	1.1656	13653.60	13654.60	1.00	46	Rainy	26.4	0.0032	1.1656	69.94
16 Jun 09	2.7419	2.7484	1.1656	1.1656	13654.60	13655.60	1.00	93	Rainy	27.3	0.0065	1.1656	69.94
17 Jun 09	2.7520	2.7564	1.2375	1.2375	13679.60	13680.60	1.00	59	Sunny	28.6	0.0044	1.2375	74.25
19 Jun 09	2.7547	2.7609	1.1656	1.1656	13680.60	13681.60	1.00	89	Rainy	28.8	0.0062	1.1656	69.94
22 Jun 09	2.7328	2.7409	1.1296	1.1296	13681.60	13682.60	1.00	120	Rainy	29.1	0.0081	1.1296	67.78
24 Jun 09	2.7882	2.7955	1.2375	1.2375	13706.60	13707.60	1.00	98	Rainy	28.9	0.0073	1.2375	74.25
26 Jun 09	2.8252	2.8305	1.2375	1.2375	13707.60	13708.60	1.00	71	Rainy	27.6	0.0053	1.2375	74.25
27 Jun 09	2.7863	2.7956	1.2015	1.2015	13708.60	13709.60	1.00	129	Rainy	26.3	0.0093	1.2015	72.09
29 Jun 09	2.7961	2.8018	1.3094	1.3094	13733.60	13734.60	1.00	73	Sunny	28.8	0.0057	1.3094	78.56
30 Jun 09	2.7881	2.7928	1.2734	1.2734	13734.60	13735.60	1.00	62	Sunny	29.3	0.0047	1.2734	76.40
							Min	46					
							Max	146					
							Average	93					

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

Date	Weather	King's Park Station				
		Average Air Temperature (°C)	Average Relative Humidity (%)	Total Rainfall (mm)	Wind Direction (Degree)	Average Wind Speed (km/h)
01 Jun 09	Sunny	26.4	72	0.0	270	5.0
03 Jun 09	Rainy	27.9	83	8.5	210	11.9
04 Jun 09	Rainy	27.6	76	48.0	260	8.6
05 Jun 09	Sunny	27.9	72	0.0	270	4.5
08 Jun 09	Rainy	27.2	82	13.0	110	12.0
10 Jun 09	Rainy	28.3	83	0.5	100	5.5
11 Jun 09	Rainy	26.4	86	49.5	280	4.8
12 Jun 09	Rainy	26.8	86	10.0	280#	4.1
13 Jun 09	Sunny	28.8	84	0.0	280	5.9
15 Jun 09	Rainy	26.4	91	21.5	110	9.2
16 Jun 09	Rainy	27.3	89	8.0	110	11.5
17 Jun 09	Sunny	28.6	79	0.0	110	9.1
19 Jun 09	Rainy	28.8	80	4.5	110	6.4
22 Jun 09	Rainy	29.1	86	22.0	270	9.1
24 Jun 09	Rainy	28.9	84	12.5	280	5.8
25 Jun 09	Rainy	28.5	83	4.5	110	8.2
26 Jun 09	Rainy	27.6	85	17.5	100	13.1
27 Jun 09	Rainy	26.3	90	54.5	270	10.3
29 Jun 09	Sunny	28.8	82	0.0	190	10.5
30 Jun 09	Sunny	29.3	76	0.0	210	11.8

Notes:

- missing (less than 24 hourly observations a day)

NA - not available

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

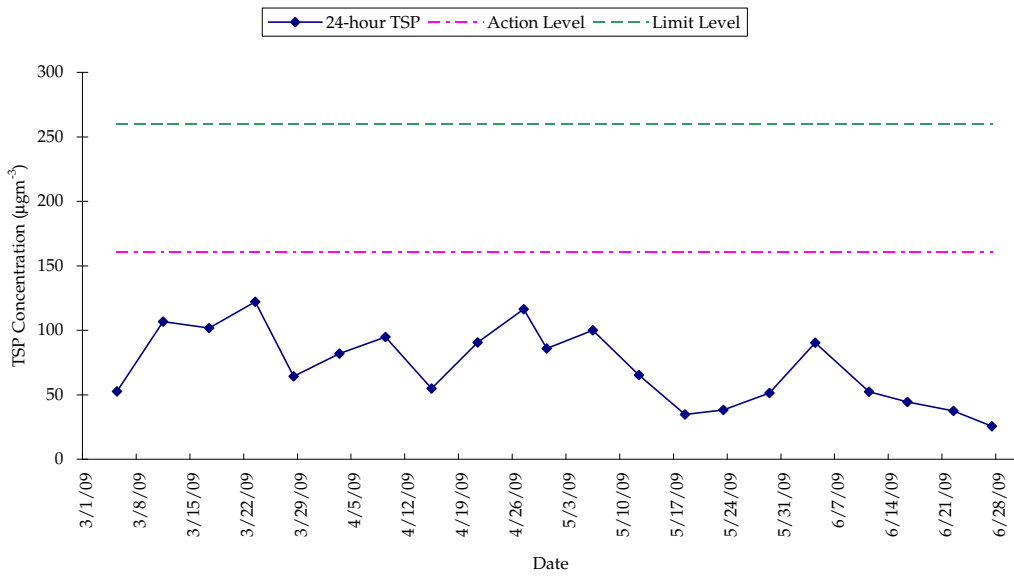


Figure G2 - Measured 24-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM2

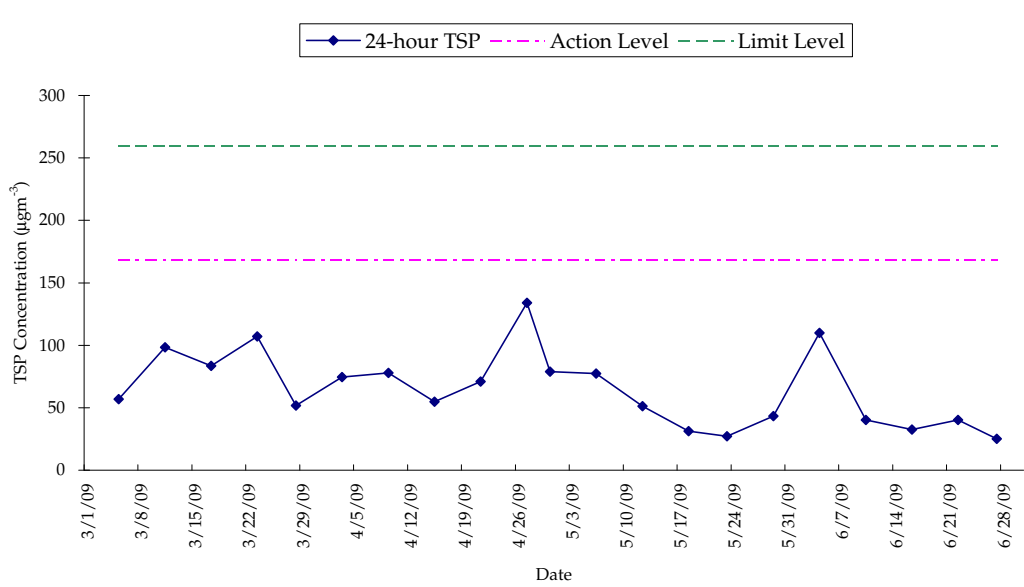


Figure G3 - Measured 1-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM1

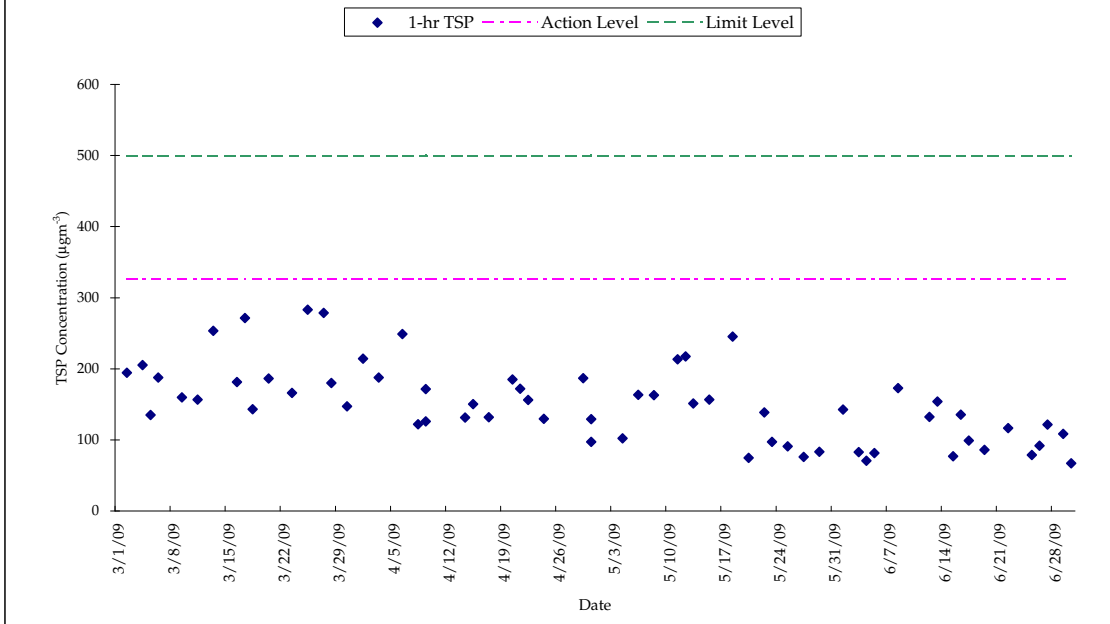
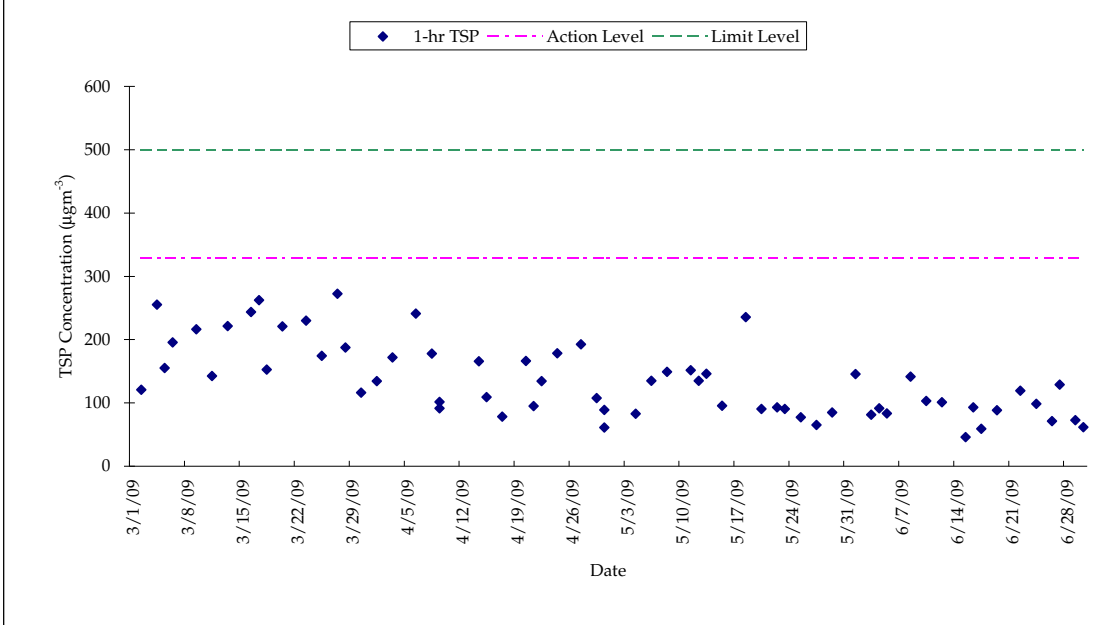


Figure G4 - Measured 1-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM2



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							
3/7/09 to 4/7/09	2.8041	2.8995	1.1620	1.1620	15381.39	15405.39	24.0	57	Sunny	29.2	0.0954	1.1620	1673.28
9/7/09 to 10/7/09	2.7939	2.8614	1.1914	1.1914	15408.39	15432.39	24.0	39	Sunny	29.5	0.0675	1.1914	1715.62
15/7/09 to 16/7/09	2.8381	2.9115	1.0152	1.0152	15435.39	15459.39	24.0	50	Rainy	28.7	0.0734	1.0152	1461.89
23/7/09 to 24/7/09	2.8176	2.8604	0.9859	0.9859	15467.57	15491.57	24.0	30	Rainy	28.7	0.0428	0.9859	1419.70
27/7/09 to 28/7/09	2.8429	2.9217	0.9859	0.9859	15493.57	15517.58	24.0	55	Rainy	28.4	0.0788	0.9859	1420.29
								Min	30				
								Max	57				
								Average	46				

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							
3/7/09 to 4/7/09	2.7835	2.8483	1.2950	1.2950	13736.60	13760.60	24.0	35	Sunny	29.2	0.0648	1.2950	1864.80
9/7/09 to 10/7/09	2.8207	2.9300	1.3282	1.3282	13763.60	13787.60	24.0	57	Sunny	29.5	0.1093	1.3282	1912.61
15/7/09 to 16/7/09	2.8191	2.8663	1.1623	1.1623	13790.60	13814.60	24.0	28	Rainy	28.7	0.0472	1.1623	1673.71
21/7/09 to 22/7/09	2.7653	2.8110	1.1623	1.1623	13817.60	13841.60	24.0	27	Rainy	29	0.0457	1.1623	1673.71
27/7/09 to 28/7/09	2.8526	2.9321	1.0959	1.0959	13844.60	13868.60	24.0	50	Rainy	28.4	0.0795	1.0959	1578.10
								Min	27				
								Max	57				
								Average	40				

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							
03 Jul 09	2.7804	2.7888	0.9565	0.9565	15380.39	15381.39	1.00	146	Sunny	29.2	0.0084	0.9565	57.39
06 Jul 09	2.8132	2.8172	1.1327	1.1327	15405.39	15406.39	1.00	59	Rainy	27.5	0.0040	1.1327	67.96
08 Jul 09	2.8403	2.8474	1.1033	1.1033	15406.39	15407.39	1.00	107	Sunny	29.2	0.0071	1.1033	66.20
09 Jul 09	2.8200	2.8271	1.1033	1.1033	15407.39	15408.39	1.00	107	Sunny	29.5	0.0071	1.1033	66.20
10 Jul 09	2.7867	2.7960	1.1033	1.1033	15432.39	15433.39	1.00	140	Sunny	30.3	0.0093	1.1033	66.20
13 Jul 09	2.8034	2.8172	0.9565	0.9565	15433.39	15434.39	1.00	240	Sunny	29.3	0.0138	0.9565	57.39
15 Jul 09	2.7931	2.7999	0.9565	0.9565	15434.39	15435.39	1.00	118	Rainy	28.7	0.0068	0.9565	57.39
17 Jul 09	2.7811	2.7857	0.9565	0.9565	15459.39	15460.39	1.00	80	Sunny	29.9	0.0046	0.9565	57.39
20 Jul 09	2.7722	2.7809	0.8685	0.8685	15460.39	15461.39	1.00	167	Rainy	28.1	0.0087	0.8685	52.11
21 Jul 09	2.7861	2.7897	0.8685	0.8685	15461.39	15462.39	1.00	69	Rainy	29	0.0036	0.8685	52.11
22 Jul 09	2.8316	2.8369	0.9272	0.9272	15466.56	15467.56	1.00	95	Rainy	28.4	0.0053	0.9272	55.63
24 Jul 09	2.8268	2.8343	0.9565	0.9565	15491.57	15492.57	1.00	131	Rainy	29.3	0.0075	0.9565	57.39
27 Jul 09	2.7658	2.7769	0.9859	0.9859	15492.57	15493.57	1.00	188	Rainy	28.4	0.0111	0.9859	59.15
29 Jul 09	2.7835	2.7909	1.1327	1.1327	15517.58	15518.58	1.00	109	Rainy	29.6	0.0074	1.1327	67.96
31 Jul 09	2.8496	2.8545	1.3088	1.3088	15518.58	15519.58	1.00	62	Rainy	29.1	0.0049	1.3088	78.53
								Min	59				
								Max	240				
								Average	121				

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							
03 Jul 09	2.8100	2.8174	1.2287	1.2287	13735.60	13736.60	1.00	100	Sunny	29.2	0.0074	1.2287	73.72
06 Jul 09	2.8173	2.8199	1.2618	1.2618	13760.60	13761.60	1.00	34	Rainy	27.5	0.0026	1.2618	75.71
08 Jul 09	2.8148	2.8240	1.2287	1.2287	13761.60	13762.60	1.00	125	Sunny	29.2	0.0092	1.2287	73.72
09 Jul 09	2.8285	2.8351	1.2287	1.2287	13762.60	13763.60	1.00	90	Sunny	29.5	0.0066	1.2287	73.72
10 Jul 09	2.8341	2.8448	1.1291	1.1291	13787.60	13788.60	1.00	158	Sunny	30.3	0.0107	1.1291	67.75
13 Jul 09	2.8252	2.8351	1.0959	1.0959	13788.60	13789.60	1.00	151	Sunny	29.3	0.0099	1.0959	65.75
15 Jul 09	2.8151	2.8196	1.0295	1.0295	13789.60	13790.60	1.00	73	Rainy	28.7	0.0045	1.0295	61.77
17 Jul 09	2.7683	2.7733	1.1291	1.1291	13814.60	13815.60	1.00	74	Sunny	29.9	0.0050	1.1291	67.75
20 Jul 09	2.7952	2.8063	1.0959	1.0959	13815.60	13816.60	1.00	169	Rainy	28.1	0.0111	1.0959	65.75
21 Jul 09	2.7914	2.7938	1.0959	1.0959	13816.60	13817.60	1.00	36	Rainy	29	0.0024	1.0959	65.75
22 Jul 09	2.7850	2.7888	1.0627	1.0627	13841.60	13842.60	1.00	60	Rainy	28.4	0.0038	1.0627	63.76
24 Jul 09	2.8139	2.8202	1.0627	1.0627	13842.60	13843.60	1.00	99	Rainy	29.3	0.0063	1.0627	63.76
27 Jul 09	2.8060	2.8196	1.0295	1.0295	13843.60	13844.60	1.00	220	Rainy	28.4	0.0136	1.0295	61.77
29 Jul 09	2.8489	2.8597	1.0959	1.0959	13868.60	13869.61	1.01	163	Rainy	29.6	0.0108	1.0959	66.41
31 Jul 09	2.8314	2.8348	1.0295	1.0295	13869.61	13870.61	1.00	55	Rainy	29.1	0.0034	1.0295	61.77
								Min	34				
								Max	220				
								Average	107				

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

Date	Weather	King's Park Station				
		Average Air Temperature (°C)	Average Relative Humidity (%)	Total Rainfall (mm)	Wind Direction (Degree)	Average Wind Speed (km/h)
03 Jul 09	Sunny	29.2	77	0.0	220#	11.6#
06 Jul 09	Rainy	27.5	85	28.5	110	8.2
08 Jul 09	Sunny	29.2	77	0.0	280	8.3
09 Jul 09	Sunny	29.5	75	0.0	280	9.1
10 Jul 09	Sunny	30.3	75	0.0	270	9.4
13 Jul 09	Sunny	29.3	78	0.0	280#	6.4#
15 Jul 09	Rainy	28.7	83	9.5	110#	13.2#
17 Jul 09	Sunny	29.9	74	0.0	280	10.2
20 Jul 09	Rainy	28.1	87	12.0	110	13.0
21 Jul 09	Rainy	29	82	1.5	110#	10.3#
22 Jul 09	Rainy	28.4	82	0	110	7.1
23 Jul 09	Rainy	28.7	81	6.0	280	6.6
24 Jul 09	Rainy	29.3	81	3.0	280	8.2
27 Jul 09	Rainy	28.4	86	38.5	140	6.9
29 Jul 09	Rainy	29.6	83	1.0	110	10.7
31 Jul 09	Rainy	29.1	81	7.5	110	14.5

Notes:

- missing (less than 24 hourly observations a day)

NA - not available

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

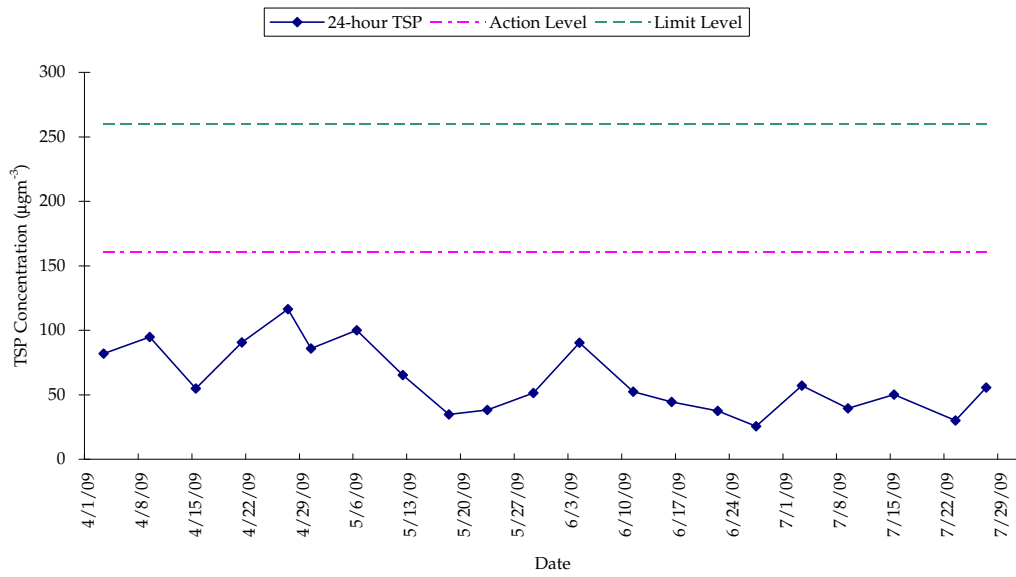


Figure G2 - Measured 24-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM2

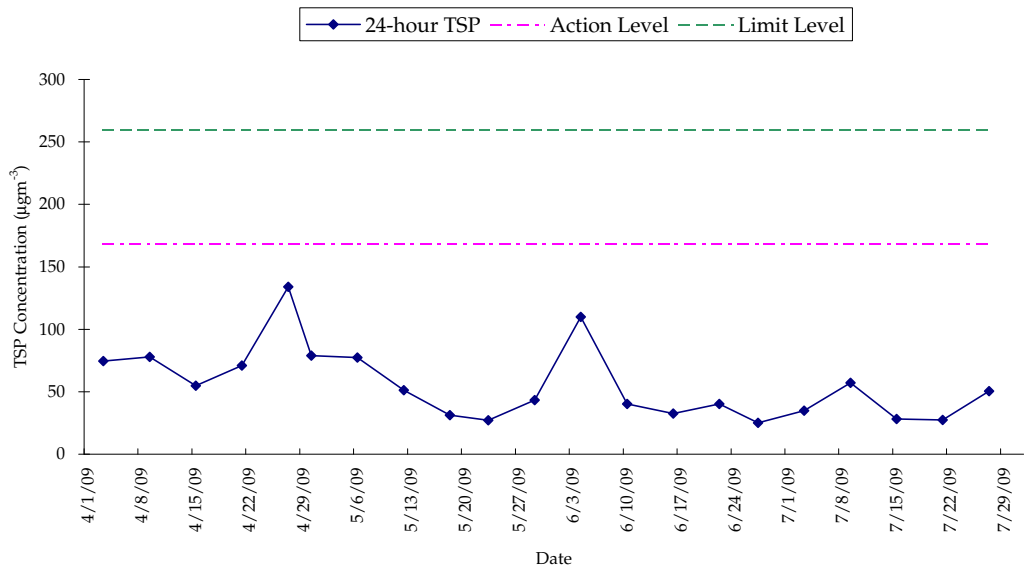


Figure G3 - Measured 1-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM1

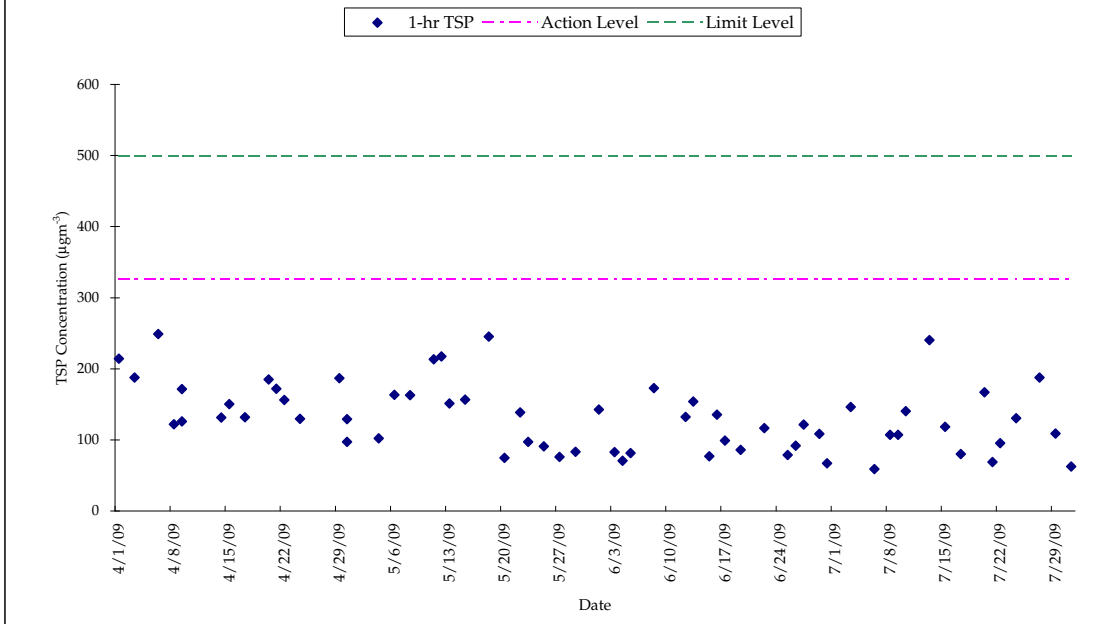
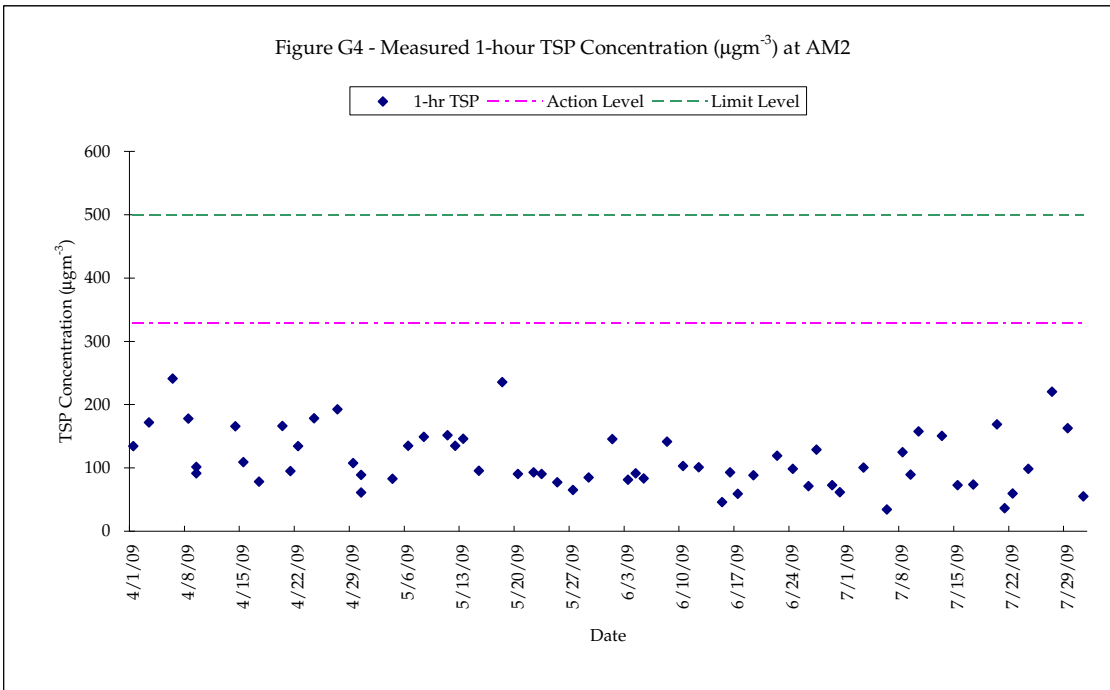


Figure G4 - Measured 1-hour TSP Concentration ($\mu\text{g}\text{m}^{-3}$) at AM2



Annex G

Water Quality Monitoring Results

Figure G1 - Water Quality Monitoring Results (Mid Ebb)

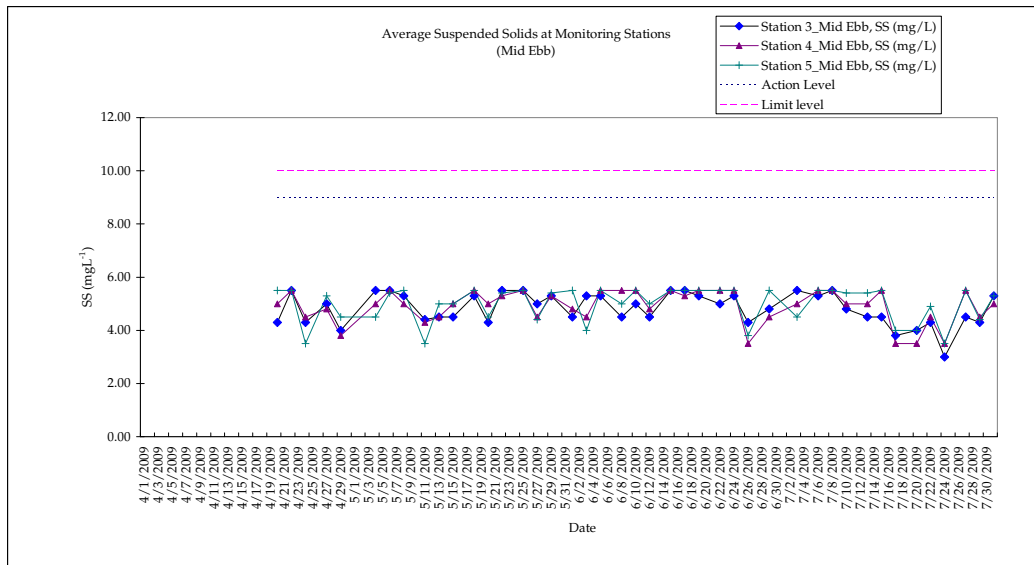
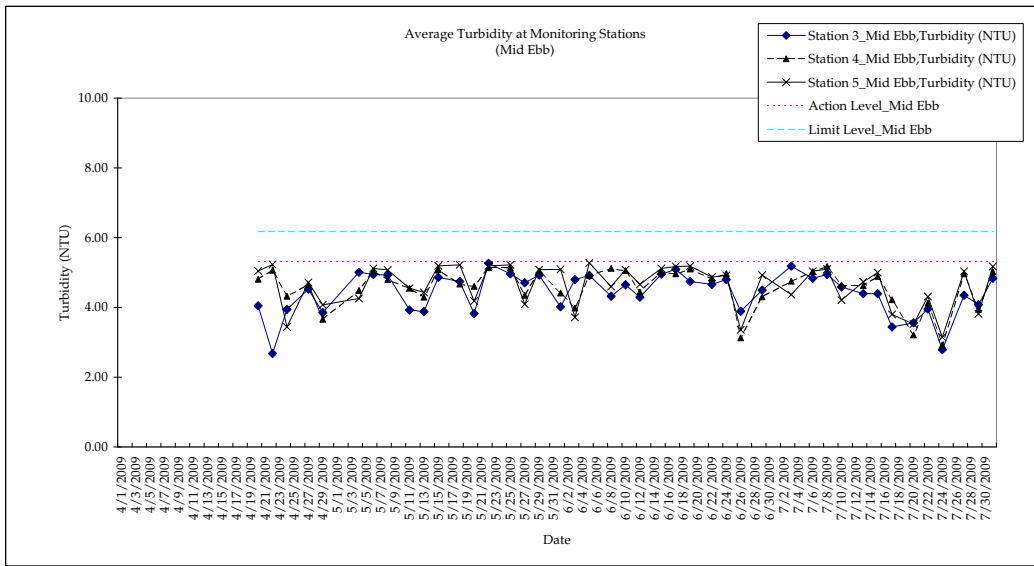
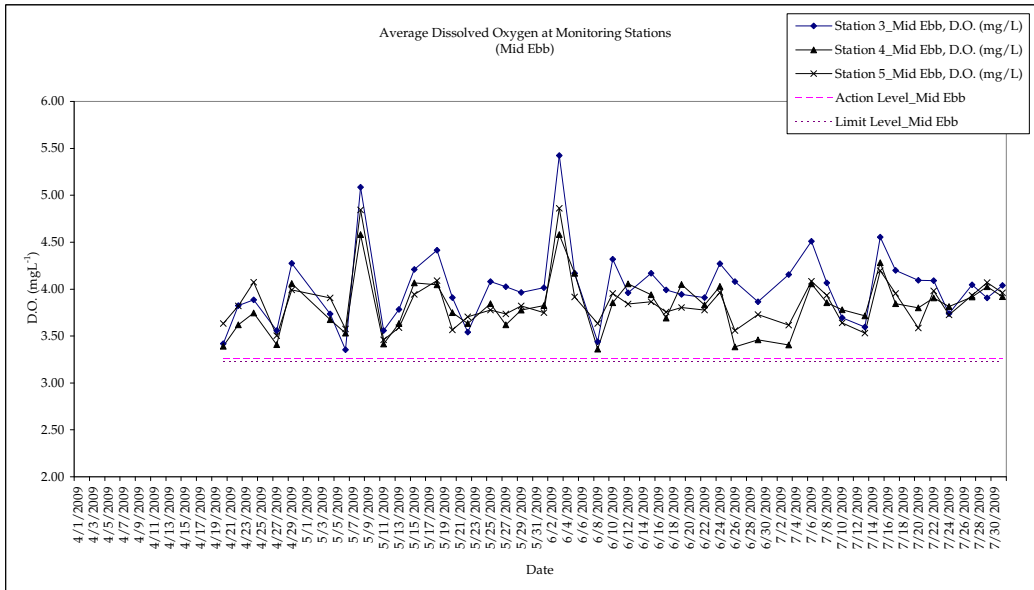
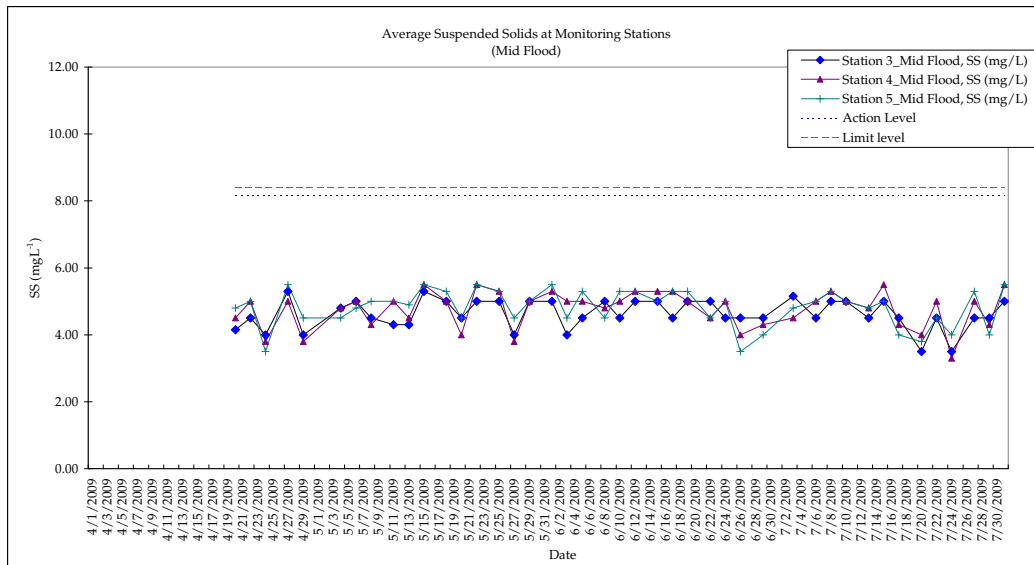
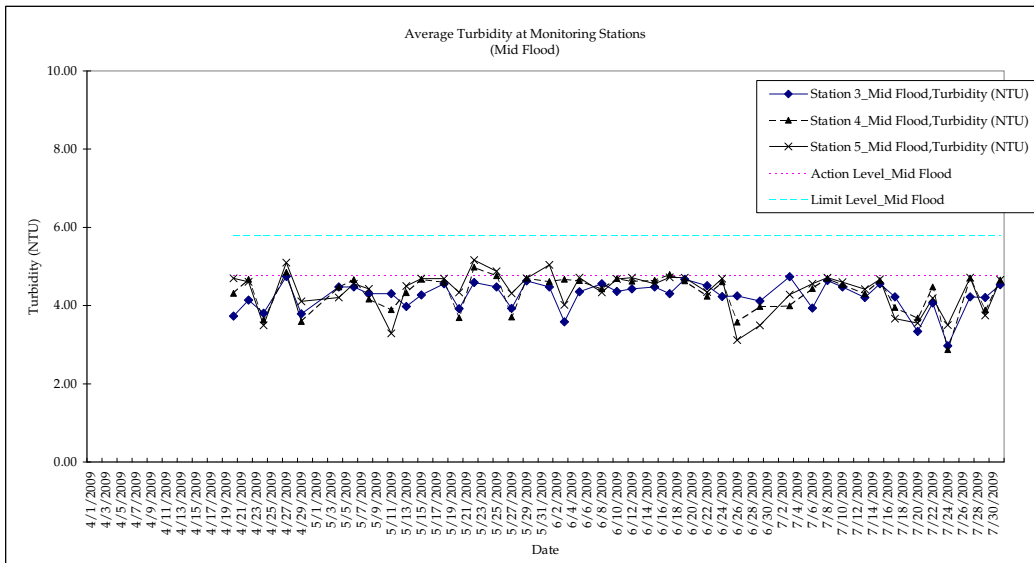
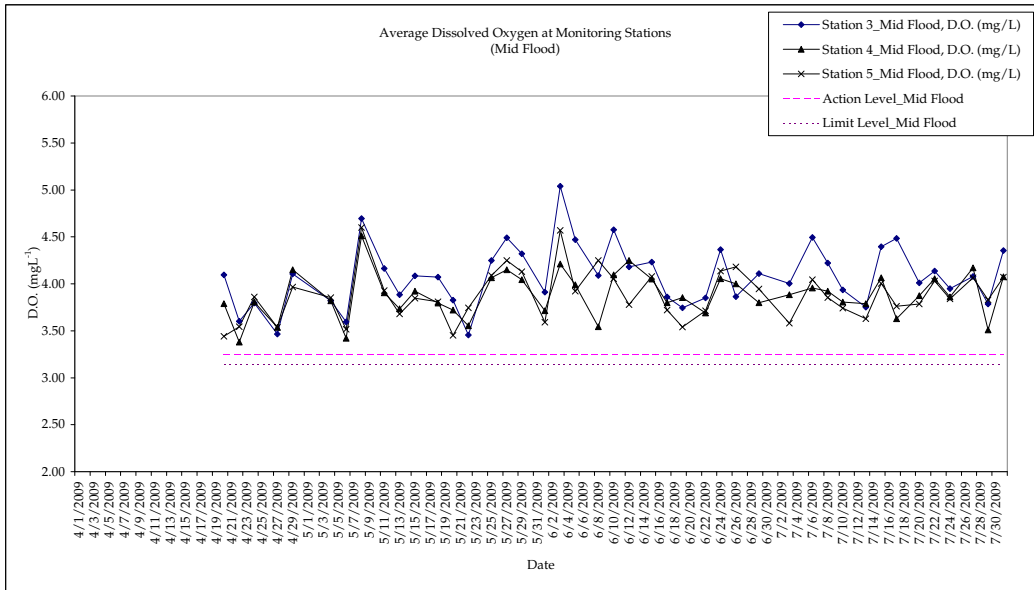


Figure G2 - Water Quality Monitoring Results (Mid Flood)



Water Quality Monitoring Results for Station 3

Date	5/4/2009			5/4/2009			5/6/2009			5/6/2009			5/8/2009			5/8/2009			5/11/2009			5/11/2009			5/13/2009			5/13/2009					
Time (hh:mm)	08:40 - 08:53			14:30 - 14:42			10:00 - 10:15			16:30 - 16:45			11:15 - 11:32			17:50 - 18:06			07:00 - 07:14			13:00 - 13:15			7:40 - 7:56			14:00 - 14:17					
Ambient Temperature	24			26			26			26			27			26			24			30			27			31					
Weather	Cloudy			Fine			Cloudy			Cloudy			Fine			Fine			Cloudy			Sunny			Sunny			Sunny					
Water Depth (m)	8.40			8.80			9.80			9.20			12.30			11.80			9.20			7.00			10.80			9.20					
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-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	Trial 1	Trial 2	Average			
Water Temperature (°C)	24.3	24.4	24.4	24.9	25.0	25.0	24.1	24.2	24.2	25.2	25.1	25.2	23.4	23.5	23.5	23.8	23.8	23.8	21.6	21.6	21.6	24.9	25.0	25.0	24.0	24.0	24.0	24.0	24.0	24.0	25.3	25.2	25.3
Salinity (ppt)	30.3	30.4	30.4	31.2	31.1	31.2	30.9	30.8	30.9	30.9	31.0	31.0	31.2	31.5	31.4	31.8	31.6	31.7	30.4	30.5	30.5	30.1	30.1	30.1	30.3	30.1	30.2	30.2	30.9	31.0	31.0	31.0	31.0
D.O. (mg/L)	3.75	3.72	3.7	3.82	3.82	3.8	3.37	3.34	3.4	3.57	3.62	3.6	5.04	5.13	5.1	4.68	4.71	4.7	4.12	4.21	4.2	3.58	3.54	3.6	3.89	3.88	3.9	3.80	3.77	3.8	3.8	3.8	3.8
D.O. Saturation (%)	53.3	52.8	53.1	54.2	54.2	54.2	48.5	48.0	48.3	51.7	52.4	52.1	71.2	72.0	71.6	65.5	66.0	65.8	57.1	58.3	57.7	50.0	49.4	49.7	55.2	55.0	55.1	54.0	53.5	53.8	53.8	53.8	53.8
Turbidity (NTU)	5.01	5.00	5.0	4.48	4.47	4.5	4.97	4.92	4.9	4.49	4.46	4.5	4.87	4.98	4.9	4.31	4.30	4.3	4.28	4.33	4.3	3.89	3.97	3.9	4.00	3.95	4.0	3.90	3.86	3.9	3.9	3.9	3.9
SS* (mg/L)	5.5	5.5	5.5	4.8	4.8	4.8	5.5	5.5	5.5	5.0	5.0	5.0	5.3	5.3	5.3	4.5	4.5	4.5	4.3	4.3	4.3	4.5	4.3	4.4	4.3	4.3	4.3	4.5	4.5	4.5	4.5	4.5	4.5
Remarks	General Earth Work			General Earth Work			No construction activities were observed			General Earth Works			Excavation work in progress			No construction activities were observed			No construction activities were observed.			General earth work			No construction activities were observed			Welding work					

* 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	5/4/2009			5/4/2009			5/6/2009			5/6/2009			5/8/2009			5/8/2009			5/11/2009			5/11/2009			5/13/2009			5/13/2009		
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	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	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	Y	Y

Within Limit Level ?

Date	5/4/2009			5/4/2009			5/6/2009			5/6/2009			5/8/2009			5/8/2009			5/11/2009			5/11/2009			5/13/2009			5/13/2009		
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	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	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	Y	Y

Water Quality Monitoring Results for Station 3

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009		
Time (hh:mm)	7:00 - 7:15			16:00 - 16:15			7:30 - 7:45			12:00 - 12:15			9:00 - 9:14			14:30 - 14:44			10:30 - 10:42			16:40 - 16:53		
Ambient Temperature	30			30			30			30			30			31			29			29		
Weather	sunny			Sunny			Sunny			Sunny			Cloudy			Cloudy			Cloudy			Cloudy		
Water Depth (m)	9.80			10.40			7.50			9.80			8.50			9.00			8.80			9.40		
Monitoring Depth	7.50			7.50			7.50			7.50			7.50			7.50			7.50			7.50		
Tide	Mid-Flood			Mid-Ebb			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)	25.8	25.9	25.9	26.8	26.9	26.9	26.3	26.4	26.4	26.6	26.7	26.7	25.6	25.5	25.6	26.0	26.0	26.0	27.2	27.2	27.2	27.5	27.5	27.5
Salinity (ppt)	31.2	31.1	31.2	31.2	31.2	31.2	30.9	30.8	30.9	31.0	30.9	31.0	30.2	30.2	30.2	30.3	30.3	30.3	30.1	30.4	30.3	30.5	30.5	30.5
D.O. (mg/L)	4.06	4.11	4.1	4.19	4.23	4.2	4.40	4.43	4.4	4.05	4.09	4.1	3.90	3.92	3.9	3.80	3.85	3.8	3.54	3.54	3.5	3.46	3.45	3.5
D.O. Saturation (%)	58.4	59.1	58.8	60.3	30.9	45.6	62.9	63.3	63.1	57.9	58.4	58.2	55.9	56.0	56.0	56.4	56.6	56.5	50.3	50.3	50.3	49.1	49.0	49.1
Turbidity (NTU)	4.29	4.25	4.3	4.82	4.90	4.9	4.78	4.71	4.7	4.58	4.54	4.6	3.82	3.84	3.8	3.90	3.94	3.9	5.28	5.26	5.3	4.60	4.58	4.6
SS* (mg/L)	5.3	5.3	5.3	4.5	4.5	4.5	5.3	5.3	5.3	5.0	5.0	5.0	4.3	4.3	4.3	4.5	4.5	4.5	5.5	5.5	5.5	5.0	5.0	5.0
Remarks	No construction activities were observed			General Earth Work			No construction activities were observed			General Earth Works			No construction activities were observed			No construction activities were observed.			General earth work			General earth work		

Within Action Level ?

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009		
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	
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	
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	

Within Limit Level ?

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009		
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	
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	
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	

Water Quality Monitoring Results for Station 3

Colour "N"

Date	5/25/2009			5/25/2009			5/27/2009			5/27/2009			5/29/2009			5/29/2009		
Time (hh:mm)	12:30 - 12:44			18:30 - 18:44			14:00 - 14:15			7:12 - 7:26			16:00 - 16:14			08:30 - 08:44		
Ambient Temperature	26			26			29			24			25			25		
Weather	Rainy			Rainy			Cloudy			Cloudy			Rainy			Rainy		
Water Depth (m)	11.20			10.80			8.40			9.80			10.40			9.80		
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)	24.7	24.8	24.8	24.9	24.9	24.9	23.1	23.2	23.2	20.6	20.8	20.7	24.5	24.6	24.6	24.3	24.2	24.3
Salinity (ppt)	27.8	27.7	27.8	27.6	27.7	27.7	31.2	31.2	31.2	30.8	30.9	30.9	29.0	29.1	29.1	28.9	28.9	28.9
D.O. (mg/L)	4.07	4.09	4.1	4.23	4.27	4.3	3.98	4.07	4.0	4.52	4.46	4.5	3.98	3.95	4.0	4.30	4.34	4.3
D.O. Saturation (%)	58.6	58.9	58.8	60.9	61.4	61.2	55.8	57.0	56.4	63.3	62.5	62.9	57.3	56.8	57.1	61.9	62.4	62.2
Turbidity (NTU)	4.95	4.98	5.0	4.49	4.46	4.5	4.66	4.75	4.7	3.94	3.92	3.9	4.90	4.95	4.9	4.60	4.67	4.6
SS* (mg/L)	5.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	5.3	5.3	5.3	5.0	5.0	5.0
Remarks	No construction activities were observed.			No construction activities were observed.			General earth work			No construction activities were observed.			General earth work			General earth work		

Within Action Level ?

Date	5/25/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/25/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/27/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/27/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/29/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/29/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Within Limit Level ?

Date	5/25/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/25/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/27/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/27/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/29/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Date	5/29/2009		
D.O. (mg/L)	Y	Y	Y
Turbidity (NTU)	Y	Y	Y
SS (mg/L)	Y	Y	Y

Water Quality Monitoring Results for Station 4

Date	5/4/2009			5/4/2009			5/6/2009			5/6/2009			5/8/2009			5/8/2009			5/11/2009			5/11/2009			5/13/2009			5/13/2009			
Time (hh:mm)	09:00 - 09:15			14:50 - 15:14			10:27 - 10:40			16:57 - 17:10			11:40 - 11:57			18:14 - 18:30			07:18 - 07:32			13:22 - 13:44			8:02 - 8:16			14:25 - 14:40			
Ambient Temperature	24			26			26			26			27			26			24			30			27			31			
Weather	Cloudy			Fine			Cloudy			Cloudy			Fine			Fine			Cloudy			Sunny			Sunny			Sunny			
Water Depth (m)	4.20			4.00			4.60			4.00			3.80			3.60			4.40			3.00			4.80			4.00			
Monitoring Depth	5.00			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-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	Trial 1	Trial 2	Average	
Water Temperature (°C)	24.5	24.5	24.5	24.9	25.0	25.0	24.8	24.8	24.8	25.4	25.3	25.4	23.6	23.9	23.8	24.0	24.0	24.0	22.3	22.0	22.2	25.2	25.2	25.2	24.2	24.3	24.3	24.3	25.8	25.9	25.9
Salinity (ppt)	30.2	30.0	30.1	31.2	31.1	31.2	30.8	30.9	30.9	30.9	31.0	31.0	31.8	31.7	31.8	31.9	31.9	31.9	30.8	30.8	30.8	30.4	30.4	30.4	29.8	29.9	29.9	30.5	30.5	30.5	
D.O. (mg/L)	3.67	3.68	3.7	3.82	3.82	3.8	3.51	3.55	3.5	3.40	3.44	3.4	4.59	4.57	4.6	4.51	4.51	4.5	3.86	3.95	3.9	3.37	3.46	3.4	3.75	3.72	3.7	3.63	3.64	3.6	
D.O. Saturation (%)	52.1	52.3	52.2	54.2	54.2	54.2	50.5	51.1	50.8	48.9	49.5	49.2	66.5	66.0	66.3	64.6	64.7	64.7	53.5	54.7	54.1	47.1	48.3	47.7	53.3	52.8	53.1	51.5	51.7	51.6	
Turbidity (NTU)	4.51	4.47	4.5	4.48	4.47	4.5	5.03	5.06	5.0	4.63	4.70	4.7	4.81	4.78	4.8	4.17	4.16	4.2	3.87	3.92	3.9	4.62	4.49	4.6	4.35	4.31	4.3	4.28	4.30	4.3	
SS* (mg/L)	5.0	5.0	5.0	4.8	4.8	4.8	5.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	4.3	4.3	4.3	5.0	5.0	5.0	4.3	4.3	4.3	4.5	4.5	4.5	4.5	4.5	4.5	
Remarks	General Earth Work			General Earth Work			General Earth Works			General Earth Works			Excavation work in progress			No construction activities were observed			No construction activities were observed.			Lifting Works			No construction activities were observed.			General earth work.			

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

Within Action Level ?

Date	5/4/2009		5/4/2009		5/6/2009		5/6/2009		5/8/2009		5/8/2009		5/11/2009		5/11/2009		5/13/2009		5/13/2009	
D.O. (mg/L)	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
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	5/4/2009		5/4/2009		5/6/2009		5/6/2009		5/8/2009		5/8/2009		5/11/2009		5/11/2009		5/13/2009		5/13/2009	
D.O. (mg/L)	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
SS (mg/L)	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 4

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009			5/25/2009			5/25/2009			
Time (hh-mm)	7:23 - 7:36			16:22 - 16:37			7:53 - 8:06			12:23 - 12:36			9:20 - 9:35			14:50 - 15:05			10:46 - 10:57			16:57 - 17:10			12:50 - 13:03			18:50 - 19:03			
Ambient Temperature	30			30			30			30			30			31			29			29			26			26			
Weather	sunny			Sunny			Sunny			Sunny			Cloudy			Cloudy			Cloudy			Cloudy			Rainy			Rainy			
Water Depth (m)	4.20			4.40			4.40			4.00			4.30			4.00			4.00			4.00			4.40			3.80			
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			
Tide	Mid-Flood			Mid-Ebb			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)	26.2	26.3	26.3	27.2	27.1	27.2	26.8	26.7	26.8	27.3	27.2	27.3	25.2	25.2	25.2	25.5	25.5	25.5	27.5	27.6	27.6	27.8	27.7	27.8	25.1	25.2	25.2	25.3	25.4	25.4	
Salinity (ppt)	31.4	31.4	31.4	31.4	31.5	31.5	31.2	31.2	31.2	31.2	31.2	31.2	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.7	30.6	30.9	30.8	30.9	28.2	28.1	28.2	27.9	27.9	27.9	
D.O. (mg/L)	3.90	3.94	3.9	4.05	4.08	4.1	4.07	4.02	4.0	3.82	3.77	3.8	3.76	3.74	3.8	3.71	3.73	3.7	3.67	3.60	3.6	3.57	3.54	3.6	3.86	3.83	3.8	4.05	4.08	4.1	
D.O. Saturation (%)	55.7	56.3	56.0	58.3	58.7	58.5	58.2	57.4	57.8	54.2	53.5	53.9	55.6	55.8	55.7	55.0	55.4	55.2	52.1	51.3	51.7	50.7	50.1	50.4	55.5	55.1	55.3	57.9	58.3	58.1	
Turbidity (NTU)	4.65	4.69	4.7	5.07	5.10	5.1	5.15	4.19	4.7	4.63	4.57	4.6	4.62	4.60	4.6	3.88	3.70	3.7	5.15	5.13	5.1	5.00	4.96	5.0	5.12	5.15	5.1	4.78	4.74	4.8	
SS* (mg/L)	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	5.3	5.3	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.3
Remarks	No construction activities were observed			General Earth Work			Lifting activities was observed			General Earth Works			No construction activities were observed			No construction activities were observed.			General Earth Works			Lifting activities was observed			No construction activities were observed.			No construction activities were observed.			

Within Action Level ?

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009			5/25/2009			5/25/2009		
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	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	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	Y	

Within Limit Level ?

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009			5/25/2009			5/25/2009		
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	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	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	Y	

Water Quality Monitoring Results for Station 4

Colour 'N'

Date	5/27/2009			5/27/2009			5/29/2009			5/29/2009		
Time (hh:mm)	14:21 - 14:36			7:32 - 7:45			16:21 - 16:34			08:50 - 09:02		
Ambient Temperature	29			24			25			25		
Weather	Cloudy			Cloudy			Rainy			Rainy		
Water Depth (m)	3.20			3.90			4.40			4.00		
Monitoring Depth	5.00			5.00			5.00			5.00		
Tide	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
Water Temperature (°C)	21.5	21.5	21.5	20.4	20.4	20.4	24.6	24.7	24.7	24.5	24.4	24.5
Salinity (ppt)	31.1	31.1	31.1	31.0	31.0	31.0	29.8	29.7	29.8	29.4	29.5	29.5
D.O. (mg/L)	3.64	3.60	3.6	4.13	4.17	4.2	3.79	3.76	3.8	4.07	4.02	4.0
D.O. Saturation (%)	51.1	50.4	50.8	57.9	57.0	57.5	54.1	53.7	53.9	58.6	57.8	58.2
Turbidity (NTU)	4.31	4.39	4.4	3.67	3.75	3.7	5.07	5.02	5.0	4.71	4.68	4.7
SS* (mg/L)	4.5	4.5	4.5	3.8	3.8	3.8	5.3	5.3	5.3	5.0	5.0	5.0
Remarks	Excavation			No construction activities were observed.			General eath work.			General eath work.		

Within Action Level ?

Date	5/27/2009	
D.O. (mg/L)	Y	Y
Turbidity (NTU)	Y	Y
SS (mg/L)	Y	Y

5/27/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

Within Limit Level ?

Date	5/27/2009	
D.O. (mg/L)	Y	Y
Turbidity (NTU)	Y	Y
SS (mg/L)	Y	Y

5/27/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

Water Quality Monitoring Results for Station 5

Date	5/4/2009			5/4/2009			5/6/2009			5/6/2009			5/8/2009			5/8/2009			5/11/2009			5/11/2009			5/13/2009			5/13/2009		
Time (hh:mm)	09:22 - 09:36			15:20 - 15:35			10:45 - 10:58			17:15 - 17:28			12:00 - 12:15			18:35 - 18:50			07:35 - 07:48			13:50 - 14:02			8:20 - 8:34			14:45 - 15:00		
Ambient Temperature	24			26			26			26			27			26			24			30			27			31		
Weather	Cloudy			Fine			Cloudy			Cloudy			Fine			Fine			Cloudy			Sunny			Sunny			Sunny		
Water Depth (m)	4.40			4.60			4.40			3.80			4.20			4.60			4.20			3.00			5.20			4.40		
Monitoring Depth	5.00			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-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	Trial 1	Trial 2	Average
Water Temperature (°C)	24.7	24.6	24.7	25.1	25.0	25.1	24.9	25.0	25.0	25.4	25.4	25.4	23.5	23.5	23.5	24.0	23.9	24.0	22.4	22.4	22.4	25.3	25.2	25.3	24.6	24.4	24.5	25.8	25.7	25.8
Salinity (ppt)	29.5	29.5	29.5	30.2	30.1	30.2	30.9	30.9	30.9	31.0	31.0	31.0	31.9	31.9	31.9	32.0	32.2	32.1	30.9	30.9	30.9	30.6	30.6	30.6	30.4	30.7	30.6	30.6	30.8	30.7
D.O. (mg/L)	3.90	3.91	3.9	3.85	3.86	3.9	3.59	3.56	3.6	3.50	3.53	3.5	4.85	4.84	4.8	4.60	4.60	4.6	3.97	3.89	3.9	3.49	3.43	3.5	3.68	3.68	3.7	3.59	3.59	3.6
D.O. Saturation (%)	55.0	55.3	55.2	54.7	54.8	54.8	52.0	51.6	51.8	50.7	51.1	50.9	68.5	68.5	68.5	66.6	66.8	66.7	55.0	53.9	54.5	48.7	47.9	48.3	52.3	52.3	52.3	51.0	51.0	51.0
Turbidity (NTU)	4.25	4.26	4.3	4.21	4.20	4.2	5.10	5.14	5.1	4.59	4.52	4.6	5.05	5.10	5.1	4.46	4.40	4.4	3.25	3.33	3.3	4.51	4.59	4.6	4.50	4.50	4.5	4.43	4.43	4.4
SS* (mg/L)	4.5	4.5	4.5	4.5	4.5	4.5	5.3	5.5	5.4	4.8	4.8	4.8	5.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	3.5	3.5	3.5	4.8	5.0	4.9	5.0	5.0	5.0
Remarks	General Earth Work			General Earth Work			General Earth Works			General Earth Works			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	5/4/2009			5/4/2009			5/6/2009			5/6/2009			5/8/2009			5/8/2009			5/11/2009			5/11/2009			5/13/2009			5/13/2009		
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	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	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	Y	

Within Limit Level ?

Date	5/4/2009			5/4/2009			5/6/2009			5/6/2009			5/8/2009			5/8/2009			5/11/2009			5/11/2009			5/13/2009			5/13/2009		
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	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	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	Y	

Water Quality Monitoring Results for Station 5

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009			5/25/2009			5/25/2009					
Time (hh:mm)	7:41 - 7:55			16:43 - 16:55			8:11 - 8:25			12:41 - 12:55			9:40 - 9:53			15:15 - 15:30			11:03 - 11:18			17:15 - 17:30			13:06 - 13:18			19:06 - 19:19					
Ambient Temperature	30			30			30			30			30			31			29			29			26			26					
Weather	sunny			Sunny			Sunny			Sunny			Cloudy			Cloudy			Cloudy			Cloudy			Rainy			Rainy					
Water Depth (m)	4.00			4.20			4.60			4.20			4.60			4.60			4.00			4.20			4.60			4.00					
Monitoring Depth	5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00			5.00					
Tide	Mid-Flood			Mid-Ebb			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	Trial 1	Trial 2	Average
Water Temperature (°C)	26.3	26.3	26.3	27.3	27.2	27.3	26.8	26.8	26.8	27.3	27.4	27.4	25.0	25.0	25.0	25.0	25.0	25.0	27.7	27.7	27.7	27.9	27.9	27.9	25.2	25.2	25.2	25.4	25.4	25.4	25.4	25.4	25.4
Salinity (ppt)	31.4	31.3	31.4	31.5	31.4	31.5	31.2	31.3	31.3	31.3	31.2	31.3	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.6	30.6	30.6	28.2	28.2	28.2	28.0	27.9	28.0	28.0	27.9	28.0
D.O. (mg/L)	3.87	3.82	3.8	3.96	3.93	3.9	4.11	4.07	4.1	3.79	3.83	3.8	3.55	3.58	3.6	3.44	3.46	3.5	3.70	3.71	3.7	3.74	3.75	3.7	3.79	3.76	3.8	4.11	4.07	4.1	4.11	4.07	4.1
D.O. Saturation (%)	55.3	54.6	55.0	56.6	56.1	56.4	58.7	58.2	58.5	53.8	54.3	54.1	53.2	53.5	53.4	52.2	52.0	52.1	52.5	52.6	52.6	53.1	53.2	53.2	54.1	53.7	53.9	58.7	58.2	58.5	58.7	58.2	58.5
Turbidity (NTU)	4.70	4.67	4.7	5.21	5.17	5.2	5.24	5.20	5.2	4.70	4.68	4.7	4.16	4.20	4.2	4.33	4.35	4.3	5.19	5.20	5.2	5.17	5.16	5.2	5.24	5.20	5.2	4.86	4.89	4.9	4.86	4.89	4.9
SS* (mg/L)	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.3	5.3	5.3	4.5	4.5	4.5	4.5	4.5	4.5	5.3	5.5	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.3	5.3	5.3	5.3
Remarks	No construction activities were observed			General Earth Work			No construction activities were observed			General Earth Works			No construction activities were observed			No construction activities were observed.			General Earth Works			Lifting activities was observed			No construction activities were observed.			No construction activities were observed.					

Within Action Level ?

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009			5/25/2009			5/25/2009					
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	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	N	N	N	Y	Y	Y	Y	Y	Y	N	N	N
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	Y	Y	Y	Y	Y

Within Limit Level ?

Date	5/15/2009			5/15/2009			5/18/2009			5/18/2009			5/20/2009			5/20/2009			5/22/2009			5/22/2009			5/25/2009			5/25/2009					
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	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	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	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 5

Date	5/27/2009			5/27/2009			5/29/2009			5/29/2009		
Time (hh:mm)	14:42 - 14:58			7:50 - 08:04			16:37 - 16:50			09:16 - 09:30		
Ambient Temperature	29			24			25			25		
Weather	Cloudy			Cloudy			Rainy			Rainy		
Water Depth (m)	3.00			3.60			4.60			4.20		
Monitoring Depth	5.00			5.00			5.00			5.00		
Tide	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
Water Temperature (°C)	21.5	21.6	21.6	20.4	20.4	20.4	24.7	24.6	24.7	24.4	24.3	24.4
Salinity (ppt)	30.6	30.7	30.7	31.0	30.9	31.0	29.8	29.8	29.8	29.6	29.7	29.7
D.O. (mg/L)	3.77	3.70	3.7	4.28	4.22	4.3	3.84	3.80	3.8	4.11	4.15	4.1
D.O. Saturation (%)	52.8	51.8	52.3	59.9	59.1	59.5	54.9	54.3	54.6	59.1	59.7	59.4
Turbidity (NTU)	4.06	4.12	4.1	4.34	4.29	4.3	5.05	5.11	5.1	4.73	4.67	4.7
SS* (mg/L)	4.3	4.5	4.4	4.5	4.5	4.5	5.3	5.5	5.4	5.0	5.0	5.0
Remarks	No construction activities were observed			No construction activities were observed.			General eath work			General eath work		

Colour "N"

Within Action Level ?

Date	5/27/2009	
D.O. (mg/L)	Y	Y
Turbidity (NTU)	Y	Y
SS (mg/L)	Y	Y

5/27/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

Within Limit Level ?

Date	5/27/2009	
D.O. (mg/L)	Y	Y
Turbidity (NTU)	Y	Y
SS (mg/L)	Y	Y

5/27/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

5/29/2009	
Y	Y
Y	Y
Y	Y

Water Quality Monitoring Results for Station 3

Date	6/1/09			6/1/09			6/3/09			6/3/09			6/5/09			6/5/09			6/8/09			6/8/09			6/10/09			6/10/09		
Time (hh:mm)	7:35 - 7:46			13:00 - 13:14			09:00 - 09:14			15:30 - 15:44			10:30 - 10:44			17:30 - 17:45			12:30 - 12:44			17:50 - 18:02			13:30 - 13:45			07:00 - 07:15		
Ambient Temperature	27			30			27			29			31			31			30			27			29			29		
Weather	Fine			Fine			Rainy			Cloudy			Sunny			Sunny			Cloudy			Rainy			Cloudy			Cloudy		
Water Depth (m)	9.00			9.10			8.20			8.40			10.20			9.60			7.80			8.80			10.40			9.80		
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)	26.5	26.6	26.6	27.1	27.0	27.1	24.7	24.9	24.8	26.2	26.0	26.1	27.8	27.7	27.8	28.1	28.2	28.2	26.8	26.9	26.9	25.0	25.1	25.1	27.4	27.3	27.4	26.7	26.6	26.7
Salinity (ppt)	30.2	30.2	30.2	30.6	30.6	30.6	30.2	30.1	30.2	31.4	31.4	31.4	29.8	29.9	29.9	29.7	29.8	29.8	31.1	30.9	31.0	30.6	30.6	30.6	28.8	28.7	28.8	28.6	28.5	28.6
D.O. (mg/L)	4.01	4.02	4.0	3.91	3.91	3.9	5.46	5.39	5.4	5.08	5.00	5.0	4.15	4.19	4.2	4.45	4.49	4.5	3.48	3.40	3.4	4.13	4.05	4.1	4.34	4.30	4.3	4.59	4.56	4.6
D.O. Saturation (%)	56.5	56.7	56.6	55.1	55.1	55.1	76.7	75.7	76.2	71.3	70.2	70.8	59.7	60.3	60.0	64.0	64.6	64.3	48.7	47.6	48.2	57.9	56.8	57.4	62.4	61.9	62.2	66.0	65.6	65.8
Turbidity (NTU)	4.02	4.02	4.0	4.50	4.46	4.5	4.83	4.76	4.8	3.52	3.65	3.6	4.89	4.94	4.9	4.33	4.38	4.4	4.28	4.37	4.3	4.60	4.52	4.6	4.69	4.62	4.7	4.34	4.39	4.4
SS* (mg/L)	4.5	4.5	4.5	5.0	5.0	5.0	5.3	5.3	5.3	4.0	4.0	4.0	5.3	5.3	5.3	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.5
Remarks	No construction activities were observed.			General Earth Work			General Earth Works			General Earth Works			General Earth Works			General Earth Works			General Earth Works			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 (POL), the results are for reference only. POL stands for practical quantitation Limit, or lowest reporting limit, which is estimated from the method detection limit (MDL). Normally POL is about 5 times the MDL.

Within Action Level ?																														
Date	6/1/09			6/1/09			6/3/09			6/3/09			6/5/09			6/5/09			6/8/09			6/8/09			6/10/09			6/10/09		
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	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	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	Y	Y
Within Limit Level ?																														
Date	6/1/09			6/1/09			6/3/09			6/3/09			6/5/09			6/5/09			6/8/09			6/8/09			6/10/09			6/10/09		
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	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	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	Y	Y

Water Quality Monitoring Results for Station 3

Date	6/12/09			6/12/09			6/15/09			6/15/09			6/17/09			6/17/09			6/19/09					
Time (hh:mm)	14:30 - 14:48			08:30 - 08:45			16:30 - 16:45			10:00 - 10:15			08:10 - 08:24			13:08 - 13:22			09:10 - 09:22			15:13 - 15:28		
Ambient Temperature	29			26			28			28			28			30			28			30		
Weather	Cloudy			Cloudy			Cloudy			Cloudy			Cloudy			Fine			Rainy			Fine		
Water Depth (m)	8.00			8.40			10.20			9.60			9.20			9.50			8.20			8.60		
Monitoring Depth	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		
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)	25.3	25.3	25.3	25.1	25.2	25.2	27.1	27.2	27.2	26.6	26.7	26.7	26.8	26.8	26.8	28.0	27.8	27.9	26.6	26.6	26.6	27.4	27.6	27.5
Salinity (ppt)	26.8	26.7	26.8	28.0	28.0	28.0	29.6	29.7	29.7	29.4	29.4	29.4	29.5	29.4	29.5	29.6	29.7	29.7	29.2	29.4	29.3	29.7	29.7	29.7
D.O. (mg/L)	3.95	3.97	4.0	4.19	4.17	4.2	4.15	4.19	4.2	4.25	4.21	4.2	3.98	4.00	4.0	3.86	3.86	3.9	3.94	3.95	3.9	3.75	3.74	3.7
D.O. Saturation (%)	54.9	55.3	55.1	58.2	57.8	58.0	59.3	59.9	59.6	60.7	60.2	60.5	56.1	56.4	56.3	54.4	54.5	54.5	54.4	54.7	54.6	51.8	51.6	51.7
Turbidity (NTU)	4.28	4.30	4.3	4.40	4.46	4.4	4.93	4.98	5.0	4.50	4.46	4.5	5.09	5.10	5.1	4.30	4.31	4.3	4.75	4.73	4.7	4.68	4.66	4.7
SS* (mg/L)	4.5	4.5	4.5	5.0	5.0	5.0	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	4.5	4.5	4.5	5.3	5.3	5.3	5.0	5.0	5.0
Remarks	General Earth Work			General Earth Work			Lifting activities			lifting activities			General earth work			General earth work			General earth work			General earth work		

Within Action Level ?

Date	6/12/09		6/12/09		6/15/09		6/15/09		6/17/09		6/17/09		6/19/09		6/19/09	
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	6/12/09		6/12/09		6/15/09		6/15/09		6/17/09		6/17/09		6/19/09		6/19/09	
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

Colour 'N'

Date	6/22/09			6/22/09			6/24/09			6/24/09			6/26/09			6/26/09			6/29/09			6/29/09		
Time (hh:mm)	11:16 - 11:30			17:30 - 17:44			13:00 - 13:15			07:00 - 07:15			15:00 - 15:13			07:30 - 07:44			17:30 - 17:43			11:00 - 11:16		
Ambient Temperature	30			30			30			30			27			26			28			29		
Weather	Cloudy			Cloudy			Cloudy			Cloudy			Rainy			Cloudy			Cloudy			Cloudy		
Water Depth (m)	8.80			9.00			10.60			9.60			7.80			8.80			7.80			8.20		
Monitoring Depth	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		
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)	28.1	28.3	28.2	28.0	27.7	27.9	27.6	27.8	27.7	26.4	26.5	26.5	26.0	25.8	25.9	23.6	23.8	23.7	24.3	24.4	24.4	25.0	25.2	25.1
Salinity (ppt)	27.7	27.9	27.8	27.4	27.1	27.3	29.0	29.0	29.0	28.9	29.0	29.0	30.2	30.2	30.2	30.6	30.7	30.7	31.2	31.2	31.2	31.0	31.1	31.1
D.O. (mg/L)	3.91	3.91	3.9	3.85	3.85	3.9	4.27	4.24	4.3	4.35	4.38	4.4	4.12	4.04	4.1	3.89	3.84	3.9	3.82	3.91	3.9	4.07	4.15	4.1
D.O. Saturation (%)	55.1	55.3	55.2	53.8	53.8	53.8	61.4	61.0	61.2	62.6	63.0	62.8	58.1	56.9	57.5	54.6	53.9	54.3	53.1	54.3	53.7	56.8	58.0	57.4
Turbidity (NTU)	4.66	4.66	4.7	4.50	4.51	4.5	4.80	4.88	4.8	4.20	4.26	4.2	3.85	3.93	3.9	4.28	4.21	4.2	4.47	4.52	4.5	4.18	4.05	4.1
SS* (mg/L)	5.0	5.0	5.0	5.0	5.0	5.0	5.3	5.3	5.3	4.5	4.5	4.5	4.3	4.3	4.3	4.5	4.5	4.5	4.8	4.8	4.8	4.5	4.5	4.5
Remarks	No construction activities were observed.			No construction activities were observed.			Lifting activities were observed.			No construction activities were observed.			General eath work			No construction activities were observed.			General eath work			General eath work		

Within Action Level ?			6/22/09			6/24/09			6/24/09			6/26/09			6/26/09			6/29/09			6/29/09		
Date	6/22/09		6/22/09		6/24/09		6/24/09		6/24/09		6/26/09		6/26/09		6/26/09		6/29/09		6/29/09		6/29/09		
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	
Turbidity (NTU)	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	

Within Limit Level ?			6/22/09			6/24/09			6/24/09			6/26/09			6/26/09			6/29/09			6/29/09		
Date	6/22/09		6/22/09		6/24/09		6/24/09		6/24/09		6/26/09		6/26/09		6/26/09		6/29/09		6/29/09		6/29/09		
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	
Turbidity (NTU)	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	

Water Quality Monitoring Results for Station 4

Date	6/1/09			6/1/09			6/3/09			6/3/09			6/5/09			6/5/09			6/8/09			6/8/09			6/10/09			6/10/09		
Time (hh:mm)	7:50 - 8:05			13:20 - 13:34			09:20 - 09:35			15:52 - 16:05			10:50 - 11:03			17:52 - 18:05			12:50 - 13:03			18:06 - 18:18			13:50 - 14:04			07:20 - 07:33		
Ambient Temperature	27			30			27			29			31			31			30			27			29			29		
Weather	Fine			Fine			Rainy			Cloudy			Sunny			Sunny			Cloudy			Rainy			Cloudy			Cloudy		
Water Depth (m)	4.80			4.20			3.80			4.00			4.40			4.20			3.00			4.60			4.40			4.20		
Monitoring Depth	5.00			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			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)	26.9	26.8	26.9	27.4	27.5	27.5	24.6	24.6	24.6	26.7	26.6	26.7	28.4	28.5	28.5	28.7	28.8	28.8	27.2	27.2	27.2	24.9	25.0	25.0	27.8	27.9	27.9	26.9	26.9	26.9
Salinity (ppt)	29.7	29.5	29.6	30.5	30.3	30.4	30.3	30.3	30.3	30.9	31.0	31.0	30.4	30.5	30.5	30.6	30.5	30.6	31.4	31.4	31.4	30.2	30.2	30.2	29.4	29.3	29.4	29.4	29.3	29.4
D.O. (mg/L)	3.80	3.85	3.8	3.73	3.70	3.7	4.62	4.54	4.6	4.23	4.19	4.2	4.15	4.19	4.2	4.01	3.97	4.0	3.39	3.33	3.4	3.57	3.52	3.5	3.87	3.84	3.9	4.12	4.07	4.1
D.O. Saturation (%)	53.6	54.3	54.0	52.4	51.8	52.1	64.9	63.8	64.4	59.4	58.8	59.1	59.7	60.3	60.0	57.7	57.1	57.4	47.4	46.6	47.0	50.1	49.4	49.8	55.3	54.9	55.1	59.3	58.6	59.0
Turbidity (NTU)	4.40	4.43	4.4	4.61	4.62	4.6	3.92	4.05	4.0	4.71	4.64	4.7	4.89	4.94	4.9	4.67	4.61	4.6	5.09	5.14	5.1	4.39	4.46	4.4	5.02	5.09	5.1	4.65	4.72	4.7
SS* (mg/L)	4.8	4.8	4.8	5.3	5.3	5.3	4.5	4.5	4.5	5.0	5.0	5.0	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	4.8	4.8	4.8	5.5	5.5	5.5	5.0	5.0	5.0
Remarks	No construction activities were observed.			General Earth Work			No construction activities were observed.			Lifting activities			Lifting activities			No construction activities were observed.			Soil back-fill in marine channel.			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	6/1/09		6/1/09		6/3/09		6/3/09		6/5/09		6/5/09		6/8/09		6/8/09		6/10/09		6/10/09	
D.O. (mg/L)	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
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	6/1/09		6/1/09		6/3/09		6/3/09		6/5/09		6/5/09		6/8/09		6/8/09		6/10/09		6/10/09	
D.O. (mg/L)	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
SS (mg/L)	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 4

Date	6/12/09			6/12/09			6/15/09			6/15/09			6/17/09			6/17/09			6/19/09			6/19/09			6/22/09			6/22/09		
Time (hh-mm)	14:56 - 15:09			07:45 - 07:57			16:50 - 17:03			10:20 - 10:33			08:30 - 08:44			13:27 - 13:42			09:27 - 09:40			15:33 - 15:47			11:35 - 11:48			17:50 - 18:04		
Ambient Temperature	29			26			28			28			28			30			28			30			30			30		
Weather	Cloudy			Cloudy			Cloudy			Cloudy			Cloudy			Fine			Rainy			Fine			Cloudy			Cloudy		
Water Depth (m)	4.00			4.40			4.40			4.00			3.40			3.70			4.40			4.60			4.20			3.60		
Monitoring Depth	5.00			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			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)	25.7	25.8	25.8	25.4	25.4	25.4	27.4	27.5	27.5	27.1	27.2	27.2	27.1	27.1	27.1	28.4	28.5	28.5	26.8	26.8	26.8	27.6	27.6	27.6	28.3	28.2	28.3	27.6	27.5	27.6
Salinity (ppt)	28.3	28.4	28.4	28.9	28.9	28.9	29.9	29.9	29.9	29.8	29.7	29.8	29.8	29.9	29.9	30.1	30.1	30.1	28.4	28.5	28.5	27.2	27.3	27.3	27.1	27.2	27.2	26.8	26.8	26.8
D.O. (mg/L)	4.05	4.06	4.1	4.25	4.25	4.3	3.96	3.92	3.9	4.07	4.03	4.1	3.68	3.70	3.7	3.80	3.80	3.8	4.05	4.05	4.1	3.85	3.86	3.9	3.86	3.80	3.8	3.88	3.70	3.7
D.O. Saturation (%)	56.7	56.9	56.8	59.1	59.2	59.2	56.6	56.0	56.3	58.2	57.6	57.9	51.9	52.3	52.1	53.6	53.6	53.6	55.9	56.0	56.0	53.1	53.2	53.2	54.0	53.2	53.6	51.5	51.8	51.7
Turbidity (NTU)	4.43	4.45	4.4	4.62	4.63	4.6	4.99	5.05	5.0	4.69	4.61	4.7	4.98	4.95	5.0	4.81	4.78	4.8	5.09	5.12	5.1	4.63	4.64	4.6	4.81	4.84	4.8	4.23	4.24	4.2
SS* (mg/L)	4.8	4.8	4.8	5.3	5.3	5.3	5.5	5.5	5.5	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	4.5	4.5	4.5
Remarks	Soil back-fill in marine channel.			No construction activities were observed			Lifting activities			lifting activities			General Earth Works and Lifting Activities			General Earth Works			General Earth Works			General Earth Works			General Earth Works			No construction activities were observed.		

Within Action Level ?

Date	6/12/09		6/12/09		6/15/09		6/15/09		6/17/09		6/17/09		6/19/09		6/19/09		6/19/09		6/22/09		6/22/09	
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
Turbidity (NTU)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	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

Within Limit Level ?

Date	6/12/09		6/12/09		6/15/09		6/15/09		6/17/09		6/17/09		6/19/09		6/19/09		6/19/09		6/22/09		6/22/09	
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	
Turbidity (NTU)	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	

Water Quality Monitoring Results for Station 4

Colour "N"

Date	6/24/09			6/24/09			6/26/09			6/26/09			6/29/09			6/29/09		
Time (hh:mm)	13:21 - 13:34			07:21 - 07:34			15:20 - 15:32			07:52 - 08:06			17:50 - 18:04			11:23 - 11:35		
Ambient Temperature	30			30			27			26			28			29		
Weather	Cloudy			Cloudy			Rainy			Cloudy			Cloudy			Cloudy		
Water Depth (m)	4.40			4.00			3.00			3.80			3.40			3.80		
Monitoring Depth	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		
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)	27.9	28.0	28.0	26.7	26.8	26.8	25.2	25.2	25.2	24.0	24.0	24.0	25.2	25.4	25.3	25.8	25.6	25.7
Salinity (ppt)	29.5	29.4	29.5	29.4	29.3	29.4	30.4	30.6	30.5	31.0	31.0	31.0	30.9	30.8	30.9	30.7	30.7	30.7
D.O. (mg/L)	4.01	4.05	4.0	4.07	4.04	4.1	3.43	3.34	3.4	3.97	4.03	4.0	3.49	3.43	3.5	3.84	3.76	3.8
D.O. Saturation (%)	57.3	57.9	57.6	58.6	58.1	58.4	48.3	47.1	47.7	55.7	56.5	56.1	48.5	47.7	48.1	53.6	52.5	53.1
Turbidity (NTU)	5.02	4.93	5.0	4.63	4.59	4.6	3.06	3.20	3.1	3.52	3.64	3.6	4.26	4.35	4.3	3.92	4.04	4.0
SS* (mg/L)	5.5	5.5	5.5	5.0	5.0	5.0	3.5	3.5	3.5	4.0	4.0	4.0	4.5	4.5	4.5	4.3	4.3	4.3
Remarks	Lifting activities were observed.			No construction activities were observed.			Lifting activities was observed			No construction activities were observed.			No construction activities were observed.			Lifting activities was observed		

Within Action Level ?

Date	6/24/09		6/24/09		6/26/09		6/26/09		6/29/09		6/29/09	
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	6/24/09		6/24/09		6/26/09		6/26/09		6/29/09		6/29/09	
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 5

Date	6/1/09			6/1/09			6/3/09			6/3/09			6/5/09			6/5/09			6/8/09			6/8/09			6/10/09			6/10/09		
Time (hh:mm)	8:13 - 8:25			13:41 - 13:55			09:40 - 09:55			16:09 - 16:24			11:06 - 11:19			18:08 - 18:20			13:08 - 13:23			18:23 - 18:37			14:07 - 14:20			07:36 - 07:50		
Ambient Temperature	27			30			27			29			31			31			30			27			29			29		
Weather	Fine			Fine			Rainy			Cloudy			Sunny			Sunny			Cloudy			Rainy			Cloudy			Cloudy		
Water Depth (m)	5.00			4.60			3.80			3.80			4.60			4.00			3.20			4.80			4.40			4.40		
Monitoring Depth	5.00			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			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)	26.8	26.7	26.8	27.5	27.5	27.5	24.7	24.8	24.8	26.5	26.5	26.5	28.6	28.7	28.7	28.8	28.9	28.9	27.1	27.1	27.1	25.2	25.2	25.2	27.9	27.9	27.9	26.9	26.8	26.9
Salinity (ppt)	29.8	29.8	29.8	30.0	30.1	30.1	30.5	30.5	30.5	31.2	31.2	31.2	30.5	30.4	30.5	30.6	30.6	30.6	31.2	31.2	31.2	30.2	30.3	30.3	29.5	29.4	29.5	29.4	29.4	29.4
D.O. (mg/L)	3.75	3.75	3.8	3.58	3.60	3.6	4.89	4.83	4.9	4.65	4.49	4.6	3.90	3.93	3.9	3.94	3.90	3.9	3.68	3.59	3.6	4.29	4.21	4.3	3.94	3.97	4.0	4.07	4.04	4.1
D.O. Saturation (%)	52.9	53.0	53.0	50.5	50.9	50.7	68.7	67.8	68.3	65.3	63.1	64.2	55.7	56.1	55.9	56.7	56.1	56.4	51.5	50.2	50.9	60.2	59.1	59.7	56.3	56.7	56.5	58.2	57.7	58.0
Turbidity (NTU)	5.10	5.08	5.1	5.04	5.05	5.0	3.66	3.77	3.7	3.98	4.05	4.0	5.30	5.25	5.3	4.70	4.73	4.7	4.63	4.57	4.6	4.28	4.40	4.3	5.11	5.06	5.1	4.70	4.66	4.7
SS* (mg/L)	5.5	5.5	5.5	5.5	5.5	5.5	4.0	4.0	4.0	4.5	4.5	4.5	5.5	5.5	5.5	5.3	5.3	5.3	5.0	5.0	5.0	4.5	4.5	4.5	5.5	5.5	5.5	5.3	5.3	5.3
Remarks	No construction activities were observed.			General Earth Work			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	6/1/09			6/1/09			6/3/09			6/3/09			6/5/09			6/5/09			6/8/09			6/8/09			6/10/09			6/10/09		
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	Y	Y
Turbidity (NTU)	Y	Y	Y	N	N	N	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	Y	Y

Within Limit Level ?

Date	6/1/09			6/1/09			6/3/09			6/3/09			6/5/09			6/5/09			6/8/09			6/8/09			6/10/09			6/10/09		
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	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	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	Y	Y

Water Quality Monitoring Results for Station 5

Date	6/12/09			6/12/09			6/15/09			6/15/09			6/17/09			6/17/09			6/19/09			6/19/09			6/22/09			6/22/09		
Time (hh:mm)	15:14 - 15:30			08:03 - 08:18			17:07 - 17:20			10:37 - 10:50			08:49 - 09:02			13:47 - 14:02			09:44 - 09:58			15:52 - 16:05			11:53 - 12:06			18:08 - 18:23		
Ambient Temperature	29			26			28			28			28			30			28			30			30			30		
Weather	Cloudy			Cloudy			Cloudy			Cloudy			Cloudy			Fine			Rainy			Fine			Cloudy			Cloudy		
Water Depth (m)	4.20			4.80			4.60			4.20			3.80			4.00			4.80			4.90			3.80			3.50		
Monitoring Depth	5.00			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			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)	25.6	25.6	25.6	25.1	25.3	25.2	27.5	27.5	27.5	27.2	27.2	27.2	27.2	27.2	27.2	28.6	28.4	28.5	27.0	27.0	27.0	27.7	27.8	27.8	28.2	28.2	28.2	27.5	27.4	27.5
Salinity (ppt)	27.3	27.5	27.4	27.6	27.2	27.4	29.8	29.8	29.8	29.9	29.8	29.9	30.0	29.8	29.9	30.2	30.2	30.2	28.8	28.7	28.8	27.0	27.1	27.1	27.0	27.1	27.1	26.6	26.6	26.6
D.O. (mg/L)	3.82	3.86	3.8	3.79	3.77	3.8	3.88	3.85	3.9	4.10	4.06	4.1	3.76	3.75	3.8	3.73	3.71	3.7	3.81	3.80	3.8	3.55	3.53	3.5	3.80	3.75	3.8	3.71	3.72	3.7
D.O. Saturation (%)	53.1	53.7	53.4	52.3	51.9	52.1	55.4	55.0	55.2	58.2	57.6	57.9	53.0	52.8	52.9	52.5	52.2	52.4	52.2	52.0	52.1	49.0	48.6	48.8	53.1	52.3	52.7	52.1	52.2	52.2
Turbidity (NTU)	4.68	4.65	4.7	4.70	4.72	4.7	5.15	5.09	5.1	4.53	4.58	4.6	5.17	5.18	5.2	4.72	4.72	4.7	5.18	5.18	5.2	4.71	4.72	4.7	4.86	4.88	4.9	4.34	4.35	4.3
SS* (mg/L)	5.0	5.0	5.0	5.3	5.3	5.3	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.3	5.3	5.3	5.5	5.5	5.5	5.3	5.3	5.3	5.5	5.5	5.5	4.5	4.5	4.5
Remarks	General Earth Work			No construction activities were observed			No construction activities were observed			No construction activities were observed			General Earth Works			General Earth Works			General Earth Works			General Earth Works			General Earth Works			No construction activities were observed.		

Within Action Level ?

Date	6/12/09			6/12/09			6/15/09			6/15/09			6/17/09			6/17/09			6/19/09			6/19/09			6/22/09			6/22/09		
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	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	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	Y	Y

Within Limit Level ?

Date	6/12/09			6/12/09			6/15/09			6/15/09			6/17/09			6/17/09			6/19/09			6/19/09			6/22/09			6/22/09		
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	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	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	Y	Y

Water Quality Monitoring Results for Station 5

Date	6/24/09			6/24/09			6/26/09			6/26/09			6/29/09			6/29/09		
Time (hh:mm)	13:37 - 13:50			07:37 - 07:50			15:38 - 15:52			08:12 - 08:24			18:10 - 18:23			11:40 - 11:54		
Ambient Temperature	30			30			27			26			28			29		
Weather	Cloudy			Cloudy			Rainy			Cloudy			Cloudy			Cloudy		
Water Depth (m)	4.60			4.20			3.00			3.60			3.60			3.80		
Monitoring Depth	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		
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)	28.0	28.0	28.0	26.8	26.7	26.8	25.1	25.0	25.1	24.0	24.1	24.1	25.4	25.4	25.4	25.6	25.6	25.6
Salinity (ppt)	29.5	29.5	29.5	29.4	29.4	29.4	30.4	30.4	30.4	30.9	30.9	30.9	30.6	30.8	30.7	30.8	30.9	30.9
D.O. (mg/L)	3.94	3.99	4.0	4.12	4.15	4.1	3.59	3.53	3.6	4.21	4.15	4.2	3.77	3.69	3.7	3.97	3.92	3.9
D.O. Saturation (%)	56.3	57.0	56.7	58.9	59.3	59.1	50.6	49.8	50.2	59.0	58.2	58.6	52.4	51.3	51.9	55.4	54.7	55.1
Turbidity (NTU)	4.94	4.90	4.9	4.67	4.70	4.7	3.33	3.39	3.4	3.08	3.15	3.1	4.97	4.89	4.9	3.54	3.45	3.5
SS* (mg/L)	5.5	5.5	5.5	5.0	5.0	5.0	3.8	3.8	3.8	3.5	3.5	3.5	5.5	5.5	5.5	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		

Colour "N"

Within Action Level ?

Date	6/24/09			6/24/09			6/26/09			6/26/09			6/29/09			6/29/09		
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	6/24/09			6/24/09			6/26/09			6/26/09			6/29/09			6/29/09		
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 3

Date	7/3/09			7/3/09			7/6/09			7/6/09			7/8/09			7/8/09			7/10/09			7/10/09			7/13/09			7/13/09								
Time (hh:mm)	10:30 - 10:42			17:30 - 17:46			11:30 - 11:45			18:00 - 18:15			13:00 - 13:15			18:00 - 18:15			13:30 - 13:32			07:30 - 07:42			15:00 - 15:13			09:15 - 09:29								
Ambient Temperature	31			31			30			30			31			31			33			29			34			31								
Weather	Cloudy			Cloudy			Cloudy			Cloudy			Sunny			Fine			Sunny			Fine			Sunny			Sunny								
Water Depth (m)	9.50			9.60			10.20			9.60			10.40			9.60			8.20			8.80			9.00			9.40								
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	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	25.7	25.7	25.7	25.5	25.5	25.5	27.8	27.9	27.9	28.1	28.0	28.1	28.4	28.3	28.4	28.6	28.5	28.6	30.3	30.5	30.4	28.7	28.8	28.8	32.1	32.0	32.1	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
Salinity (ppt)	29.7	29.8	29.8	29.8	29.8	29.8	29.4	29.5	29.5	29.6	29.5	29.6	30.1	30.2	30.2	30.3	30.3	30.3	31.4	31.5	31.5	30.6	30.6	30.6	31.6	31.9	31.8	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
D.O. (mg/L)	4.15	4.16	4.2	4.01	4.00	4.0	4.49	4.53	4.5	4.52	4.47	4.5	4.05	4.08	4.1	4.20	4.24	4.2	3.71	3.68	3.7	3.94	3.93	3.9	3.58	3.61	3.6	3.75	3.75	3.8	3.75	3.75	3.8	3.75	3.75	3.8
D.O. Saturation (%)	56.7	56.8	56.8	55.2	55.2	55.2	64.6	65.2	64.9	65.0	64.3	64.7	58.3	58.7	58.5	60.4	61.0	60.7	52.3	51.7	52.0	55.6	55.4	55.5	49.4	49.8	49.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
Turbidity (NTU)	5.16	5.20	5.2	4.72	4.75	4.7	4.80	4.87	4.8	3.93	3.95	3.9	4.97	4.92	4.9	4.60	4.68	4.6	4.58	4.60	4.6	4.45	4.50	4.5	4.39	4.40	4.4	4.19	4.23	4.2	4.19	4.23	4.2	4.19	4.23	4.2
SS* (mg/L)	5.5	5.5	5.5	5.0	5.3	5.2	5.3	5.3	5.3	4.5	4.5	4.5	5.5	5.5	5.5	5.0	5.0	5.0	4.8	4.8	4.8	5.0	5.0	5.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Remarks	General Earth Work			General Earth Work			General Earth Work			No construction activities were observed.			General Earth Works			No construction activities were observed.			General Earth Works			No construction activities were observed.			General Earth Works			General Earth Works								

* 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	7/3/09			7/3/09			7/6/09			7/6/09			7/8/09			7/8/09			7/10/09			7/10/09			7/13/09			7/13/09					
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	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	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	Y	Y	Y	Y	Y

Within Limit Level ?

Date	7/3/09			7/3/09			7/6/09			7/6/09			7/8/09			7/8/09			7/10/09			7/10/09			7/13/09			7/13/09					
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	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	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	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 3

Date	7/15/09			7/15/09			7/17/09			7/17/09			7/20/09			7/20/09			7/22/09			7/22/09		
Time (hh:mm)	16:00 - 16:15			11:00 - 11:15			08:00 - 08:14			13:45 - 13:58			10:30 - 10:43			17:28 - 17:42			11:45 - 11:57			18:00 - 18:15		
Ambient Temperature	30			30			29			34			29			28			33			31		
Weather	Cloudy			Cloudy			Sunny			Sunny			Cloudy			Cloudy			Sunny			Fine		
Water Depth (m)	10.20			9.80			7.80			8.00			8.20			8.80			9.20			9.00		
Monitoring Depth	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		
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)	28.8	28.9	28.9	28.6	28.5	28.6	26.0	25.8	25.9	27.3	27.1	27.2	24.2	24.1	24.2	24.1	24.1	24.1	28.9	28.9	28.9	28.7	28.6	28.7
Salinity (ppt)	29.9	30.0	30.0	29.8	29.7	29.8	30.9	31.1	31.0	30.4	30.4	30.4	30.8	30.9	30.9	31.0	31.0	31.0	30.0	30.2	30.1	30.3	30.4	30.4
D.O. (mg/L)	4.53	4.58	4.6	4.37	4.42	4.4	4.16	4.24	4.2	4.53	4.44	4.5	4.12	4.07	4.1	4.02	4.00	4.0	4.10	4.08	4.1	4.12	4.15	4.1
D.O. Saturation (%)	65.2	65.9	65.6	62.9	63.6	63.3	57.2	58.3	57.8	62.7	61.5	62.1	57.5	56.8	57.2	55.9	55.6	55.8	57.8	57.5	57.7	58.1	58.5	58.3
Turbidity (NTU)	4.37	4.42	4.4	4.53	4.59	4.6	3.49	3.39	3.4	4.28	4.17	4.2	3.53	3.59	3.6	3.29	3.38	3.3	3.95	3.96	4.0	4.04	4.10	4.1
SS* (mg/L)	4.5	4.5	4.5	5.0	5.0	5.0	3.8	3.8	3.8	4.5	4.5	4.5	4.0	4.0	4.0	3.5	3.5	3.5	4.3	4.3	4.3	4.5	4.5	4.5
Remarks	Lifting activities			Lifting activities			No construction activities were observed			lifting activities			lifting activities			General eath work			General eath work			No construction activities were observed.		

Within Action Level ?

Date	7/15/09			7/15/09			7/17/09			7/17/09			7/20/09			7/20/09			7/22/09			7/22/09		
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
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
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

Within Limit Level ?

Date	7/15/09			7/15/09			7/17/09			7/17/09			7/20/09			7/20/09			7/22/09			7/22/09		
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
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
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

Date	7/24/09			7/24/09			7/27/09			7/27/09			7/29/09			7/29/09			7/31/09			7/31/09		
Time (hh:mm)	14:00 - 14:12			08:05 - 08:16			16:00 - 16:15			09:30 - 09:45			17:30 - 17:42			12:05 - 12:17			09:00 - 09:15			18:00 - 18:14		
Ambient Temperature	32			29			28			28			31			32			31			31		
Weather	Fine			Cloudy			Rainy			Rainy			Fine			Fine			Cloudy			Cloudy		
Water Depth (m)	8.80			9.00			9.80			10.20			8.80			8.40			10.20			9.80		
Monitoring Depth	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		
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)	28.0	27.6	27.8	26.8	26.7	26.8	27.0	27.1	27.1	27.2	27.1	27.2	28.2	28.2	28.2	28.1	28.2	28.2	28.2	28.1	28.2	28.8	28.7	28.8
Salinity (ppt)	28.8	28.9	28.9	29.2	29.0	29.1	29.0	28.9	29.0	28.8	28.9	28.9	28.8	28.7	28.8	28.6	28.5	28.6	29.6	29.7	29.7	29.8	29.7	29.8
D.O. (mg/L)	3.75	3.73	3.7	3.96	3.94	4.0	4.02	4.07	4.0	4.10	4.06	4.1	3.90	3.91	3.9	3.77	3.80	3.8	4.02	4.06	4.0	4.37	4.34	4.4
D.O. Saturation (%)	53.3	53.0	53.2	56.2	56.3	56.3	55.8	56.5	56.2	56.9	56.4	56.7	53.8	53.9	53.9	52.0	52.7	52.4	55.8	56.4	56.1	60.7	60.3	60.5
Turbidity (NTU)	2.77	2.80	2.8	2.99	2.95	3.0	4.33	4.37	4.4	4.24	4.20	4.2	4.08	4.09	4.1	4.21	4.20	4.2	4.82	4.85	4.8	4.57	4.50	4.5
SS* (mg/L)	3.0	3.0	3.0	3.5	3.5	3.5	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.3	4.3	4.5	4.5	4.5	5.3	5.3	5.3	5.0	5.0	5.0
Remarks	General eath work			No construction activities were observed.			General eath work			General eath work			No construction activities were observed.			No construction activities were observed.			General eath work			No construction activities were observed.		

Within Action Level ?

Date	7/24/09			7/24/09			7/27/09			7/27/09			7/29/09			7/29/09			7/31/09			7/31/09		
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	
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	
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	

Within Limit Level ?

Date	7/24/09			7/24/09			7/27/09			7/27/09			7/29/09			7/29/09			7/31/09			7/31/09		
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	
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	
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	

Water Quality Monitoring Results for Station 4

Date	7/3/09			7/3/09			7/6/09			7/6/09			7/8/09			7/8/09			7/10/09			7/10/09			7/13/09			7/13/09		
Time (hh:mm)	10:15 - 10:28			17:18 - 17:25			11:50 - 12:03			18:20 - 18:33			13:22 - 13:35			18:22 - 18:35			13:36 - 13:50			07:47 - 07:58			15:18 - 15:30			09:34 - 09:46		
Ambient Temperature	31			31			30			30			31			31			33			29			34			31		
Weather	Cloudy			Cloudy			Cloudy			Cloudy			Sunny			Fine			Sunny			Cloudy			Fine			Sunny		
Water Depth (m)	3.50			4.00			4.20			4.00			4.40			4.00			3.20			3.60			3.80			4.00		
Monitoring Depth	5.00			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			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)	26.2	26.2	26.2	25.7	25.7	25.7	28.3	28.2	28.3	28.2	28.2	28.2	28.8	28.7	28.8	28.9	28.8	28.9	31.5	31.6	31.6	29.3	29.1	29.2	32.4	32.5	32.5	30.0	30.2	30.1
Salinity (ppt)	30.2	30.2	30.2	30.1	30.1	30.1	29.8	29.7	29.8	29.9	29.8	29.9	30.6	30.7	30.7	30.8	30.7	30.8	31.8	32.0	31.9	30.9	31.2	31.1	32.1	32.2	32.2	30.6	30.1	30.4
D.O. (mg/L)	3.41	3.40	3.4	3.89	3.88	3.9	4.07	4.04	4.1	3.97	3.94	4.0	3.87	3.84	3.9	3.94	3.90	3.9	3.78	3.78	3.8	3.81	3.80	3.8	3.73	3.70	3.7	3.79	3.79	3.8
D.O. Saturation (%)	52.1	52.2	52.2	54.6	54.5	54.6	58.6	58.1	58.4	56.7	56.3	56.5	55.7	55.2	55.5	56.7	56.1	56.4	53.3	53.4	53.4	53.7	53.5	53.6	51.5	51.0	51.3	52.3	52.3	52.3
Turbidity (NTU)	4.76	4.75	4.8	3.99	4.00	4.0	5.01	5.05	5.0	4.47	4.40	4.4	5.15	5.20	5.2	4.72	4.67	4.7	4.63	4.66	4.6	4.55	4.52	4.5	4.62	4.63	4.6	4.31	4.30	4.3
SS* (mg/L)	5.0	5.0	5.0	4.5	4.5	4.5	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.3	5.3	5.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.8	4.8	4.8
Remarks	General Earth Work			General Earth Work			General Earth Work			No construction activities were observed.			General Earth Work			No construction activities were observed			General Earth Works			No construction activities were observed			General Earth Works			General Earth Works		

* For the values of suspended solids less than 5mg/L (POL), 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	7/3/09	
D.O. (mg/L)	Y	Y
Turbidity (NTU)	Y	Y
SS (mg/L)	Y	Y

7/3/09	
Y	Y
Y	Y
Y	Y

7/6/09	
Y	Y
Y	Y
Y	Y

7/6/09	
Y	Y
Y	Y
Y	Y

7/8/09	
Y	Y
Y	Y
Y	Y

7/8/09	
Y	Y
Y	Y
Y	Y

7/10/09	
Y	Y
Y	Y
Y	Y

7/10/09	
Y	Y
Y	Y
Y	Y

7/13/09	
Y	Y
Y	Y
Y	Y

7/13/09	
Y	Y
Y	Y
Y	Y

Within Limit Level ?

Date	7/3/09	
D.O. (mg/L)	Y	Y
Turbidity (NTU)	Y	Y
SS (mg/L)	Y	Y

7/3/09	
Y	Y
Y	Y
Y	Y

7/6/09	
Y	Y
Y	Y
Y	Y

7/6/09	
Y	Y
Y	Y
Y	Y

7/8/09	
Y	Y
Y	Y
Y	Y

7/8/09	
Y	Y
Y	Y
Y	Y

7/10/09	
Y	Y
Y	Y
Y	Y

7/10/09	
Y	Y
Y	Y
Y	Y

7/13/09	
Y	Y
Y	Y
Y	Y

7/13/09	
Y	Y
Y	Y
Y	Y

Water Quality Monitoring Results for Station 4

Date	7/15/09			7/15/09			7/17/09			7/17/09			7/20/09			7/20/09			7/22/09			7/22/09			7/24/09			7/24/09			7/27/09					
Time (hh:mm)	16:22 - 16:35			11:22 - 11:35			08:22 - 08:35			14:05 - 14:18			10:50 - 11:03			17:48 - 18:01			12:04 - 12:17			18:20 - 18:33			14:16 - 14:28			08:20 - 08:30			16:22 - 16:35					
Ambient Temperature	30			30			29			34			29			28			33			31			32			29			28					
Weather	Cloudy			Cloudy			Sunny			Sunny			Cloudy			Cloudy			Sunny			Fine			Fine			Cloudy			Rainy					
Water Depth (m)	4.00			4.40			3.60			3.80			3.20			3.40			4.00			3.80			3.40			4.00			4.00					
Monitoring Depth	5.00			5.00			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			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	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average	Trial 1	Trial 2	Average
Water Temperature (°C)	29.1	29.0	29.1	28.9	29.0	29.0	26.4	26.4	26.4	27.5	27.6	27.6	24.6	24.6	24.6	24.2	24.2	24.2	29.3	29.3	29.3	29.6	29.5	29.6	28.3	28.3	28.3	27.0	27.1	27.1	27.6	27.6	27.5			
Salinity (ppt)	30.5	30.4	30.5	30.4	30.3	30.4	30.6	30.7	30.7	29.9	30.0	30.0	30.2	30.4	30.3	30.6	30.4	30.5	29.6	29.6	29.7	30.7	30.9	30.8	28.5	28.2	28.4	28.4	28.5	28.5	29.9	29.9	29.9			
D.O. (mg/L)	4.30	4.26	4.3	4.05	4.08	4.1	3.88	3.81	3.8	3.67	3.59	3.6	3.88	3.72	3.8	3.96	3.79	3.9	3.91	3.90	3.9	4.05	4.06	4.1	3.81	3.82	3.8	3.88	3.84	3.9	3.89	3.94	3.94			
D.O. Saturation (%)	61.9	61.3	61.6	58.3	58.7	58.5	53.4	52.4	52.9	50.8	49.7	50.3	54.1	51.9	53.0	55.0	52.7	53.9	55.1	55.0	55.1	57.1	57.2	57.2	54.1	54.2	54.2	55.1	54.5	54.8	53.6	54.3	54.3			
Turbidity (NTU)	4.90	4.88	4.9	4.67	4.61	4.6	3.26	5.18	4.2	3.91	3.99	4.0	3.17	3.26	3.2	3.61	3.75	3.7	4.12	4.11	4.1	4.50	4.46	4.5	2.91	2.95	2.9	2.86	2.89	2.9	4.98	4.95	4.95			
SS (mg/L)	5.5	5.5	5.5	5.5	5.5	5.5	3.5	3.5	3.5	4.3	4.3	4.3	3.5	3.5	3.5	4.0	4.0	4.0	4.5	4.5	4.5	5.0	5.0	5.0	3.5	3.5	3.5	3.3	3.3	3.3	5.5	5.5	5.5			
Remarks	Lifting activities			Lifting activities			No construction activities were observed			lifting activities			lifting activities			No construction activities were observed.			General Earth Works			No construction activities were observed.			No construction activities were observed.			No construction activities were observed.			General earth w					

Within Action Level ?		7/15/09			7/15/09			7/17/09			7/17/09			7/20/09			7/20/09			7/22/09			7/22/09			7/24/09			7/24/09			7/27/09		
Date	7/15/09																																	
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	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	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	Y	Y				
Within Limit Level ?		7/15/09			7/15/09			7/17/09			7/17/09			7/20/09			7/20/09			7/22/09			7/22/09			7/24/09			7/24/09			7/27/09		
Date	7/15/09																																	
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	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	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	Y	Y				

Colour "N"

Date	7/27/09						7/29/09						7/29/09						7/31/09						7/31/09							
Time (hh:mm)	09:52 - 10:05						17:47 - 17:59						12:22 - 12:34						09:22 - 09:35						18:21 - 18:34							
Ambient Temperature	28						31						32						31						31							
Weather	Rainy						Fine						Fine						Cloudy						Cloudy							
Water Depth (m)	4.40						3.20						3.40						4.40						4.00							
Monitoring Depth	5.00						5.00						5.00						5.00						5.00							
Tide	Mid-Flood						Mid-Ebb						Mid-Flood						Mid-Ebb						Mid-Flood							
Trial	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)	27.6	27.5	27.4	27.5	28.9	29.0	29.0	29.0	29.0	29.2	29.1	28.5	28.4	28.5	28.9	28.8	28.9	28.9	28.9	28.5	28.4	28.5	30.6	30.5	30.6	30.6	30.5	30.6	30.6	30.5	30.6	
Salinity (ppt)	29.9	29.8	29.7	29.8	29.8	29.6	29.7	28.1	28.0	28.1	30.3	30.4	30.4	30.6	30.5	30.6	30.5	30.6	30.5	30.3	30.4	30.4	30.4	30.5	30.6	30.5	30.6	30.5	30.6	30.5	30.6	
D.O. (mg/L)	3.9	4.15	4.19	4.2	4.02	4.03	4.0	3.50	3.52	3.5	3.94	3.90	3.9	4.09	4.06	4.1	4.09	4.06	4.1	3.50	3.52	3.5	3.94	3.90	3.9	4.09	4.06	4.1	4.09	4.06	4.1	
D.O. Saturation (%)	54.0	57.6	58.2	57.9	55.5	55.6	55.6	48.2	48.5	48.4	54.7	54.2	54.5	56.8	56.4	56.6	56.8	56.4	56.6	48.2	48.5	48.4	54.7	54.2	54.5	56.8	56.4	56.6	56.8	56.4	56.6	
Turbidity (NTU)	5.0	4.68	4.73	4.7	3.95	3.94	3.9	3.88	3.90	3.9	5.01	5.03	5.0	4.64	4.67	4.7	5.01	5.03	5.0	5.01	5.03	5.0	4.64	4.67	4.7	5.01	5.03	5.0	4.64	4.67	4.7	
SS* (mg/L)	5.5	5.0	5.0	5.0	4.5	4.5	4.5	4.3	4.3	4.3	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
Remarks	brk General eath work						No construction activities were observed.						No construction activities were observed.						No construction activities were observed.						No construction activities were observed.							

Within Action Level ?		7/27/09			7/29/09			7/29/09			7/31/09			7/31/09		
Date		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
D.O. (mg/L)		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
SS (mg/L)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Within Limit Level ?		7/27/09			7/29/09			7/29/09			7/31/09			7/31/09		
Date		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
D.O. (mg/L)		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
SS (mg/L)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Water Quality Monitoring Results for Station 5

Date	7/3/09			7/3/09			7/6/09			7/6/09			7/8/09			7/8/09			7/10/09			7/10/09			7/13/09			7/13/09		
Time (hh:mm)	10:00 - 10:12			17:00 - 17:15			12:06 - 12:19			18:36 - 18:49			13:38 - 13:51			18:38 - 18:51			13:55 - 14:08			08:04 - 08:18			15:34 - 15:58			09:50 - 10:02		
Ambient Temperature	31			31			30			30			31			31			33			29			34			31		
Weather	Cloudy			Cloudy			Cloudy			Cloudy			Sunny			Fine			Sunny			Fine			Sunny			Sunny		
Water Depth (m)	3.20			3.60			4.40			3.80			4.60			4.20			3.40			3.60			4.40			4.20		
Monitoring Depth	5.00			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			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)	26.5	26.5	26.5	26.5	26.5	26.5	28.4	28.4	28.4	28.3	28.2	28.3	28.8	28.9	28.9	28.9	28.9	28.9	31.8	31.9	31.9	29.3	29.4	29.4	32.5	32.5	32.5	30.3	30.2	30.3
Salinity (ppt)	30.3	30.4	30.4	30.3	30.3	30.3	29.8	29.9	29.9	29.9	30.0	30.0	30.7	30.7	30.7	30.7	30.8	30.8	32.0	32.0	32.0	31.4	31.3	31.4	31.9	32.0	32.0	30.8	30.7	30.8
D.O. (mg/L)	3.62	3.61	3.6	3.56	3.60	3.6	4.10	4.07	4.1	4.02	4.07	4.0	3.92	3.95	3.9	3.83	3.88	3.9	3.62	3.66	3.6	3.74	3.74	3.7	3.54	3.52	3.5	3.64	3.62	3.6
D.O. Saturation (%)	54.6	54.6	54.6	53.7	53.9	53.8	59.0	58.5	58.8	57.4	58.2	57.8	56.0	56.4	56.2	55.1	55.8	55.5	51.0	51.6	51.3	52.7	52.8	52.8	48.9	48.5	48.7	50.2	50.0	50.1
Turbidity (NTU)	4.36	4.38	4.4	4.26	4.30	4.3	5.07	5.01	5.0	4.59	4.52	4.6	5.07	5.14	5.1	4.70	4.73	4.7	4.74	3.69	4.2	4.59	4.61	4.6	4.72	4.74	4.7	4.42	4.42	4.4
SS* (mg/L)	4.5	4.5	4.5	4.8	4.8	4.8	5.5	5.5	5.5	5.0	5.0	5.0	5.5	5.5	5.5	5.3	5.3	5.3	5.3	5.5	5.4	5.0	5.0	5.0	5.3	5.5	5.4	4.8	4.8	4.8
Remarks	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			General Earth Works			No construction activities were observed			General Earth Works			General Earth Works		

* 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 tm

Within Action Level ?

Date	7/3/09		7/3/09		7/6/09		7/6/09		7/8/09		7/8/09		7/10/09		7/10/09		7/13/09		7/13/09	
D.O. (mg/L)	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
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	7/3/09		7/3/09		7/6/09		7/6/09		7/8/09		7/8/09		7/10/09		7/10/09		7/13/09		7/13/09	
D.O. (mg/L)	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
SS (mg/L)	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 5

Date	7/15/09			7/15/09			7/17/09			7/17/09			7/20/09			7/20/09			7/22/09			7/22/09			7/24/09			7/24/09		
Time (hh:mm)	16:38 - 16:51			11:38 - 11:51			08:40 - 08:54			14:22 - 14:36			11:08 - 11:23			18:06 - 18:20			12:24 - 12:38			18:38 - 18:54			14:33 - 14:46			08:34 - 08:47		
Ambient Temperature	30			30			29			34			29			28			33			31			32			29		
Weather	Cloudy			Cloudy			Sunny			Sunny			Cloudy			Cloudy			Sunny			Fine			Fine			Cloudy		
Water Depth (m)	3.80			4.20			3.20			3.60			3.00			3.20			4.40			4.60			3.30			4.20		
Monitoring Depth	5.00			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			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)	29.0	28.9	29.0	28.9	28.9	28.9	26.3	26.2	26.3	27.5	27.5	27.5	24.7	24.7	24.7	24.3	24.3	24.3	29.2	29.5	29.4	29.8	29.8	29.8	28.4	28.4	28.4	26.9	26.9	26.9
Salinity (ppt)	30.4	30.4	30.4	30.4	30.4	30.4	30.5	30.5	30.5	30.2	30.2	30.2	30.5	30.5	30.5	30.4	30.4	30.4	30.4	30.5	30.5	31.0	30.9	31.0	27.6	27.6	27.6	28.2	28.1	28.2
D.O. (mg/L)	4.17	4.22	4.2	3.98	4.03	4.0	3.92	3.99	4.0	3.79	3.73	3.8	3.64	3.53	3.6	3.82	3.75	3.8	3.98	3.98	4.0	4.02	4.04	4.0	3.75	3.70	3.7	3.83	3.85	3.8
D.O. Saturation (%)	69.0	69.7	69.4	66.9	67.6	67.3	63.9	64.9	64.4	62.5	61.6	62.1	60.8	49.2	60.0	63.1	62.1	62.6	66.1	66.2	66.2	66.7	66.9	66.8	63.4	63.0	63.2	64.3	64.7	64.5
Turbidity (NTU)	4.97	5.03	5.0	4.70	4.64	4.7	3.75	3.84	3.8	3.61	3.73	3.7	3.48	3.56	3.5	3.49	3.62	3.6	4.31	4.31	4.3	4.20	4.18	4.2	3.14	3.16	3.2	3.51	3.50	3.5
SS* (mg/L)	5.5	5.5	5.5	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.8	3.8	3.8	4.6	5.0	4.9	4.5	4.5	4.5	3.5	3.5	3.5	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			General Earth Works			General Earth Works		

Within Action Level ?

Date	7/15/09		7/15/09		7/17/09		7/17/09		7/20/09		7/20/09		7/22/09		7/22/09		7/24/09		7/24/09	
D.O. (mg/L)	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
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	7/15/09		7/15/09		7/17/09		7/17/09		7/20/09		7/20/09		7/22/09		7/22/09		7/24/09		7/24/09	
D.O. (mg/L)	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
SS (mg/L)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Date	7/27/09			7/27/09			7/29/09			7/29/09			7/31/09			7/31/09		
Time (hh:mm)	16:38 - 16:51			10:08 - 10:20			18:05 - 18:19			12:40 - 12:55			09:38 - 09:51			18:37 - 18:50		
Ambient Temperature	28			28			31			32			31			31		
Weather	Rainy			Rainy			Fine			Fine			Cloudy			Cloudy		
Water Depth (m)	4.20			4.60			3.70			3.60			4.20			4.00		
Monitoring Depth	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		
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)	27.6	27.6	27.6	27.4	27.5	27.5	28.8	28.6	28.7	29.4	29.3	29.4	28.5	28.5	28.5	28.9	28.9	28.9
Salinity (ppt)	29.9	30.0	30.0	29.8	29.8	29.8	29.7	29.6	29.7	27.4	27.5	27.5	30.5	30.4	30.5	30.5	30.6	30.6
D.O. (mg/L)	3.92	3.95	3.9	4.08	4.05	4.1	4.08	4.06	4.1	3.81	3.85	3.8	3.98	3.94	4.0	4.05	4.09	4.1
D.O. Saturation (%)	54.0	54.5	54.3	56.7	56.2	56.5	56.3	56.0	56.2	52.7	53.3	53.0	55.3	54.7	55.0	56.2	56.8	56.5
Turbidity (NTU)	5.01	5.07	5.0	4.72	4.70	4.7	3.81	3.82	3.8	3.71	3.78	3.7	5.15	5.19	5.2	4.70	4.62	4.7
SS* (mg/L)	5.5	5.5	5.5	5.3	5.3	5.3	4.3	4.5	4.4	4.0	4.0	4.0	5.3	5.3	5.3	5.5	5.5	5.5
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.		

Colour "N"

Within Action Level ?

Date	7/27/09		7/27/09		7/29/09		7/29/09		7/31/09		7/31/09	
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	7/27/09		7/27/09		7/29/09		7/29/09		7/31/09		7/31/09	
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

Annex H

Waste Flow Table

HKCEC – Expansion Project

Name of Project Proponent: HKTDC

Project Commencement Date: 1 Aug 2006

Construction Completion Date: August 2009

Monthly Summary Waste Flow Table for Year 2009

Year	Actual Quantities of inert C&D Materials (in 10 ³ Kg) ⁽¹⁾⁽²⁾					Actual Quantities of C&D Wastes (in 10 ³ Kg) ⁽⁴⁾									
	Total Quantity Generated	Broken Concrete ⁽³⁾	Reused in the Contract	Reused in other Projects ⁽³⁾	Disposed as Public Fill	Steel Materials				Paper/cardboard packaging		Chemical Waste (L)		General refuse	Other waste ⁽⁶⁾
						Demolition of existing Atrium Link		Demolition of existing working platform		Recycle	Disposal	Recycle	Disposal	Recycle	Disposal
(a)	(b)	(c)	(d)	(a)-(b)-(c)-(d)	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Recycle	Disposal	Disposal	Disposal	
January	485.8	0	0	0	485.8	6 ⁽⁵⁾	0	0	0	0.3	0.05	0	0	815	370.5
February	105.0	0	0	0	105.0	0	0	0	0	0.3	0.05	0	0	1610	586.5
March	305.0	0	0	0	305.0	0	0	3.0	0	0.3	0.05	0	0	927.5	250.8
April	200.0	0	0	0	200.0	0	0	3.0	0	0.3	0.02	0	0	312.5	210.5
May	825.0	0	0	0	825.0	0	0	3.0	0	0.3	0.02	0	0	115	105
June	400.0	0	0	0	400.0	0	0	3.0	0	0.3	0.01	0	0	100	80
July	350	0	0	0	350	0	0	3.0	0	0.3	0.01	0	0	80	60
August															
Sep															
October															
November															
December															
Total	1445.8	0	0	0	1445.8	6 ⁽⁵⁾	0	15.0	0	2.1	0.21	0	0	1320.0	1478.3

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

⁽²⁾ Inert C&D material mainly generated from demolition of atrium link.

⁽³⁾ Broken concrete fro recycling into aggregates.

⁽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.