



CONTRACT NO: KL/2009/01  
SITE FORMATION FOR  
KAI TAK CRUISE TERMINAL DEVELOPMENT  
ENVIRONMENTAL MONITORING & AUDIT  
MONTHLY REPORT  
- MARCH 2011 -

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(Penta-Ocean Construction Company Limited)Email perry.yam@pentaocan.com.hkSubject **Agreement No. CE 19/2009 (EP)****Dredging Works for Proposed Cruise Terminal at Kai Tak –  
Monthly Environmental Monitoring & Audit Report for March 2011**

We refer to the revised Monthly EM&A Report for March 2011 that we received through email on 13 April 2011 and are pleased to confirm we have no further comment on the report.

Should you require further information, please feel free to contact us.

Best regards,

Joseph Poon  
Independent Environmental Checker

JP/CY/by

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**EXECUTIVE SUMMARY**

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – March 2011 for Site Formation for Kai Tak Cruise Terminal Development under Contract No. KL/2009/01. Dredging of marine sediment has been commenced since 28 June 2010 while removal and reconstruction of existing seawall has been commenced since 22 November 2010. This report presents the environmental monitoring findings and information recorded in March 2011.

Construction Activities for the Reporting Period

- ii. During this reporting period, the principal work activities included:
  - Dredging of Marine Sediment;
  - Removal of Existing Seawall;
  - Fabrication and installation of silt curtain for seawall removal;
  - Maintenance of Silt Curtain and Silt Screens; and
  - Sorting of inert C&D material from existing seawall

Water Quality Monitoring

iii. Water quality monitoring at 6 designated monitoring stations namely WSD9, WSD10, WSD15, WSD17, WSD19 and WSD21 were conducted during the reporting period. As per the EM&A Manual, water quality impact monitoring was conducted during the dredging works, which commenced on 28 June 2010. Suspended solid (SS) exceedances of water quality at various monitoring stations are summarized in **Table I**. Investigation found that the 8 out of the 11 SS exceedances were located at the upstream of the Project site.

**Table I Summary of the Exceedances Recorded in Reporting Month**

| Date      | Tide      | Station | Parameter | Exceedance | Value | Possible Cause of Exceedance                          |
|-----------|-----------|---------|-----------|------------|-------|---|
| 4/3/2011  | Mid-flood | WSD10   | SS (mg/L) | AL         | 9.5   | Upstream of the Project                               |
| 4/3/2011  | Mid-flood | WSD15   | SS (mg/L) | LL         | 9.0   | Upstream of the Project                               |
| 4/3/2011  | Mid-ebb   | WSD15   | SS (mg/L) | LL         | 9.5   | Variation in ambient conditions due to tidal movement |
| 7/3/2011  | Mid-ebb   | WSD17   | SS (mg/L) | AL         | 11.0  | Variation in ambient conditions due to tidal movement |
| 18/3/2011 | Mid-flood | WSD15   | SS (mg/L) | LL         | 9.0   | Upstream of the Project                               |
| 18/3/2011 | Mid-flood | WSD17   | SS (mg/L) | AL         | 10.5  | Upstream of the Project                               |
| 21/3/2011 | Mid-flood | WSD10   | SS (mg/L) | AL         | 8.0   | Upstream of the Project                               |
| 21/3/2011 | Mid-flood | WSD15   | SS (mg/L) | AL         | 8.0   | Upstream of the Project                               |
| 23/3/2011 | Mid-ebb   | WSD15   | SS (mg/L) | AL         | 8.0   | Variation in ambient conditions due to tidal movement |
| 29/3/2011 | Mid-flood | WSD15   | SS (mg/L) | AL         | 8.0   | Upstream of the Project                               |
| 31/3/2011 | Mid-flood | WSD15   | SS (mg/L) | LL         | 8.5   | Upstream of the Project                               |

Water Quality against the Tidal Movement along Victoria Harbour

- iv. Comparison of the monitoring station at project downstream stations with the upstream monitoring stations indicates the extent of the remaining 3 SS exceedances recorded at the WSD intakes downstream to the project were attributed to the variation in ambient conditions due to tidal movement across the Victoria Harbour and not related to project works.
- v. The range of recorded SS level exceedances at WSD15 was between 8.0mg/L and 9.5mg/L whenever flood tide and ebb tide. It indicates that the exceedances at WSD15 were a local variation.

Natural Variation Comparison

- vi. Based on the determination of upper bound of the natural variation levels from the Supplementary to Baseline Water Quality Monitoring Report, all SS results in reporting quarter were well within the upper bound of natural variation levels. Thus, all recorded exceedances were well within the tolerance of background level.

Water Quality Surveillance System

- vii. With reference to the upper bound of natural variation levels and self water quality surveillance system conducting in reporting month, it shows no fluctuation over the upper bound and hence this further supports such exceedances are not caused by dredging activities.
- viii. Since the investigations found that the exceedances recorded in the reporting month were not related to the Project, it was concluded that all necessary steps under Event and Action Plan had been taken. The details of Event and Action Plans and Notification of Exceedance summarizing the finding of investigation, possible causes can be referred to Section 6.

Noise Monitoring

- ix. Due to the non-existence of planned NSRs during the reporting period, no noise monitoring was required to be conducted at the planned noise monitoring locations NM1 and NM2.

Waste Management

- x. There were marine sediment (Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) and Type 2 – Confined Marine Disposal) disposed to South Cheung Chau Spoil Disposal Area denoted “KTCT-1” and “KTCT -2” and East Sha Chau Contaminated Mud Disposal Site – Pit IVc respectively. No inert C&D material and non-inert C&D material related to dredging works were disposed off site in the reporting month.

Complaints, Notifications of Summons and Successful Prosecutions



- xi. No complaint, notification of prosecutions or summons was received in the reporting period.

Site Inspections and Audit

- xii. The Environmental Team (ET) conducted five site inspections on 4, 10, 17, 22 and 31 March 2011. Observation and/or recommendation related to the dredging work during the audit sessions were listed in **Table 7.01**.

Compliance with Specific EP Conditions

- xiii. Implementation of contractor's mitigation for dredging work and the associated dredging records were checked. It was concluded that the dredging is conducted orderly in compliance with the EP requirements on site mitigation measures.

Construction Activities for the Coming Reporting Period

- xiv. In the coming reporting period, the principal work activities included:
- Dredging of Marine Sediment;
  - Removal and Reconstruction of Existing Seawall;
  - Fabrication and installation of silt curtain for seawall removal;
  - Maintenance of Silt Curtain and Silt Screens; and
  - Sorting of inert C&D material from existing seawall

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**1 INTRODUCTION****1.1 SCOPE OF THE REPORT**

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) for dredging works to implement the Environmental Monitoring and Audit (EM&A) programme for Site Formation for Kai Tak Cruise Terminal Development under Contract No. KL/2009/01. Dredging of marine sediment has been commenced since 28 June 2010 while removal and reconstruction of existing seawall has been commenced since 22 November 2010.
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.4 under Environmental Monitoring and Audit (EM&A) Manual.
- 1.1.3. This report documents the finding of EM&A works in March 2011. The cut-off date of reporting is at the end of each reporting month.

**1.2 STRUCTURE OF THE REPORT**

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



- Section 7**      ***Site Inspection*** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 8**      ***Complaints, Notification of Summons and Prosecution*** – summarizes the complaints, notification of summons and successful prosecution for breaches of environmental legislation and the actions taken within the reporting period.
- Section 9**      ***Conclusion***

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## **2 PROJECT BACKGROUND**

### **2.1 BACKGROUND**

- 2.1.1. The former Kai Tak Airport located in the south-eastern part of Kowloon Peninsula was the international airport of Hong Kong. The Kai Tak Airport had come into operations since 1920s. The operation of the Kai Tak Airport was ceased and replaced by the new airport at Chek Lap Kok in July 1998. After closure, the disused airport site has been occupied by various temporary uses, including a golf driving range on the runway area.
- 2.1.2. In 2002, the Chief Executive in Council approved the Kai Tak Outline Zoning Plans (No. S/K19/3 and S/K21/3) to provide the statutory framework to proceed with the South East Kowloon Development at the former Kai Tak Airport. However, following the judgment of the Court of Final Appeal in January 2004 regarding the Harbour reclamation, the originally proposed development which involves reclamation has to be reviewed. The Kai Tak Planning Review (KTPR) has resulted with a Preliminary Outline Development Plan (PODP) for Kai Tak in October 2006. Subsequently, the Administration announced in October 2006 a plan to implement a cruise terminal at Kai Tak, as part of the development.
- 2.1.3. Development of the cruise terminal at Kai Tak would require dredging at the existing seawall at the southern tip of the former Kai Tak Airport runway for construction of a quay deck structure for two berths, and dredging the seabed fronting the new quay to provide necessary manoeuvring basin. The general layout of the proposed cruise terminal construction is shown in **Figure 2.1**.
- 2.1.4. The current Project involves a dredging operation exceeding 500,000m<sup>3</sup> for construction and operation of the proposed cruise terminal at Kai Tak and is therefore classified as a Designated Project under Item C.12, Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Study for the Project has been undertaken in accordance with the EIA Study Brief (No. ESB-159/2006) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM).

### **2.2 SCOPE OF THE PROJECT AND SITE DESCRIPTION**

- 2.2.1. The scope of the Project comprises:
- Dredging of marine sediment of about 700,000 m<sup>3</sup> from the existing seabed (Stage 1 dredging) in the Harbour area off the southern tip of

the former Kai Tak Airport runway to provide the necessary water depth within the manoeuvring area for cruise vessels; and

- Removal of existing seawall of about 322,300m<sup>3</sup> by dredging at the southern tip of the former Kai Tak Airport runway for cruise berth construction.

**2.3 PROJECT ORGANIZATION AND CONTACT PERSONNEL**

2.3.1. Kowloon Development Office of Civil Engineering and Development Department is the overall project controller. For the construction phase of KL/2009/01, Project Engineer, Contractor, Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.3.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in **Figure 2.2**. Key personnel and contact particulars are summarized in **Table 2.2**:

**Table 2.2 Contact Details of Key Personnel**

| Party   | Role                                    | Name              | Post                                    | Contact No. | Contact Fax |
|---|---|-------------------|---|-------------|-------------|
| Civil Engineering and Development Department (Kowloon Development Office) | Project Proponent                       | Ir. KY Shin       | Senior Engineer                         | 2301 1461   | 2301 1277   |
| URS / Scott Wilson Limited  | Engineer's Representative               | Mr. Stephen Cheng | Chief Resident Engineer                 | 2148 7638   | 2148 7277   |
| Penta-Ocean Construction Company Limited                                  | Contractor                              | Mr. PL Yue        | Project Manager                         | 2148 7238   | 2148 7138   |
|   |   | Mr. Warren Tse    | Site Agent                              |             |             |
|   |   | Mr. Perry Yam     | Environmental Officer                   |             |             |
| Fugro (HK) Limited  | Independent Environmental Checker (IEC) | Mr. Joseph Poon   | Independent Environmental Checker (IEC) | 2450 8238   | 2450 6138   |
| Lam Environmental Services Limited  | Environmental Team Leader               | Mr. Raymond Dai   | Environmental Team Leader (ETL)         | 2882 3939   | 2882 3331   |

**2.4 CONSTRUCTION PROGRAMME AND WORKS**

2.4.1. During this reporting period, the principal work activities included:

- Dredging of Marine Sediment;
- Removal of Existing Seawall;
- Fabrication and installation of silt curtain for seawall removal;
- Maintenance of Silt Curtain and Silt Screens; and
- Sorting of inert C&D material from existing seawall

**3 IMPLEMENTATION REQUIREMENTS****3.1 STATUS OF REGULATORY COMPLIANCE**

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.1**.

**Table 3.1 Summary of Valid Licences and Permits**

| Permits and/or Licences   | Reference No.   | Issued Date | Valid Period                               | Status in Reporting Month |
|---|---|-------------|--|---------------------------|
| Environmental Permit  | EP-328/2009/A   | 15 Jun 2009 | N/A  | Valid                     |
| Notification of Works Under APCO  | KTCT/907/S/3.14/7.00/L/0060 (POC's REF. number) dated 9 December 2009 | --          | N/A  | Valid                     |
| Construction Noise Permit (CNP)   | GW-RE0442-10  | 10 Sep 2010 | 23 Sep 2010 (00:00) to 22 Mar 2011 (24:00) | Valid till 22 Mar 2011    |
|   | GW-RE0155-11  | 8 Mar 2011  | 23 Mar 2011 (00:00) to 22 Sep 2011 (24:00) | Valid                     |
| Discharge Licence   | WT00005933-2010   | 18 Mar 2010 | Until 31 March 2015                        | Valid                     |
| Registration of Waste Producer  | 5213-247-P2984-01   | 14 Jan 2010 | N/A  | Valid                     |
| Dumping Permit (Type 1 – Open Sea Disposal)   | EP/MD/11-085  | 1 Nov 2010  | 3 Nov 2010 to 2 May 2011                   | Valid                     |
| Dumping Permit (Type 1 – Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal) | EP/MD/11-128  | 31 Jan 2011 | 3 Feb 2011 to 2 Mar 2011                   | Valid till 2 Mar 2011     |
|   | EP/MD/11-144  | 2 Mar 2011  | 3 Mar 2011 to 2 Apr 2011                   | Valid                     |

3.1.2. Implementation status of the recommended mitigation measures during this reporting period is presented in **Appendix 3.1**.



**4 MONITORING REQUIREMENTS**

**4.1 NOISE MONITORING**

4.1.1. In accordance with the EIA Report and the approved EM&A Manual, it is anticipated that construction activities, if unmitigated, would not cause any adverse noise impact to the nearest NSRs in the vicinity of the work site. The predicted noise levels at the NSRs would comply with construction noise criteria. These nearest NSRs are designated for construction noise monitoring as listed in **Table 4.1**.

**Table 4.1 Planned Noise Monitoring Stations**

| Station | Description                               |
|---------|---|
| NM1     | Planned Residential Development (R3 site) |
| NM2     | Planned Residential Development (R3 site) |

4.1.2. As per S.3.1.1 of the approved EM&A Manual states that "Noise levels shall be monitored to evaluate the construction noise impact if there is any planned noise sensitive receivers (NSRs) occupied within 300m from the works area of this Project during the proposed dredging works". Therefore, the impact monitoring for construction noise shall only be carried out when the planned residential development at the two identified monitoring stations are occupied at a later stage.

**4.2 WATER QUALITY MONITORING**

4.2.1. The EIA Report has identified that suspended solids (SS) would be the most critical water quality parameter during the dredging operations. Water quality monitoring for SS and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works for cruise terminal construction to ensure the compliance with the water quality standards.

4.2.2. It is proposed to monitor the water quality at six WSD flushing water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations are shown in **Table 4.2** and **Figure 4.1**.

**Table 4.2 Water Quality Monitoring Stations for Baseline and Impact Monitoring**

| Station Ref. | WSD Flushing Water Intake | Easting  | Northing |
|--------------|---------------------------|----------|----------|
| WSD9         | Tai Wan                   | 837921.0 | 818330.0 |

| Station Ref. | WSD Flushing Water Intake | Easting  | Northing |
|--------------|---------------------------|----------|----------|
| WSD10        | Cha Kwo Ling              | 841900.9 | 817700.1 |
| WSD15        | Sai Wan Ho                | 841110.4 | 816450.1 |
| WSD17        | Quarry Bay                | 839790.3 | 817032.2 |
| WSD21        | Wan Chai                  | 836220.8 | 815940.1 |
| WSD19        | Sheung Wan                | 833415.0 | 816771.0 |

**4.3 WATER QUALITY PARAMETERS**

- 4.3.1. During the period of dredging, monitoring should be undertaken three days per week, at mid-flood and mid-ebb tides, with sampling / measurement at the designated monitoring stations as shown in **Table 4.2**. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. **Table 4.3** shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should not be less than 0.5m.
- 4.3.2. Silt screens shall be deployed at these intakes during the dredging period. It is recommended to conduct the monitoring inside the silt screens at the seawater intake culvert at each seawater pumping station to collect information on the mitigated water quality condition.

**Table 4.3 Water Quality Monitoring Frequency and Parameters**

| Activities  | Monitoring Frequency <sup>1</sup>                   | Parameters <sup>2</sup>                           |
|---|---|---|
| During the 4-week baseline monitoring period                  | Three days per week, at mid-flood and mid-ebb tides | Turbidity (in NTU), Suspended Solids (SS in mg/L) |
| During dredging works for proposed cruise terminal at Kai Tak | Three days per week, at mid-flood and mid-ebb tides | Turbidity (in NTU), Suspended Solids (SS in mg/L) |

Notes:

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

- 4.3.3. The established Action and Limit levels according to the approved baseline monitoring report for monitoring works can be referred to **Appendix 4.1**.
- 4.3.4. Current calibration certificates of equipment are presented in **Appendix 4.2**.

**4.4 SAMPLING PROCEDURES AND MONITORING EQUIPMENT**

- 4.4.1. In-situ measurements and water sampling shall be conducted at mid-depth. Duplicate *in-situ* measurements and water sampling have been conducted in each sampling event. Water samples for all monitoring parameters shall be collected, stored, preserved and analysed according to the Standard Methods, APHA 17 and/or agreed by IEC and EPD.

*Dissolved Oxygen and Temperature Measuring Equipment*

- 4.4.2. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
- a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
  - a temperature of 0-45 degree Celsius

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

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

*Turbidity Measurement Instrument*

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

*Suspended Solids*

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

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

Water Depth Detector

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

Salinity

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

Locating the Monitoring Site

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

Calibration and Accuracy of Instrument

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



4.4.14. The equipment used in the water quality monitoring in the reporting month are summarized in **Table 4.4**. Current calibration certificates of the used equipment are presented in **Appendix 4.2**

**Table 4.4** *Equipment Used in Water Quality Monitoring in the Reporting Month*

| Equipment    | Model           | Qty. |
|--------------|-----------------|------|
| Multi-meter  | YSI Sonde 600XL | 1    |
| Turbidimeter | Hach 2100P      | 1    |

---

**5 MONITORING RESULTS****5.1 WATER MONITORING RESULTS**

- 5.1.1. The water monitoring schedule for the reporting month and coming three months are presented in **Appendix 5.1**.
- 5.1.2. Water monitoring results measured in reporting month are reviewed and presented in **Appendix 5.2**. SS exceedances were recorded on 4, 7, 18, 21, 23, 29 and 31 March 2011. EPD was notified the recorded limit level exceedances via facsimile. Investigation concluded that all exceedances were not related to the Project and details shall be referred in Section 6.
- 5.1.3. The exceedances recorded in the reporting month are concluded not related to the Project, no further steps under Event and Action Plan is needed. The details of Event and Action Plans and Notification of Exceedance summarizing the finding of investigation, possible causes and review of Contractor's mitigation measures can be referred to **Appendix 5.3** and **Appendix 5.7**.

**5.2 WASTE MONITORING RESULTS**

- 5.2.1. No inert C&D material and non-inert C&D material related to dredging works were disposed off site in the reporting month.

**6 COMPLIANCE AUDIT**

**6.1 NOISE MONITORING**

6.1.1. Noise monitoring was not necessary in the reporting period.

**6.2 WATER QUALITY MONITORING**

6.2.1. SS exceedances were recorded on 4, 7 18, 21, 23, 29 and 31 March 2011 in the reporting month. **Table 6.2** summarize the details of SS exceedances recorded. Investigation indicated the exceedances were not related to the Project works.

**Table 6.2 Summary of Exceedances recorded in the Reporting Month**

| Date      | Tide      | Station | Parameter | Exceedance | Value | Possible Cause of Exceedance                          |
|-----------|-----------|---------|-----------|------------|-------|---|
| 4/3/2011  | Mid-flood | WSD10   | SS (mg/L) | AL         | 9.5   | Upstream of the Project                               |
| 4/3/2011  | Mid-flood | WSD15   | SS (mg/L) | LL         | 9.0   | Upstream of the Project                               |
| 4/3/2011  | Mid-ebb   | WSD15   | SS (mg/L) | LL         | 9.5   | Variation in ambient conditions due to tidal movement |
| 7/3/2011  | Mid-ebb   | WSD17   | SS (mg/L) | AL         | 11.0  | Variation in ambient conditions due to tidal movement |
| 18/3/2011 | Mid-flood | WSD15   | SS (mg/L) | LL         | 9.0   | Upstream of the Project                               |
| 18/3/2011 | Mid-flood | WSD17   | SS (mg/L) | AL         | 10.5  | Upstream of the Project                               |
| 21/3/2011 | Mid-flood | WSD10   | SS (mg/L) | AL         | 8.0   | Upstream of the Project                               |
| 21/3/2011 | Mid-flood | WSD15   | SS (mg/L) | AL         | 8.0   | Upstream of the Project                               |
| 23/3/2011 | Mid-ebb   | WSD15   | SS (mg/L) | AL         | 8.0   | Variation in ambient conditions due to tidal movement |
| 29/3/2011 | Mid-flood | WSD15   | SS (mg/L) | AL         | 8.0   | Upstream of the Project                               |
| 31/3/2011 | Mid-flood | WSD15   | SS (mg/L) | LL         | 8.5   | Upstream of the Project                               |

6.2.2. Total 11 numbers of SS exceedances were recorded in the reporting period. Silt curtain and silt screens were checked and confirmed in proper condition during the water monitoring. Investigation found that the 8 out of 11 numbers of SS exceedances were located at upstream of the Project site and these exceedances considered were due to upstream sources of the WSD intakes.

6.2.3. The range of recorded SS level exceedances at WSD15 was between 8.0mg/L and 9.5mg/L whenever flood tide and ebb tide. It indicates that the exceedances at WSD15 were a local variation.

- 6.2.4. For the remaining exceedances, further investigations were conducted to determine the cause of impact in terms of the following areas:
- Water Quality against the Tidal Movement along Victoria Harbour;
  - Natural Variation Comparison; and
  - Water Quality Surveillance System

### **6.3 WATER QUALITY AGAINST THE TIDAL MOVEMENT ALONG VICTORIA HARBOUR**

- 6.3.1. In order to conclude the cause of an adverse water quality impact, the trend across the 6 monitoring stations is reviewed. Whether the adverse impact is due to project work will be evaluated from the trend of SS level in downstream across the Victoria Harbour after passing the project location. By observing this trend of SS, contribution of the adverse water quality impact from the dredging activities under the project can be evaluated by checking if there is a significant rising up trend in the SS level in the WSD intakes at project downstream.
- 6.3.2. Moreover, a comparison of the monitoring station at project downstream stations with the upstream monitoring stations can also indicate whether the extent of exceedance in SS content recorded at the WSD intakes downstream to the project is likely to be caused by upstream source or not. If the SS values of the upstream and downstream show similar levels, the impact at the project downstream stations shall probably be due to the project upstream streams and the contribution from project work can be eliminated.
- 6.3.3. For the 3 downstream exceedances, a review on the tidal movement across the Victoria Harbour is plotted against the SS results against and graphical presentation is presented in **Appendix 5.4**.
- 6.3.4. Investigations on the exceedances recorded downstream of the Project generally found no significant rising up trend of SS levels across the Victoria Harbour after passing the project location. Thus, the 3 downstream exceedances were attributed to the variation in ambient conditions due to tidal movement across the Victoria Harbour and not related to project works.

### **6.4 NATURAL VARIATION COMPARISON**

- 6.4.1. Referring to the ER Letter ref. CEDD/KL/2009/01/M45/130(369767) dated 14 February 2011, a Supplementary to Baseline Water Quality Monitoring Report – Review Action and Limit Levels (Revision 1.0) has been submitted to EPD by ER in February 2011. This report presents the methodology for



enlargement baseline database and the review and determination of the Action and Limit Levels in dry and wet seasons.

6.4.2. On the basis of this Supplementary to Baseline Water Quality Monitoring Report, the maximum SS levels in the establishment of larger baseline database will be applied and acted as the upper bound of natural variation levels for the comparison with SS results in reporting quarter. The upper bound of natural variation levels are shown in **Table 6.4**. The graphic presentation of water quality results with respect to local variation is shown in **Appendix 5.5**.

**Table 6.4 Upper Bound of Natural Variation Levels at Water Monitoring Stations**

| Upper Bound | WSD9 | WSD10 | WSD15 | WSD17 | WSD19 | WSD21 |
|-------------|------|-------|-------|-------|-------|-------|
| Dry         | 12.0 | 19.0  | 14.0  | 16.0  | 18.0  | 15.0  |
| Wet         | 15.1 | 21.2  | 22.7  | 17.9  | 17.1  | 18.8  |

6.4.3. According to the graphic presentation, all SS results in reporting month were below the upper bound of natural variation levels. That means all recorded exceedances well within the tolerance of background level.

**6.5 WATER QUALITY SURVEILLANCE SYSTEM**

6.5.1. 2 self water quality surveillance monitoring events for marine sediment dredging were conducted on 2 and 18 March 2011. Turbidity and SS monitoring were conducted at 12 locations as follows and shown in **Figure 6.1**.

- One sampling point inside the silt curtain (SP1);
- Four sampling points outside the silt curtain (MP1-MP4);
- Seven control points (C1-C7)

6.5.2. The trend of monitoring results from the location of dredging works to the nearest WSD pumping stations were projected for the checking the water quality surveillance. The graphical presentation of the SS levels at SP1, sampling points outside the silt curtain, control points and impact water quality monitoring stations against the distance are shown in **Appendix 6.1**.

6.5.3. Based on the graphic presentation and the trend description of the SS levels in **Appendix 5.6** conclusion of the water quality surveillance can be draw as follows:

- SS levels of MP are lower than SP1;

- When the WSD intakes were located at upstream of the Project, it found that SS level was occasionally higher than the control points and sampling points near dredging area. Thus, uncertain interference of water quality was apparently interfering in the vicinity of intakes frequently;
- For WSD intakes located at downstream of the Project, a higher SS level than the sampling points MP and/or control points were recorded. The trend in the projections indicated that no significant rising of SS in the projection from the dredging area to the control points and the WSD pumping stations.
- Besides, the distance between the WSD intakes and the SP1 are at least more than 1km, the water quality impact was unlikely to cause impact to the WSD intakes.

6.5.4. With reference to the upper bound of natural variation levels and water quality surveillance conducting in reporting period, it shows no fluctuation over the upper bound and hence this further supports such exceedances are not caused by dredging activities.

6.5.5. Since the investigations found that the exceedances recorded in the reporting quarter were not related to the Project, it was concluded that all necessary steps under Event and Action Plan had been taken. The details of Event and Action Plans and Notification of Exceedance summarizing the finding of investigation, possible causes can be referred to the Monthly EM&A Reports.

**6.6 DREDGING AND DISPOSAL**

6.6.1. Implementation of mitigation measures for dredging work and the associated dredging records were checked and the findings are summarized in **Table 6.4.1**.

**Table 6.4.1 Compliance with EP Conditions in the Reporting Month**

| EP Condition   | Compliance Status and/or Recommendation  |
|--|--|
| 2.6<br>Silt Curtain Deployment   | In accordance with the EP requirement and Implementation Schedule for Water Quality Measure  |
| 2.6<br>For removal of the existing seawall and the seabed, Daily Dredging Rate $\leq 4,000\text{m}^3/\text{d}$ Hourly Dredging Rate $\leq 334\text{m}^3/\text{hr}$ | Complied with the EP requirement in reporting month: Daily Dredging Rate maintained at $1084\text{m}^3/\text{day}$ and Hourly Dredging Rate maintained at $145\text{m}^3/\text{hr}$ .  |
| 2.7<br>For removal of marine sediment from seabed, Daily Dredging Rate $\leq 4,000\text{m}^3/\text{d}$ Hourly Dredging Rate $\leq 334\text{m}^3/\text{hr}$         | Complied with the EP requirement in reporting month: Daily Dredging Rate maintained at $2,443\text{m}^3/\text{day}$ and Hourly Dredging Rate maintained at $156\text{m}^3/\text{hr}$ . |

| EP Condition                  | Compliance Status and/or Recommendation                              |
|-------------------------------|--|
| 2.8<br>Silt Screen Deployment | In accordance with the Silt Screen Deployment Plan for all 6 intakes |

6.6.2. The daily and hourly dredging rates were checked and reviewed that were below the EP requirements. It was concluded that the dredging was conducted in compliance with the specific EP requirements.

6.6.3. There were marine sediment (Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) and Type 2 – Confined Marine Disposal) disposed to South Cheung Chau Spoil Disposal Area denoted “KTCT-1” and “KTCT -2” and East Sha Chau Contaminated Mud Disposal Site – Pit IVc respectively. No inert C&D material and non-inert C&D material related to dredging works were disposed off site in the reporting month. The details can be referred to the **Table 6.4.2**.

**Table 6.4.2 Waste Quantities Related To Dredging Works**

| Waste Type   | Quantity this month, m <sup>3</sup><br>(Bulk volume) | Cumulative-to-Date. m <sup>3</sup><br>(Bulk volume) | Disposal / Dumping Ground  |
|--|--|---|--|
| Marine Sediment (Type 1 – Open Sea Disposal)   | 41,713   | 177,590   | South Cheung Chau Spoil Disposal Area denoted “KTCT-1” and “KTCT -2” |
| Marine Sediment (Type 1 – Open Sea Disposal (Dedicated Sites) and Type 2 – Confined Marine Disposal) | 24,127   | 149,354   | East Sha Chau Contaminated Mud Disposal Site – Pit IVc               |

**7 ENVIRONMENTAL SITE AUDIT**

- 7.0.1. Site audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- 7.0.2. The joint site audits were conducted on 4, 10, 17, 22 and 31 March 2011 by the representatives of IEC, ER, the Contractor and the ET. The observation and/or recommendation related to the dredging work was summarized in the **Table 7.0.1**.

**Table 7.0.1 Observation and/or Recommendation during the Site Audit**

| <b>Date</b> | <b>Observations and/or Recommendation</b>   | <b>Action taken by Contractor</b>   | <b>Outcome</b>   |
|-------------|---|---|--|
| 4-Mar-11    | Silt curtain at SDA needed to be repaired; and some floating refuse within the dredging area should be cleaned as soon as possible. | Maintenance the silt curtain in vertical position and clearance of the floating refuse  | Completion as observed during site audit on 10-Mar-2011. |
| 10-Mar-11   | It is reminded that marine dredging process should avoid spillage of silty water to the surrounding area.                           | The practice of dredging process was improved that the grab is held stationary above the water surface within the silt curtain frame before transferring to the hopper barge. | Completion as observed during site audit on 17-Mar-2011. |
| 17-Mar-11   | No dredging related impact was observed.  | N/A   | N/A  |
| 22-Mar-11   | No dredging related impact was observed.  | N/A   | N/A  |
| 31-Mar-11   | No dredging related impact was observed.  | N/A   | N/A  |

**8 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

8.0.1. In this reporting period, no complaint, inspection notice, notification of summons or prosecution was received. Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Tables 8.1, 8.2** and **8.3** respectively.

**Table 8.1 Environmental Complaints Log**

| Complaint Log No. | Date of Receipt | Received From and Received By | Nature of Complaint | Date Investigated | Outcome | Date of Reply |
|-------------------|-----------------|-------------------------------|---------------------|-------------------|---------|---------------|
| NIL               | -               | -                             | -                   | -                 | -       | -             |

**Table 8.2 Cumulative Statistics on Complaints**

| Environmental Parameters | Cumulative No. Brought Forward | No. of Complaints This Month | Cumulative No. Project-to-Date |
|--------------------------|--------------------------------|------------------------------|--------------------------------|
| Air                      | 0                              | 0                            | 0                              |
| Noise                    | 0                              | 0                            | 0                              |
| Water                    | 0                              | 0                            | 0                              |
| Waste                    | 0                              | 0                            | 0                              |
| <b>Total</b>             | <b>0</b>                       | <b>0</b>                     | <b>0</b>                       |

**Table 8.3 Cumulative Statistics on Successful Prosecutions**

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

**9 CONCLUSION**

- 9.0.1. Dredging of marine sediment and removal and reconstruction of existing seawall were commenced on 28 June and 22 November 2010 respectively. The EM&A programme was carried out in accordance with the EM&A Manual requirements. As per the EM&A Manual, water quality impact monitoring was conducted during the dredging work, which was commenced on 28 June 2010.
- 9.0.2. SS exceedances were recorded on 4, 7, 18, 21, 23, 29 and 31 March 2011. Investigation indicated all exceedances were not related to the Project.
- 9.0.3. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in **Table 9.0**. The construction programme of the Project is provided in **Appendix 9.0**.

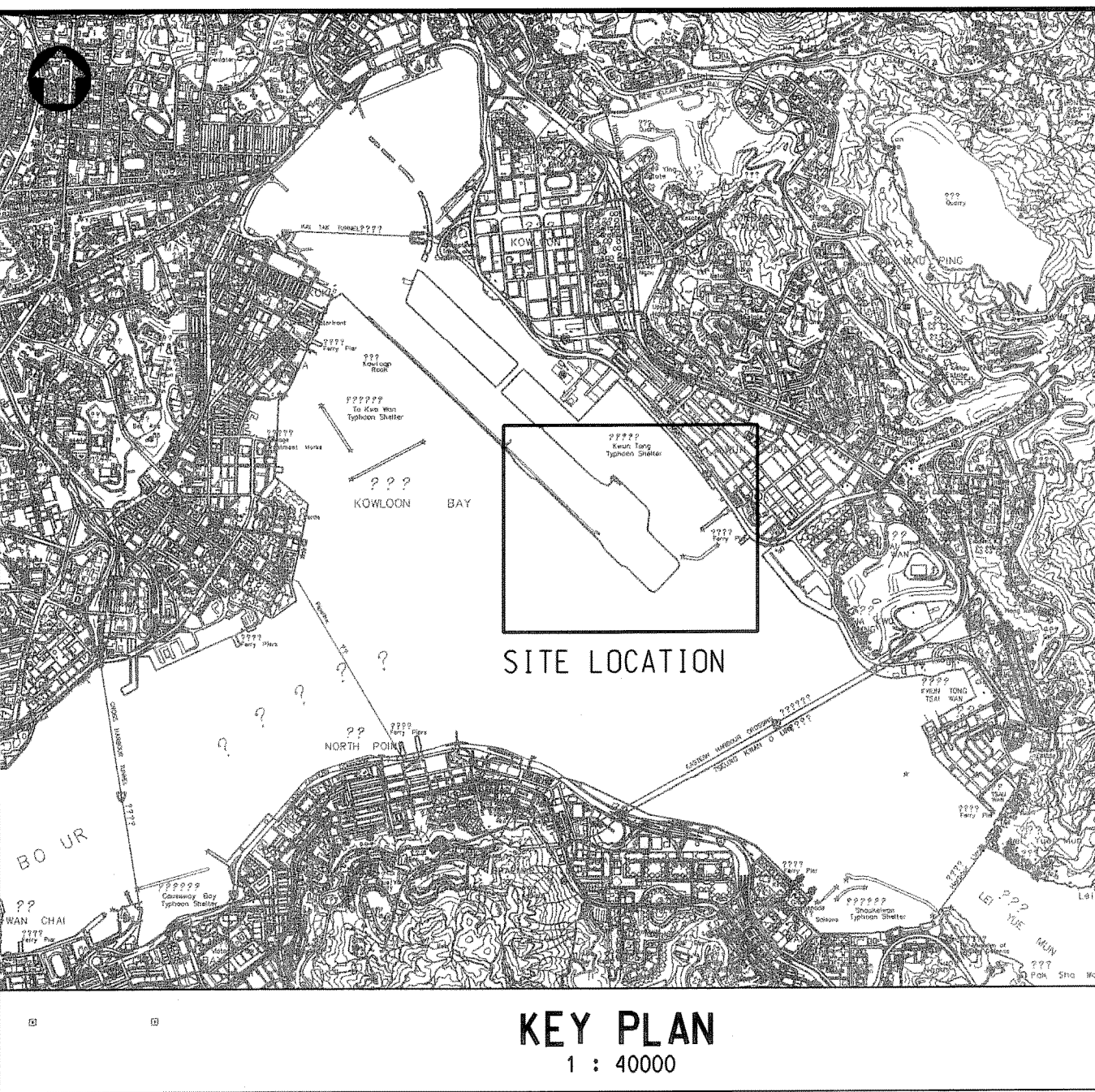
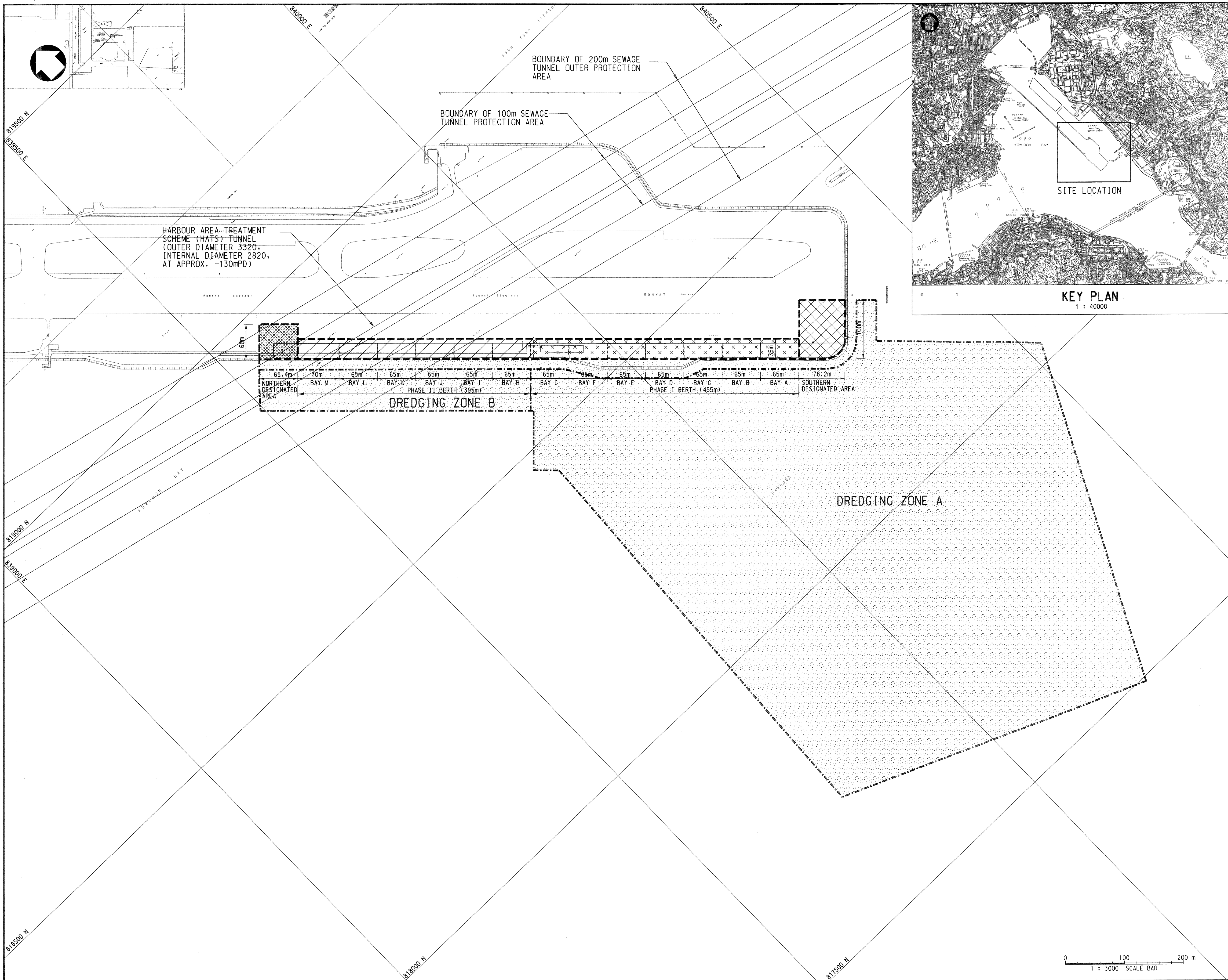
**Table 9.0 Construction Activities and Recommended Mitigation Measures in Coming Report Month**

| Location    | Construction Works   | Recommended Mitigation Measures  |
|-------------|--|--|
| Marine work | <ul style="list-style-type: none"> <li>• Dredging of Marine Sediment;</li> <li>• Removal and Reconstruction of Existing Seawall;</li> <li>• Fabrication and installation of silt curtain for seawall removal;</li> <li>• Maintenance of Silt Curtain and Silt Screens; and</li> <li>• Sorting of inert C&amp;D material from existing seawall</li> </ul> | <ul style="list-style-type: none"> <li>• Collection and removal of floating refuse at regular intervals;</li> <li>• Regular inspection and maintenance of the silt screens and silt curtain;</li> <li>• Silt curtain shall be deployed around the closed grab dredgers used for seawall removal;</li> <li>• Covering the stockpile and watering the dust surface to suppress dust emission;</li> <li>• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>• Opening of the silt curtain should be closed except for vessel movement.</li> </ul> |



**Figure 2.1**  
**General Layout**





- NOTES:**
1. ALL COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
  2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
  3. SETTING OUT REFER TO DRAWING NO.08290/1021.

- LEGEND:**
- SOUTHERN DESIGNATED AREA
  - NORTHERN DESIGNATED AREA
  - DREDGING ZONE / SEAWALL REMOVAL
  - PHASE I BERTH AREA
  - PHASE II BERTH AREA

|       |      |             |       |         |
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| Rev.  | Date | Description | LC    | CS      |
| 06/09 |      | TENDER      |       |         |
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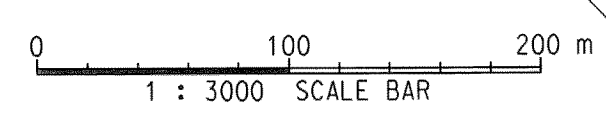
土木工程拓展署  
**CEPD** Civil Engineering and  
 Development Department

Contract No.KL200901  
 Site Formation for Kai Tak Cruise  
 Terminal Development

**GENERAL LAYOUT PLAN**

|                     |                   |                     |                    |  |
|---------------------|-------------------|---------------------|--------------------|--|
| Drawing No.<br>圖則編號 | <b>08290/1011</b> |                     |                    |  |
| Designed<br>設計 BK   | Drawn<br>繪圖 WHM   | Checked<br>校核 WCS   | Scale<br>比例 1:3000 |  |
| Approved<br>校定      | Date<br>日期 06/09  | Status<br>現況 TENDER |                    |  |

Scott Wilson Ltd  
 偉信顧問集團有限公司



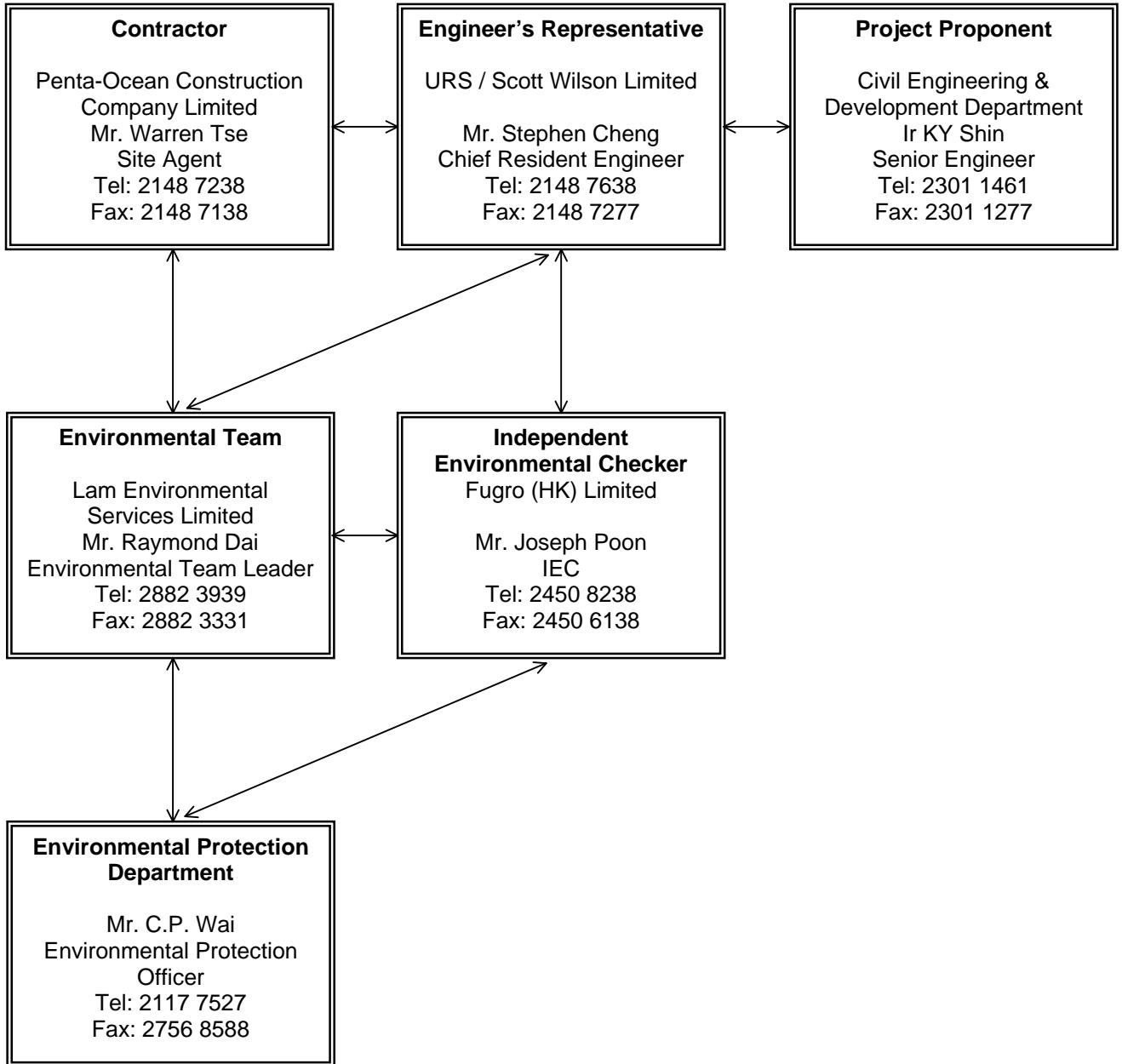




***Figure 2.2***  
***Project Organization Chart***



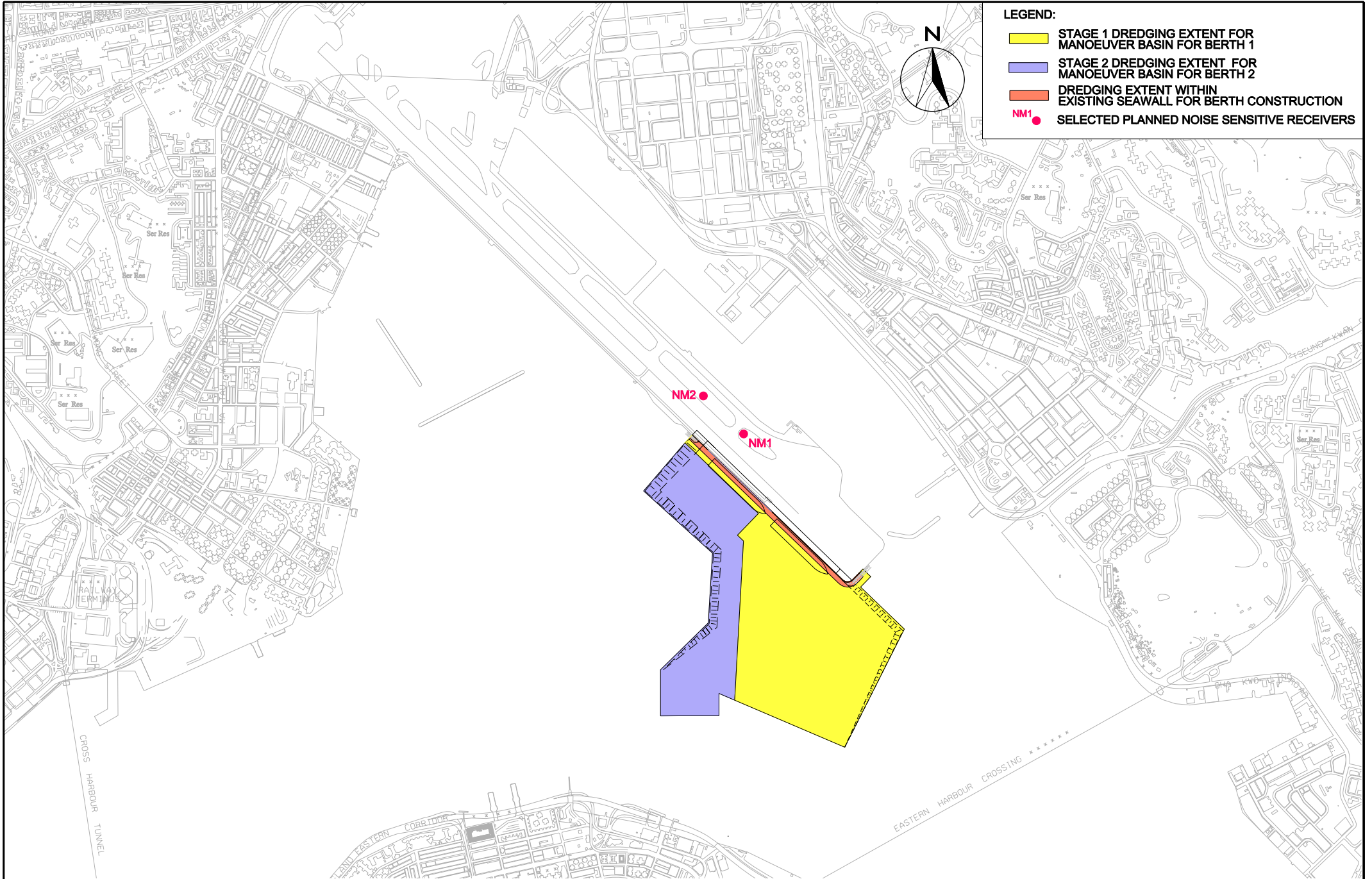
**Project Organization Chart**

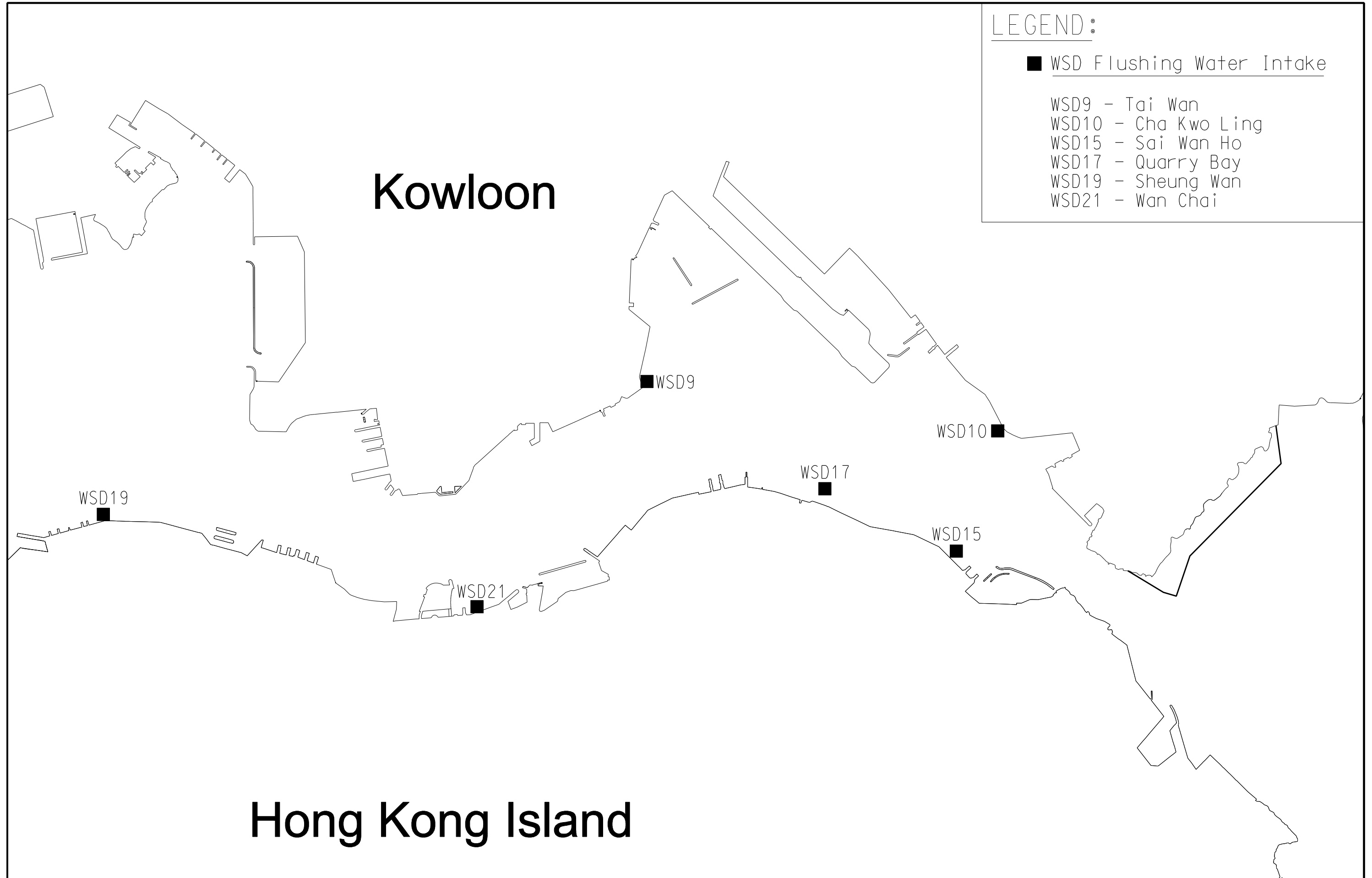




**Figure 4.1**

***Layout of Environmental Monitoring Stations***





**MAUNSELL | AECOM**  
 Maunsell Consultants Asia Ltd

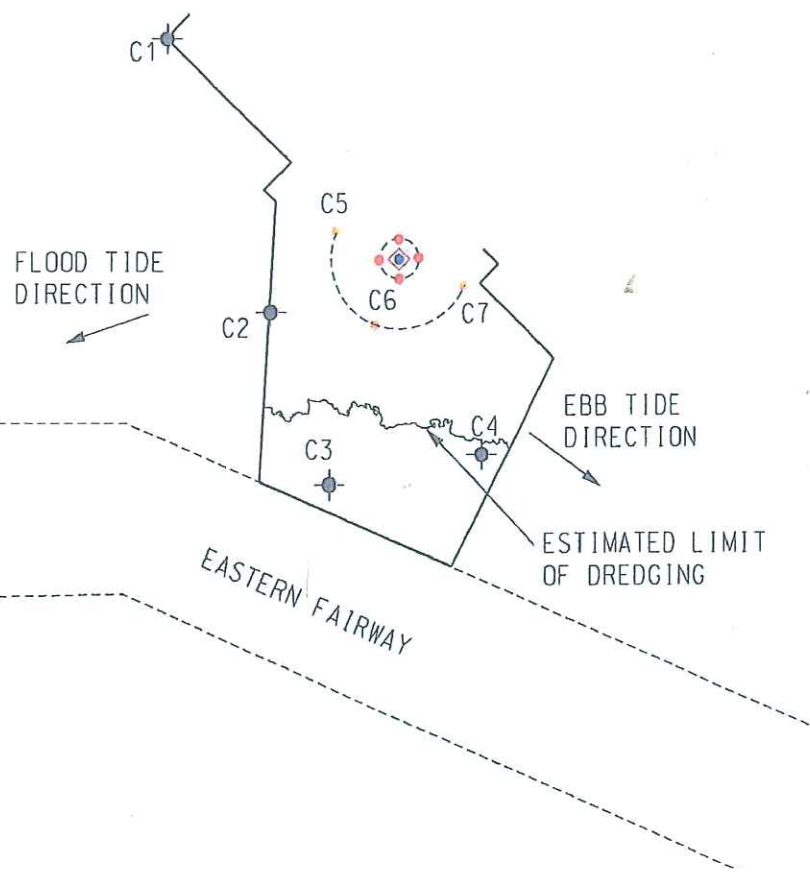
AGREEMENT NO. CE 35/2006 (CE)  
 KAI TAK DEVELOPMENT ENGINEERING STUDY CUM DESIGN AND  
 CONSTRUCTION OF ADVANCE WORKS-INVESTIGATION, DESIGN AND CONSTRUCTION  
**WATER QUALITY MONITORING STATIONS**

|         |            |             |        |
|---------|------------|-------------|--------|
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**Figure 6.1**

***Layout of Monitoring Stations for Water Quality Surveillance System***



- LEGEND:
- SILT CURTAIN ( 20m x 20m )
  - SAMPLING POINT INSIDE SILT CURTAIN (CONTRACTOR'S PROPOSED SAMPLING POINT TO MONITOR EFFECTIVENESS OF SILT CURTAINS)
  - SAMPLING POINT AT ABOUT 10m OUTSIDE SILT CURTAIN (CONTRACTOR'S PROPOSED SAMPLING POINT TO MONITOR EFFECTIVENESS OF SILT CURTAINS)
  - ⊕ SAMPLING POINT AS CONTROL POINT (C1 TO C4) (ADDITIONAL)
  - ⊕ SAMPLING POINT AS CONTROL POINT (C5 TO C7) AT ABOUT 100m AWAY FROM SILT CURTAIN (ADDITIONAL)

ADDITIONAL WATER QUALITY MONITORING STATIONS

| COORDINATE | NORTH      | EAST       |
|------------|------------|------------|
| C1         | 018867.763 | 839495.740 |
| C2         | 018152.875 | 839775.604 |
| C3         | 017702.168 | 839931.601 |
| C4         | 017780.785 | 840334.093 |
| C5         |            |            |
| C6         |            |            |
| C7         |            |            |

POSITIONS CHANGE WITH SILT CURTAIN

**Scope of Works for Water Quality Surveillance System**

1. The water quality monitoring works comprised of Set A and Set B. The Contractor shall carry out both sets of works (7 sampling stations in total).
2. Set A (4 sampling stations), the water quality monitoring works shall be taken at the Control Points (i.e. C1 to C4). Set B (3 sampling stations), the water quality monitoring works shall be taken at approximate 100m outside the silt curtain (i.e. C5 to C7) which the locations shall be changed from time to time to follow the movement of silt curtain.
3. The water quality monitoring works shall be carried out during the dredging period.
4. The water quality monitoring works shall be carried out at a frequency to be agreed by the Engineer. The date and time of monitoring should be in line with the impact water quality monitoring schedule under the EM&A manual. Each sampling event shall be carried out at 3 depth (i.e. 1m below the surface, mid depth, and 1m above the seabed) of the water column at each location. Duplicate in-situ measurements and water sampling shall be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides shall not less than 0.5m. The schedule of water quality monitoring shall be reviewed by the Engineer and the Independent Environmental Checker (IEC) depending on whether the water quality monitoring results could indicate any trend of water quality for determination of trigger/action level or whether there is a ad-hoc requirement (e.g. change of working methods, complaints, etc.). The Contractor shall carry out the works according to the revised schedule if instructed by the Engineer.
5. As the key parameters, turbidity shall be measured in situ whereas Suspended Solids (SS) shall be determined by laboratory. Analysis of SS level shall be carried out in a HOKLAS or other international accredited laboratory. Sufficient water samples of not less than 1 liter shall be collected at the monitoring stations for carrying out the laboratory SS determinations.
6. Requirements on the monitoring equipments and calibration shall be referred to Paragraph 4.7 "Monitoring Equipment" of the Environmental Monitoring and Audit Manual for the Dredging Works for Proposed Cruise Terminal at Kai Tak.
7. Laboratory analysis of the sampling data shall be carried out in a HOKLAS or other international accredited laboratory and follow the requirements as stated in Paragraph 4.8 "Laboratory Measurement/Analysis" of the Environmental Monitoring and Audit Manual for the Dredging Works for Proposed Cruise Terminal at Kai Tak. Monitoring data together with the report shall be reported to the Engineer and the IEC on monthly basis.
8. Other relevant data shall also be recorded including monitoring location/position, time, water depth, sampling depth, water temperature, tidal stages, weather conditions and any special phenomena or work underway nearby.

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| A     | 07/10 | REVISION AS SHOWN | JY    | SC      |
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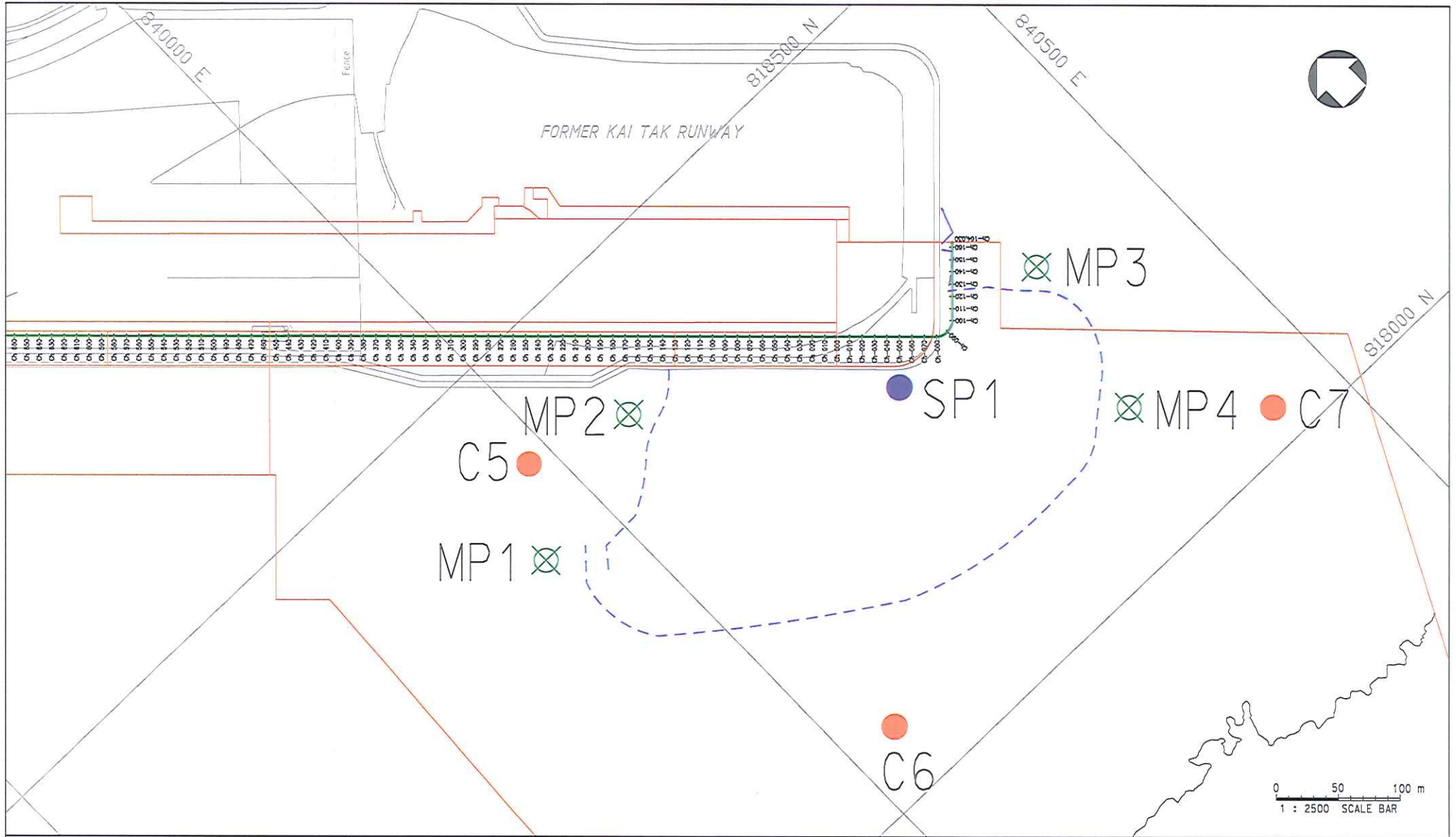
CEED CONTRACT KL/2009/01  
SITE FORMATION FOR KAI TAK  
CRUISE TERMINAL DEVELOPMENT

WATER QUALITY  
SURVEILLANCE SYSTEM

|                   |                          |
|-------------------|--------------------------|
| SKETCH NO.        | (CEED/CL/2009/01)SK0067B |
| DATE              | 08/10                    |
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| APPROVED          | SC                       |
| AFFECTED Dwg. NO. |                          |
| SCALE             | NTS                      |

URS  
URS SCOTT WILSON LTD  
Engineer for the Contract  
ENGINEERS REPRESENTATIVES OFFICE





PROJECT  
 KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development

TITLE  
 Water Quality Surveillance System – from 07.02.2011 to 11.02.2011

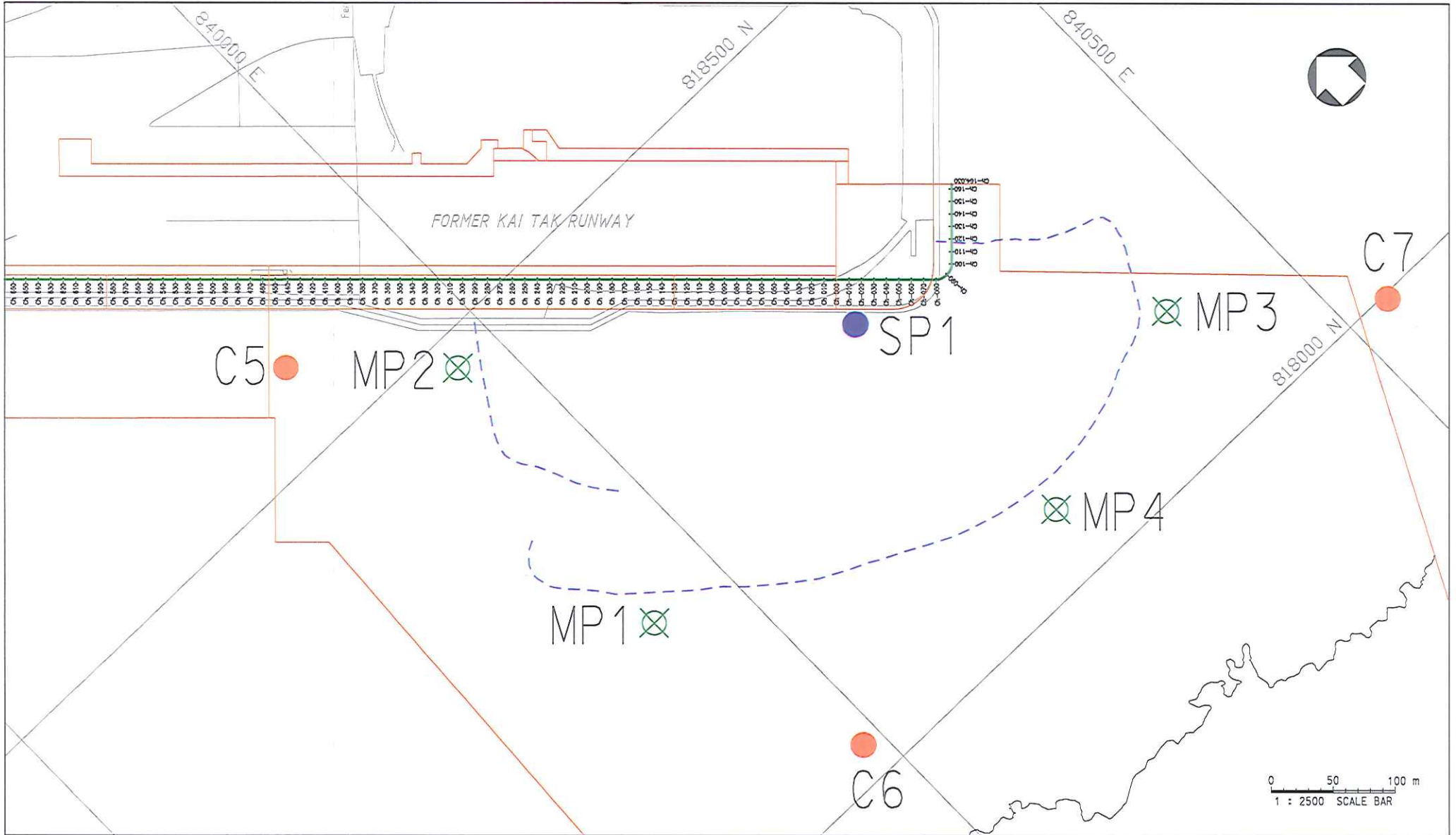
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 SK-0467





PROJECT  
 KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development

TITLE  
 Water Quality Surveillance System – from 14.02.2011 to 02.03.2011

DATE  
 8 Mar 2011

PREPARED BY  
 PY

SCALE  
 NOT TO SCALE

SKETCH No.  
 SK-0468



***Appendix 3.1***

***Implementation Schedule of Environmental Mitigation Measures***



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures   | Location / Timing  | Implementation Agent               | Implementation Status | Relevant Legislation and Guidelines                        |
|----------|---|--|------------------------------------|-----------------------|--|
| S3.6     | Requirements of the Air Pollution Control (Construction Dust) Regulation shall be adhered to during the construction period.  | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Implemented           | Air Pollution Control<br>(Construction Dust)<br>Regulation |
| S3.6     | In order to minimize the potential odour emissions, if any, the dredged sediment placed on barge should be properly covered as far as practicable to minimise the exposed area and hence the potential odour emissions during the transportation of the dredged sediment.   | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Implemented           | EIAO-TM  |
| S4.8     | Good Site Practices: <ul style="list-style-type: none"><li>• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.</li><li>• Mobile plant, if any, should be sited as far away from NSRs as possible.</li><li>• Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li><li>• 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.</li><li>• Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li></ul> | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Implemented           | NCO<br>EIAO-TM   |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures  | Location / Timing   | Implementation Agent            | Implementation Status | Relevant Legislation and Guidelines |
|----------|--|---|---------------------------------|-----------------------|-------------------------------------|
| S4.9     | If there is any planned NSRs within 300m from the work area occupied during the dredging period, an EM&A programme is recommended to be established according to the predicted occurrence of noisy activities. All the recommended mitigation measures for daytime normal working activities should be incorporated into the EM&A programme for implementation during dredging.  | Representative NSRs at the former Kai Tak Airport runway / Upon formal occupation | N/A                             | Not applicable        | NCO<br>EIAO-TM                      |
| S5.9     | <ul style="list-style-type: none"><li>Dredging will be carried out by closed grab dredger to minimize release of sediment and other contaminants during both capital and maintenance dredging.</li><li>The maximum production rate for dredging from the seabed to provide necessary manoeuvring area would not be more than 4,000m<sup>3</sup> per day (and no more than 2 closed grab dredgers) during capital dredging and 2,000m<sup>3</sup> per day (and no more than 1 closed grab dredger) during maintenance dredging.</li><li>The maximum production rate for dredging at or near the seawall area would not be more than 4,000m<sup>3</sup> per day for berth construction. No more than two closed grab dredger would be operated at the same time at or near the seawall for berth construction.</li></ul> | Work site / During dredging in construction stage                                 | Contractor for capital dredging | Implemented           | EIAO-TM<br>WPCO                     |
| S5.9     | Silt curtains should be deployed around the closed grab dredgers used for dredging at and near the existing seawall of the former Kai Tak Airport runway for construction of the cruise berth structures.  | Work site / During dredging in construction stage                                 | Contractor for capital dredging | Implemented           | EIAO-TM, WPCO                       |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures   | Location / Timing  | Implementation Agent            | Implementation Status | Relevant Legislation and Guidelines |
|----------|---|--|---------------------------------|-----------------------|-------------------------------------|
| S5.9     | Silt screens should be installed at the WSD flushing water intakes at Cha Kwo Ling, Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai and Tai Wan for dredging in the manoeuvring basin of the first berth during the capital dredging.                              | Seawater intakes in Victoria Harbour/<br>During the construction of cruise terminal                    | Contractor for capital dredging | Implemented           | EIAO-TM, WPCO                       |
| S5.9     | Silt screens should be installed at the WSD flushing water intakes at Cha Kwo Ling, Quarry Bay and Tai Wan for dredging in the manoeuvring basin of the second berth during the capital dredging.   | Seawater intakes in Victoria Harbour /<br>During the construction of cruise terminal                   | Contractor for capital dredging | Implemented           | EIAO-TM, WPCO                       |
| S5.9     | If the opening has been introduced at the northern runway, silt screens should also be installed at the WSD flushing water intake at Sai Wan Ho, Sheung Wan and Wan Chai for dredging in the manoeuvring basin of the second berth during the capital dredging. | Seawater intake at Sai Wan Ho, Sheung Wan and Wan Chai /<br>During the construction of cruise terminal | Contractor for capital dredging | Implemented           | EIAO-TM, WPCO                       |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures  | Location / Timing   | Implementation Agent            | Implementation Status | Relevant Legislation and Guidelines |
|----------|--|---|---------------------------------|-----------------------|-------------------------------------|
| S5.9     | <p>Other good site practices that should be undertaken during dredging include:</p> <ul style="list-style-type: none"><li>• all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li><li>• all barges / dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li><li>• construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;</li><li>• barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.</li></ul> | Work site and adjacent waters / During dredging in construction stage | Contractor for capital dredging | Implemented           | EIAO, EIAO-TM, WPCO, WDO            |
| S5.9     | Appropriate numbers of portable chemical toilets shall be provided by a licensed contractor to serve the construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.   | Work site and adjacent waters / During dredging in construction stage | Contractor for capital dredging | Implemented           | EIAO-TM, WPCO, WDO                  |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref # | Environmental Protection Measures / Mitigation Measures  | Location / Timing  | Implementation Agent   | Implementation Status | Relevant Legislation and Guidelines |
|-----------|--|--|--|-----------------------|-------------------------------------|
| S5.9      | Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish during the dredging works.   | Work site and adjacent waters / During dredging in construction stage                            | Contractor for capital dredging                                      | Implemented           | EIAO-TM, WPCO, WDO                  |
| S5.9      | An environmental monitoring and audit programme should be implemented to verify whether or not impact predictions are representative, and to ensure that all the recommended mitigation measures are implemented properly. If the water quality monitoring data indicate that the proposed dredging works result in unacceptable water quality impacts in the receiving water, appropriate actions should be taken to review the dredging operation and additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works should be implemented as necessary. | 6 selected WSD flushing water intakes in Victoria Harbour/ During dredging in construction stage | Environmental Team and verified by Independent Environmental Checker | Implemented           | EIAO-TM, WPCO                       |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures   | Location / Timing   | Implementation Agent            | Implementation Status | Relevant Legislation and Guidelines |
|----------|---|---|---------------------------------|-----------------------|-------------------------------------|
| S5.9     | Silt screens are recommended to be deployed at 6 selected WSD flushing water intakes during the capital dredging. The contractor for capital dredging shall demonstrate and ensure that the design of the silt screen will not affect the normal operation of flushing water intake. The contractor shall obtain consensus from all relevant parties, including WSD and Marine Department on the design of the silt screen at each of the six selected flushing water intake points before installation of the silt screen and commencement of the proposed dredging works. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection should be performed at the monitoring stations at regular intervals on a daily basis. The Contractor should be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period. | 6 selected WSD flushing water intakes in Victoria Harbour/<br>During dredging in construction stage | Contractor for capital dredging | Implemented           | EIAO-TM, WPCO                       |





IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures   | Location / Timing  | Implementation Agent               | Implementation Status | Relevant Legislation and Guidelines |
|----------|---|--|------------------------------------|-----------------------|-------------------------------------|
| S6.7     | <p>Good Site Practices</p> <p>It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during the dredging activities include:</p> <ul style="list-style-type: none"><li>• Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li><li>• Training of site personnel in proper waste management and chemical waste handling procedures.</li><li>• Provision of sufficient waste disposal points and regular collection for disposal.</li><li>• Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li><li>• A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li><li>• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li></ul> | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Implemented           | EIAO-TM                             |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref#     | Environmental Protection Measures / Mitigation Measures   | Location / Timing                                 | Implementation Agent            | Implementation Status | Relevant Legislation and Guidelines |
|--------------|---|---|---------------------------------|-----------------------|-------------------------------------|
| S6.7 (cont.) | <ul style="list-style-type: none"><li>Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the workforce.</li><li>Any unused chemicals or those with remaining functional capacity shall be recycled.</li></ul>   | Work site / During dredging in construction stage | Contractor for capital dredging | Implemented           | EIAO-TM                             |
| S6.7         | <p>Marine Sediments</p> <p>The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on their level of contamination. Sediment classified as Category L would be suitable for Type 1 – Open Sea Disposal. Contaminated sediment would require either Type 1 – Open Sea Disposal (Dedicated Sites) or Type 2 - Confined Marine Disposal and must be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by MFC, the dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the East Sha Chau Contaminated Mud Pits that are designated for the disposal of contaminated mud in Hong Kong.</p> | Work site / During dredging in construction stage | Contractor for capital dredging | Implemented           | ETWB TCW No. 34/2002                |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures   | Location / Timing  | Implementation Agent               | Implementation Status                 | Relevant Legislation and Guidelines |
|----------|---|--|------------------------------------|---------------------------------------|-------------------------------------|
| S6.7     | It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works shall apply for the allocation of marine sediment disposal sites from all relevant authorities.   | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Dumping Permits were<br>issued by EPD | ETWB TCW No.<br>34/2002             |
| S6.7     | During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: <ul style="list-style-type: none"><li>• Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.</li><li>• Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.</li><li>• Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.</li></ul> | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Implemented                           | WDO; WPCO                           |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures  | Location / Timing  | Implementation Agent               | Implementation Status | Relevant Legislation and Guidelines   |
|----------|--|--|------------------------------------|-----------------------|---|
| S6.7     | <b>Chemical Wastes</b><br>After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Implemented           | Waste Disposal<br>(Chemical Waste)<br>(General)<br>Regulation;<br>Code of Practice on<br>the Packaging,<br>Labelling and<br>Storage of<br>Chemical Wastes |
| S6.7     | <b>General Refuse</b><br>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. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material.  | Work site /<br>During dredging<br>in construction<br>stage | Contractor for capital<br>dredging | Implemented           | WDO, WPCO   |



| EIA Ref# | Environmental Protection Measures / Mitigation Measures  | Location / Timing                                   | Implementation Agent               | Implementation Status | Relevant Legislation and Guidelines          |
|----------|--|---|------------------------------------|-----------------------|--|
| S6.7     | <p>Construction and Demolition Material</p> <p>It is recommended that the extent of dredging of the existing seawall should be kept to a minimum in the detailed design of the new cruise terminal to minimize generation of C&amp;D material. Mitigation measures and good site practices should be incorporated in the contract document to control potential environmental impact from handling and transportation of C&amp;D material. The mitigation measures include:</p> <ul style="list-style-type: none"><li>• Where it is unavoidable to have transient stockpiles of C&amp;D material within the Project work site pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible.</li><li>• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric.</li><li>• Skip hoist for material transport should be totally enclosed by impervious sheeting.</li><li>• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site.</li><li>• 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.</li></ul> | Work site /<br>During the<br>construction<br>period | Contractor for capital<br>dredging | Implemented           | ETWB TCW No.<br>33/2002, 31/2004,<br>19/2005 |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref#     | Environmental Protection Measures / Mitigation Measures  | Location / Timing                          | Implementation Agent  | Implementation Status | Relevant Legislation and Guidelines    |
|--------------|--|--|---|-----------------------|--|
| S6.7 (cont.) | <ul style="list-style-type: none"><li>• 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.</li><li>• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.</li><li>• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.</li></ul>   | Work site / During the construction period | Contractor for capital dredging   | Implemented           | ETWB TCW No. 33/2002, 31/2004, 19/2005 |
| S6.7         | When delivering inert C&D material to public fill reception facilities, the material shall consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements and implemented by the Contractor under the Waste Management Plan certified by the Environmental Team and verified by the Independent Environmental Checker who should be responsible for auditing the results of the system. | Work site / During the construction period | Contractor for capital dredging, Engineer, Environmental Team and Independent Environmental Checker | Not applicable        | ETWB TCW No. 31/2004                   |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref#        | Environmental Protection Measures / Mitigation Measures  | Location / Timing                                    | Implementation Agent                                 | Implementation Status | Relevant Legislation and Guidelines  |
|-----------------|--|--|--|-----------------------|--|
| S7.8            | The dredging activities of the proposed cruise terminal should ensure that disturbance to the existing seawall masonry outside the Project boundary should be avoided as far as practicable.   | Work site/<br>During construction of cruise terminal | Contractor for capital dredging as per CEDD's advice | Implemented           | Antiquities and Monuments Ordinance<br>EIAO, EIAO-TM<br>Guidance Notes on Assessment of Impact on Sites of Cultural Heritage in Environmental Impact Assessment Studies (GN-CH)<br>Hong Kong Planning Standards and Guidelines (HKPSG) |
| S7.10, App. 7.1 | It is recommended that the dredged spoil should be monitored for the presence of archaeological material.<br><br>Guidelines for the monitoring brief have been prepared in consultation with the AMO. A qualified marine archaeologist needs to be on standby to provide specialist advice, if required, but the monitoring can be carried out by a member of staff on the dredging barge. | Work site / during dredging in construction stage    | Contractor for capital dredging, Environmental Team  | Implemented           | Antiquities and Monuments Ordinance<br>EIAO, EIAO-TM<br>GN-CH<br>HKPSG<br>Marine Archaeological Investigation Guidelines   |



IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures  | Location / Timing   | Implementation Agent  | Implementation Status   | Relevant Legislation and Guidelines |
|----------|--|---|---|---|-------------------------------------|
| 8.7      | <p>Translocate those existing coral colonies attached on boulders that are manually movable by a diver underwater (possibly longest dimension of less than 50cm) located within the hard substrata sea area within the dredging site as far as practicable prior to the commencement of the capital dredging activities. The entire translocation exercise include the preparation of a detailed translocation plan, the pre-translocation coral survey, the coral translocation, and the quarterly post-translocation monitoring for one year. Pre-translocation survey would be focused on identifying and mapping of coral colonies that would be directly impacted by the proposed dredging and investigating the translocation feasibility of these coral colonies. A detailed translocation plan (including pre-translocation coral survey, translocation methodology and monitoring of transplanted corals) should be prepared during the detailed design stage of the Project which, together with the ecologist involved in coral translocation, should be approved by AFCD prior to commencement of the translocation exercises. The proposed relocation of the coral colonies should not affect any private/public marine rights at the recipient site.</p> | <p>Along the section of the former Kai Tak Airport runway that will be directed affected by the cruise terminal construction / During detailed design stage</p> | <p>Other ET specifically employed for coral translocation works</p> | <p>Final Detailed Coral Translocation Plan was approved by EPD in letter ref. (18) in EP2/K19/C/19 Pt.5 dated 5 June 2009.</p> <p>Form 5 was submitted under CEDD's memo ref. (6) in KD 2/31/4 Pt.3 dated 10 June 2009 regarding minor alteration of the position of the coral recipient site.</p> <p>Coral Translocation Report was submitted in Scott Wilson letter ref. 08290/325723 dated 2 July 2009.</p> <p>Post-translocation report shall be referred to the submissions by another ET specifically employed for coral translocation works.</p> | <p>EIAO-TM</p>                      |





IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES

| EIA Ref# | Environmental Protection Measures / Mitigation Measures   | Location / Timing  | Implementation Agent           | Implementation Status          | Relevant Legislation and Guidelines |
|----------|---|--|--------------------------------|--------------------------------|-------------------------------------|
| S8.7     | New seawalls at the berth structure of the cruise terminal shall be constructed in order to provide large area of hard substrata for settlement and recruitment of intertidal and subtidal assemblages similar to those previously recorded from existing habitats. | The section of the former Kai Tak Airport runway that will be directed affected by the cruise terminal construction / During detailed design stage | To be confirmed at later stage | To be confirmed at later stage | EIAO-TM                             |
| 9.6      | No fisheries-specific mitigation measures would be required.  | -  | Not applicable                 | Not applicable                 | -                                   |



***Appendix 4.1***

***Action and Limit Levels***



**Action and Limit Levels**

*Action and Limit Levels for Noise Monitoring*

| Time Period                            | Action Level  | Limit Level |
|--|---|-------------|
| 07:00 – 19:00 hours on normal weekdays | When one documented complaint is received from any one of the sensitive receivers | 75 dB(A)    |

Remarks: No noise monitoring was conducted due to no planned noise sensitive receivers (NSRs) occupied within 300m from the works area of this Project during the dredging works.

*Action and Limit Levels for Water Monitoring*

| Parameters                    | Action Level                        |       | Limit Level                         |       |      |      |
|-------------------------------|-------------------------------------|-------|-------------------------------------|-------|------|------|
| Turbidity in NTU              | <u>All Season</u>                   |       | <u>All Season</u>                   |       |      |      |
|                               | WSD9                                | 5.67  | WSD9                                | 12.27 |      |      |
|                               | WSD10                               | 6.26  | WSD10                               | 10.47 |      |      |
|                               | WSD15                               | 8.15  | WSD15                               | 14.41 |      |      |
|                               | WSD17                               | 11.60 | WSD17                               | 16.91 |      |      |
|                               | WSD21                               | 9.11  | WSD21                               | 15.38 |      |      |
|                               | WSD19                               | 13.09 | WSD19                               | 15.34 |      |      |
| Suspended Solids (SS) in mg/L | <u>Dry Season</u> <u>Wet Season</u> |       | <u>Dry Season</u> <u>Wet Season</u> |       |      |      |
|                               | WSD9                                | 6.9   | 9.7                                 | WSD9  | 7.8  | 10.9 |
|                               | WSD10                               | 7.7   | 9.1                                 | WSD10 | 10.3 | 12.2 |
|                               | WSD15                               | 7.8   | 13.5                                | WSD15 | 8.4  | 14.5 |
|                               | WSD17                               | 9.5   | 11.2                                | WSD17 | 13.7 | 16.2 |
|                               | WSD21                               | 13.3  | 17.1                                | WSD21 | 13.9 | 17.8 |
|                               | WSD19                               | 16.3  | 15.1                                | WSD19 | 17.0 | 15.7 |

Remarks:  
Wet season is the period from April to September.  
Dry season is the period from October to March.



***Appendix 4.2***

***Copies of Calibration Certificates***



**ALS Technichem (HK) Pty Ltd**

## CERTIFICATE OF ANALYSIS

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

**WORK ORDER:** HK1031088  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 30/12/2010  
**DATE OF ISSUE:** 04/01/2011  
**SAMPLE TYPE:** EQUIPMENT  
**No. of SAMPLES:** 1

### COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

### NOTES

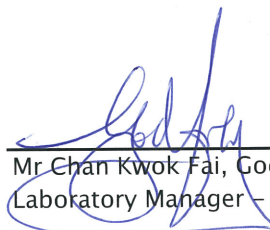
This is the Final Report and supersedes any preliminary report with this batch number.  
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

### ISSUING LABORATORY: HONG KONG

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

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**Abbreviations:** % SPK REC denotes percentage spike recovery  
CHK denotes duplicate check sample  
LOR denotes limit of reporting  
LCS % REC denotes Laboratory Control Sample percentage recovery

Page 1 of 2

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

# CERTIFICATE OF ANALYSIS



Work Order: HK1031088  
Date of Issue: 04/01/2011  
Client: LAM GEOTECHNICS LIMITED  
Client Reference:

## Calibration of Multimeter

Item : Sonde Model No.: YSI Sonde 600XL  
ALS Lab ID: HK1031088 -001 Equipment No.: EL424  
Date of Calibration: 31 December, 2010 Serial No.: 05C1607

### Testing Results :

|                  | Expected Reading   | Recording Reading | Testing Method:                                      |
|------------------|--------------------|-------------------|--|
| pH               | 4.00               | 3.88              | APHA (20th edition), 4500-H <sup>+</sup> B           |
|                  | 7.00               | 7.07              |  |
|                  | 10.0               | 9.90              |  |
|                  | Allowing Deviation | ± 0.2 unit        |  |
|                  |                    |                   |  |
| Conductivity     | 146.9 uS/cm        | 146.0 uS/cm       | APHA (20th edition), 2510B                           |
|                  | 6667 uS/cm         | 6230 uS/cm        |  |
|                  | 12890 uS/cm        | 12473 uS/cm       |  |
|                  | 58670 uS/cm        | 54244 uS/cm       |  |
|                  | Allowing Deviation | ± 10%             |  |
| Temperature      | 14.5 °C            | 14.9 °C           | Testing Method:<br>In-House Method                   |
|                  | 22.5 °C            | 22.3 °C           |  |
|                  | 34.0 °C            | 34.3 °C           |  |
|                  | Allowing Deviation | ±2.0°C            |  |
|                  |                    |                   |  |
| Salinity         | 0 g/L              | 0 g/L             | Testing Method:<br>APHA (20th edition), 2520 A and B |
|                  | 10.0 g/L           | 9.61 g/L          |  |
|                  | 20.0 g/L           | 19.8 g/L          |  |
|                  | 30.0 g/L           | 29.9 g/L          |  |
|                  | Allowing Deviation | ± 10%             |  |
| Dissolved Oxygen | 6.61 mg/L          | 6.65 mg/L         | Testing Method:<br>APHA (20th edition), 4500-OC & G  |
|                  | 7.94 mg/L          | 8.03 mg/L         |  |
|                  | 8.69 mg/L          | 8.61 mg/L         |  |
|                  | Allowing Deviation | ± 0.2 mg/L        |  |
|                  |                    |                   |  |

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



**ALS Technichem (HK) Pty Ltd**

## CERTIFICATE OF ANALYSIS

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

**WORK ORDER:** HK1103015  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 09/02/2011  
**DATE OF ISSUE:** 14/02/2011  
**SAMPLE TYPE:** EQUIPMENT  
**No. of SAMPLES:** 1

### COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

### NOTES

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

### ISSUING LABORATORY: HONG KONG

#### Address

ALS Technichem (HK) Pty Ltd  
11/F  
Chung Shun Knitting Centre  
1-3 Wing Yip Street  
Kwai Chung  
HONG KONG

**Phone:** 852-2610 1044  
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**Email:** hongkong@alsenviro.com

Mr Chan Kwok Fai, Godfrey  
Laboratory Manager - Hong Kong

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*Abbreviations: % SPK REC denotes percentage spike recovery  
CHK denotes duplicate check sample  
LOR denotes limit of reporting  
LCS % REC denotes Laboratory Control Sample percentage recovery*

Page 1 of 2

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



# CERTIFICATE OF ANALYSIS



Work Order: HK1103015  
Date of Issue: 14/02/2011  
Client: LAM GEOTECHNICS LIMITED  
Client Reference:

## Calibration of Multimeter

Item : Turbidimeter Model No.: 2100P  
ALS Lab ID: HK1103015 -001 Equipment No.: EN06  
Date of Calibration: 09 February, 2011 Serial No.: 1000032935

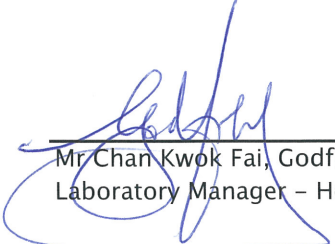
Testing Results :

Turbidity

| Expected Reading   | Recording Reading |
|--------------------|-------------------|
| 0.00 NTU           | 0.25 NTU          |
| 4.00 NTU           | 4.17 NTU          |
| 40.0 NTU           | 40.7 NTU          |
| 80.0 NTU           | 78.3 NTU          |
| 400 NTU            | 396 NTU           |
| 800 NTU            | 828 NTU           |
| Allowing Deviation | ± 10%             |

Testing Method:

APHA (19th edition), 2130B

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





***Appendix 5.1***

***Monitoring Schedule for the Reporting Month and Coming Three Months***

Contract No. KL/2009/01  
Site Formation for Kai Tak Cruise Terminal Development

~~Water~~ Water Quality Monitoring Schedule

March 2011

| Sunday  | Monday   | Tuesday  | Wednesday  | Thursday   | Friday   | Saturday |
|---|--|--|--|--|--|----------|
| <b>27-Feb</b>                                   | 28-Feb   | 1-Mar  | 2-Mar  | 3-Mar  | 4-Mar  | 5-Mar    |
|   |  |  | Impact WQM<br>Mid-flood: 16:41<br>Mid-ebb: 23:32 |  | Impact WQM<br>Mid-ebb: 12:29<br>Mid-flood: 18:06 |          |
| <b>6-Mar</b>                                    | 7-Mar  | 8-Mar  | 9-Mar  | 10-Mar   | 11-Mar   | 12-Mar   |
|   | Impact WQM<br>Mid-ebb: 13:53<br>Mid-flood: 19:58 |  | Impact WQM<br>Mid-flood: 8:27<br>Mid-ebb: 14:53  |  | Impact WQM<br>Mid-flood: 8:53<br>Mid-ebb: 15:58  |          |
| <b>13-Mar</b>                                   | 14-Mar   | 15-Mar   | 16-Mar   | 17-Mar   | 18-Mar   | 19-Mar   |
| Impact WQM<br>Mid-flood: 9:51<br>Mid-ebb: 18:31 |  |  | Impact WQM<br>Mid-flood: 14:55<br>Mid-ebb: 22:05 |  | Impact WQM<br>Mid-ebb: 11:20<br>Mid-flood: 17:11 |          |
| <b>20-Mar</b>                                   | 21-Mar   | 22-Mar   | 23-Mar   | 24-Mar   | 25-Mar   | 26-Mar   |
|   | Impact WQM<br>Mid-ebb: 13:22<br>Mid-flood: 19:48 |  | Impact WQM<br>Mid-flood: 8:22<br>Mid-ebb: 14:50  |  | Impact WQM<br>Mid-flood: 9:34<br>Mid-ebb: 16:48  |          |
| <b>27-Mar</b>                                   | 28-Mar   | 29-Mar   | 30-Mar   | 31-Mar   | 1-Apr  | 2-Apr    |
|   |  | Impact WQM<br>Mid-flood: 14:32<br>Mid-ebb: 21:36 |  | Impact WQM<br>Mid-ebb: 11:00<br>Mid-flood: 16:32 |  |          |

Notes:

1. Water Quality Monitoring for 6 water quality monitoring stations:WSD9, WSD10, WSD15, WSD17, WSD19 and WSD21
- 2.Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
3. Cut-off day is the end of day of each month.

Contract No. KL/2009/01  
Site Formation for Kai Tak Cruise Terminal Development

Tentative Water Quality Monitoring Schedule

April 2011

| Sunday        | Monday   | Tuesday  | Wednesday  | Thursday   | Friday   | Saturday   |
|---------------|--|--|--|--|--|--|
| <b>27-Mar</b> | 28-Mar   | 29-Mar   | 30-Mar   | 31-Mar   | 1-Apr  | 2-Apr  |
|               |  | Impact WQM<br>Mid-flood: 14:32<br>Mid-ebb: 21:36 |  | Impact WQM<br>Mid-ebb: 11:00<br>Mid-flood: 16:32 |  | Impact WQM<br>Mid-ebb: 11:59<br>Mid-flood: 17:57 |
| <b>3-Apr</b>  | 4-Apr  | <b>5-Apr</b>                                     | 6-Apr  | 7-Apr  | 8-Apr  | 9-Apr  |
|               | Impact WQM<br>Mid-ebb: 12:53<br>Mid-flood: 19:12 |  | Impact WQM<br>Mid-ebb: 13:51<br>Mid-flood: 20:29 |  | Impact WQM<br>Mid-ebb: 14:32<br>Mid-flood: 22:00 |  |
| <b>10-Apr</b> | 11-Apr   | 12-Apr   | 13-Apr   | 14-Apr   | 15-Apr   | 16-Apr   |
|               | Impact WQM<br>Mid-flood: 9:22<br>Mid-ebb: 17:46  |  | Impact WQM<br>Mid-flood: 13:12<br>Mid-ebb: 20:33 |  | Impact WQM<br>Mid-flood: 11:11<br>Mid-ebb: 18:00 |  |
| <b>17-Apr</b> | 18-Apr   | 19-Apr   | 20-Apr   | 21-Apr   | <b>22-Apr</b>                                    | <b>23-Apr</b>                                    |
|               | Impact WQM<br>Mid-ebb: 12:19<br>Mid-flood: 18:54 |  | Impact WQM<br>Mid-ebb: 13:47<br>Mid-flood: 20:43 |  | Impact WQM<br>Mid-ebb: 15:26<br>Mid-flood: 22:45 |  |
| <b>24-Apr</b> | <b>25-Apr</b>                                    | 26-Apr   | 27-Apr   | 28-Apr   | 29-Apr   | 30-Apr   |
|               |  | Impact WQM<br>Mid-ebb: 19:34                     | Impact WQM<br>Mid-flood: 3:19                    | Impact WQM<br>Mid-flood: 15:19<br>Mid-ebb: 21:35 |  | Impact WQM<br>Mid-ebb: 11:02<br>Mid-flood: 17:04 |

Notes:

1. Water Quality Monitoring for 6 water quality monitoring stations:WSD9, WSD10, WSD15, WSD17, WSD19 and WSD21
2. Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
3. Cut-off day is the end of day of each month.

Contract No. KL/2009/01  
Site Formation for Kai Tak Cruise Terminal Development

Tentative Water Quality Monitoring Schedule

May 2011

| Sunday        | Monday   | Tuesday  | Wednesday  | Thursday   | Friday   | Saturday   |
|---------------|--|--|--|--|--|--|
| <b>24-Apr</b> | <b>25-Apr</b>                                    | 26-Apr   | 27-Apr   | 28-Apr   | 29-Apr   | 30-Apr   |
|               |  | Impact WQM<br>Mid-ebb: 19:34                     | Impact WQM<br>Mid-flood: 3:19                    | Impact WQM<br>Mid-flood: 15:19<br>Mid-ebb: 21:35 |  | Impact WQM<br>Mid-ebb: 11:02<br>Mid-flood: 17:00 |
| <b>1-May</b>  | <b>2-May</b>                                     | 3-May  | 4-May  | 5-May  | 6-May  | 7-May  |
|               |  | Impact WQM<br>Mid-ebb: 12:25<br>Mid-flood: 19:03 |  | Impact WQM<br>Mid-ebb: 13:18<br>Mid-flood: 20:22 |  | Impact WQM<br>Mid-ebb: 14:15<br>Mid-flood: 21:58 |
| <b>8-May</b>  | 9-May  | <b>10-May</b>                                    | 11-May   | 12-May   | 13-May   | 14-May   |
|               | Impact WQM<br>Mid-ebb 16:01                      | Impact WQM<br>Mid-flood: 0:07                    |  | Impact WQM<br>Mid-flood: 13:17<br>Mid-ebb: 20:01 |  | Impact WQM<br>Mid-ebb: 9:46<br>Mid-flood: 16:00  |
| <b>15-May</b> | 16-May   | 17-May   | 18-May   | 19-May   | 20-May   | 21-May   |
|               | Impact WQM<br>Mid-ebb: 11:16<br>Mid-flood: 18:01 |  | Impact WQM<br>Mid-ebb: 12:47<br>Mid-flood: 19:53 |  | Impact WQM<br>Mid-ebb: 14:22<br>Mid-flood: 21:39 |  |
| <b>22-May</b> | 23-May   | 24-May   | 25-May   | 26-May   | 27-May   | 28-May   |
|               | Impact WQM<br>Mid-ebb: 16:41                     | Impact WQM<br>Mid-flood 0:22                     | Impact WQM<br>Mid-ebb: 18:21                     | Impact WQM<br>Mid-flood: 01:59                   |  | Impact WQM<br>Mid-flood: 3:08<br>Mid-ebb: 9:59   |
| <b>29-May</b> | 30-May   | 31-May   | 1-Jun  | 2-Jun  | 3-Jun  | 4-Jun  |
|               | Impact WQM<br>Mid-ebb: 11:00<br>Mid-flood: 17:37 |  | Impact WQM<br>Mid-ebb: 11:57<br>Mid-flood: 18:57 |  | Impact WQM<br>Mid-ebb: 13:08<br>Mid-flood: 20:17 |  |

Notes:

1. Water Quality Monitoring for 6 water quality monitoring stations:WSD9, WSD10, WSD15, WSD17, WSD19 and WSD21
2. Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
3. Cut-off day is the end of day of each month.

Contract No. KL/2009/01  
Site Formation for Kai Tak Cruise Terminal Development

Tentative Water Quality Monitoring Schedule

June 2011

| Sunday        | Monday   | Tuesday  | Wednesday  | Thursday   | Friday   | Saturday   |
|---------------|--|--|--|--|--|--|
| <b>29-May</b> | 30-May   | 31-May   | 1-Jun  | 2-Jun  | 3-Jun  | 4-Jun  |
|               | Impact WQM<br>Mid-ebb: 11:00<br>Mid-flood: 17:37 |  | Impact WQM<br>Mid-ebb: 11:57<br>Mid-flood: 18:57 |  | Impact WQM<br>Mid-ebb: 13:08<br>Mid-flood: 20:17 |  |
| <b>5-Jun</b>  | <b>6-Jun</b>                                     | 7-Jun  | 8-Jun  | 9-Jun  | 10-Jun   | 11-Jun   |
|               |  | Impact WQM<br>Mid-ebb: 16:11<br>Mid-flood: 23:31 |  | Impact WQM<br>Mid-flood: 11:36<br>Mid-ebb: 18:18 |  | Impact WQM<br>Mid-flood: 14:45<br>Mid-ebb: 20:37 |
| <b>12-Jun</b> | 13-Jun   | 14-Jun   | 15-Jun   | 16-Jun   | 17-Jun   | 18-Jun   |
|               | Impact WQM<br>Mid-ebb: 10:16<br>Mid-flood: 17:11 |  | Impact WQM<br>Mid-ebb: 11:50<br>Mid-flood: 19:06 |  | Impact WQM<br>Mid-ebb: 13:23<br>Mid-flood: 20:39 |  |
| <b>19-Jun</b> | 20-Jun   | 21-Jun   | 22-Jun   | 23-Jun   | 24-Jun   | 25-Jun   |
|               | Impact WQM<br>Mid-ebb: 15:21<br>Mid-Flood: 22:41 |  | Impact WQM<br>Mid-ebb: 16:29                     | Impact WQM<br>Mid-flood: 0:02                    |  | Impact WQM<br>Mid-flood: 1:18<br>Mid-ebb: 8:28   |
| <b>26-Jun</b> | 27-Jun   | 28-Jun   | 29-Jun   | 30-Jun   | 1-Jul  | 2-Jul  |
|               |  | Impact WQM<br>Mid-ebb: 10:28<br>Mid-flood: 17:36 |  | Impact WQM<br>Mid-ebb: 11:38<br>Mid-flood: 18:54 |  | Impact WQM<br>Mid-ebb: 13:01<br>Mid-flood: 20:06 |

Notes:

1. Water Quality Monitoring for 6 water quality monitoring stations:WSD9, WSD10, WSD15, WSD17, WSD19 and WSD21
- 2.Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
3. Cut-off day is the end of day of each month.



***Appendix 5.2***

***Water Quality Monitoring Results and Graphical Presentation***

| Date       | Time  | Weather Condition | Sampling Depth<br>m |   | Water Temperature<br>°C |         | pH    |         |       |         | Salinity<br>ppt |         | DO Saturation<br>% |         | DO<br>mg/L |         | Turbidity<br>NTU |         | Suspended Solids<br>mg/L |         |      |      |   |     |
|------------|-------|-------------------|---------------------|---|-------------------------|---------|-------|---------|-------|---------|-----------------|---------|--------------------|---------|------------|---------|------------------|---------|--------------------------|---------|------|------|---|-----|
|            |       |                   |                     |   | Value                   | Average | Value | Average | Value | Average | Value           | Average | Value              | Average | Value      | Average | Value            | Average | Value                    | Average |      |      |   |     |
|            |       |                   |                     |   | -                       | -       | -     | -       | -     | -       | -               | -       | -                  | -       | -          | -       | -                | -       | -                        | -       |      |      |   |     |
| 02/03/2011 | 14:32 | Fine              | Middle              | 3 | 17.30                   | 17.30   | 17.40 | 7.99    | 7.99  | 8.00    | 31.65           | 31.65   | 31.65              | 96.6    | 95.9       | 96.3    | 7.64             | 7.58    | 7.62                     | 2.04    | 1.95 | 1.99 | 5 | 5.5 |
|            | 14:37 |                   | Middle              | 3 | 17.50                   | 17.50   |       | 8.00    | 8.00  |         | 31.65           | 31.65   |                    | 96.8    | 96.0       |         | 7.65             | 7.59    |                          | 1.88    | 2.10 |      | 6 |     |
| 04/03/2011 | 17:03 | Cloudy            | Middle              | 3 | 16.90                   | 16.90   | 16.88 | 8.42    | 8.42  | 8.42    | 30.74           | 30.74   | 30.74              | 88.7    | 81.5       | 86.0    | 7.13             | 6.55    | 6.91                     | 2.32    | 2.36 | 2.36 | 5 | 6.0 |
|            | 17:07 |                   | Middle              | 3 | 16.85                   | 16.85   |       | 8.41    | 8.41  |         | 30.73           | 30.73   |                    | 85.5    | 88.2       |         | 6.87             | 7.08    |                          | 2.49    | 2.27 |      | 7 |     |
| 07/03/2011 | 18:48 | Cloudy            | Middle              | 2 | 17.75                   | 17.75   | 17.76 | 7.70    | 7.70  | 7.70    | 30.86           | 30.86   | 30.86              | 80.8    | 88.4       | 86.9    | 6.39             | 6.99    | 6.88                     | 2.02    | 2.13 | 2.23 | 4 | 3.5 |
|            | 18:52 |                   | Middle              | 2 | 17.76                   | 17.76   |       | 7.69    | 7.69  |         | 30.86           | 30.86   |                    | 88.1    | 90.4       |         | 6.97             | 7.15    |                          | 2.44    | 2.32 |      | 3 |     |
| 09/03/2011 | 06:52 | Cloudy            | Middle              | 3 | 15.46                   | 15.46   | 15.46 | 8.37    | 8.37  | 8.37    | 29.77           | 29.77   | 29.78              | 92.5    | 95.6       | 93.4    | 7.70             | 7.96    | 7.78                     | 2.22    | 2.32 | 2.24 | 6 | 5.0 |
|            | 06:55 |                   | Middle              | 3 | 15.45                   | 15.45   |       | 8.36    | 8.36  |         | 29.79           | 29.79   |                    | 95.2    | 90.4       |         | 7.94             | 7.52    |                          | 2.27    | 2.16 |      | 4 |     |
| 11/03/2011 | 07:26 | Cloudy            | Middle              | 3 | 16.80                   | 16.80   | 16.80 | 7.96    | 7.96  | 7.97    | 32.07           | 32.07   | 32.08              | 88.4    | 88.2       | 86.6    | 7.10             | 7.05    | 6.97                     | 2.46    | 2.77 | 2.64 | 5 | 4.5 |
|            | 07:30 |                   | Middle              | 3 | 16.80                   | 16.80   |       | 7.98    | 7.98  |         | 32.08           | 32.08   |                    | 84.3    | 85.6       |         | 6.84             | 6.90    |                          | 2.79    | 2.52 |      | 4 |     |
| 13/03/2011 | 08:53 | Sunny             | Middle              | 3 | 20.30                   | 20.30   | 20.30 | 7.74    | 7.74  | 7.74    | 32.05           | 32.05   | 32.05              | 82.7    | 82.6       | 82.9    | 6.10             | 6.13    | 6.15                     | 2.12    | 2.03 | 1.93 | 4 | 4.0 |
|            | 08:56 |                   | Middle              | 3 | 20.30                   | 20.30   |       | 7.74    | 7.74  |         | 32.05           | 32.05   |                    | 81.9    | 84.4       |         | 6.09             | 6.26    |                          | 1.83    | 1.73 |      | 4 |     |
| 16/03/2011 | 14:07 | Fine              | Middle              | 3 | 17.80                   | 17.80   | 17.80 | 8.05    | 8.05  | 8.05    | 32.76           | 32.76   | 32.76              | 94.7    | 94.2       | 94.4    | 7.39             | 7.35    | 7.36                     | 2.40    | 2.51 | 2.37 | 4 | 5.0 |
|            | 14:12 |                   | Middle              | 3 | 17.80                   | 17.80   |       | 8.04    | 8.04  |         | 32.76           | 32.76   |                    | 94.5    | 94.0       |         | 7.37             | 7.34    |                          | 2.22    | 2.34 |      | 6 |     |
| 18/03/2011 | 15:54 | Rainy             | Middle              | 3 | 17.30                   | 17.30   | 17.25 | 8.10    | 8.10  | 8.10    | 32.94           | 32.94   | 32.94              | 90.4    | 89.7       | 90.2    | 7.18             | 7.13    | 7.16                     | 2.77    | 2.82 | 2.79 | 6 | 5.5 |
|            | 15:50 |                   | Middle              | 3 | 17.20                   | 17.20   |       | 8.10    | 8.10  |         | 32.94           | 32.94   |                    | 90.6    | 90.0       |         | 7.19             | 7.15    |                          | 2.91    | 2.66 |      | 5 |     |
| 21/03/2011 | 18:40 | Cloudy            | Middle              | 2 | 20.10                   | 20.10   | 20.10 | 7.87    | 7.87  | 7.87    | 32.60           | 32.60   | 32.60              | 81.2    | 80.8       | 81.3    | 6.07             | 6.04    | 6.09                     | 2.59    | 2.86 | 2.91 | 4 | 5.0 |
|            | 18:43 |                   | Middle              | 2 | 20.10                   | 20.10   |       | 7.87    | 7.87  |         | 32.60           | 32.60   |                    | 82.2    | 81.1       |         | 6.18             | 6.07    |                          | 3.23    | 2.94 |      | 6 |     |
| 23/03/2011 | 07:33 | Cloudy            | Middle              | 3 | 17.30                   | 17.30   | 17.30 | 7.85    | 7.85  | 7.85    | 32.32           | 32.32   | 32.32              | 72.4    | 70.9       | 72.1    | 5.71             | 6.59    | 5.93                     | 2.96    | 3.14 | 2.72 | 5 | 4.5 |
|            | 07:36 |                   | Middle              | 3 | 17.30                   | 17.30   |       | 7.85    | 7.85  |         | 32.32           | 32.32   |                    | 69.4    | 75.8       |         | 5.44             | 5.98    |                          | 2.49    | 2.30 |      | 4 |     |
| 25/03/2011 | 07:58 | Cloudy            | Middle              | 2 | 17.10                   | 17.10   | 17.10 | 7.91    | 7.91  | 7.91    | 32.82           | 32.82   | 32.82              | 86.9    | 85.8       | 85.1    | 6.89             | 6.80    | 6.76                     | 2.77    | 2.73 | 2.66 | 2 | 2.5 |
|            | 08:00 |                   | Middle              | 2 | 17.10                   | 17.10   |       | 7.91    | 7.91  |         | 32.82           | 32.82   |                    | 86.0    | 81.6       |         | 6.87             | 6.47    |                          | 2.61    | 2.52 |      | 3 |     |
| 29/03/2011 | 11:50 | Cloudy            | Middle              | 3 | 18.20                   | 18.20   | 18.25 | 7.97    | 7.97  | 7.97    | 32.33           | 32.33   | 32.33              | 90.6    | 89.5       | 90.1    | 7.01             | 6.91    | 6.96                     | 4.54    | 4.70 | 4.56 | 4 | 4.5 |
|            | 11:55 |                   | Middle              | 3 | 18.30                   | 18.30   |       | 7.97    | 7.97  |         | 32.33           | 32.33   |                    | 90.5    | 89.7       |         | 7.01             | 6.92    |                          | 4.57    | 4.42 |      | 5 |     |
| 31/03/2011 | 17:20 | Cloudy            | Middle              | 3 | 18.54                   | 18.54   | 18.55 | 7.80    | 7.80  | 7.80    | 32.30           | 32.30   | 32.30              | 87.0    | 84.7       | 85.5    | 6.71             | 6.53    | 6.59                     | 2.46    | 2.42 | 2.61 | 5 | 5.0 |
|            | 17:23 |                   | Middle              | 3 | 18.55                   | 18.55   |       | 7.80    | 7.80  |         | 32.30           | 32.30   |                    | 84.3    | 85.8       |         | 6.50             | 6.62    |                          | 2.68    | 2.87 |      | 5 |     |

| Date       | Time  | Weather Condition | Sampling Depth |       | Water Temperature |       | pH      |       |         | Salinity |         | DO Saturation |         | DO    |         | Turbidity |         | Suspended Solids |         |      |      |      |    |     |
|------------|-------|-------------------|----------------|-------|-------------------|-------|---------|-------|---------|----------|---------|---------------|---------|-------|---------|-----------|---------|------------------|---------|------|------|------|----|-----|
|            |       |                   |                |       | °C                |       | -       |       | ppt     |          | %       |               | mg/L    |       | NTU     |           | mg/L    |                  |         |      |      |      |    |     |
|            |       |                   | m              | Value | Average           | Value | Average | Value | Average | Value    | Average | Value         | Average | Value | Average | Value     | Average | Value            | Average |      |      |      |    |     |
| 02/03/2011 | 15:00 | Fine              | Middle         | 3     | 17.10             | 17.10 | 17.20   | 8.08  | 8.08    | 8.09     | 31.84   | 31.84         | 31.82   | 99.4  | 98.8    | 99.0      | 7.80    | 7.75             | 7.77    | 1.53 | 1.60 | 1.58 | 4  | 3.5 |
|            | 15:03 |                   | Middle         | 3     | 17.30             | 17.30 |         | 8.09  | 8.09    |          | 31.80   | 31.80         |         | 99.2  | 98.6    |           | 7.79    | 7.73             |         | 1.72 | 1.47 |      | 3  |     |
| 04/03/2011 | 16:31 | Cloudy            | Middle         | 3     | 16.83             | 16.83 | 16.82   | 8.47  | 8.47    | 8.47     | 31.02   | 31.02         | 31.02   | 85.1  | 84.9    | 85.5      | 6.84    | 6.83             | 6.88    | 2.18 | 1.74 | 2.08 | 9  | 9.5 |
|            | 16:34 |                   | Middle         | 3     | 16.81             | 16.81 |         | 8.46  | 8.46    |          | 31.02   | 31.02         |         | 84.0  | 88.1    |           | 6.76    | 7.08             |         | 2.58 | 1.81 |      | 10 |     |
| 07/03/2011 | 18:20 | Cloudy            | Middle         | 2     | 17.33             | 17.33 | 17.33   | 7.64  | 7.64    | 7.64     | 30.91   | 30.91         | 30.91   | 85.6  | 86.4    | 87.0      | 6.82    | 6.88             | 6.94    | 3.88 | 4.00 | 3.87 | 6  | 6.5 |
|            | 18:23 |                   | Middle         | 2     | 17.33             | 17.33 |         | 7.64  | 7.64    |          | 30.91   | 30.91         |         | 88.0  | 88.0    |           | 7.02    | 7.04             |         | 3.66 | 3.92 |      | 7  |     |
| 09/03/2011 | 06:36 | Cloudy            | Middle         | 3     | 16.48             | 16.48 | 16.48   | 8.35  | 8.35    | 8.35     | 30.85   | 30.85         | 30.87   | 96.4  | 96.4    | 96.4      | 7.83    | 7.84             | 7.83    | 2.52 | 2.77 | 2.70 | 4  | 4.0 |
|            | 06:38 |                   | Middle         | 3     | 16.47             | 16.47 |         | 8.35  | 8.35    |          | 30.88   | 30.88         |         | 98.1  | 94.6    |           | 7.96    | 7.67             |         | 2.64 | 2.88 |      | 4  |     |
| 11/03/2011 | 07:01 | Cloudy            | Middle         | 3     | 16.80             | 16.80 | 16.80   | 7.94  | 7.94    | 7.94     | 32.37   | 32.37         | 32.37   | 89.5  | 90.3    | 90.3      | 7.15    | 7.21             | 7.22    | 2.00 | 1.98 | 2.26 | 4  | 4.5 |
|            | 07:05 |                   | Middle         | 3     | 16.80             | 16.80 |         | 7.94  | 7.94    |          | 32.37   | 32.37         |         | 90.8  | 90.4    |           | 7.28    | 7.22             |         | 2.44 | 2.63 |      | 5  |     |
| 13/03/2011 | 08:23 | Sunny             | Middle         | 3     | 19.80             | 19.80 | 19.80   | 7.84  | 7.84    | 7.84     | 32.37   | 32.37         | 32.37   | 83.7  | 82.5    | 84.7      | 6.23    | 6.22             | 6.35    | 2.35 | 2.27 | 2.22 | 6  | 5.0 |
|            | 08:25 |                   | Middle         | 3     | 19.80             | 19.80 |         | 7.84  | 7.84    |          | 32.37   | 32.37         |         | 87.1  | 85.4    |           | 6.54    | 6.40             |         | 2.20 | 2.04 |      | 4  |     |
| 16/03/2011 | 15:32 | Fine              | Middle         | 3     | 18.10             | 18.10 | 18.05   | 8.00  | 8.00    | 8.00     | 32.15   | 32.15         | 32.14   | 94.5  | 93.5    | 94.2      | 7.38    | 7.31             | 7.36    | 2.06 | 2.18 | 2.15 | 6  | 7.0 |
|            | 15:37 |                   | Middle         | 3     | 18.00             | 18.00 |         | 7.99  | 7.99    |          | 32.12   | 32.13         |         | 94.8  | 93.9    |           | 7.40    | 7.33             |         | 2.11 | 2.23 |      | 8  |     |
| 18/03/2011 | 16:19 | Rainy             | Middle         | 3     | 17.40             | 17.40 | 17.30   | 8.06  | 8.06    | 8.06     | 33.13   | 33.14         | 33.13   | 94.5  | 93.4    | 94.2      | 7.44    | 7.35             | 7.41    | 2.92 | 2.84 | 2.87 | 4  | 4.0 |
|            | 16:23 |                   | Middle         | 3     | 17.20             | 17.20 |         | 8.06  | 8.06    |          | 33.13   | 33.13         |         | 94.8  | 94.0    |           | 7.46    | 7.39             |         | 2.84 | 2.88 |      | 4  |     |
| 21/03/2011 | 18:15 | Cloudy            | Middle         | 2     | 20.90             | 20.90 | 20.85   | 7.88  | 7.88    | 7.88     | 32.30   | 32.30         | 32.30   | 80.3  | 80.4    | 81.0      | 6.05    | 6.06             | 6.10    | 3.99 | 3.95 | 3.95 | 9  | 8.0 |
|            | 18:18 |                   | Middle         | 2     | 20.80             | 20.80 |         | 7.88  | 7.88    |          | 32.30   | 32.30         |         | 81.3  | 82.0    |           | 6.13    | 6.15             |         | 3.79 | 4.08 |      | 7  |     |
| 23/03/2011 | 06:53 | Cloudy            | Middle         | 2     | 18.10             | 18.10 | 18.10   | 7.82  | 7.82    | 7.83     | 32.85   | 32.85         | 32.85   | 80.2  | 80.2    | 80.3      | 6.24    | 6.23             | 6.24    | 3.07 | 2.56 | 2.89 | 5  | 4.5 |
|            | 06:56 |                   | Middle         | 2     | 18.10             | 18.10 |         | 7.83  | 7.83    |          | 32.85   | 32.85         |         | 81.2  | 79.6    |           | 6.31    | 6.19             |         | 2.87 | 3.04 |      | 4  |     |
| 25/03/2011 | 07:33 | Cloudy            | Middle         | 2     | 17.60             | 17.60 | 17.60   | 7.77  | 7.77    | 7.81     | 32.46   | 32.46         | 32.46   | 84.2  | 84.5    | 83.6      | 6.67    | 6.66             | 6.59    | 3.62 | 3.73 | 3.47 | 4  | 3.5 |
|            | 07:35 |                   | Middle         | 2     | 17.60             | 17.60 |         | 7.84  | 7.84    |          | 32.46   | 32.46         |         | 83.4  | 82.2    |           | 6.58    | 6.46             |         | 3.41 | 3.13 |      | 3  |     |
| 29/03/2011 | 12:15 | Cloudy            | Middle         | 3     | 17.70             | 17.70 | 17.65   | 7.95  | 7.95    | 7.95     | 32.30   | 32.30         | 32.31   | 90.4  | 89.6    | 90.2      | 7.05    | 6.98             | 7.03    | 2.61 | 2.54 | 2.59 | 7  | 6.0 |
|            | 12:19 |                   | Middle         | 3     | 17.60             | 17.60 |         | 7.95  | 7.95    |          | 32.31   | 32.31         |         | 90.7  | 90.0    |           | 7.08    | 7.01             |         | 2.47 | 2.72 |      | 5  |     |
| 31/03/2011 | 16:20 | Cloudy            | Middle         | 3     | 19.51             | 19.51 | 19.51   | 8.00  | 8.00    | 8.00     | 31.65   | 31.65         | 31.65   | 85.0  | 86.3    | 85.5      | 6.47    | 6.56             | 6.50    | 4.62 | 4.87 | 4.59 | 7  | 6.5 |
|            | 16:22 |                   | Middle         | 3     | 19.51             | 19.51 |         | 8.00  | 8.00    |          | 31.65   | 31.65         |         | 83.0  | 87.5    |           | 6.32    | 6.66             |         | 4.38 | 4.48 |      | 6  |     |



| Date       | Time  | Weather Condition | Sampling Depth |       | Water Temperature |       | pH      |       |         | Salinity |         | DO Saturation |         | DO    |         | Turbidity |         | Suspended Solids |         |      |      |      |    |     |
|------------|-------|-------------------|----------------|-------|-------------------|-------|---------|-------|---------|----------|---------|---------------|---------|-------|---------|-----------|---------|------------------|---------|------|------|------|----|-----|
|            |       |                   |                |       | °C                |       | -       |       | ppt     |          | %       |               | mg/L    |       | NTU     |           | mg/L    |                  |         |      |      |      |    |     |
|            |       |                   | m              | Value | Average           | Value | Average | Value | Average | Value    | Average | Value         | Average | Value | Average | Value     | Average | Value            | Average |      |      |      |    |     |
| 02/03/2011 | 15:25 | Fine              | Middle         | 3     | 16.80             | 16.80 | 16.90   | 8.10  | 8.10    | 8.11     | 31.70   | 31.70         | 31.70   | 96.9  | 96.2    | 96.6      | 7.74    | 7.69             | 7.72    | 2.04 | 2.17 | 2.14 | 7  | 6.0 |
|            | 15:28 |                   | Middle         | 3     | 17.00             | 17.00 |         | 8.11  | 8.11    |          | 31.70   | 31.71         |         | 97.0  | 96.4    |           | 7.75    | 7.70             |         | 2.21 | 2.12 |      | 5  |     |
| 04/03/2011 | 19:32 | Cloudy            | Middle         | 3     | 16.18             | 16.18 | 16.19   | 8.44  | 8.44    | 8.45     | 31.16   | 31.16         | 31.16   | 91.2  | 94.2    | 92.7      | 7.42    | 7.66             | 7.52    | 3.13 | 3.20 | 3.28 | 9  | 9.0 |
|            | 19:38 |                   | Middle         | 3     | 16.19             | 16.19 |         | 8.45  | 8.45    |          | 31.16   | 31.16         |         | 93.2  | 92.1    |           | 7.58    | 7.40             |         | 3.42 | 3.36 |      | 9  |     |
| 07/03/2011 | 20:02 | Cloudy            | Middle         | 3     | 16.53             | 16.54 | 16.54   | 8.26  | 8.26    | 8.26     | 31.26   | 31.26         | 31.27   | 93.6  | 90.6    | 92.9      | 7.57    | 7.21             | 7.48    | 4.29 | 3.93 | 4.05 | 5  | 6.0 |
|            | 20:05 |                   | Middle         | 3     | 16.54             | 16.54 |         | 8.26  | 8.26    |          | 31.27   | 31.27         |         | 92.1  | 95.2    |           | 7.45    | 7.69             |         | 4.02 | 3.95 |      | 7  |     |
| 09/03/2011 | 09:40 | Cloudy            | Middle         | 3     | 15.56             | 15.56 | 15.56   | 8.28  | 8.28    | 8.28     | 31.58   | 31.58         | 31.58   | 88.7  | 87.3    | 87.7      | 7.29    | 7.17             | 7.21    | 4.94 | 4.67 | 4.53 | 4  | 4.0 |
|            | 09:45 |                   | Middle         | 3     | 15.56             | 15.56 |         | 8.28  | 8.28    |          | 31.58   | 31.58         |         | 91.0  | 83.9    |           | 7.47    | 6.89             |         | 4.00 | 4.52 |      | 4  |     |
| 11/03/2011 | 10:11 | Cloudy            | Middle         | 3     | 17.10             | 17.10 | 17.10   | 7.96  | 7.96    | 7.96     | 32.63   | 32.63         | 32.63   | 87.3  | 88.9    | 88.0      | 6.91    | 7.04             | 6.96    | 3.90 | 4.14 | 4.46 | 6  | 6.0 |
|            | 10:15 |                   | Middle         | 3     | 17.10             | 17.10 |         | 7.96  | 7.96    |          | 32.63   | 32.63         |         | 88.4  | 87.3    |           | 7.00    | 6.89             |         | 4.92 | 4.88 |      | 6  |     |
| 13/03/2011 | 10:42 | Sunny             | Middle         | 4     | 19.20             | 19.20 | 19.20   | 7.79  | 7.79    | 7.79     | 32.09   | 32.09         | 32.09   | 80.1  | 81.6    | 81.1      | 6.12    | 6.23             | 6.20    | 1.72 | 1.90 | 1.94 | 4  | 4.0 |
|            | 10:47 |                   | Middle         | 4     | 19.20             | 19.20 |         | 7.79  | 7.79    |          | 32.09   | 32.09         |         | 81.8  | 80.9    |           | 6.25    | 6.18             |         | 2.02 | 2.10 |      | 4  |     |
| 16/03/2011 | 15:07 | Fine              | Middle         | 3     | 17.90             | 17.90 | 17.90   | 7.98  | 7.98    | 7.99     | 33.01   | 33.01         | 33.01   | 94.4  | 93.7    | 94.0      | 7.32    | 7.28             | 7.30    | 1.84 | 2.02 | 1.93 | 3  | 4.0 |
|            | 15:10 |                   | Middle         | 3     | 17.90             | 17.90 |         | 7.99  | 7.99    |          | 33.01   | 33.01         |         | 94.2  | 93.6    |           | 7.31    | 7.27             |         | 1.95 | 1.92 |      | 5  |     |
| 18/03/2011 | 16:43 | Rainy             | Middle         | 3     | 17.30             | 17.30 | 17.20   | 8.00  | 8.00    | 8.00     | 33.18   | 33.18         | 33.18   | 91.4  | 91.0    | 91.2      | 7.22    | 7.19             | 7.21    | 4.72 | 4.64 | 4.83 | 8  | 9.0 |
|            | 16:47 |                   | Middle         | 3     | 17.10             | 17.10 |         | 8.00  | 8.00    |          | 33.18   | 33.18         |         | 91.6  | 90.9    |           | 7.25    | 7.18             |         | 4.93 | 5.01 |      | 10 |     |
| 21/03/2011 | 20:48 | Cloudy            | Middle         | 3     | 19.80             | 19.80 | 19.75   | 7.92  | 7.92    | 7.92     | 33.00   | 33.00         | 33.00   | 83.0  | 85.7    | 85.2      | 6.30    | 6.42             | 6.40    | 6.98 | 6.63 | 6.57 | 8  | 8.0 |
|            | 20:51 |                   | Middle         | 3     | 19.70             | 19.70 |         | 7.92  | 7.92    |          | 33.00   | 33.00         |         | 86.2  | 86.0    |           | 6.42    | 6.47             |         | 6.24 | 6.41 |      | 8  |     |
| 23/03/2011 | 09:54 | Cloudy            | Middle         | 4     | 17.40             | 17.40 | 17.40   | 7.95  | 7.95    | 7.95     | 33.15   | 33.15         | 33.16   | 81.1  | 83.9    | 83.3      | 6.37    | 6.48             | 6.52    | 5.93 | 5.79 | 5.59 | 6  | 7.0 |
|            | 09:59 |                   | Middle         | 4     | 17.40             | 17.40 |         | 7.95  | 7.95    |          | 33.16   | 33.16         |         | 83.7  | 84.5    |           | 6.58    | 6.64             |         | 5.36 | 5.28 |      | 8  |     |
| 25/03/2011 | 10:30 | Cloudy            | Middle         | 3     | 18.70             | 18.70 | 18.70   | 7.94  | 7.94    | 7.94     | 33.25   | 33.25         | 33.25   | 85.0  | 82.3    | 84.1      | 6.60    | 6.24             | 6.45    | 4.31 | 4.79 | 4.52 | 7  | 7.0 |
|            | 10:33 |                   | Middle         | 3     | 18.70             | 18.70 |         | 7.94  | 7.94    |          | 33.25   | 33.25         |         | 83.8  | 85.4    |           | 6.42    | 6.54             |         | 4.16 | 4.80 |      | 7  |     |
| 29/03/2011 | 13:25 | Cloudy            | Middle         | 3     | 18.30             | 18.30 | 18.35   | 7.94  | 7.94    | 7.95     | 33.11   | 33.11         | 33.11   | 90.9  | 90.3    | 90.4      | 7.00    | 6.95             | 6.96    | 2.89 | 2.64 | 2.76 | 9  | 8.0 |
|            | 13:28 |                   | Middle         | 3     | 18.40             | 18.40 |         | 7.96  | 7.96    |          | 33.11   | 33.11         |         | 90.5  | 89.8    |           | 6.98    | 6.92             |         | 2.77 | 2.72 |      | 7  |     |
| 31/03/2011 | 17:25 | Cloudy            | Middle         | 3     | 18.20             | 18.20 | 18.15   | 7.93  | 7.93    | 7.93     | 33.41   | 33.41         | 33.42   | 89.8  | 89.5    | 89.4      | 6.98    | 6.95             | 6.93    | 4.88 | 4.83 | 4.78 | 9  | 8.5 |
|            | 17:28 |                   | Middle         | 3     | 18.10             | 18.10 |         | 7.93  | 7.94    |          | 33.42   | 33.42         |         | 88.9  | 89.3    |           | 6.88    | 6.92             |         | 4.67 | 4.74 |      | 8  |     |



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

| Date       | Time  | Weather Condition | Sampling Depth |       | Water Temperature |       | pH      |       |         |       | Salinity |       | DO Saturation |       | DO      |       | Turbidity |       | Suspended Solids |      |      |      |    |      |
|------------|-------|-------------------|----------------|-------|-------------------|-------|---------|-------|---------|-------|----------|-------|---------------|-------|---------|-------|-----------|-------|------------------|------|------|------|----|------|
|            |       |                   |                |       | °C                |       | -       |       | ppt     |       | %        |       | mg/L          |       | NTU     |       | mg/L      |       |                  |      |      |      |    |      |
|            |       |                   | m              | Value | Average           | Value | Average | Value | Average | Value | Average  | Value | Average       | Value | Average | Value | Average   | Value | Average          |      |      |      |    |      |
| 02/03/2011 | 15:48 | Fine              | Middle         | 3     | 17.00             | 17.00 | 17.10   | 8.06  | 8.06    | 8.06  | 31.68    | 31.68 | 31.69         | 93.5  | 92.9    | 93.1  | 7.48      | 7.44  | 7.46             | 2.64 | 2.57 | 2.84 | 7  | 7.5  |
|            | 15:54 |                   | Middle         | 3     | 17.20             | 17.20 |         | 8.06  | 8.06    |       | 31.70    | 31.70 |               | 93.4  | 92.6    |       | 7.48      | 7.42  |                  | 3.10 | 3.06 |      | 8  |      |
| 04/03/2011 | 18:54 | Cloudy            | Middle         | 4     | 16.77             | 16.77 | 16.77   | 8.47  | 8.47    | 8.47  | 31.04    | 31.04 | 31.04         | 88.5  | 90.6    | 91.1  | 7.12      | 7.25  | 7.32             | 2.86 | 2.18 | 2.37 | 8  | 7.0  |
|            | 18:59 |                   | Middle         | 4     | 16.77             | 16.77 |         | 8.46  | 8.46    |       | 31.04    | 31.04 |               | 93.2  | 92.0    |       | 7.51      | 7.41  |                  | 2.37 | 2.08 |      | 6  |      |
| 07/03/2011 | 19:32 | Cloudy            | Middle         | 3     | 16.97             | 16.97 | 16.98   | 8.19  | 8.19    | 8.20  | 30.95    | 31.15 | 31.10         | 87.1  | 98.3    | 91.8  | 7.19      | 7.98  | 7.43             | 4.62 | 4.76 | 4.69 | 5  | 5.5  |
|            | 19:36 |                   | Middle         | 3     | 16.98             | 16.98 |         | 8.20  | 8.20    |       | 31.14    | 31.14 |               | 90.9  | 90.7    |       | 7.28      | 7.27  |                  | 4.66 | 4.71 |      | 6  |      |
| 09/03/2011 | 09:03 | Cloudy            | Middle         | 3     | 15.80             | 15.80 | 15.80   | 8.27  | 8.27    | 8.27  | 31.61    | 31.61 | 31.61         | 87.4  | 86.8    | 87.2  | 7.14      | 7.09  | 7.13             | 4.36 | 4.25 | 4.31 | 7  | 6.0  |
|            | 09:11 |                   | Middle         | 3     | 15.80             | 15.80 |         | 8.27  | 8.28    |       | 31.61    | 31.61 |               | 87.3  | 87.3    |       | 7.14      | 7.14  |                  | 4.36 | 4.26 |      | 5  |      |
| 11/03/2011 | 09:44 | Cloudy            | Middle         | 3     | 16.60             | 16.60 | 16.60   | 7.94  | 7.94    | 7.94  | 32.46    | 32.46 | 32.47         | 83.1  | 81.8    | 83.0  | 6.65      | 6.54  | 6.64             | 4.75 | 4.48 | 4.59 | 9  | 8.5  |
|            | 09:49 |                   | Middle         | 3     | 16.60             | 16.60 |         | 7.94  | 7.94    |       | 32.47    | 32.47 |               | 82.9  | 84.1    |       | 6.63      | 6.73  |                  | 4.56 | 4.56 |      | 8  |      |
| 13/03/2011 | 10:13 | Sunny             | Middle         | 4     | 19.10             | 19.10 | 19.10   | 7.82  | 7.82    | 7.82  | 32.02    | 32.02 | 32.02         | 81.6  | 84.4    | 84.2  | 6.24      | 6.47  | 6.45             | 1.83 | 1.63 | 1.72 | 3  | 3.5  |
|            | 10:15 |                   | Middle         | 4     | 19.10             | 19.10 |         | 7.81  | 7.81    |       | 32.02    | 32.02 |               | 86.6  | 84.2    |       | 6.63      | 6.44  |                  | 1.61 | 1.81 |      | 4  |      |
| 16/03/2011 | 14:45 | Fine              | Middle         | 3     | 17.80             | 17.80 | 17.80   | 7.97  | 7.97    | 7.97  | 32.77    | 32.77 | 32.77         | 93.3  | 92.5    | 92.8  | 7.27      | 7.22  | 7.24             | 1.84 | 1.80 | 1.90 | 5  | 4.5  |
|            | 14:48 |                   | Middle         | 3     | 17.80             | 17.80 |         | 7.97  | 7.97    |       | 32.77    | 32.77 |               | 93.1  | 92.3    |       | 7.26      | 7.20  |                  | 2.02 | 1.95 |      | 4  |      |
| 18/03/2011 | 17:07 | Rainy             | Middle         | 3     | 17.30             | 17.30 | 17.20   | 8.04  | 8.04    | 8.04  | 33.15    | 33.15 | 33.14         | 94.0  | 93.1    | 93.4  | 7.45      | 7.37  | 7.40             | 6.51 | 6.44 | 6.55 | 10 | 10.5 |
|            | 17:12 |                   | Middle         | 3     | 17.10             | 17.10 |         | 8.04  | 8.04    |       | 33.12    | 33.12 |               | 93.7  | 92.9    |       | 7.43      | 7.35  |                  | 6.72 | 6.54 |      | 11 |      |
| 21/03/2011 | 20:26 | Cloudy            | Middle         | 3     | 19.40             | 19.40 | 19.40   | 7.91  | 7.91    | 7.91  | 33.01    | 33.01 | 33.01         | 80.6  | 80.6    | 80.4  | 6.09      | 6.08  | 6.04             | 3.66 | 3.39 | 3.54 | 8  | 7.5  |
|            | 20:30 |                   | Middle         | 3     | 19.40             | 19.40 |         | 7.91  | 7.91    |       | 33.01    | 33.01 |               | 79.8  | 80.4    |       | 5.92      | 6.06  |                  | 3.77 | 3.34 |      | 7  |      |
| 23/03/2011 | 09:30 | Cloudy            | Middle         | 3     | 17.50             | 17.50 | 17.50   | 7.93  | 7.93    | 7.93  | 32.45    | 32.45 | 32.45         | 81.9  | 81.1    | 82.7  | 7.18      | 6.40  | 6.70             | 4.11 | 3.42 | 3.68 | 8  | 9.0  |
|            | 09:33 |                   | Middle         | 3     | 17.50             | 17.50 |         | 7.93  | 7.93    |       | 32.45    | 32.45 |               | 84.3  | 83.6    |       | 6.65      | 6.58  |                  | 3.84 | 3.36 |      | 10 |      |
| 25/03/2011 | 09:52 | Cloudy            | Middle         | 3     | 18.70             | 18.70 | 18.70   | 7.94  | 7.94    | 7.94  | 33.20    | 33.20 | 33.20         | 88.6  | 89.8    | 88.6  | 6.90      | 6.83  | 6.83             | 4.80 | 4.79 | 4.56 | 7  | 8.0  |
|            | 09:56 |                   | Middle         | 3     | 18.70             | 18.70 |         | 7.94  | 7.94    |       | 33.20    | 33.20 |               | 87.4  | 88.5    |       | 6.77      | 6.80  |                  | 4.44 | 4.22 |      | 9  |      |
| 29/03/2011 | 13:50 | Cloudy            | Middle         | 3     | 18.20             | 18.20 | 18.20   | 7.97  | 7.97    | 7.97  | 33.21    | 33.21 | 33.21         | 87.0  | 86.2    | 86.5  | 6.72      | 6.65  | 6.68             | 2.56 | 2.68 | 2.47 | 6  | 6.5  |
|            | 13:54 |                   | Middle         | 3     | 18.20             | 18.20 |         | 7.97  | 7.97    |       | 33.21    | 33.21 |               | 86.8  | 86.0    |       | 6.71      | 6.64  |                  | 2.23 | 2.40 |      | 7  |      |
| 31/03/2011 | 17:50 | Cloudy            | Middle         | 3     | 17.90             | 17.90 | 17.85   | 7.90  | 7.90    | 7.91  | 33.50    | 33.50 | 33.51         | 88.5  | 87.8    | 87.8  | 6.91      | 6.84  | 6.84             | 5.25 | 5.34 | 5.20 | 8  | 9.0  |
|            | 17:53 |                   | Middle         | 3     | 17.80             | 17.80 |         | 7.91  | 7.91    |       | 33.51    | 33.51 |               | 87.6  | 87.1    |       | 6.82      | 6.77  |                  | 5.10 | 5.11 |      | 10 |      |

| Date       | Time  | Weather Condition | Sampling Depth |       | Water Temperature |       | pH      |       |         |       | Salinity |       | DO Saturation |       | DO      |       | Turbidity |       | Suspended Solids |      |      |      |    |      |
|------------|-------|-------------------|----------------|-------|-------------------|-------|---------|-------|---------|-------|----------|-------|---------------|-------|---------|-------|-----------|-------|------------------|------|------|------|----|------|
|            |       |                   |                |       | °C                |       | -       |       | ppt     |       | %        |       | mg/L          |       | NTU     |       | mg/L      |       |                  |      |      |      |    |      |
|            |       |                   | m              | Value | Average           | Value | Average | Value | Average | Value | Average  | Value | Average       | Value | Average | Value | Average   | Value | Average          |      |      |      |    |      |
| 02/03/2011 | 15:25 | Fine              | Middle         | 2     | 17.60             | 17.60 | 17.55   | 7.95  | 7.95    | 7.96  | 31.33    | 31.33 | 31.34         | 83.7  | 83.0    | 83.9  | 6.73      | 6.70  | 6.76             | 5.55 | 5.71 | 5.74 | 8  | 7.5  |
|            | 15:28 |                   | Middle         | 2     | 17.50             | 17.50 |         | 7.96  | 7.96    |       | 31.34    | 31.34 |               | 84.5  | 84.3    |       | 6.81      | 6.80  |                  | 5.80 | 5.89 |      | 7  |      |
| 04/03/2011 | 19:01 | Cloudy            | Middle         | 3     | 16.97             | 16.97 | 16.88   | 8.26  | 8.26    | 8.25  | 30.57    | 30.57 | 30.64         | 95.5  | 89.8    | 92.4  | 7.70      | 7.24  | 7.45             | 3.54 | 3.94 | 3.85 | 7  | 7.5  |
|            | 19:04 |                   | Middle         | 3     | 16.79             | 16.79 |         | 8.23  | 8.23    |       | 30.70    | 30.70 |               | 91.3  | 92.9    |       | 7.36      | 7.49  |                  | 4.08 | 3.85 |      | 8  |      |
| 07/03/2011 | 19:17 | Cloudy            | Middle         | 2     | 17.52             | 17.52 | 17.55   | 7.91  | 7.91    | 7.92  | 34.72    | 34.72 | 34.70         | 87.3  | 87.2    | 87.2  | 7.14      | 7.12  | 7.11             | 4.11 | 4.38 | 4.40 | 8  | 9.0  |
|            | 19:20 |                   | Middle         | 2     | 17.58             | 17.58 |         | 7.92  | 7.92    |       | 34.66    | 34.68 |               | 87.1  | 87.2    |       | 7.10      | 7.09  |                  | 4.50 | 4.59 |      | 10 |      |
| 09/03/2011 | 09:36 | Cloudy            | Middle         | 2     | 16.30             | 16.30 | 16.20   | 8.01  | 8.01    | 8.01  | 31.53    | 31.53 | 31.54         | 80.3  | 78.9    | 80.1  | 6.66      | 6.38  | 6.47             | 4.42 | 4.21 | 4.06 | 8  | 7.0  |
|            | 09:39 |                   | Middle         | 2     | 16.10             | 16.10 |         | 8.01  | 8.02    |       | 31.55    | 31.55 |               | 81.2  | 79.8    |       | 6.43      | 6.41  |                  | 3.75 | 3.85 |      | 6  |      |
| 11/03/2011 | 09:30 | Cloudy            | Middle         | 2     | 16.70             | 16.70 | 16.65   | 8.01  | 8.01    | 8.01  | 32.40    | 32.40 | 32.40         | 85.2  | 85.0    | 85.4  | 6.95      | 6.93  | 6.96             | 3.03 | 3.00 | 3.08 | 7  | 6.5  |
|            | 09:33 |                   | Middle         | 2     | 16.60             | 16.60 |         | 8.00  | 8.00    |       | 32.39    | 32.39 |               | 85.6  | 85.8    |       | 6.98      | 6.98  |                  | 3.12 | 3.17 |      | 6  |      |
| 13/03/2011 | 10:09 | Sunny             | Middle         | 2     | 18.50             | 18.50 | 18.45   | 7.76  | 7.77    | 7.79  | 33.00    | 33.00 | 33.05         | 88.1  | 88.0    | 87.9  | 6.90      | 6.89  | 6.89             | 7.11 | 6.99 | 6.99 | 11 | 10.0 |
|            | 10:11 |                   | Middle         | 2     | 18.40             | 18.40 |         | 7.81  | 7.81    |       | 33.10    | 33.10 |               | 87.9  | 87.7    |       | 6.88      | 6.87  |                  | 6.92 | 6.95 |      | 9  |      |
| 16/03/2011 | 16:15 | Fine              | Middle         | 2     | 18.30             | 18.30 | 18.35   | 7.97  | 7.97    | 7.97  | 32.30    | 32.30 | 32.30         | 93.0  | 93.2    | 93.4  | 7.24      | 7.24  | 7.27             | 5.67 | 5.77 | 5.76 | 11 | 11.5 |
|            | 16:18 |                   | Middle         | 2     | 18.40             | 18.40 |         | 7.97  | 7.97    |       | 32.29    | 32.29 |               | 93.7  | 93.7    |       | 7.30      | 7.30  |                  | 5.79 | 5.82 |      | 12 |      |
| 18/03/2011 | 15:37 | Rainy             | Middle         | 2     | 17.40             | 17.40 | 17.35   | 7.95  | 7.95    | 7.95  | 33.56    | 33.56 | 33.56         | 93.1  | 93.4    | 93.0  | 7.31      | 7.33  | 7.30             | 5.06 | 4.98 | 4.86 | 10 | 10.0 |
|            | 15:40 |                   | Middle         | 2     | 17.30             | 17.30 |         | 7.95  | 7.95    |       | 33.56    | 33.56 |               | 92.8  | 92.5    |       | 7.29      | 7.27  |                  | 4.72 | 4.68 |      | 10 |      |
| 21/03/2011 | 19:07 | Cloudy            | Middle         | 2     | 19.70             | 19.70 | 19.70   | 7.87  | 7.88    | 7.88  | 32.30    | 32.30 | 32.30         | 88.1  | 88.0    | 87.9  | 6.61      | 6.61  | 6.60             | 5.71 | 5.75 | 5.71 | 10 | 9.0  |
|            | 19:09 |                   | Middle         | 2     | 19.70             | 19.70 |         | 7.88  | 7.88    |       | 32.30    | 32.30 |               | 87.9  | 87.7    |       | 6.60      | 6.59  |                  | 5.72 | 5.65 |      | 8  |      |
| 23/03/2011 | 09:54 | Cloudy            | Middle         | 2     | 17.90             | 17.90 | 17.85   | 7.82  | 7.82    | 7.83  | 32.37    | 32.37 | 32.35         | 77.7  | 77.0    | 76.9  | 6.12      | 6.05  | 6.04             | 5.02 | 5.11 | 4.95 | 9  | 9.0  |
|            | 09:57 |                   | Middle         | 2     | 17.80             | 17.80 |         | 7.83  | 7.83    |       | 32.33    | 32.33 |               | 76.8  | 76.1    |       | 6.03      | 5.97  |                  | 4.98 | 4.67 |      | 9  |      |
| 25/03/2011 | 10:11 | Cloudy            | Middle         | 2     | 18.50             | 18.50 | 18.55   | 7.80  | 7.80    | 7.81  | 32.50    | 32.50 | 32.45         | 81.0  | 81.9    | 81.0  | 6.55      | 6.60  | 6.54             | 4.47 | 4.32 | 4.64 | 3  | 4.5  |
|            | 10:14 |                   | Middle         | 2     | 18.60             | 18.60 |         | 7.81  | 7.81    |       | 32.40    | 32.40 |               | 80.7  | 80.3    |       | 6.52      | 6.49  |                  | 4.92 | 4.86 |      | 6  |      |
| 29/03/2011 | 14:09 | Cloudy            | Middle         | 2     | 18.70             | 18.70 | 18.70   | 7.91  | 7.91    | 7.92  | 32.70    | 32.70 | 32.65         | 83.4  | 83.8    | 84.3  | 6.48      | 6.50  | 6.52             | 4.80 | 4.91 | 4.79 | 8  | 8.5  |
|            | 14:12 |                   | Middle         | 2     | 18.70             | 18.70 |         | 7.92  | 7.92    |       | 32.60    | 32.60 |               | 84.9  | 85.2    |       | 6.54      | 6.56  |                  | 4.68 | 4.77 |      | 9  |      |
| 31/03/2011 | 13:40 | Cloudy            | Middle         | 3     | 18.00             | 18.00 | 17.98   | 7.83  | 7.83    | 7.84  | 33.10    | 33.10 | 33.03         | 71.0  | 70.6    | 70.9  | 5.50      | 5.47  | 5.50             | 4.48 | 4.62 | 4.66 | 9  | 9.0  |
|            | 13:43 |                   | Middle         | 3     | 17.90             | 18.00 |         | 7.84  | 7.84    |       | 32.96    | 32.96 |               | 70.8  | 71.2    |       | 5.49      | 5.52  |                  | 4.77 | 4.75 |      | 9  |      |

| Date       | Time  | Weather Condition | Sampling Depth |       | Water Temperature |       | pH      |       |         | Salinity |         | DO Saturation |         | DO    |         | Turbidity |         | Suspended Solids |         |      |      |      |    |      |
|------------|-------|-------------------|----------------|-------|-------------------|-------|---------|-------|---------|----------|---------|---------------|---------|-------|---------|-----------|---------|------------------|---------|------|------|------|----|------|
|            |       |                   |                |       | °C                |       | -       |       | ppt     |          | %       |               | mg/L    |       | NTU     |           | mg/L    |                  |         |      |      |      |    |      |
|            |       |                   | m              | Value | Average           | Value | Average | Value | Average | Value    | Average | Value         | Average | Value | Average | Value     | Average | Value            | Average |      |      |      |    |      |
| 02/03/2011 | 18:46 | Fine              | Middle         | 2     | 17.70             | 17.70 | 17.70   | 7.82  | 7.82    | 7.82     | 31.49   | 31.49         | 31.50   | 85.0  | 84.4    | 84.8      | 6.67    | 6.64             | 6.66    | 5.06 | 5.11 | 5.13 | 9  | 8.0  |
|            | 18:49 |                   | Middle         | 2     | 17.70             | 17.70 |         | 7.82  | 7.83    |          | 31.50   | 31.50         |         | 85.2  | 84.6    |           | 6.68    | 6.65             |         | 5.23 | 5.12 |      | 7  |      |
| 04/03/2011 | 18:01 | Cloudy            | Middle         | 2     | 16.66             | 16.66 | 16.66   | 8.28  | 8.28    | 8.29     | 30.65   | 30.65         | 30.65   | 80.5  | 89.6    | 85.6      | 6.51    | 7.25             | 6.93    | 5.68 | 5.27 | 5.61 | 11 | 10.0 |
|            | 18:04 |                   | Middle         | 2     | 16.65             | 16.65 |         | 8.29  | 8.29    |          | 30.65   | 30.65         |         | 86.9  | 85.5    |           | 7.03    | 6.92             |         | 6.20 | 5.30 |      | 9  |      |
| 07/03/2011 | 21:30 | Cloudy            | Middle         | 3     | 16.49             | 16.49 | 16.49   | 8.10  | 8.10    | 8.10     | 30.62   | 30.62         | 30.62   | 79.1  | 75.6    | 76.1      | 6.31    | 5.64             | 6.03    | 4.13 | 4.88 | 4.29 | 7  | 7.5  |
|            | 21:32 |                   | Middle         | 3     | 16.49             | 16.49 |         | 8.10  | 8.10    |          | 30.62   | 30.62         |         | 73.8  | 76.0    |           | 5.99    | 6.17             |         | 4.04 | 4.11 |      | 8  |      |
| 09/03/2011 | 07:30 | Cloudy            | Middle         | 2     | 15.39             | 15.39 | 15.38   | 8.25  | 8.25    | 8.25     | 30.82   | 30.82         | 30.82   | 82.7  | 80.6    | 85.2      | 6.85    | 6.68             | 7.06    | 4.27 | 4.57 | 4.24 | 7  | 6.0  |
|            | 07:33 |                   | Middle         | 2     | 15.37             | 15.37 |         | 8.25  | 8.25    |          | 30.82   | 30.82         |         | 88.8  | 88.6    |           | 7.36    | 7.34             |         | 3.96 | 4.14 |      | 5  |      |
| 11/03/2011 | 08:32 | Cloudy            | Middle         | 2     | 16.40             | 16.40 | 16.45   | 7.72  | 7.72    | 7.72     | 31.79   | 31.79         | 31.79   | 83.1  | 83.2    | 82.7      | 6.70    | 6.70             | 6.67    | 4.04 | 3.99 | 3.90 | 10 | 10.5 |
|            | 08:39 |                   | Middle         | 2     | 16.50             | 16.50 |         | 7.72  | 7.72    |          | 31.79   | 31.79         |         | 83.2  | 81.4    |           | 6.70    | 6.56             |         | 4.00 | 3.58 |      | 11 |      |
| 13/03/2011 | 11:35 | Sunny             | Middle         | 2     | 19.00             | 19.00 | 19.00   | 7.63  | 7.63    | 7.63     | 31.75   | 31.75         | 31.75   | 73.4  | 74.1    | 73.1      | 5.04    | 5.69             | 5.44    | 2.96 | 3.15 | 3.30 | 10 | 9.0  |
|            | 11:40 |                   | Middle         | 2     | 19.00             | 19.00 |         | 7.63  | 7.63    |          | 31.75   | 31.75         |         | 73.4  | 71.4    |           | 5.64    | 5.38             |         | 3.57 | 3.52 |      | 8  |      |
| 16/03/2011 | 17:00 | Fine              | Middle         | 2     | 17.70             | 17.70 | 17.70   | 7.95  | 7.95    | 7.95     | 32.72   | 32.72         | 32.72   | 84.6  | 84.1    | 84.3      | 6.63    | 6.59             | 6.61    | 4.82 | 4.91 | 4.86 | 8  | 7.5  |
|            | 17:04 |                   | Middle         | 2     | 17.70             | 17.70 |         | 7.95  | 7.95    |          | 32.72   | 32.72         |         | 84.5  | 83.9    |           | 6.63    | 6.58             |         | 4.74 | 4.98 |      | 7  |      |
| 18/03/2011 | 14:30 | Rainy             | Middle         | 2     | 17.30             | 17.30 | 17.30   | 7.94  | 7.94    | 7.94     | 32.72   | 32.72         | 32.72   | 83.1  | 82.8    | 82.7      | 6.64    | 6.62             | 6.61    | 6.20 | 6.12 | 6.26 | 12 | 12.5 |
|            | 14:34 |                   | Middle         | 2     | 17.30             | 17.30 |         | 7.94  | 7.94    |          | 32.72   | 32.72         |         | 82.8  | 82.2    |           | 6.61    | 6.56             |         | 6.43 | 6.30 |      | 13 |      |
| 21/03/2011 | 21:23 | Cloudy            | Middle         | 2     | 20.50             | 20.50 | 20.50   | 7.83  | 7.83    | 7.83     | 32.52   | 32.52         | 32.52   | 76.7  | 74.5    | 77.0      | 5.63    | 5.47             | 5.65    | 5.09 | 5.13 | 5.24 | 19 | 15.0 |
|            | 21:25 |                   | Middle         | 2     | 20.50             | 20.50 |         | 7.83  | 7.83    |          | 32.52   | 32.52         |         | 77.4  | 79.3    |           | 5.68    | 5.82             |         | 5.40 | 5.34 |      | 11 |      |
| 23/03/2011 | 08:21 | Cloudy            | Middle         | 2     | 17.20             | 17.20 | 17.20   | 7.80  | 7.80    | 7.80     | 32.52   | 32.52         | 32.52   | 73.2  | 76.3    | 74.3      | 5.79    | 6.04             | 5.88    | 5.32 | 5.11 | 5.37 | 8  | 8.5  |
|            | 08:26 |                   | Middle         | 2     | 17.20             | 17.20 |         | 7.80  | 7.80    |          | 32.52   | 32.52         |         | 75.0  | 72.8    |           | 5.94    | 5.73             |         | 5.55 | 5.49 |      | 9  |      |
| 25/03/2011 | 08:30 | Cloudy            | Middle         | 2     | 17.40             | 17.40 | 17.40   | 7.79  | 7.79    | 7.79     | 32.66   | 32.66         | 32.66   | 69.6  | 71.3    | 71.7      | 5.48    | 5.84             | 5.70    | 4.78 | 4.48 | 4.67 | 7  | 8.0  |
|            | 08:34 |                   | Middle         | 2     | 17.40             | 17.40 |         | 7.79  | 7.79    |          | 32.66   | 32.66         |         | 73.1  | 72.7    |           | 5.76    | 5.73             |         | 4.71 | 4.72 |      | 9  |      |
| 29/03/2011 | 14:40 | Cloudy            | Middle         | 2     | 18.10             | 18.10 | 18.10   | 7.80  | 7.80    | 7.81     | 32.90   | 32.90         | 32.90   | 77.2  | 76.4    | 77.0      | 5.98    | 5.93             | 5.97    | 6.16 | 6.34 | 6.02 | 11 | 10.5 |
|            | 14:43 |                   | Middle         | 2     | 18.10             | 18.10 |         | 7.81  | 7.81    |          | 32.90   | 32.90         |         | 77.4  | 76.8    |           | 6.00    | 5.96             |         | 5.72 | 5.86 |      | 10 |      |
| 31/03/2011 | 14:27 | Cloudy            | Middle         | 2     | 18.60             | 18.60 | 18.65   | 7.98  | 7.98    | 7.97     | 33.17   | 33.17         | 33.19   | 87.1  | 86.8    | 86.6      | 6.67    | 6.64             | 6.62    | 5.64 | 5.66 | 5.64 | 10 | 11.0 |
|            | 14:30 |                   | Middle         | 2     | 18.70             | 18.70 |         | 7.95  | 7.95    |          | 33.20   | 33.20         |         | 85.9  | 86.4    |           | 6.57    | 6.60             |         | 5.73 | 5.51 |      | 12 |      |



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

| Date       | Time  | Weather Condition | Sampling Depth |   | Water Temperature |         | pH    |         |       | Salinity |       | DO Saturation |       | DO      |       | Turbidity |       | Suspended Solids |      |      |      |      |      |     |
|------------|-------|-------------------|----------------|---|-------------------|---------|-------|---------|-------|----------|-------|---------------|-------|---------|-------|-----------|-------|------------------|------|------|------|------|------|-----|
|            |       |                   | m              |   | °C                |         | -     |         |       | ppt      |       | %             |       | mg/L    |       | NTU       |       | mg/L             |      |      |      |      |      |     |
|            |       |                   |                |   | Value             | Average | Value | Average | Value | Average  | Value | Average       | Value | Average | Value | Average   | Value | Average          |      |      |      |      |      |     |
| 02/03/2011 | 22:01 | Cloudy            | Middle         | 2 | 16.09             | 16.09   | 16.04 | 8.33    | 8.33  | 8.33     | 30.70 | 30.70         | 30.78 | 94.9    | 95.2  | 92.2      | 7.66  | 7.79             | 7.51 | 1.97 | 1.59 | 1.73 | 5    | 4.5 |
|            | 22:04 |                   | Middle         | 2 | 15.98             | 15.98   |       | 8.32    | 8.32  | 8.32     | 30.85 | 30.85         |       | 89.8    | 88.7  |           | 7.35  | 7.25             |      | 7.51 | 1.90 |      | 1.45 |     |
| 04/03/2011 | 11:30 | Cloudy            | Middle         | 3 | 16.40             | 16.40   | 16.45 | 8.22    | 8.22  | 8.22     | 31.74 | 31.74         | 31.74 | 96.6    | 95.7  | 96.3      | 7.82  | 7.75             | 7.80 | 2.11 | 2.03 | 2.09 | 4    | 3.5 |
|            | 11:34 |                   | Middle         | 3 | 16.50             | 16.50   |       | 8.22    | 8.22  | 8.22     | 31.74 | 31.74         |       | 96.9    | 96.0  |           | 7.85  | 7.77             |      | 7.80 | 2.07 |      | 2.14 |     |
| 07/03/2011 | 12:10 | Fine              | Middle         | 3 | 17.70             | 17.70   | 17.68 | 8.11    | 8.11  | 8.11     | 31.88 | 31.88         | 31.87 | 98.1    | 97.4  | 97.7      | 7.60  | 7.45             | 7.52 | 2.12 | 2.08 | 2.15 | 3    | 3.5 |
|            | 12:15 |                   | Middle         | 3 | 17.60             | 17.70   |       | 8.11    | 8.11  | 8.11     | 31.85 | 31.85         |       | 97.9    | 97.3  |           | 7.59  | 7.44             |      | 7.52 | 2.33 |      | 2.05 |     |
| 09/03/2011 | 13:42 | Cloudy            | Middle         | 3 | 16.10             | 16.10   | 16.15 | 8.07    | 8.07  | 8.07     | 32.25 | 32.25         | 32.25 | 97.7    | 97.1  | 97.4      | 7.92  | 7.86             | 7.89 | 2.13 | 2.32 | 2.25 | 3    | 4.0 |
|            | 13:47 |                   | Middle         | 3 | 16.20             | 16.20   |       | 8.06    | 8.06  | 8.06     | 32.25 | 32.25         |       | 97.6    | 97.0  |           | 7.92  | 7.85             |      | 7.89 | 2.24 |      | 2.29 |     |
| 11/03/2011 | 14:50 | Cloudy            | Middle         | 3 | 17.00             | 17.00   | 16.95 | 7.92    | 7.92  | 7.92     | 32.11 | 32.11         | 32.11 | 91.0    | 90.5  | 91.0      | 7.25  | 7.20             | 7.25 | 1.89 | 1.88 | 1.91 | 6    | 5.0 |
|            | 14:52 |                   | Middle         | 3 | 16.90             | 16.90   |       | 7.92    | 7.92  | 7.92     | 32.10 | 32.10         |       | 91.1    | 91.4  |           | 7.25  | 7.28             |      | 7.25 | 1.93 |      | 1.95 |     |
| 13/03/2011 | 19:51 | Sunny             | Middle         | 2 | 20.00             | 20.00   | 20.00 | 7.80    | 7.80  | 7.80     | 32.08 | 32.08         | 32.08 | 83.0    | 87.7  | 84.8      | 6.14  | 6.46             | 6.24 | 1.38 | 1.23 | 1.30 | 6    | 6.0 |
|            | 19:53 |                   | Middle         | 2 | 20.00             | 20.00   |       | 7.80    | 7.80  | 7.80     | 32.08 | 32.08         |       | 86.2    | 82.3  |           | 6.32  | 6.03             |      | 6.24 | 1.26 |      | 1.31 |     |
| 16/03/2011 | 21:03 | Cloudy            | Middle         | 2 | 18.00             | 18.00   | 18.05 | 7.88    | 7.88  | 7.88     | 32.24 | 32.24         | 32.23 | 83.0    | 89.2  | 85.4      | 6.47  | 7.02             | 6.65 | 1.78 | 1.96 | 1.74 | 4    | 4.0 |
|            | 21:06 |                   | Middle         | 2 | 18.10             | 18.10   |       | 7.88    | 7.88  | 7.88     | 32.22 | 32.22         |       | 86.2    | 83.2  |           | 6.63  | 6.48             |      | 6.65 | 1.53 |      | 1.68 |     |
| 18/03/2011 | 08:59 | Cloudy            | Middle         | 3 | 17.30             | 17.30   | 17.25 | 7.90    | 7.90  | 7.90     | 33.01 | 33.01         | 33.01 | 90.1    | 89.5  | 89.7      | 7.15  | 7.09             | 7.11 | 3.22 | 3.14 | 3.26 | 4    | 4.0 |
|            | 09:00 |                   | Middle         | 3 | 17.20             | 17.20   |       | 7.90    | 7.90  | 7.90     | 33.01 | 33.01         |       | 89.8    | 89.4  |           | 7.13  | 7.08             |      | 7.11 | 3.40 |      | 3.27 |     |
| 21/03/2011 | 14:00 | Fine              | Middle         | 3 | 20.00             | 20.00   | 20.15 | 7.79    | 7.79  | 7.79     | 32.63 | 32.63         | 32.60 | 85.2    | 84.3  | 84.9      | 6.34  | 6.29             | 6.33 | 2.09 | 2.11 | 2.09 | 5    | 4.5 |
|            | 14:05 |                   | Middle         | 3 | 20.30             | 20.30   |       | 7.79    | 7.79  | 7.79     | 32.57 | 32.57         |       | 85.6    | 84.5  |           | 6.37  | 6.31             |      | 6.33 | 2.06 |      | 2.09 |     |
| 23/03/2011 | 17:20 | Cloudy            | Middle         | 2 | 17.80             | 17.80   | 17.80 | 7.90    | 7.90  | 7.89     | 32.75 | 32.75         | 32.76 | 79.8    | 80.1  | 80.5      | 6.22  | 6.25             | 6.27 | 3.74 | 3.65 | 3.70 | 5    | 4.5 |
|            | 17:23 |                   | Middle         | 2 | 17.80             | 17.80   |       | 7.88    | 7.88  | 7.89     | 32.77 | 32.77         |       | 81.1    | 80.8  |           | 6.32  | 6.29             |      | 6.27 | 3.81 |      | 3.61 |     |
| 25/03/2011 | 15:48 | Cloudy            | Middle         | 3 | 18.40             | 18.40   | 18.35 | 7.94    | 7.94  | 7.94     | 33.03 | 33.03         | 33.03 | 86.6    | 85.7  | 86.3      | 6.67  | 6.60             | 6.64 | 2.22 | 2.31 | 2.27 | 2    | 2.0 |
|            | 15:53 |                   | Middle         | 3 | 18.30             | 18.30   |       | 7.94    | 7.94  | 7.94     | 33.03 | 33.03         |       | 87.0    | 85.8  |           | 6.69  | 6.61             |      | 6.64 | 2.27 |      | 2.26 |     |
| 29/03/2011 | 20:37 | Cloudy            | Middle         | 3 | 18.02             | 18.02   | 18.02 | 8.00    | 8.00  | 8.00     | 32.30 | 32.30         | 32.30 | 87.7    | 84.5  | 83.6      | 6.84  | 6.59             | 6.53 | 2.41 | 2.84 | 2.73 | 3    | 4.0 |
|            | 20:39 |                   | Middle         | 3 | 18.02             | 18.02   |       | 8.00    | 8.00  | 8.00     | 32.30 | 32.30         |       | 81.1    | 81.2  |           | 6.33  | 6.34             |      | 6.53 | 2.62 |      | 3.06 |     |
| 31/03/2011 | 09:05 | Cloudy            | Middle         | 2 | 17.50             | 17.50   | 17.45 | 7.93    | 7.93  | 7.93     | 33.21 | 33.21         | 32.71 | 86.1    | 85.4  | 85.7      | 6.77  | 6.70             | 6.73 | 2.62 | 2.84 | 2.62 | 4    | 4.0 |
|            | 09:08 |                   | Middle         | 2 | 17.40             | 17.40   |       | 7.93    | 7.93  | 7.93     | 32.20 | 32.20         |       | 85.9    | 85.2  |           | 6.76  | 6.67             |      | 6.73 | 2.57 |      | 2.46 |     |



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

| Date       | Time  | Weather Condition | Sampling Depth |   | Water Temperature |         |       | pH      |       |         | Salinity |         | DO Saturation |         | DO    |         | Turbidity |         | Suspended Solids |      |      |      |   |     |
|------------|-------|-------------------|----------------|---|-------------------|---------|-------|---------|-------|---------|----------|---------|---------------|---------|-------|---------|-----------|---------|------------------|------|------|------|---|-----|
|            |       |                   | m              |   | °C                |         | -     |         | ppt   |         | %        |         | mg/L          |         | NTU   |         | mg/L      |         |                  |      |      |      |   |     |
|            |       |                   |                |   | Value             | Average | Value | Average | Value | Average | Value    | Average | Value         | Average | Value | Average | Value     | Average |                  |      |      |      |   |     |
| 02/03/2011 | 01:08 | Cloudy            | Middle         | 2 | 16.00             | 16.00   | 15.97 | 8.35    | 8.35  | 8.35    | 31.01    | 30.01   | 30.76         | 89.9    | 89.9  | 87.9    | 7.36      | 7.37    | 7.20             | 2.00 | 1.48 | 1.59 | 6 | 5.5 |
|            | 01:12 |                   | Middle         | 2 | 15.93             | 15.93   |       | 8.34    | 8.34  |         | 31.01    | 31.01   |               | 83.4    | 88.4  |         | 6.84      | 7.24    |                  | 1.45 | 1.44 |      | 5 |     |
| 04/03/2011 | 12:05 | Cloudy            | Middle         | 3 | 16.30             | 16.30   | 16.25 | 8.13    | 8.13  | 8.13    | 31.68    | 31.68   | 31.68         | 98.0    | 97.4  | 97.6    | 7.91      | 7.87    | 7.88             | 3.12 | 3.26 | 3.13 | 4 | 3.5 |
|            | 12:08 |                   | Middle         | 3 | 16.20             | 16.20   |       | 8.13    | 8.13  |         | 31.68    | 31.68   |               | 97.7    | 97.2  |         | 7.89      | 7.85    |                  | 3.04 | 3.10 |      | 3 |     |
| 07/03/2011 | 11:30 | Fine              | Middle         | 3 | 17.60             | 17.60   | 17.70 | 8.03    | 8.03  | 8.04    | 31.74    | 31.74   | 31.74         | 95.6    | 95.0  | 95.4    | 7.57      | 7.53    | 7.56             | 3.84 | 3.62 | 3.79 | 7 | 7.0 |
|            | 11:34 |                   | Middle         | 3 | 17.80             | 17.80   |       | 8.04    | 8.04  |         | 31.74    | 31.74   |               | 95.9    | 95.1  |         | 7.60      | 7.54    |                  | 3.81 | 3.88 |      | 7 |     |
| 09/03/2011 | 13:20 | Cloudy            | Middle         | 3 | 16.50             | 16.50   | 16.50 | 7.97    | 7.97  | 7.97    | 32.24    | 32.24   | 32.25         | 91.3    | 90.7  | 90.9    | 7.34      | 7.29    | 7.31             | 2.81 | 2.54 | 2.66 | 3 | 3.5 |
|            | 13:24 |                   | Middle         | 3 | 16.50             | 16.50   |       | 7.97    | 7.97  |         | 32.25    | 32.25   |               | 91.0    | 90.4  |         | 7.32      | 7.27    |                  | 2.66 | 2.62 |      | 4 |     |
| 11/03/2011 | 15:22 | Cloudy            | Middle         | 3 | 16.90             | 16.90   | 16.80 | 7.91    | 7.91  | 7.91    | 32.36    | 32.36   | 32.36         | 93.5    | 94.0  | 93.9    | 7.47      | 7.51    | 7.50             | 2.83 | 2.81 | 2.89 | 6 | 5.0 |
|            | 15:25 |                   | Middle         | 3 | 16.70             | 16.70   |       | 7.91    | 7.91  |         | 32.36    | 32.36   |               | 93.9    | 94.2  |         | 7.50      | 7.52    |                  | 3.01 | 2.92 |      | 4 |     |
| 13/03/2011 | 20:16 | Sunny             | Middle         | 2 | 20.20             | 20.20   | 20.20 | 7.86    | 7.86  | 7.86    | 32.18    | 32.18   | 32.18         | 91.1    | 84.4  | 87.9    | 6.60      | 5.98    | 6.26             | 1.67 | 1.87 | 1.90 | 6 | 5.5 |
|            | 20:18 |                   | Middle         | 2 | 20.20             | 20.20   |       | 7.86    | 7.86  |         | 32.18    | 32.18   |               | 88.9    | 87.2  |         | 6.29      | 6.18    |                  | 2.16 | 1.89 |      | 5 |     |
| 16/03/2011 | 20:32 | Cloudy            | Middle         | 2 | 17.30             | 17.30   | 17.30 | 7.99    | 7.99  | 7.99    | 33.20    | 33.20   | 33.20         | 87.8    | 91.0  | 88.3    | 6.91      | 7.16    | 6.89             | 2.44 | 2.44 | 2.26 | 6 | 7.0 |
|            | 20:36 |                   | Middle         | 2 | 17.30             | 17.30   |       | 7.99    | 7.99  |         | 33.20    | 33.20   |               | 88.7    | 85.6  |         | 6.84      | 6.66    |                  | 2.11 | 2.05 |      | 8 |     |
| 18/03/2011 | 09:14 | Cloudy            | Middle         | 3 | 17.30             | 17.30   | 17.20 | 7.95    | 7.95  | 7.94    | 32.98    | 32.98   | 32.98         | 92.0    | 91.5  | 91.7    | 7.28      | 7.25    | 7.26             | 2.06 | 2.23 | 2.23 | 2 | 3.0 |
|            | 09:18 |                   | Middle         | 3 | 17.10             | 17.10   |       | 7.92    | 7.92  |         | 32.98    | 32.98   |               | 91.9    | 91.2  |         | 7.28      | 7.23    |                  | 2.30 | 2.34 |      | 4 |     |
| 21/03/2011 | 14:37 | Fine              | Middle         | 2 | 19.90             | 19.90   | 20.15 | 7.92    | 7.92  | 7.92    | 33.06    | 33.06   | 33.04         | 88.4    | 87.7  | 88.2    | 6.60      | 6.55    | 6.59             | 3.07 | 2.98 | 3.08 | 5 | 5.0 |
|            | 14:41 |                   | Middle         | 2 | 20.40             | 20.40   |       | 7.92    | 7.92  |         | 33.02    | 33.02   |               | 88.8    | 88.0  |         | 6.63      | 6.59    |                  | 3.12 | 3.16 |      | 5 |     |
| 23/03/2011 | 17:40 | Cloudy            | Middle         | 2 | 17.70             | 17.70   | 17.65 | 7.98    | 7.98  | 7.97    | 32.86    | 32.86   | 32.87         | 83.1    | 82.9  | 82.9    | 6.48      | 6.46    | 6.47             | 4.16 | 4.20 | 4.14 | 5 | 5.0 |
|            | 17:43 |                   | Middle         | 2 | 17.60             | 17.60   |       | 7.96    | 7.96  |         | 32.88    | 32.87   |               | 82.5    | 83.2  |         | 6.43      | 6.49    |                  | 4.11 | 4.07 |      | 5 |     |
| 25/03/2011 | 16:30 | Cloudy            | Middle         | 3 | 18.20             | 18.20   | 18.20 | 8.00    | 8.00  | 8.00    | 33.12    | 33.12   | 32.87         | 90.4    | 89.5  | 90.0    | 7.02      | 6.94    | 6.98             | 2.58 | 2.71 | 2.57 | 5 | 5.0 |
|            | 16:34 |                   | Middle         | 3 | 18.20             | 18.20   |       | 8.00    | 8.00  |         | 32.11    | 33.11   |               | 90.6    | 89.3  |         | 7.03      | 6.92    |                  | 2.44 | 2.53 |      | 5 |     |
| 29/03/2011 | 20:01 | Cloudy            | Middle         | 3 | 18.04             | 18.04   | 18.04 | 8.10    | 8.10  | 8.10    | 31.87    | 31.87   | 31.87         | 82.0    | 84.5  | 84.9    | 6.41      | 6.61    | 6.61             | 3.47 | 3.32 | 3.41 | 6 | 5.5 |
|            | 20:03 |                   | Middle         | 3 | 18.04             | 18.04   |       | 8.10    | 8.10  |         | 31.87    | 31.87   |               | 87.5    | 85.6  |         | 6.84      | 6.59    |                  | 3.40 | 3.44 |      | 5 |     |
| 31/03/2011 | 09:42 | Cloudy            | Middle         | 3 | 17.30             | 17.30   | 17.40 | 8.00    | 8.00  | 8.00    | 33.35    | 33.35   | 33.35         | 88.2    | 87.4  | 87.9    | 6.96      | 6.91    | 6.95             | 2.72 | 2.54 | 2.68 | 3 | 4.0 |
|            | 09:44 |                   | Middle         | 3 | 17.50             | 17.50   |       | 8.00    | 8.00  |         | 33.35    | 33.35   |               | 88.4    | 87.5  |         | 6.98      | 6.93    |                  | 2.77 | 2.69 |      | 5 |     |



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

| Date       | Time  | Weather Condition | Sampling Depth |   | Water Temperature |         |       | pH      |       |         | Salinity |         |       | DO Saturation |       |         | DO    |         |       | Turbidity |      |      | Suspended Solids |     |
|------------|-------|-------------------|----------------|---|-------------------|---------|-------|---------|-------|---------|----------|---------|-------|---------------|-------|---------|-------|---------|-------|-----------|------|------|------------------|-----|
|            |       |                   | m              |   | °C                |         | -     |         | ppt   |         | %        |         | mg/L  |               | NTU   |         | mg/L  |         |       |           |      |      |                  |     |
|            |       |                   |                |   | Value             | Average | Value | Average | Value | Average | Value    | Average | Value | Average       | Value | Average | Value | Average | Value | Average   |      |      |                  |     |
| 02/03/2011 | 23:57 | Cloudy            | Middle         | 3 | 16.34             | 16.34   | 16.31 | 8.41    | 8.41  | 8.40    | 30.84    | 30.84   | 30.87 | 87.4          | 82.2  | 86.9    | 7.01  | 6.69    | 7.04  | 1.75      | 1.71 | 1.76 | 6                | 6.5 |
|            | 00:04 |                   | Middle         | 3 | 16.28             | 16.28   |       | 8.38    | 8.38  |         | 30.89    | 30.89   |       | 89.2          | 88.6  |         | 7.25  | 7.21    |       | 1.74      | 1.82 |      | 7                |     |
| 04/03/2011 | 12:28 | Cloudy            | Middle         | 3 | 16.60             | 16.60   | 16.70 | 8.29    | 8.29  | 8.29    | 31.90    | 31.90   | 31.90 | 97.4          | 97.2  | 97.2    | 7.70  | 7.69    | 7.69  | 2.63      | 2.41 | 2.51 | 9                | 9.5 |
|            | 12:30 |                   | Middle         | 3 | 16.80             | 16.80   |       | 8.29    | 8.29  |         | 31.90    | 31.90   |       | 97.5          | 96.8  |         | 7.71  | 7.66    |       | 2.47      | 2.54 |      | 10               |     |
| 07/03/2011 | 16:10 | Fine              | Middle         | 3 | 17.40             | 17.40   | 17.35 | 8.03    | 8.03  | 8.03    | 31.72    | 31.72   | 31.72 | 88.0          | 87.3  | 87.9    | 6.92  | 6.86    | 6.91  | 1.93      | 1.86 | 1.84 | 5                | 5.0 |
|            | 16:13 |                   | Middle         | 3 | 17.30             | 17.30   |       | 8.02    | 8.02  |         | 31.72    | 31.72   |       | 88.5          | 87.9  |         | 6.95  | 6.90    |       | 1.74      | 1.81 |      | 5                |     |
| 09/03/2011 | 12:20 | Cloudy            | Middle         | 3 | 16.30             | 16.30   | 16.35 | 7.77    | 7.77  | 7.77    | 32.21    | 32.21   | 32.21 | 94.4          | 93.4  | 94.1    | 7.65  | 7.57    | 7.63  | 6.46      | 6.28 | 6.48 | 5                | 5.5 |
|            | 12:24 |                   | Middle         | 3 | 16.40             | 16.40   |       | 7.77    | 7.77  |         | 32.20    | 32.20   |       | 94.6          | 93.9  |         | 7.67  | 7.62    |       | 6.64      | 6.53 |      | 6                |     |
| 11/03/2011 | 15:50 | Cloudy            | Middle         | 3 | 17.00             | 17.00   | 17.00 | 7.94    | 7.95  | 7.94    | 32.28    | 32.28   | 32.28 | 90.8          | 90.5  | 90.1    | 7.23  | 7.20    | 7.17  | 3.81      | 3.24 | 3.60 | 8                | 7.5 |
|            | 15:53 |                   | Middle         | 3 | 17.00             | 17.00   |       | 7.94    | 7.94  |         | 32.28    | 32.28   |       | 88.9          | 90.1  |         | 7.09  | 7.17    |       | 3.65      | 3.71 |      | 7                |     |
| 13/03/2011 | 19:03 | Sunny             | Middle         | 3 | 19.70             | 19.70   | 19.70 | 7.81    | 7.81  | 7.81    | 32.21    | 32.21   | 32.21 | 92.1          | 92.0  | 91.9    | 7.32  | 7.35    | 7.24  | 1.60      | 1.89 | 1.86 | 4                | 5.0 |
|            | 19:06 |                   | Middle         | 3 | 19.70             | 19.70   |       | 7.81    | 7.81  |         | 32.21    | 32.21   |       | 91.2          | 92.3  |         | 7.26  | 7.03    |       | 2.12      | 1.84 |      | 6                |     |
| 16/03/2011 | 22:45 | Cloudy            | Middle         | 3 | 17.20             | 17.20   | 17.20 | 7.92    | 7.92  | 7.92    | 32.99    | 32.99   | 32.96 | 86.3          | 87.2  | 85.9    | 6.82  | 6.88    | 6.77  | 2.96      | 2.15 | 2.67 | 6                | 7.0 |
|            | 22:50 |                   | Middle         | 3 | 17.20             | 17.20   |       | 7.92    | 7.92  |         | 32.93    | 32.93   |       | 86.5          | 83.4  |         | 6.82  | 6.54    |       | 2.83      | 2.73 |      | 8                |     |
| 18/03/2011 | 09:44 | Cloudy            | Middle         | 3 | 17.20             | 17.20   | 17.10 | 8.01    | 8.01  | 8.01    | 33.08    | 33.08   | 33.08 | 94.0          | 93.2  | 93.6    | 7.40  | 7.33    | 7.37  | 3.64      | 3.57 | 3.53 | 7                | 6.5 |
|            | 09:47 |                   | Middle         | 3 | 17.00             | 17.00   |       | 8.01    | 8.01  |         | 33.07    | 33.07   |       | 93.7          | 93.5  |         | 7.38  | 7.36    |       | 3.44      | 3.45 |      | 6                |     |
| 21/03/2011 | 15:06 | Fine              | Middle         | 3 | 19.30             | 19.30   | 19.45 | 7.78    | 7.78  | 7.78    | 32.69    | 32.69   | 32.69 | 68.4          | 67.9  | 68.0    | 5.15  | 5.06    | 5.09  | 4.94      | 5.12 | 4.91 | 7                | 6.5 |
|            | 15:10 |                   | Middle         | 3 | 19.60             | 19.60   |       | 7.78    | 7.78  |         | 32.69    | 32.69   |       | 68.1          | 67.4  |         | 5.13  | 5.02    |       | 4.87      | 4.69 |      | 6                |     |
| 23/03/2011 | 13:51 | Cloudy            | Middle         | 3 | 18.10             | 18.10   | 18.10 | 7.94    | 7.94  | 7.95    | 32.98    | 32.98   | 32.97 | 82.6          | 81.7  | 82.0    | 6.39  | 6.29    | 6.32  | 3.51      | 3.44 | 3.58 | 7                | 8.0 |
|            | 13:54 |                   | Middle         | 3 | 18.10             | 18.10   |       | 7.95    | 7.95  |         | 32.96    | 32.96   |       | 82.7          | 81.0  |         | 6.39  | 6.22    |       | 3.65      | 3.71 |      | 9                |     |
| 25/03/2011 | 16:50 | Cloudy            | Middle         | 3 | 18.30             | 18.30   | 18.25 | 7.88    | 7.88  | 7.88    | 33.09    | 33.09   | 33.09 | 79.5          | 78.8  | 79.0    | 6.14  | 6.07    | 6.10  | 3.55      | 3.58 | 3.57 | 4                | 4.0 |
|            | 16:53 |                   | Middle         | 3 | 18.20             | 18.20   |       | 7.88    | 7.88  |         | 33.09    | 33.09   |       | 79.3          | 78.5  |         | 6.13  | 6.05    |       | 3.51      | 3.64 |      | 4                |     |
| 29/03/2011 | 21:40 | Cloudy            | Middle         | 3 | 18.07             | 18.07   | 18.07 | 8.10    | 8.10  | 8.10    | 31.86    | 31.86   | 31.88 | 86.1          | 89.5  | 87.8    | 6.73  | 7.00    | 6.87  | 3.02      | 3.14 | 3.11 | 4                | 4.5 |
|            | 21:46 |                   | Middle         | 3 | 18.07             | 18.07   |       | 8.10    | 8.10  |         | 31.89    | 31.89   |       | 86.8          | 88.9  |         | 6.79  | 6.95    |       | 3.21      | 3.08 |      | 5                |     |
| 31/03/2011 | 10:02 | Cloudy            | Middle         | 3 | 17.50             | 17.50   | 17.50 | 7.98    | 7.98  | 7.98    | 33.40    | 33.40   | 33.41 | 85.2          | 86.1  | 85.7    | 6.66  | 6.75    | 6.69  | 4.12      | 4.28 | 4.34 | 6                | 5.0 |
|            | 10:05 |                   | Middle         | 3 | 17.50             | 17.50   |       | 7.97    | 7.97  |         | 33.42    | 33.42   |       | 85.8          | 85.5  |         | 6.69  | 6.67    |       | 4.31      | 4.64 |      | 4                |     |



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

| Date       | Time  | Weather Condition | Sampling Depth |   | Water Temperature |         | pH    |         |       | Salinity |       | DO Saturation |       | DO      |       | Turbidity |       | Suspended Solids |      |      |      |      |    |      |
|------------|-------|-------------------|----------------|---|-------------------|---------|-------|---------|-------|----------|-------|---------------|-------|---------|-------|-----------|-------|------------------|------|------|------|------|----|------|
|            |       |                   | m              |   | °C                |         | -     |         |       | ppt      |       | %             |       | mg/L    |       | NTU       |       | mg/L             |      |      |      |      |    |      |
|            |       |                   |                |   | Value             | Average | Value | Average | Value | Average  | Value | Average       | Value | Average | Value | Average   | Value | Average          |      |      |      |      |    |      |
| 02/03/2011 | 23:38 | Cloudy            | Middle         | 3 | 15.83             | 15.83   | 15.83 | 8.31    | 8.31  | 8.31     | 30.75 | 30.75         | 30.75 | 82.5    | 85.5  | 83.8      | 6.78  | 7.03             | 6.89 | 2.64 | 2.39 | 2.69 | 6  | 5.5  |
|            | 23:43 |                   | Middle         | 3 | 15.83             | 15.83   |       | 8.31    | 8.31  |          | 30.75 | 30.75         |       | 85.3    | 82.0  |           | 7.01  | 6.74             |      | 2.95 | 2.78 |      | 5  |      |
| 04/03/2011 | 12:50 | Cloudy            | Middle         | 3 | 16.20             | 16.20   | 16.25 | 8.08    | 8.08  | 8.09     | 31.22 | 31.22         | 31.22 | 90.3    | 89.3  | 89.9      | 7.30  | 7.22             | 7.28 | 4.44 | 4.17 | 4.27 | 10 | 9.0  |
|            | 12:53 |                   | Middle         | 3 | 16.30             | 16.30   |       | 8.10    | 8.10  |          | 31.22 | 31.22         |       | 90.6    | 89.5  |           | 7.33  | 7.25             |      | 4.12 | 4.35 |      | 8  |      |
| 07/03/2011 | 16:32 | Fine              | Middle         | 3 | 17.00             | 17.00   | 17.05 | 8.05    | 8.05  | 8.05     | 31.46 | 31.46         | 31.46 | 87.5    | 88.1  | 88.1      | 6.93  | 7.01             | 7.00 | 2.82 | 2.74 | 2.84 | 10 | 11.0 |
|            | 16:37 |                   | Middle         | 3 | 17.10             | 17.10   |       | 8.04    | 8.04  |          | 31.46 | 31.45         |       | 88.6    | 88.2  |           | 7.03  | 7.02             |      | 2.88 | 2.90 |      | 12 |      |
| 09/03/2011 | 12:42 | Cloudy            | Middle         | 3 | 16.30             | 16.30   | 16.30 | 8.00    | 8.00  | 8.00     | 32.30 | 32.30         | 32.31 | 91.0    | 90.1  | 90.7      | 7.29  | 7.22             | 7.27 | 3.94 | 3.67 | 3.89 | 6  | 6.0  |
|            | 12:46 |                   | Middle         | 3 | 16.30             | 16.30   |       | 7.99    | 7.99  |          | 32.31 | 32.31         |       | 91.1    | 90.4  |           | 7.30  | 7.25             |      | 4.02 | 3.91 |      | 6  |      |
| 11/03/2011 | 12:51 | Cloudy            | Middle         | 3 | 16.80             | 16.80   | 16.80 | 7.92    | 7.92  | 7.93     | 32.46 | 32.46         | 32.46 | 90.0    | 89.3  | 89.3      | 7.20  | 7.12             | 7.13 | 5.65 | 5.32 | 5.46 | 8  | 8.0  |
|            | 12:54 |                   | Middle         | 3 | 16.80             | 16.80   |       | 7.93    | 7.93  |          | 32.46 | 32.46         |       | 89.2    | 88.8  |           | 7.11  | 7.10             |      | 5.41 | 5.44 |      | 8  |      |
| 13/03/2011 | 18:41 | Sunny             | Middle         | 3 | 20.40             | 20.40   | 20.40 | 7.80    | 7.80  | 7.80     | 32.09 | 32.09         | 32.09 | 86.3    | 87.1  | 87.1      | 6.20  | 6.27             | 6.22 | 1.80 | 1.97 | 1.87 | 5  | 5.0  |
|            | 18:43 |                   | Middle         | 3 | 20.40             | 20.40   |       | 7.80    | 7.80  |          | 32.09 | 32.09         |       | 90.7    | 84.3  |           | 6.38  | 6.02             |      | 1.85 | 1.84 |      | 5  |      |
| 16/03/2011 | 22:09 | Cloudy            | Middle         | 3 | 17.30             | 17.30   | 17.30 | 7.92    | 7.92  | 7.92     | 32.96 | 32.96         | 32.96 | 83.8    | 84.7  | 83.1      | 6.61  | 6.68             | 6.56 | 2.86 | 2.68 | 2.81 | 6  | 5.5  |
|            | 22:12 |                   | Middle         | 3 | 17.30             | 17.30   |       | 7.92    | 7.92  |          | 32.96 | 32.96         |       | 83.0    | 81.0  |           | 6.55  | 6.39             |      | 2.87 | 2.84 |      | 5  |      |
| 18/03/2011 | 10:08 | Cloudy            | Middle         | 3 | 17.30             | 17.30   | 17.20 | 7.99    | 7.99  | 8.00     | 33.16 | 33.16         | 33.18 | 91.1    | 90.4  | 90.7      | 7.20  | 7.15             | 7.17 | 3.84 | 3.64 | 3.70 | 6  | 6.5  |
|            | 10:12 |                   | Middle         | 3 | 17.10             | 17.10   |       | 8.00    | 8.00  |          | 33.19 | 33.19         |       | 90.9    | 90.2  |           | 7.19  | 7.13             |      | 3.53 | 3.77 |      | 7  |      |
| 21/03/2011 | 15:30 | Fine              | Middle         | 2 | 19.20             | 19.20   | 19.30 | 7.80    | 7.80  | 7.80     | 32.66 | 32.66         | 32.67 | 76.8    | 76.0  | 76.4      | 5.84  | 5.77             | 5.80 | 5.23 | 5.32 | 5.19 | 7  | 7.5  |
|            | 15:34 |                   | Middle         | 2 | 19.40             | 19.40   |       | 7.80    | 7.80  |          | 32.67 | 32.67         |       | 76.7    | 75.9  |           | 5.84  | 5.76             |      | 5.10 | 5.09 |      | 8  |      |
| 23/03/2011 | 14:25 | Cloudy            | Middle         | 2 | 18.00             | 18.00   | 18.03 | 7.96    | 7.96  | 7.96     | 32.87 | 32.87         | 32.86 | 79.4    | 80.2  | 80.1      | 6.14  | 6.22             | 6.21 | 6.68 | 6.91 | 6.61 | 9  | 8.5  |
|            | 14:29 |                   | Middle         | 2 | 18.10             | 18.00   |       | 7.96    | 7.96  |          | 32.85 | 32.85         |       | 80.5    | 80.1  |           | 6.25  | 6.21             |      | 6.63 | 6.51 |      | 8  |      |
| 25/03/2011 | 17:13 | Cloudy            | Middle         | 2 | 18.20             | 18.20   | 18.15 | 7.84    | 7.84  | 7.83     | 32.80 | 32.80         | 32.80 | 71.1    | 70.5  | 70.7      | 5.50  | 5.46             | 5.47 | 2.94 | 2.87 | 2.92 | 5  | 5.5  |
|            | 17:15 |                   | Middle         | 2 | 18.10             | 18.10   |       | 7.82    | 7.83  |          | 32.80 | 32.80         |       | 70.9    | 70.2  |           | 5.49  | 5.44             |      | 3.05 | 2.82 |      | 6  |      |
| 29/03/2011 | 21:10 | Cloudy            | Middle         | 3 | 18.03             | 18.03   | 18.03 | 8.10    | 8.10  | 8.10     | 32.29 | 32.29         | 32.32 | 84.8    | 84.9  | 85.8      | 6.62  | 6.63             | 6.70 | 4.94 | 4.98 | 4.64 | 5  | 5.0  |
|            | 21:14 |                   | Middle         | 3 | 18.03             | 18.03   |       | 8.10    | 8.10  |          | 32.34 | 32.34         |       | 85.5    | 88.0  |           | 6.68  | 6.87             |      | 4.29 | 4.35 |      | 5  |      |
| 31/03/2011 | 10:35 | Cloudy            | Middle         | 2 | 17.80             | 17.80   | 17.85 | 7.95    | 7.95  | 7.95     | 33.31 | 33.31         | 33.32 | 83.2    | 82.6  | 83.4      | 6.47  | 6.43             | 6.49 | 4.50 | 4.61 | 4.54 | 5  | 5.5  |
|            | 10:38 |                   | Middle         | 2 | 17.90             | 17.90   |       | 7.94    | 7.94  |          | 33.32 | 33.32         |       | 83.6    | 84.1  |           | 6.51  | 6.55             |      | 4.62 | 4.44 |      | 6  |      |





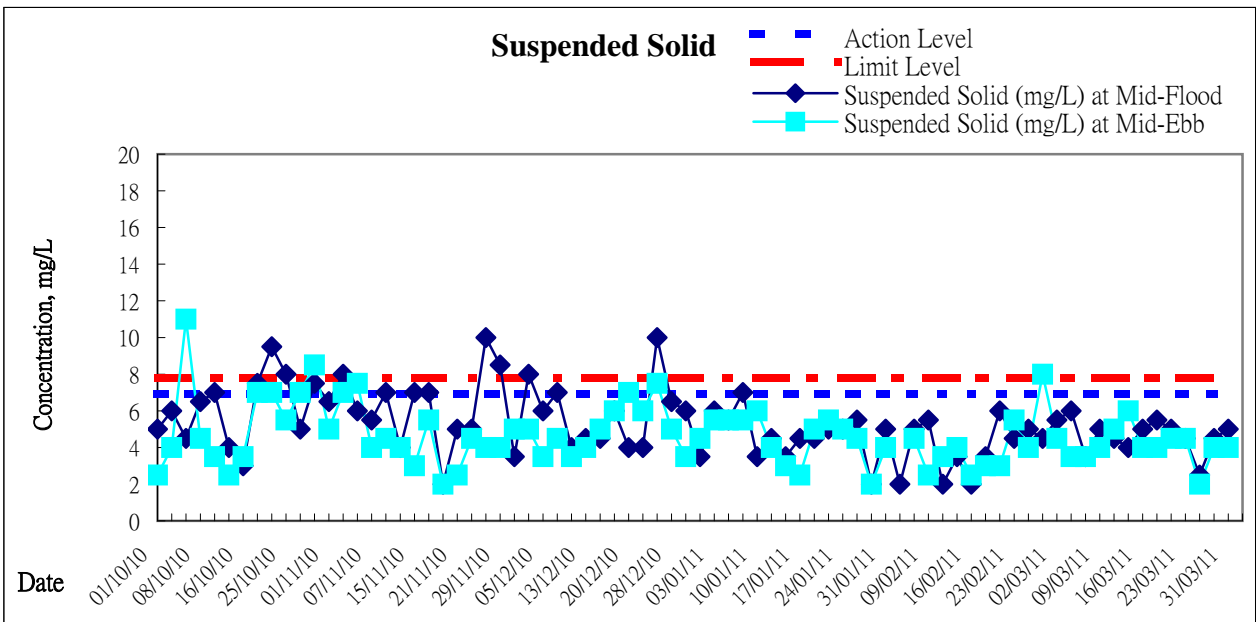
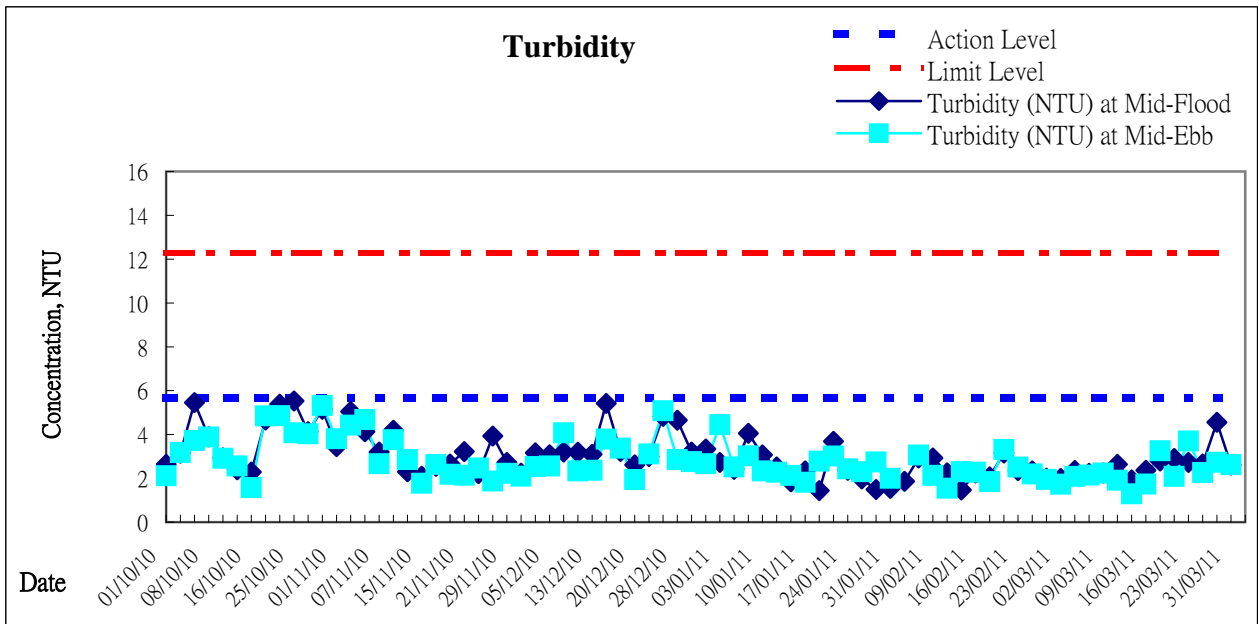
**Water Monitoring Result at WSD21 - Wan Chai  
Mid-Ebb Tide**

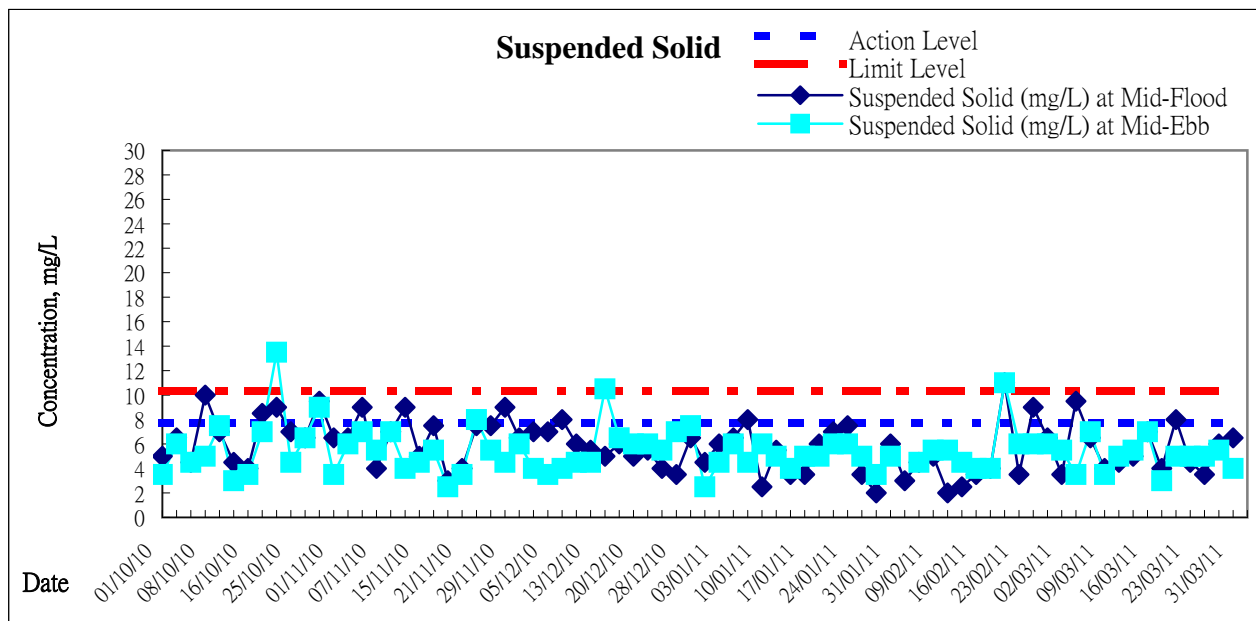
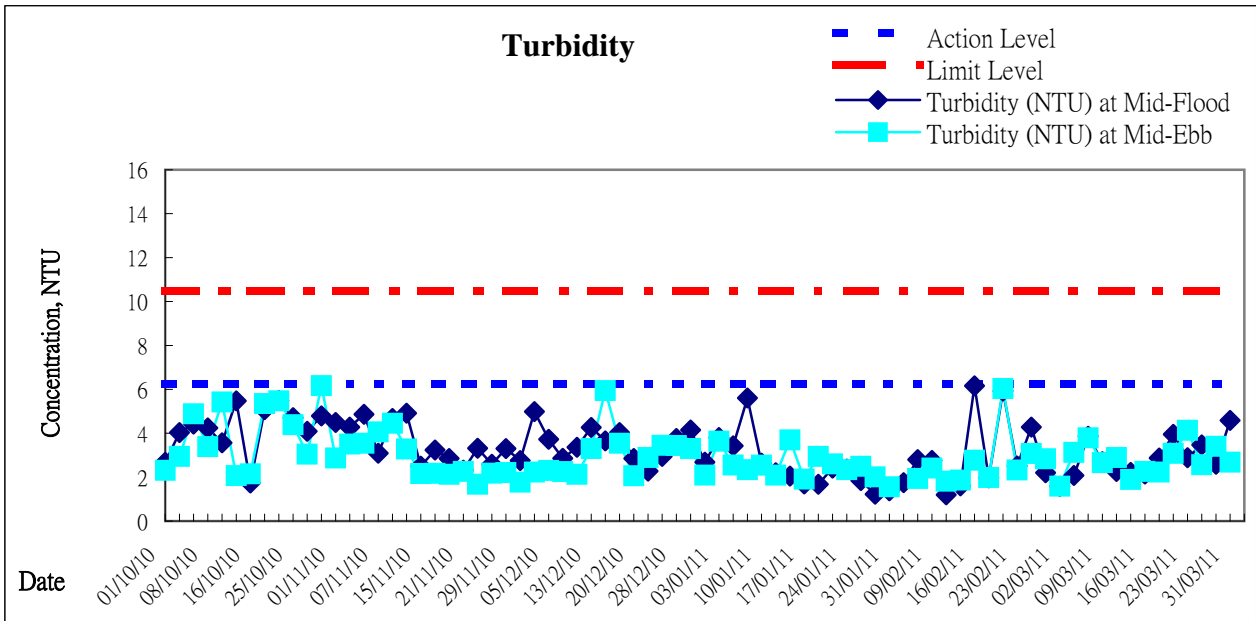
| Date       | Time  | Weather Condition | Sampling Depth |   | Water Temperature |         | pH    |         |       | Salinity |       | DO Saturation |       | DO      |       | Turbidity |       | Suspended Solids |       |         |      |      |    |      |
|------------|-------|-------------------|----------------|---|-------------------|---------|-------|---------|-------|----------|-------|---------------|-------|---------|-------|-----------|-------|------------------|-------|---------|------|------|----|------|
|            |       |                   | m              |   | °C                |         | -     |         |       | ppt      |       | %             |       | mg/L    |       | NTU       |       | mg/L             |       |         |      |      |    |      |
|            |       |                   |                |   | Value             | Average | Value | Average | Value | Average  | Value | Average       | Value | Average | Value | Average   | Value | Average          | Value | Average |      |      |    |      |
| 02/03/2011 | 22:56 | Cloudy            | Middle         | 2 | 17.22             | 17.22   | 17.21 | 8.22    | 8.22  | 8.23     | 30.59 | 30.59         | 30.59 | 86.3    | 81.6  | 81.9      | 6.92  | 6.54             | 6.57  | 4.24    | 4.10 | 3.92 | 6  | 6.0  |
|            | 23:00 |                   | Middle         | 2 | 17.20             | 17.20   |       | 8.23    | 8.23  |          | 30.59 | 30.59         |       | 78.4    | 81.4  |           | 6.28  | 6.52             |       | 3.48    | 3.86 |      | 6  |      |
| 04/03/2011 | 14:15 | Cloudy            | Middle         | 2 | 16.80             | 16.80   | 16.85 | 8.01    | 8.01  | 8.02     | 31.29 | 31.29         | 31.30 | 91.0    | 91.5  | 91.6      | 7.30  | 7.32             | 7.33  | 4.58    | 4.55 | 4.58 | 8  | 7.0  |
|            | 14:23 |                   | Middle         | 2 | 16.90             | 16.90   |       | 8.02    | 8.02  |          | 31.30 | 31.30         |       | 91.8    | 92.0  |           | 7.35  | 7.36             |       | 4.32    | 4.85 |      | 6  |      |
| 07/03/2011 | 14:35 | Fine              | Middle         | 2 | 18.20             | 18.30   | 18.08 | 7.88    | 7.88  | 7.89     | 32.30 | 32.30         | 32.30 | 87.0    | 87.0  | 87.4      | 6.77  | 6.78             | 6.80  | 5.43    | 5.29 | 5.42 | 7  | 8.0  |
|            | 14:38 |                   | Middle         | 2 | 17.90             | 17.90   |       | 7.90    | 7.90  |          | 32.30 | 32.30         |       | 87.8    | 87.6  |           | 6.83  | 6.82             |       | 5.52    | 5.45 |      | 9  |      |
| 09/03/2011 | 09:36 | Cloudy            | Middle         | 2 | 16.20             | 16.20   | 16.20 | 8.01    | 8.01  | 8.01     | 31.85 | 31.85         | 31.85 | 88.7    | 88.6  | 88.6      | 7.38  | 7.38             | 7.38  | 3.97    | 3.93 | 4.05 | 8  | 8.5  |
|            | 09:39 |                   | Middle         | 2 | 16.20             | 16.20   |       | 8.00    | 8.00  |          | 31.84 | 31.84         |       | 88.9    | 88.3  |           | 7.40  | 7.35             |       | 4.13    | 4.16 |      | 9  |      |
| 11/03/2011 | 15:26 | Cloudy            | Middle         | 2 | 17.40             | 17.30   | 17.30 | 7.85    | 7.85  | 7.88     | 32.55 | 32.55         | 32.56 | 88.6    | 87.9  | 88.2      | 7.03  | 6.99             | 7.02  | 4.01    | 4.06 | 4.01 | 8  | 8.5  |
|            | 15:29 |                   | Middle         | 2 | 17.30             | 17.20   |       | 7.86    | 7.96  |          | 32.56 | 32.56         |       | 88.0    | 88.2  |           | 7.01  | 7.03             |       | 3.98    | 4.00 |      | 9  |      |
| 13/03/2011 | 17:08 | Sunny             | Middle         | 2 | 18.70             | 18.60   | 18.65 | 7.83    | 7.83  | 7.84     | 33.10 | 33.20         | 33.10 | 88.0    | 87.9  | 87.8      | 6.79  | 6.78             | 6.78  | 4.59    | 4.03 | 4.45 | 9  | 8.0  |
|            | 17:11 |                   | Middle         | 2 | 18.70             | 18.60   |       | 7.84    | 7.84  |          | 33.00 | 33.10         |       | 87.7    | 87.6  |           | 6.77  | 6.76             |       | 4.61    | 4.58 |      | 7  |      |
| 16/03/2011 | 20:44 | Cloudy            | Middle         | 2 | 16.80             | 16.80   | 16.80 | 7.83    | 7.83  | 7.83     | 32.54 | 32.54         | 32.54 | 77.9    | 77.3  | 76.5      | 6.21  | 6.17             | 6.10  | 4.10    | 3.87 | 4.14 | 10 | 9.0  |
|            | 20:48 |                   | Middle         | 2 | 16.80             | 16.80   |       | 7.83    | 7.83  |          | 32.54 | 32.54         |       | 74.2    | 76.5  |           | 5.92  | 6.10             |       | 4.37    | 4.23 |      | 8  |      |
| 18/03/2011 | 11:14 | Cloudy            | Middle         | 2 | 17.50             | 17.50   | 17.45 | 7.98    | 7.98  | 7.98     | 33.45 | 33.45         | 33.45 | 90.1    | 89.6  | 89.5      | 7.05  | 7.01             | 7.00  | 3.68    | 3.74 | 3.61 | 6  | 6.0  |
|            | 11:17 |                   | Middle         | 2 | 17.40             | 17.40   |       | 7.97    | 7.97  |          | 33.45 | 33.45         |       | 89.0    | 89.3  |           | 6.96  | 6.97             |       | 3.52    | 3.48 |      | 6  |      |
| 21/03/2011 | 12:30 | Fine              | Middle         | 3 | 20.00             | 20.20   | 20.10 | 7.89    | 7.88  | 7.88     | 32.41 | 32.41         | 32.40 | 90.5    | 90.1  | 90.7      | 6.68  | 6.62             | 6.70  | 5.07    | 5.10 | 5.08 | 10 | 10.0 |
|            | 12:33 |                   | Middle         | 3 | 20.00             | 20.20   |       | 7.88    | 7.87  |          | 32.38 | 32.38         |       | 91.0    | 91.2  |           | 6.73  | 6.75             |       | 5.12    | 5.01 |      | 10 |      |
| 23/03/2011 | 13:35 | Cloudy            | Middle         | 2 | 18.70             | 18.70   | 18.70 | 7.93    | 7.93  | 7.93     | 32.43 | 32.43         | 32.43 | 87.0    | 87.4  | 88.0      | 6.73  | 6.77             | 6.81  | 4.50    | 4.62 | 4.74 | 6  | 6.5  |
|            | 13:39 |                   | Middle         | 2 | 18.70             | 18.70   |       | 7.92    | 7.92  |          | 32.43 | 32.43         |       | 88.7    | 89.0  |           | 6.86  | 6.88             |       | 4.85    | 4.97 |      | 7  |      |
| 25/03/2011 | 15:30 | Cloudy            | Middle         | 2 | 18.40             | 18.40   | 18.35 | 7.84    | 7.84  | 7.85     | 32.60 | 32.60         | 32.55 | 84.2    | 84.8  | 83.9      | 6.38  | 6.41             | 6.33  | 5.48    | 5.32 | 5.34 | 4  | 7.0  |
|            | 15:33 |                   | Middle         | 2 | 18.30             | 18.30   |       | 7.85    | 7.85  |          | 32.50 | 32.50         |       | 83.4    | 83.0  |           | 6.27  | 6.25             |       | 5.30    | 5.26 |      | 10 |      |
| 29/03/2011 | 20:57 | Cloudy            | Middle         | 2 | 18.13             | 8.13    | 15.63 | 7.92    | 7.92  | 7.92     | 32.04 | 32.04         | 32.04 | 80.2    | 79.2  | 79.4      | 6.26  | 6.18             | 6.19  | 3.97    | 4.33 | 4.43 | 7  | 7.5  |
|            | 20:59 |                   | Middle         | 2 | 18.13             | 18.13   |       | 7.92    | 7.92  |          | 32.04 | 32.04         |       | 81.4    | 76.6  |           | 6.35  | 5.97             |       | 4.65    | 4.78 |      | 8  |      |
| 31/03/2011 | 11:00 | Cloudy            | Middle         | 2 | 17.80             | 17.80   | 17.83 | 7.95    | 7.95  | 7.94     | 32.60 | 32.60         | 32.55 | 84.6    | 85.0  | 84.8      | 6.57  | 6.62             | 6.59  | 4.12    | 4.34 | 4.28 | 8  | 7.5  |
|            | 11:03 |                   | Middle         | 2 | 17.90             | 17.80   |       | 7.93    | 7.93  |          | 32.50 | 32.50         |       | 84.8    | 84.6  |           | 6.59  | 6.56             |       | 4.68    | 3.99 |      | 7  |      |

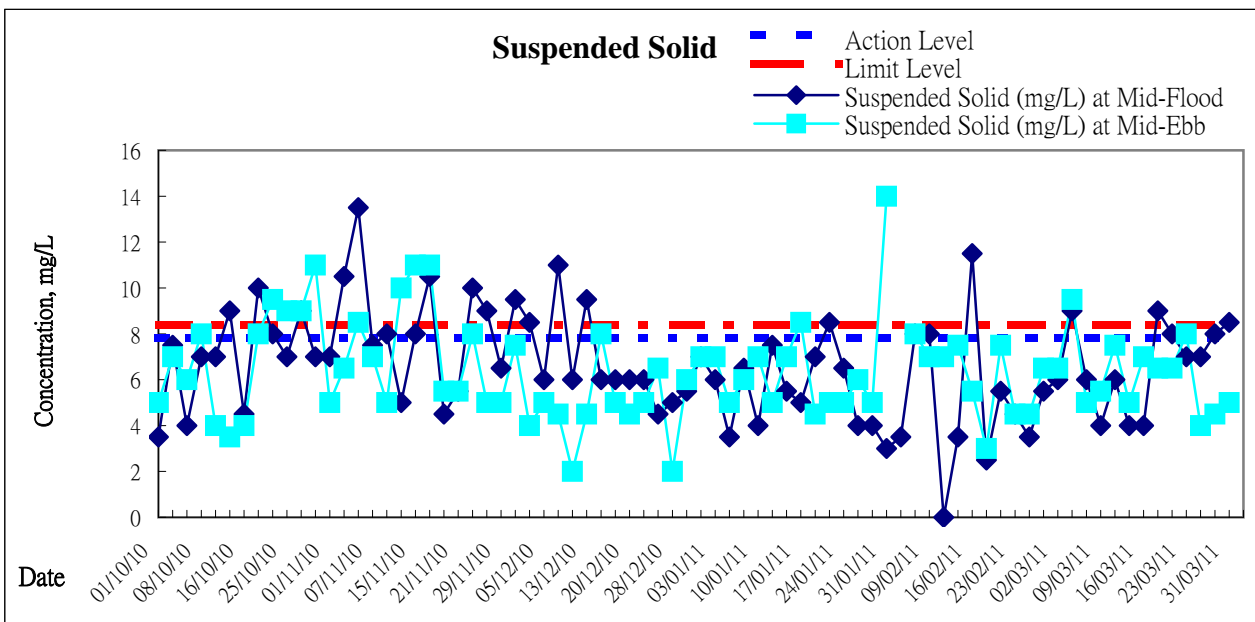
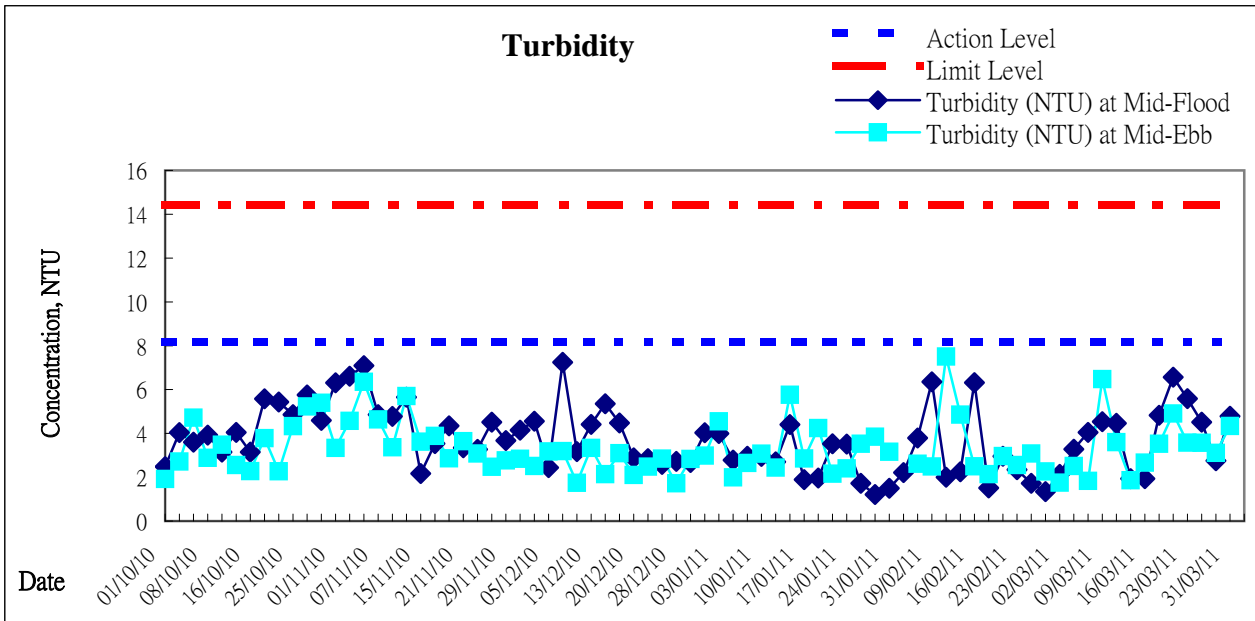


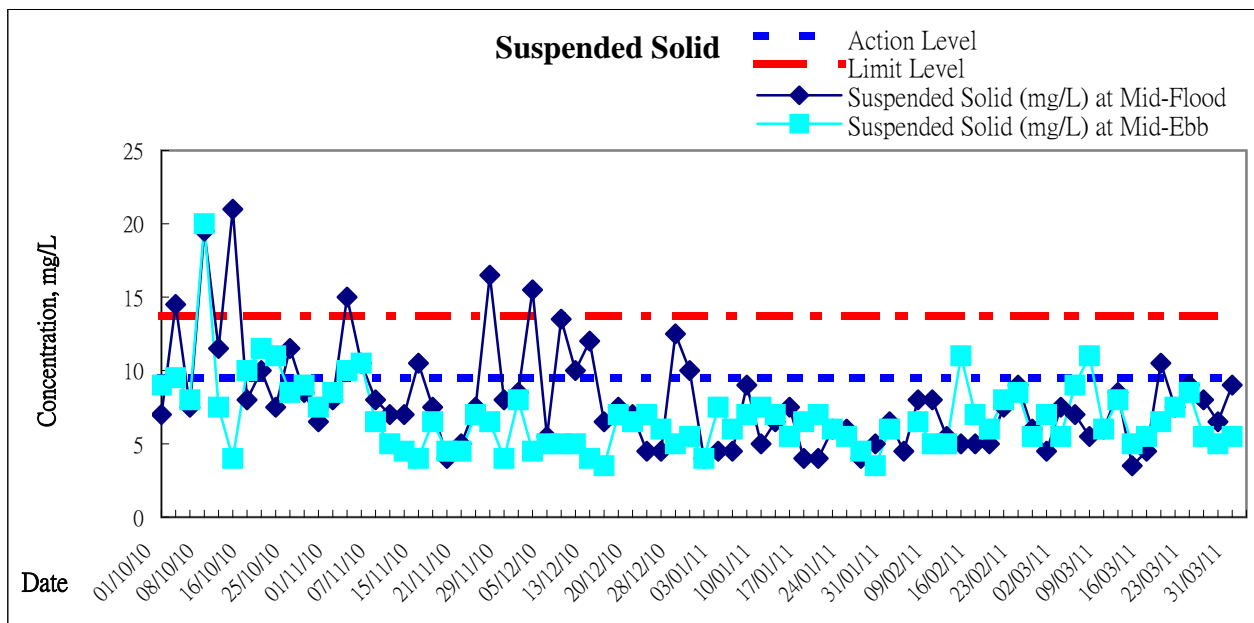
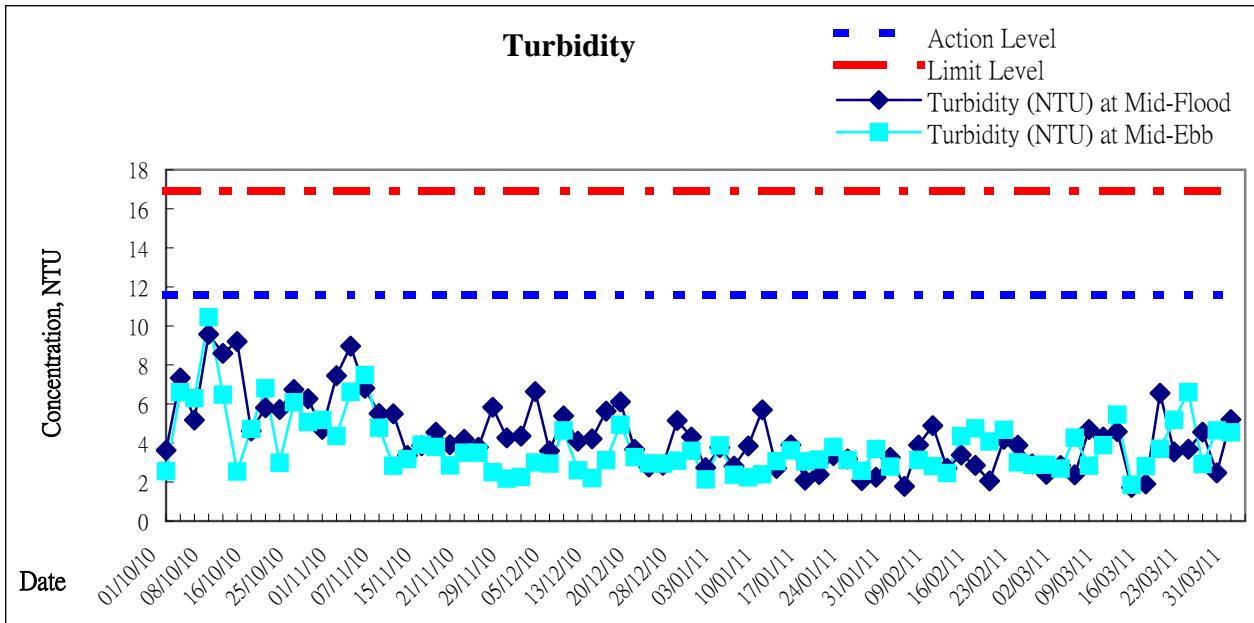
**Water Monitoring Result at WSD19 - Sheung Wan  
Mid-Ebb Tide**

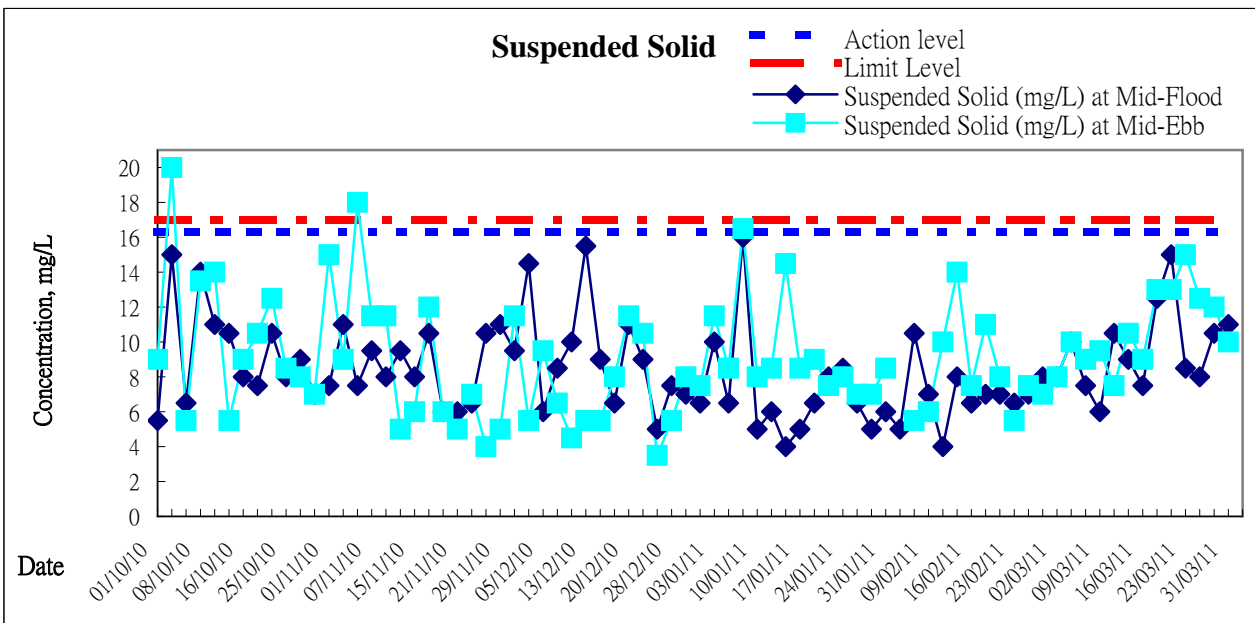
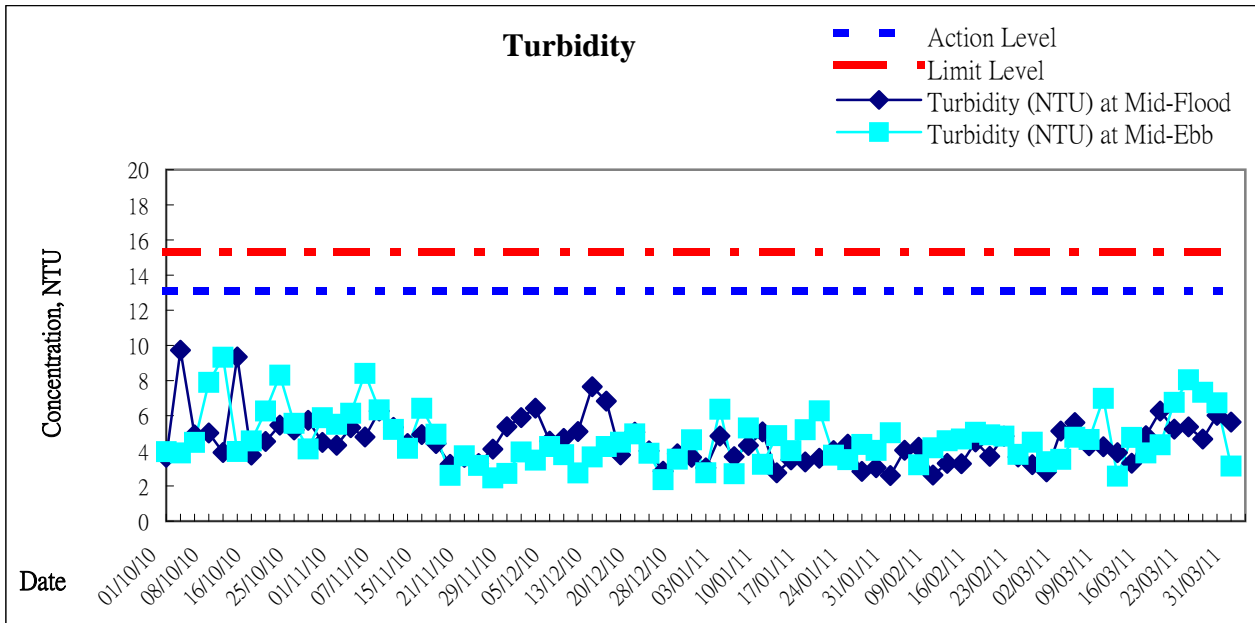
| Date       | Time  | Weather Condition | Sampling Depth |   | Water Temperature |         |       | pH      |       |         | Salinity |         | DO Saturation |         | DO    |         | Turbidity |         | Suspended Solids |      |      |      |    |      |
|------------|-------|-------------------|----------------|---|-------------------|---------|-------|---------|-------|---------|----------|---------|---------------|---------|-------|---------|-----------|---------|------------------|------|------|------|----|------|
|            |       |                   | m              |   | °C                |         | -     |         | ppt   |         | %        |         | mg/L          |         | NTU   |         | mg/L      |         |                  |      |      |      |    |      |
|            |       |                   |                |   | Value             | Average | Value | Average | Value | Average | Value    | Average | Value         | Average | Value | Average | Value     | Average |                  |      |      |      |    |      |
| 02/03/2011 | 22:36 | Cloudy            | Middle         | 2 | 16.95             | 16.95   | 16.93 | 8.25    | 8.25  | 8.26    | 30.70    | 30.70   | 30.73         | 79.3    | 80.4  | 79.8    | 6.38      | 6.47    | 6.42             | 3.32 | 3.70 | 3.52 | 7  | 8.0  |
|            | 22:40 |                   | Middle         | 2 | 16.90             | 16.90   |       | 8.26    | 8.26  |         | 30.75    | 30.75   |               | 79.9    | 79.4  |         | 6.42      | 6.39    |                  | 3.56 | 3.49 |      | 9  |      |
| 04/03/2011 | 13:20 | Cloudy            | Middle         | 2 | 17.10             | 17.10   | 17.15 | 7.97    | 7.97  | 7.97    | 31.42    | 31.42   | 31.42         | 82.6    | 81.6  | 82.1    | 6.48      | 6.40    | 6.44             | 4.97 | 4.62 | 4.78 | 11 | 10.0 |
|            | 13:23 |                   | Middle         | 2 | 17.20             | 17.20   |       | 7.97    | 7.97  |         | 31.42    | 31.42   |               | 82.4    | 81.7  |         | 6.47      | 6.41    |                  | 4.74 | 4.77 |      | 9  |      |
| 07/03/2011 | 13:20 | Fine              | Middle         | 2 | 18.50             | 18.50   | 18.53 | 7.99    | 7.99  | 7.99    | 31.30    | 31.30   | 31.31         | 83.5    | 82.6  | 83.4    | 6.44      | 6.37    | 6.46             | 4.46 | 4.53 | 4.65 | 10 | 9.0  |
|            | 13:24 |                   | Middle         | 2 | 18.60             | 18.50   |       | 7.98    | 7.98  |         | 31.32    | 31.32   |               | 83.4    | 84.0  |         | 6.42      | 6.61    |                  | 4.64 | 4.95 |      | 8  |      |
| 09/03/2011 | 15:00 | Cloudy            | Middle         | 2 | 16.20             | 16.20   | 16.25 | 7.87    | 7.87  | 7.88    | 31.75    | 31.75   | 31.75         | 84.0    | 83.5  | 83.7    | 6.84      | 6.80    | 6.81             | 7.01 | 6.84 | 6.98 | 9  | 9.5  |
|            | 15:04 |                   | Middle         | 2 | 16.30             | 16.30   |       | 7.88    | 7.88  |         | 31.75    | 31.75   |               | 83.8    | 83.3  |         | 6.83      | 6.78    |                  | 7.11 | 6.97 |      | 10 |      |
| 11/03/2011 | 13:47 | Cloudy            | Middle         | 2 | 17.20             | 17.20   | 17.25 | 7.72    | 7.72  | 7.72    | 31.74    | 31.74   | 31.74         | 83.1    | 82.9  | 83.0    | 6.56      | 6.51    | 6.53             | 2.61 | 2.64 | 2.56 | 7  | 7.5  |
|            | 13:49 |                   | Middle         | 2 | 17.30             | 17.30   |       | 7.72    | 7.72  |         | 31.74    | 31.74   |               | 82.6    | 83.2  |         | 6.48      | 6.58    |                  | 2.58 | 2.42 |      | 8  |      |
| 13/03/2011 | 17:03 | Sunny             | Middle         | 2 | 19.80             | 19.80   | 19.80 | 7.70    | 7.70  | 7.70    | 31.86    | 31.86   | 31.86         | 84.4    | 86.5  | 86.3    | 6.15      | 6.30    | 6.30             | 5.09 | 4.50 | 4.76 | 11 | 10.5 |
|            | 17:05 |                   | Middle         | 2 | 19.80             | 19.80   |       | 7.70    | 7.70  |         | 31.86    | 31.86   |               | 86.2    | 87.9  |         | 6.33      | 6.40    |                  | 4.68 | 4.77 |      | 10 |      |
| 16/03/2011 | 23:41 | Cloudy            | Middle         | 2 | 17.10             | 17.10   | 17.10 | 7.82    | 7.82  | 7.82    | 32.42    | 32.42   | 32.42         | 81.0    | 83.0  | 81.3    | 6.43      | 6.59    | 6.45             | 3.86 | 4.07 | 3.88 | 8  | 9.0  |
|            | 23:44 |                   | Middle         | 2 | 17.10             | 17.10   |       | 7.82    | 7.82  |         | 32.42    | 32.42   |               | 80.6    | 80.5  |         | 6.40      | 6.39    |                  | 3.78 | 3.81 |      | 10 |      |
| 18/03/2011 | 12:45 | Cloudy            | Middle         | 2 | 17.20             | 17.20   | 17.10 | 7.88    | 7.88  | 7.88    | 32.37    | 32.37   | 32.37         | 83.8    | 83.0  | 83.4    | 6.67      | 6.61    | 6.64             | 4.55 | 4.12 | 4.35 | 14 | 13.0 |
|            | 12:49 |                   | Middle         | 2 | 17.00             | 17.00   |       | 7.88    | 7.88  |         | 32.37    | 32.37   |               | 83.6    | 83.1  |         | 6.66      | 6.62    |                  | 4.34 | 4.38 |      | 12 |      |
| 21/03/2011 | 12:49 | Fine              | Middle         | 2 | 19.70             | 19.70   | 19.85 | 7.82    | 7.82  | 7.83    | 32.64    | 32.64   | 32.64         | 78.8    | 78.0  | 78.3    | 5.94      | 5.88    | 5.90             | 6.84 | 6.92 | 6.76 | 12 | 13.0 |
|            | 12:52 |                   | Middle         | 2 | 20.00             | 20.00   |       | 7.83    | 7.83  |         | 32.64    | 32.64   |               | 78.5    | 77.7  |         | 5.92      | 5.86    |                  | 6.57 | 6.71 |      | 14 |      |
| 23/03/2011 | 15:29 | Cloudy            | Middle         | 3 | 18.20             | 18.20   | 18.20 | 7.94    | 7.94  | 7.94    | 32.61    | 32.61   | 32.61         | 76.2    | 76.9  | 76.2    | 5.91      | 5.98    | 5.92             | 8.05 | 8.10 | 8.04 | 12 | 15.0 |
|            | 15:32 |                   | Middle         | 3 | 18.20             | 18.20   |       | 7.93    | 7.93  |         | 32.61    | 32.61   |               | 75.6    | 76.0  |         | 5.87      | 5.91    |                  | 7.97 | 8.03 |      | 18 |      |
| 25/03/2011 | 14:30 | Cloudy            | Middle         | 3 | 18.70             | 18.70   | 18.75 | 7.80    | 7.80  | 7.80    | 32.70    | 32.70   | 32.69         | 72.2    | 71.5  | 71.8    | 5.55      | 5.48    | 5.51             | 7.30 | 7.27 | 7.33 | 15 | 12.5 |
|            | 14:33 |                   | Middle         | 3 | 18.80             | 18.80   |       | 7.80    | 7.80  |         | 32.68    | 32.68   |               | 72.3    | 71.2  |         | 5.55      | 5.46    |                  | 7.42 | 7.33 |      | 10 |      |
| 29/03/2011 | 23:08 | Cloudy            | Middle         | 2 | 18.06             | 18.06   | 18.06 | 8.00    | 8.00  | 8.00    | 32.28    | 32.28   | 32.28         | 84.1    | 80.0  | 80.6    | 6.56      | 6.24    | 6.28             | 7.00 | 6.70 | 6.73 | 11 | 12.0 |
|            | 23:10 |                   | Middle         | 2 | 18.06             | 18.06   |       | 8.00    | 8.00  |         | 32.28    | 32.28   |               | 81.6    | 76.8  |         | 6.36      | 5.97    |                  | 6.41 | 6.81 |      | 13 |      |
| 31/03/2011 | 13:03 | Cloudy            | Middle         | 2 | 18.10             | 18.10   | 18.05 | 7.81    | 7.81  | 7.82    | 33.00    | 33.01   | 32.99         | 77.7    | 78.1  | 77.8    | 6.04      | 6.09    | 6.06             | 3.21 | 3.08 | 3.14 | 10 | 10.0 |
|            | 13:06 |                   | Middle         | 2 | 18.00             | 18.00   |       | 7.82    | 7.82  |         | 32.98    | 32.98   |               | 78.0    | 77.5  |         | 6.08      | 6.02    |                  | 3.10 | 3.15 |      | 10 |      |

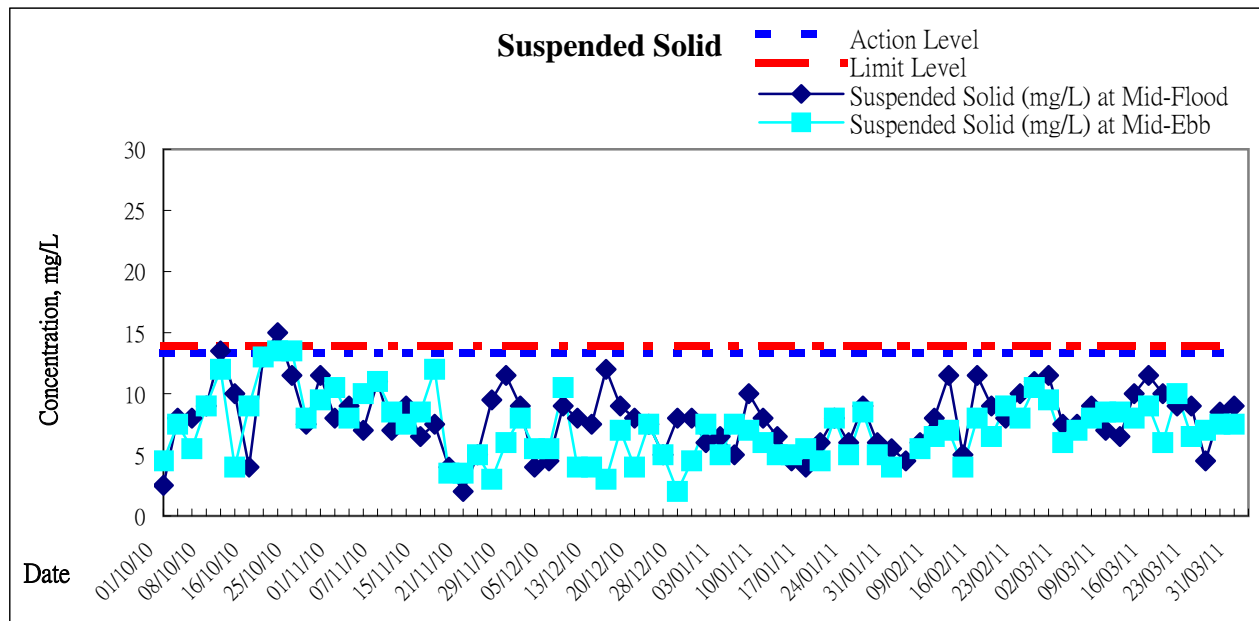
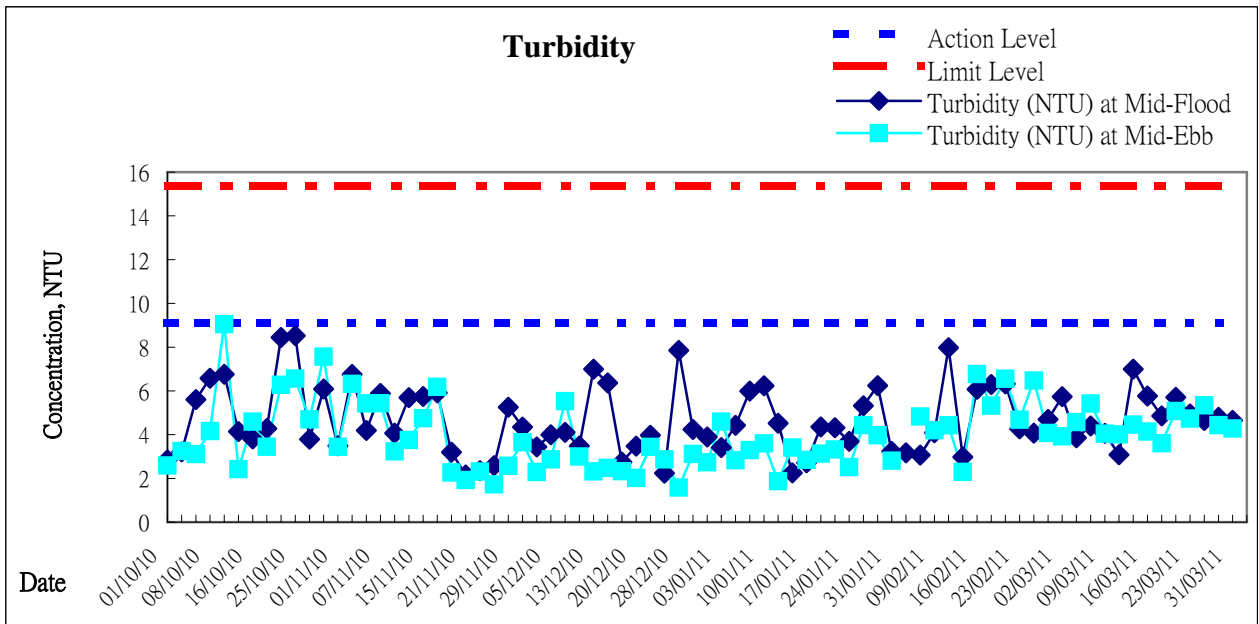
















***Appendix 5.3***

***Event and Action Plan***



**Event and Action Plan for Construction Noise**

| EVENT        | ACTION   |  |  |  |
|--------------|--|--|--|--|
|              | ET   | IC(E)  | ER   | CONTRACTOR   |
| Action Level | <ol style="list-style-type: none"> <li>1. Notify IEC and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IEC, ER and Contractor;</li> <li>4. Discuss with the Contractor and formulate remedial measures;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC;</li> <li>2. Implement noise mitigation proposals.</li> </ol>   |
| Limit Level  | <ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC, ER, EPD and Contractor;</li> <li>3. Repeat measurements to confirm findings;</li> <li>4. Increase monitoring frequency;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures properly implemented;</li> <li>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Submit further proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated.</li> </ol> |



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

| EVENT  | ACTION  |   |  |   |
|--|---|---|--|---|
|  | ET  | IEC   | ER   | CONTRACTOR  |
| Action level being exceeded by one sampling day                        | <ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC and Contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC and Contractor;</li> <li>(The above actions should be taken within 1 working day after the exceedance is identified)</li> <li>Repeat measurement on next day of exceedance.</li> </ol> | <ol style="list-style-type: none"> <li>Discuss with ET and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> <li>(The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>Discuss with IEC on the proposed mitigation measures;</li> <li>Make agreement on the mitigation measures to be implemented.</li> <li>(The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Review the working methods and consider additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works;</li> <li>Discuss with ET and IEC and propose mitigation measures to IEC and ER;</li> <li>Implement the agreed mitigation measures.</li> <li>(The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> |
| Action level being exceeded by more than one consecutive sampling days | <ol style="list-style-type: none"> <li>Identify source(s) of impact;</li> <li>Inform IEC and Contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC and Contractor;</li> </ol>  | <ol style="list-style-type: none"> <li>Discuss with ET and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER</li> </ol>   | <ol style="list-style-type: none"> <li>Discuss with IEC on the proposed mitigation measures;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Assess the effectiveness</li> </ol>  | <ol style="list-style-type: none"> <li>Inform the Engineer and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and</li> </ol>   |



| EVENT | ACTION   |  |  |   |
|-------|--|--|--|---|
|       | ET   | IEC  | ER   | CONTRACTOR  |
|       | <ul style="list-style-type: none"><li>5. Ensure mitigation measures are implemented;</li><li>6. Prepare to increase the monitoring frequency to daily;</li><li>7. (The above actions should be taken within 1 working day after the exceedance is identified)</li><li>8. Repeat measurement on next working day of exceedance.</li></ul> | <ul style="list-style-type: none"><li>3. Assess the effectiveness of the implemented mitigation measures.</li><li>4. (The above actions should be taken within 1 working day after the exceedance is identified)</li></ul> | <ul style="list-style-type: none"><li>of the implemented mitigation measures.</li><li>4. (The above actions should be taken within 1 working day after the exceedance is identified)</li></ul> | <ul style="list-style-type: none"><li>equipment;</li><li>4. Review the working methods and consider additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works;</li><li>5. Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days;</li><li>6. Implement the agreed mitigation measures.</li><li>7. (The above actions should be taken within 1 working day after the exceedance is identified)</li></ul> |



| EVENT  | ACTION   |   |  |  |
|--|--|---|--|--|
|  | ET   | IEC   | ER   | CONTRACTOR   |
| Limit level being exceeded by one sampling day | <ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm findings;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC, Contractor and EPD;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC, ER and Contractor;</li> <li>6. Ensure mitigation measures are implemented;</li> <li>7. Increase the monitoring frequency to daily until no exceedance of Limit Level.</li> <li>8. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> <li>4. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>2. Request Contractor to critically review the working methods;</li> <li>3. Make agreement on the mitigation measures to be implemented;</li> <li>4. Assess the effectiveness of the implemented mitigation measures.</li> <li>5. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>1. Inform the Engineer and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Review the working methods and consider additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works;</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days;</li> <li>6. Implement the agreed mitigation measures.</li> <li>7. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> |





| EVENT   | ACTION  |   |   |  |
|---|---|---|---|--|
|   | ET  | IEC   | ER  | CONTRACTOR   |
| Limit level being exceeded by more than one consecutive sampling days | <ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform IEC, Contractor and EPD;</li> <li>3. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>4. Discuss mitigation measures with IEC, ER and Contractor;</li> <li>5. Ensure mitigation measures are implemented;</li> <li>6. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</li> <li>7. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> <li>4. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>2. Request Contractor to critically review the working methods;</li> <li>3. Make agreement on the mitigation measures to be implemented;</li> <li>4. Assess the effectiveness of the implemented mitigation measures;</li> <li>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level.</li> <li>6. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> | <ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Review the working methods and consider additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works;</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days;</li> <li>6. Implement the agreed mitigation measures;</li> <li>7. As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities.</li> <li>8. (The above actions should be taken within 1 working day after the exceedance is identified)</li> </ol> |

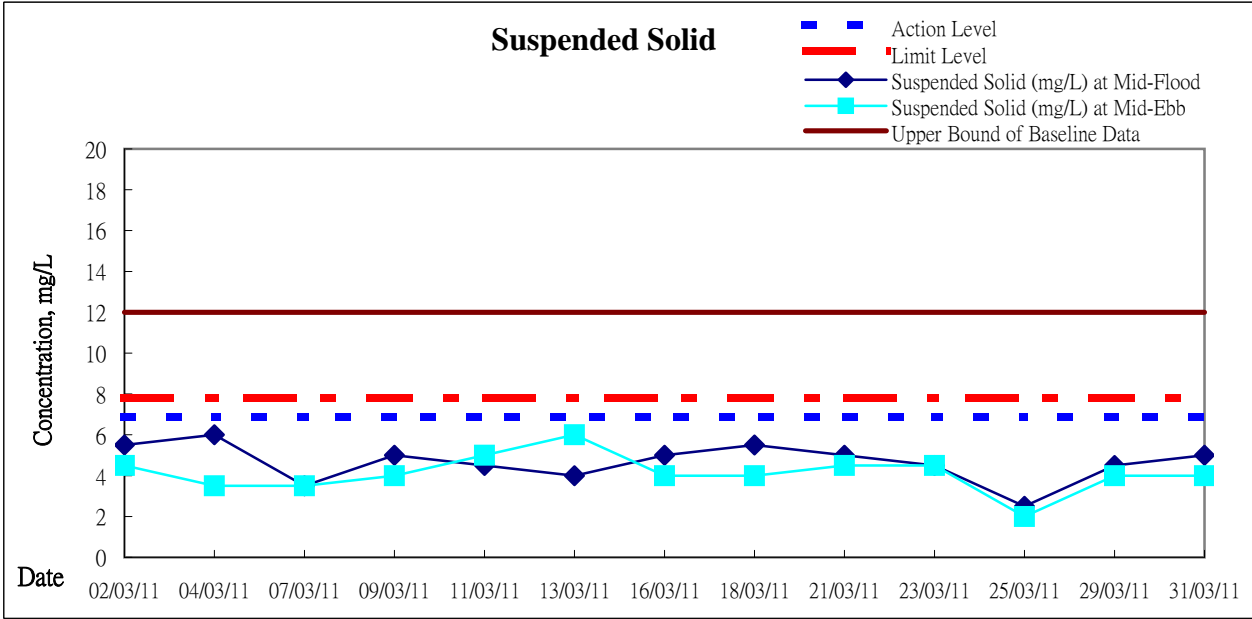


***Appendix 5.4***

***Graphic Presentation of SS Results against to Tidal Movement along Victoria Harbour***



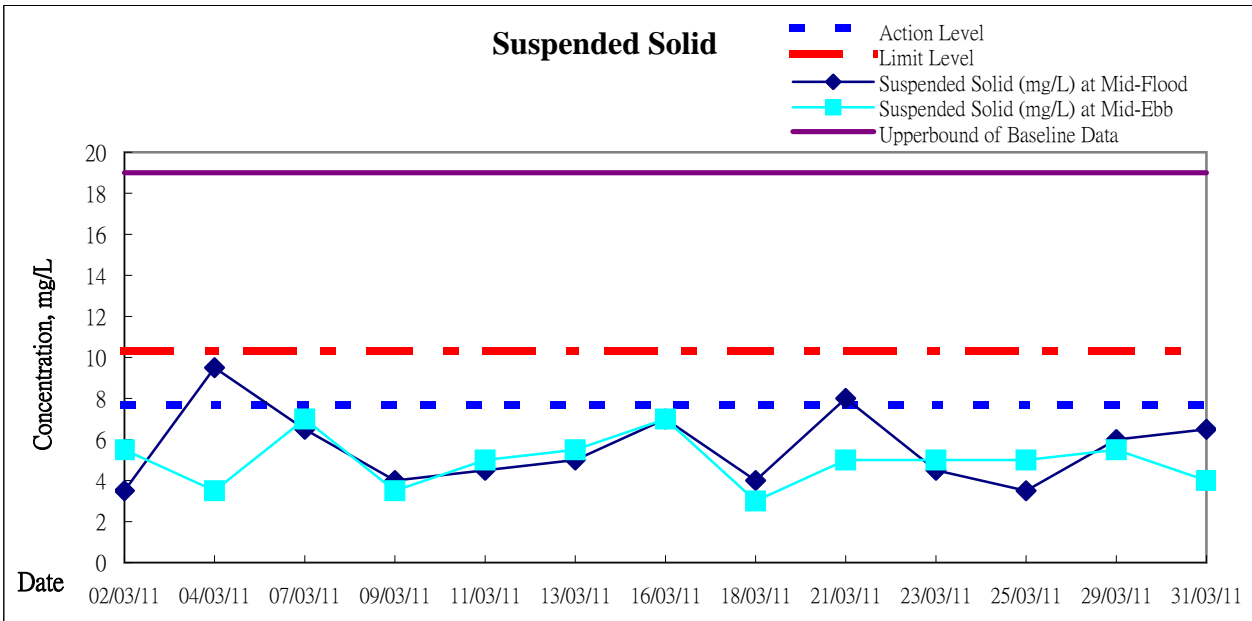
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan with respect to Local Variation



Remarks: WSD9 is located at upstream during the ebb tides while at downstream during flood tides.



Graphic Presentation of Water Quality Result of WSD10 - Cha Kwo Ling with respect to Local Variation

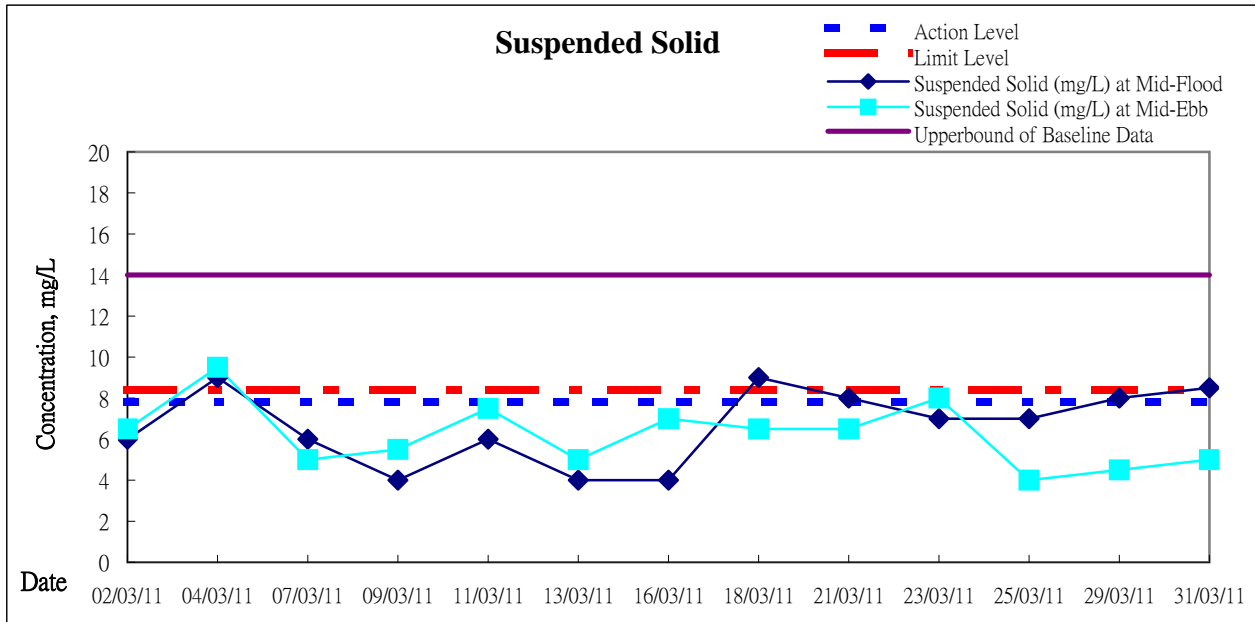


Remarks: WSD10 is located at upstream during the flood tides while at downstream during ebb tides.





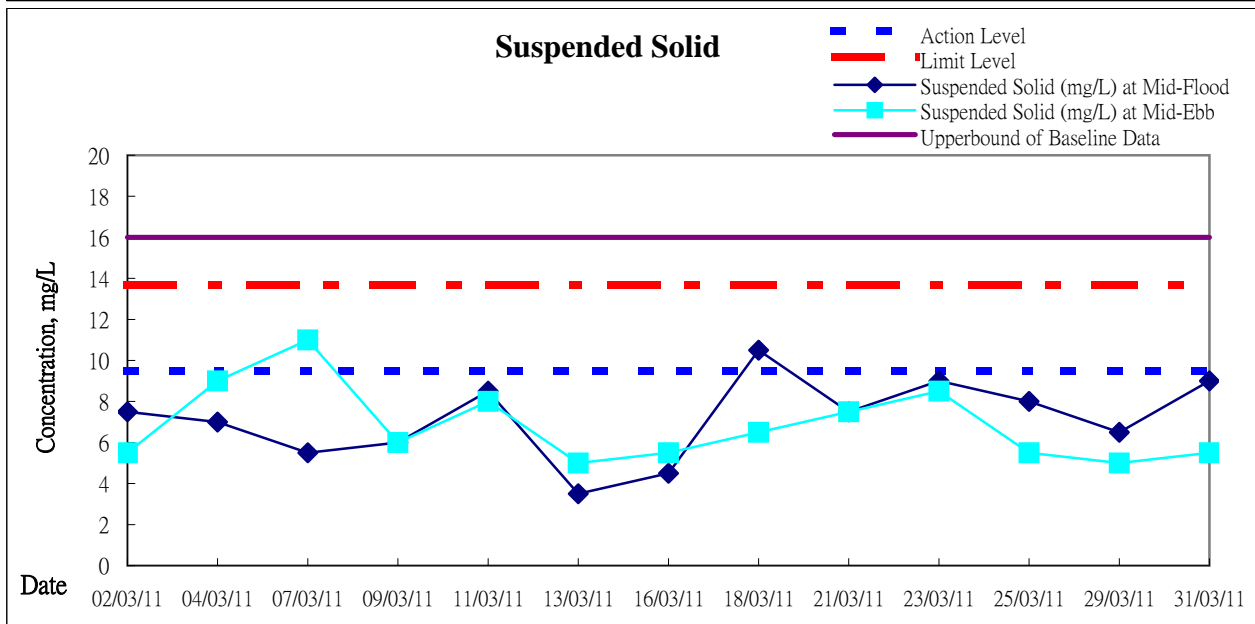
### Graphic Presentation of Water Quality Result of WSD15 - Sai Wan Ho with respect to Local Variation



Remarks: WSD15 is located at upstream during the flood tides while at downstream during ebb tides.



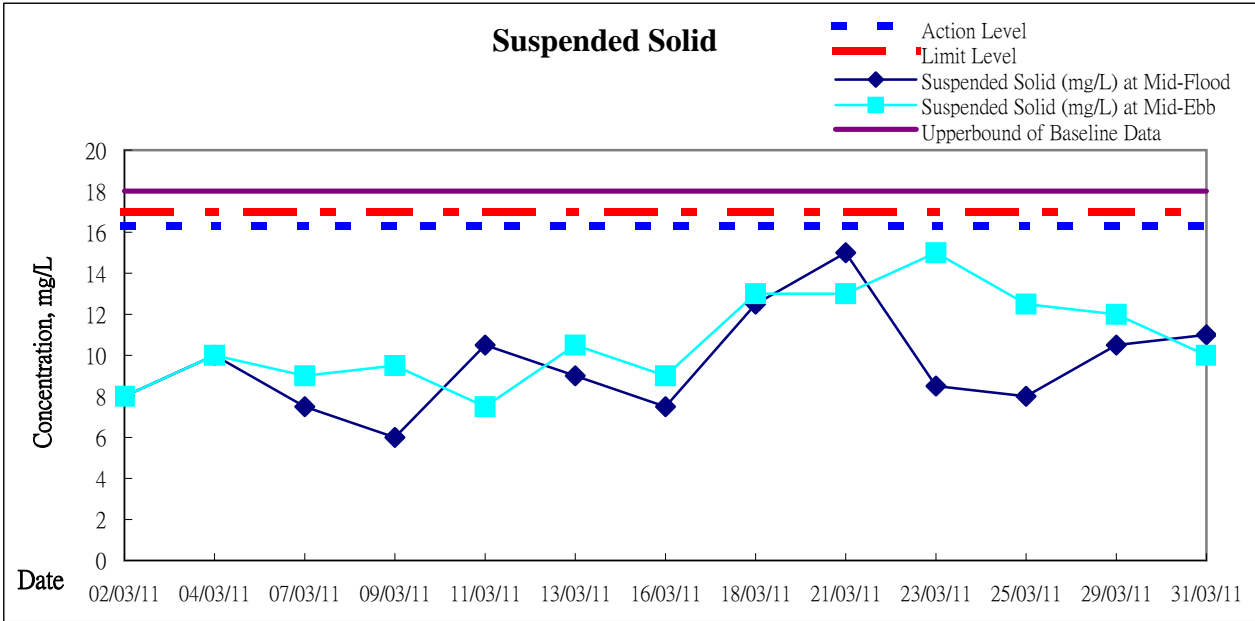
### Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay with respect to Local Variation



Remarks: WSD17 is located at upstream during the flood tides while at downstream during ebb tides.



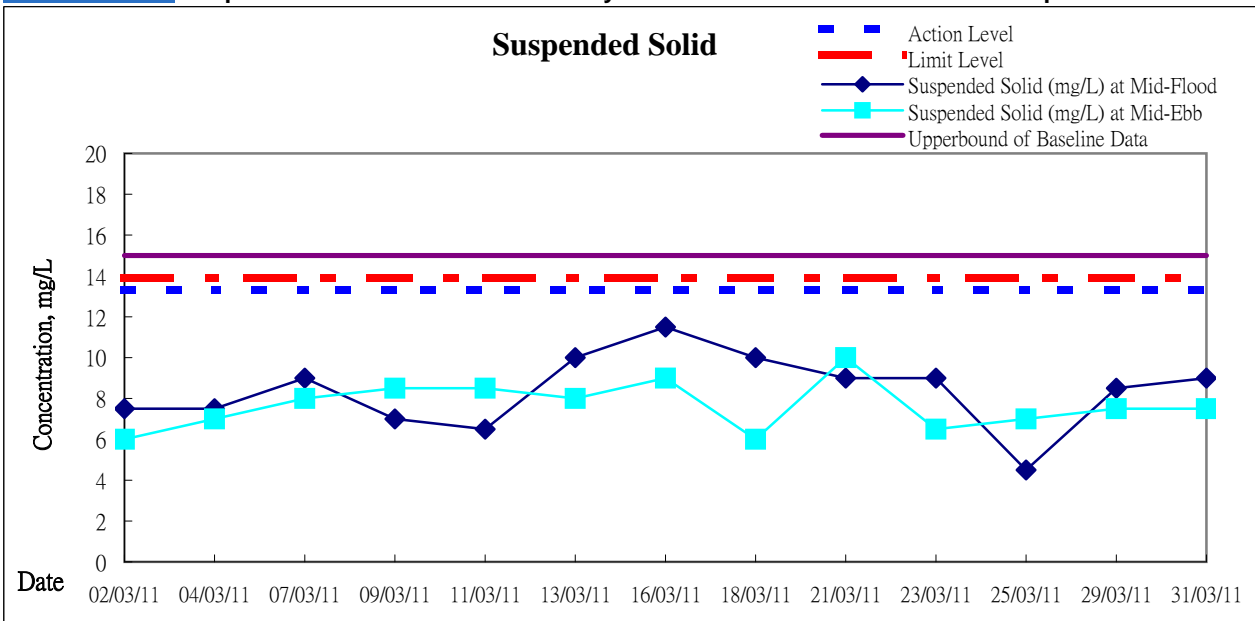
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan with respect to Local Variation



Remarks: WSD19 is located at upstream during the ebb tides while at downstream during flood tides.



Graphic Presentation of Water Quality Result of WSD21 - Wan Chai with respect to Local Variation



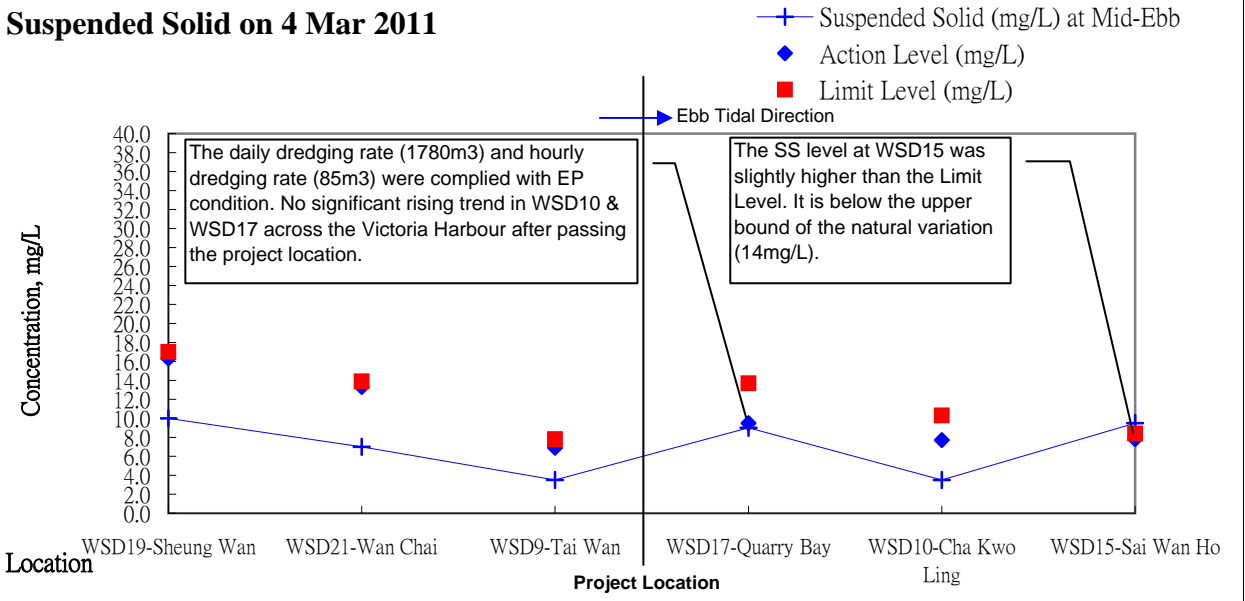
Remarks: WSD21 is located at upstream during the ebb tides while at downstream during flood tides.



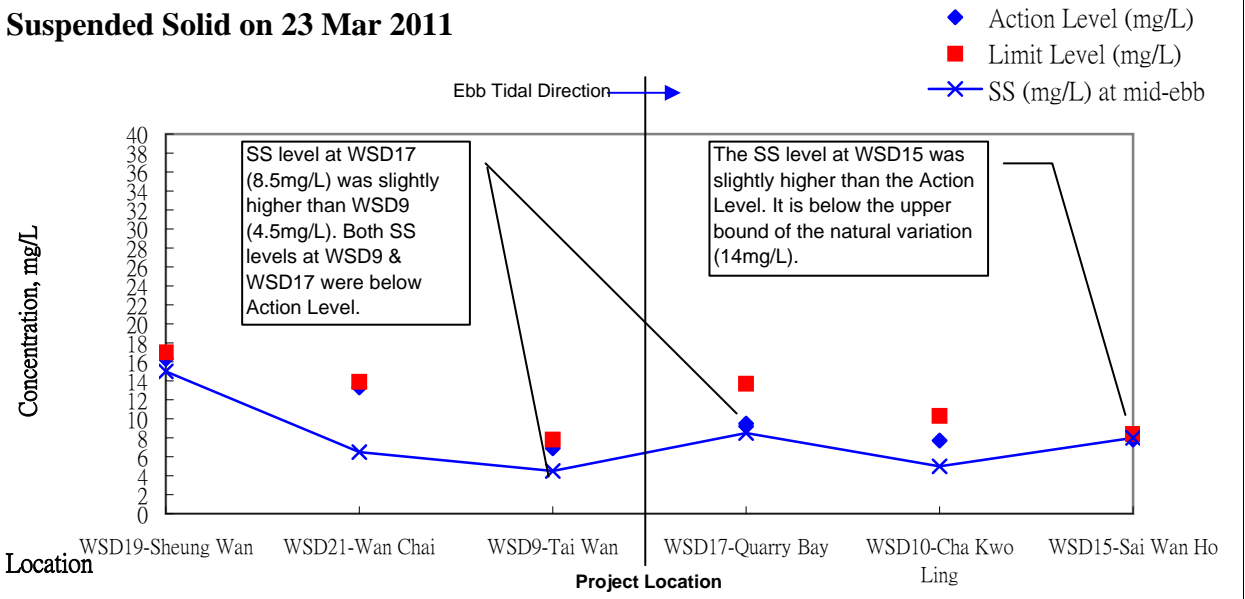
***Appendix 5.5***

***Graphic Presentation of Water Quality Result with respect to Local Variation***

### Suspended Solid on 4 Mar 2011



### Suspended Solid on 23 Mar 2011





***Appendix 5.6***

***Graphical Presentation of Water Quality Surveillance System***

Water Quality Surveillance System Monitoring Results (Suspended Solid) - February and March 2011

| Date of Monitoring | SP1     |        |        | MP1     |        |        | MP2     |        |        | MP3     |        |        | MP4     |        |        |
|--------------------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|
|                    | Surface | Middle | Bottom | Surface | Middle | Bottom | Surface | Middle | Bottom | Surface | Middle | Bottom | Surface | Middle | Bottom |
| 07.02.2011         | 16      | 10     | 16     | 5       | 4      | 5      | 6       | 3      | 6      | 5       | 5      | 14     | 17      | 8      | 9      |
| 11.02.2011         | 23      | 9      | 50     | 6       | 6      | 8      | 3       | 9      | 5      | 6       | 3      | 6      | 6       | 4      | 2      |
| 14.02.2011         | 6       | 4      | 4      | 4       | 3      | 4      | 5       | 7      | 5      | 6       | 4      | 6      | 2       | 3      | 5      |
| 16.02.2011         | 2       | 3      | 4      | 3       | 2      | 2      | 3       | 3      | 3      | 4       | 5      | 5      | 2       | 2      | 3      |
| 21.02.2011         | 10      | 21     | 5      | 15      | 7      | 6      | 10      | 8      | 4      | 11      | 11     | 6      | 6       | 7      | 6      |
| 25.02.2011         | 20      | 21     | 10     | 8       | 6      | 8      | 5       | 7      | 7      | 5       | 6      | 5      | 5       | 6      | 4      |
| 28.02.2011         | 31      | 50     | 46     | 6       | 7      | 5      | 3       | 5      | 8      | 4       | 3      | 4      | 4       | 2      | 5      |
| 02.03.2011         | 3       | 30     | 11     | 5       | 7      | 5      | 9       | 8      | 6      | 8       | 6      | 7      | 7       | 9      | 3      |

| Date of Monitoring | C5      |        |        | C6      |        |        | C7      |        |        |
|--------------------|---------|--------|--------|---------|--------|--------|---------|--------|--------|
|                    | Surface | Middle | Bottom | Surface | Middle | Bottom | Surface | Middle | Bottom |
| 07.02.2011         | 3       | 4      | 5      | 3       | 4      | 4      | 7       | 8      | 6      |
| 11.02.2011         | 6       | 9      | 7      | 4       | 4      | 6      | 2       | 5      | 4      |
| 14.02.2011         | 5       | 5      | 6      | 6       | 2      | 2      | 5       | 5      | 4      |
| 16.02.2011         | 4       | 4      | 5      | <2      | 6      | 3      | 3       | 3      | 4      |
| 21.02.2011         | 7       | 6      | 6      | 5       | 6      | 6      | 5       | 7      | 5      |
| 25.02.2011         | 6       | 10     | 9      | 4       | 3      | 5      | 3       | 6      | 7      |
| 28.02.2011         | 7       | 8      | 8      | 6       | 4      | 3      | 4       | 4      | 5      |
| 02.03.2011         | 6       | 5      | 5      | 5       | 3      | 3      | 4       | 4      | 4      |

| Date of Monitoring | C1      |        |        | C2      |        |        | C3      |        |        | C4      |        |        |
|--------------------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|
|                    | Surface | Middle | Bottom | Surface | Middle | Bottom | Surface | Middle | Bottom | Surface | Middle | Bottom |
| 07.02.2011         | 9       | 6      | 4      | 5       | 4      | 4      | 4       | 4      | 6      | 3       | 4      | 3      |
| 11.02.2011         | 3       | 7      | 4      | 10      | 5      | 3      | 3       | 9      | 5      | 3       | 11     | 5      |
| 14.02.2011         | 3       | 5      | 3      | 4       | 4      | 3      | 3       | 3      | 4      | 3       | 5      | 4      |
| 16.02.2011         | 4       | 3      | 5      | 6       | 5      | 3      | 9       | 4      | 4      | 3       | 4      | 3      |
| 21.02.2011         | 4       | 4      | 6      | 5       | 5      | 7      | 5       | 11     | 10     | 6       | 8      | 6      |
| 25.02.2011         | 5       | 4      | 6      | 3       | 5      | 7      | 2       | 2      | <2     | 2       | 4      | 4      |
| 28.02.2011         | 5       | 4      | 8      | 6       | 5      | 5      | 7       | 2      | 5      | 11      | 4      | 7      |
| 02.03.2011         | 4       | 5      | 7      | 4       | 5      | 4      | 3       | 3      | 4      | 5       | 7      | 5      |
| 99 percentile      | 9       | 7      | 8      | 10      | 5      | 7      | 9       | 11     | 10     | 11      | 11     | 7      |

Trigger Levels\* for Seawall Removal measured at all depths

| Control Point | Trigger Level in mg/L for Dry Season | Trigger Level in mg/L for Wet Season |
|---------------|--------------------------------------|--------------------------------------|
| C1            | 14                                   | 18.5                                 |
| C2            |                                      |                                      |
| C3            |                                      |                                      |
| C4            |                                      |                                      |

\*99 percentile of the monitoring results OR 14.0 (Dry Season, October to Mar, Action Level for all stations proposed in the Supplementary to Baseline Water Quality Monitoring Report), whichever is higher

\*99 percentile of the monitoring results OR 18.5 (Wet Season, April to November, Action Level for all stations proposed in the Supplementary to Baseline Water Quality Monitoring Report) whichever is higher



Water Quality Surveillance System Monitoring Results (Turbidity) - February and March 2011

| Date of Monitoring | SP1     |      |        |      |        |      | MP1     |      |        |      |        |      | MP2     |      |        |      |        |      | MP3     |      |        |      |        |      | MP4     |      |        |      |        |      |
|--------------------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|
|                    | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      |
| 07.02.2011         | 6.40    | 7.18 | 4.36   | 4.39 | 5.54   | 5.88 | 2.39    | 3.02 | 1.97   | 2.03 | 1.88   | 1.95 | 2.06    | 1.96 | 1.79   | 1.95 | 2.13   | 2.37 | 3.06    | 2.42 | 3.57   | 3.28 | 6.98   | 6.91 | 3.93    | 3.97 | 4.17   | 3.84 | 4.22   | 4.66 |
| 11.02.2011         | 12.6    | 13.0 | 4.16   | 4.25 | 21.4   | 20.3 | 2.83    | 2.93 | 2.11   | 2.38 | 2.14   | 2.19 | 2.06    | 2.00 | 2.43   | 1.99 | 2.39   | 1.92 | 1.87    | 1.57 | 1.71   | 1.60 | 1.43   | 1.05 | 1.69    | 1.71 | 1.36   | 1.26 | 1.42   | 1.45 |
| 14.02.2011         | 2.46    | 2.31 | 1.43   | 1.60 | 1.69   | 1.78 | 1.53    | 1.48 | 1.53   | 1.52 | 1.80   | 1.75 | 2.26    | 2.30 | 1.94   | 1.71 | 1.96   | 2.07 | 1.32    | 1.25 | 1.59   | 1.39 | 2.41   | 1.98 | 0.99    | 1.27 | 1.34   | 1.15 | 1.51   | 1.19 |
| 16.02.2011         | 4.25    | 4.01 | 4.71   | 4.29 | 3.08   | 3.16 | 1.99    | 2.17 | 1.77   | 1.99 | 2.16   | 2.48 | 2.53    | 2.55 | 1.88   | 2.31 | 2.14   | 2.05 | 3.03    | 3.07 | 3.46   | 3.64 | 3.85   | 3.50 | 2.15    | 2.66 | 3.13   | 2.61 | 2.71   | 2.82 |
| 21.02.2011         | 5.54    | 5.50 | 7.53   | 7.03 | 6.23   | 6.46 | 2.96    | 2.69 | 2.33   | 2.19 | 3.33   | 2.91 | 4.43    | 4.68 | 2.84   | 2.79 | 2.92   | 2.90 | 4.76    | 4.66 | 5.40   | 5.14 | 3.97   | 3.41 | 2.90    | 2.61 | 3.18   | 2.98 | 3.26   | 3.02 |
| 25.02.2011         | 11.6    | 10.9 | 10.9   | 10.1 | 4.90   | 4.91 | 2.55    | 2.94 | 2.48   | 2.27 | 2.21   | 2.39 | 2.51    | 2.52 | 3.00   | 3.02 | 3.50   | 3.50 | 2.34    | 2.15 | 2.21   | 2.02 | 2.00   | 2.02 | 2.41    | 2.51 | 2.53   | 2.62 | 2.45   | 2.55 |
| 28.02.2011         | 14.9    | 14.4 | 20.6   | 19.3 | 20.2   | 19.1 | 1.69    | 1.81 | 1.74   | 1.62 | 1.88   | 1.83 | 1.96    | 1.78 | 1.87   | 1.73 | 1.83   | 1.83 | 1.72    | 1.43 | 1.53   | 1.45 | 1.84   | 1.68 | 1.43    | 1.20 | 1.57   | 1.60 | 1.66   | 1.59 |
| 02.03.2011         | 2.03    | 2.10 | 6.24   | 5.97 | 3.95   | 3.91 | 2.63    | 2.22 | 2.47   | 2.32 | 2.03   | 2.04 | 2.26    | 2.13 | 2.42   | 2.04 | 1.70   | 1.93 | 2.24    | 2.04 | 1.63   | 1.87 | 2.41   | 2.46 | 1.95    | 1.70 | 1.80   | 1.61 | 1.76   | 2.10 |

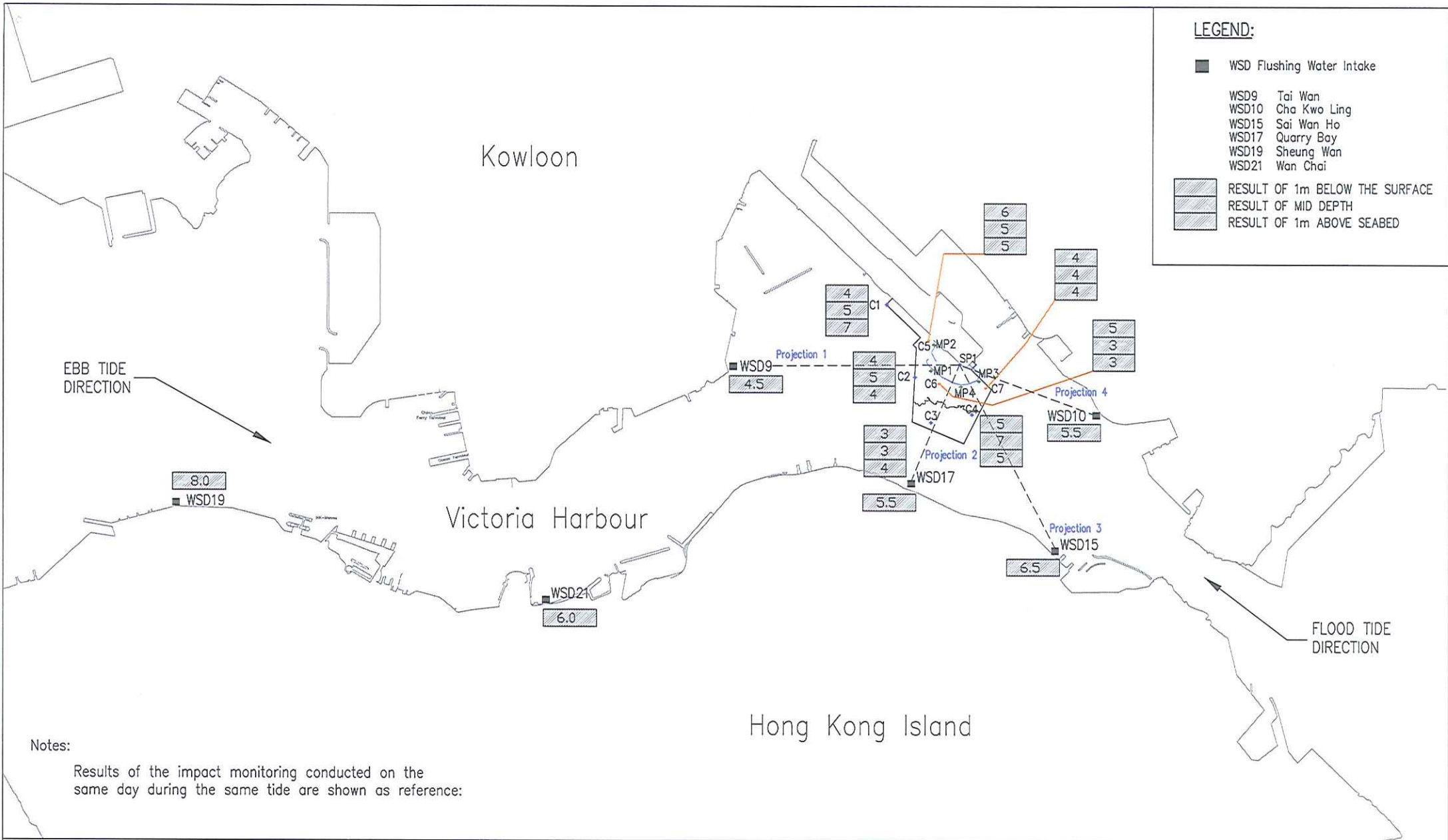
| Date of Monitoring | C5      |      |        |      |        |      | C6      |      |        |      |        |      | C7      |      |        |      |        |      |
|--------------------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|
|                    | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      |
| 07.02.2011         | 1.95    | 1.86 | 2.08   | 1.82 | 2.72   | 1.97 | 2.13    | 2.10 | 1.96   | 1.75 | 2.87   | 3.09 | 3.82    | 4.25 | 4.41   | 4.18 | 4.66   | 4.50 |
| 11.02.2011         | 2.45    | 2.49 | 2.21   | 2.03 | 2.82   | 2.87 | 1.89    | 1.57 | 2.04   | 1.78 | 2.30   | 1.90 | 1.43    | 1.53 | 1.55   | 1.25 | 1.91   | 2.04 |
| 14.02.2011         | 2.27    | 2.03 | 2.14   | 1.95 | 1.69   | 1.59 | 1.30    | 1.24 | 1.32   | 1.16 | 1.19   | 1.56 | 1.24    | 1.20 | 1.74   | 1.27 | 1.53   | 1.34 |
| 16.02.2011         | 3.65    | 3.14 | 2.99   | 3.00 | 2.80   | 2.68 | 2.68    | 2.61 | 2.69   | 2.37 | 2.71   | 3.06 | 3.25    | 3.01 | 2.52   | 2.77 | 2.49   | 3.01 |
| 21.02.2011         | 4.21    | 4.73 | 3.35   | 3.48 | 3.42   | 2.92 | 2.64    | 2.62 | 3.25   | 3.74 | 3.50   | 3.72 | 3.74    | 3.71 | 4.06   | 3.81 | 3.42   | 3.38 |
| 25.02.2011         | 2.21    | 2.30 | 3.08   | 2.78 | 3.09   | 3.07 | 2.23    | 3.01 | 2.16   | 2.12 | 2.46   | 2.33 | 2.47    | 2.38 | 2.75   | 2.83 | 3.19   | 3.00 |
| 28.02.2011         | 2.10    | 2.41 | 2.04   | 1.95 | 2.67   | 2.92 | 1.54    | 1.71 | 1.93   | 1.39 | 2.08   | 1.75 | 1.59    | 2.01 | 1.58   | 1.78 | 1.99   | 1.79 |
| 02.03.2011         | 1.81    | 1.39 | 1.79   | 1.93 | 1.82   | 1.85 | 1.83    | 1.73 | 1.52   | 1.89 | 1.53   | 1.47 | 1.76    | 1.72 | 1.41   | 1.40 | 1.86   | 1.55 |

| Date of Monitoring | C1      |      |        |      |        |      | C2      |      |        |      |        |      | C3      |      |        |      |        |      | C4      |      |        |      |        |      |  |  |  |  |  |  |
|--------------------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|---------|------|--------|------|--------|------|--|--|--|--|--|--|
|                    | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      | Surface |      | Middle |      | Bottom |      |  |  |  |  |  |  |
| 07.02.2011         | 3.07    | 3.18 | 2.42   | 2.26 | 3.67   | 3.15 | 2.18    | 2.32 | 1.98   | 2.36 | 1.73   | 1.64 | 2.31    | 2.38 | 2.15   | 2.28 | 2.64   | 2.20 | 1.81    | 1.83 | 2.17   | 2.12 | 1.88   | 2.12 |  |  |  |  |  |  |
| 11.02.2011         | 2.14    | 1.95 | 1.68   | 1.64 | 1.67   | 1.57 | 3.89    | 3.72 | 1.85   | 1.88 | 1.57   | 1.81 | 1.21    | 1.38 | 2.91   | 2.51 | 2.04   | 1.95 | 1.33    | 1.17 | 1.96   | 1.70 | 2.08   | 2.50 |  |  |  |  |  |  |
| 14.02.2011         | 2.50    | 2.20 | 1.72   | 1.85 | 1.54   | 1.71 | 1.21    | 1.03 | 1.08   | 1.11 | 0.81   | 0.95 | 1.54    | 1.21 | 1.36   | 1.95 | 1.13   | 1.31 | 1.54    | 1.38 | 2.00   | 1.32 | 1.63   | 1.46 |  |  |  |  |  |  |
| 16.02.2011         | 2.94    | 2.16 | 2.65   | 2.71 | 3.08   | 3.21 | 2.65    | 2.69 | 2.34   | 2.42 | 2.49   | 2.36 | 3.43    | 3.82 | 3.40   | 3.94 | 3.35   | 3.45 | 2.61    | 2.37 | 2.16   | 2.25 | 2.52   | 2.53 |  |  |  |  |  |  |
| 21.02.2011         | 2.53    | 2.44 | 3.30   | 3.07 | 2.71   | 2.72 | 2.44    | 2.25 | 3.10   | 2.94 | 3.62   | 3.44 | 3.34    | 3.33 | 3.95   | 3.41 | 5.92   | 6.36 | 3.35    | 3.03 | 3.37   | 3.11 | 2.61   | 2.77 |  |  |  |  |  |  |
| 25.02.2011         | 2.01    | 2.02 | 2.02   | 2.46 | 2.63   | 2.59 | 1.73    | 2.15 | 2.34   | 2.44 | 4.65   | 3.81 | 2.01    | 1.94 | 1.74   | 1.79 | 2.11   | 2.43 | 1.50    | 1.81 | 2.22   | 2.15 | 2.58   | 2.64 |  |  |  |  |  |  |
| 28.02.2011         | 1.74    | 1.70 | 1.59   | 1.61 | 2.06   | 2.17 | 2.45    | 2.74 | 2.43   | 2.24 | 2.02   | 2.21 | 1.66    | 1.59 | 1.38   | 1.26 | 1.75   | 2.01 | 1.54    | 1.52 | 1.48   | 1.42 | 1.81   | 1.91 |  |  |  |  |  |  |
| 02.03.2011         | 2.26    | 2.48 | 1.96   | 1.62 | 2.11   | 1.95 | 2.35    | 1.93 | 1.95   | 2.09 | 1.85   | 2.28 | 1.78    | 1.58 | 1.28   | 1.36 | 1.28   | 1.28 | 2.34    | 2.17 | 3.33   | 3.60 | 2.43   | 2.74 |  |  |  |  |  |  |
| 99 percentile      | 3.2     |      | 3.3    |      | 3.6    |      | 3.9     |      | 3.1    |      | 4.5    |      | 3.8     |      | 3.9    |      | 6.3    |      | 3.3     |      | 3.6    |      | 2.8    |      |  |  |  |  |  |  |

Trigger Levels\* for Seawall Removal measured at all depths for all season

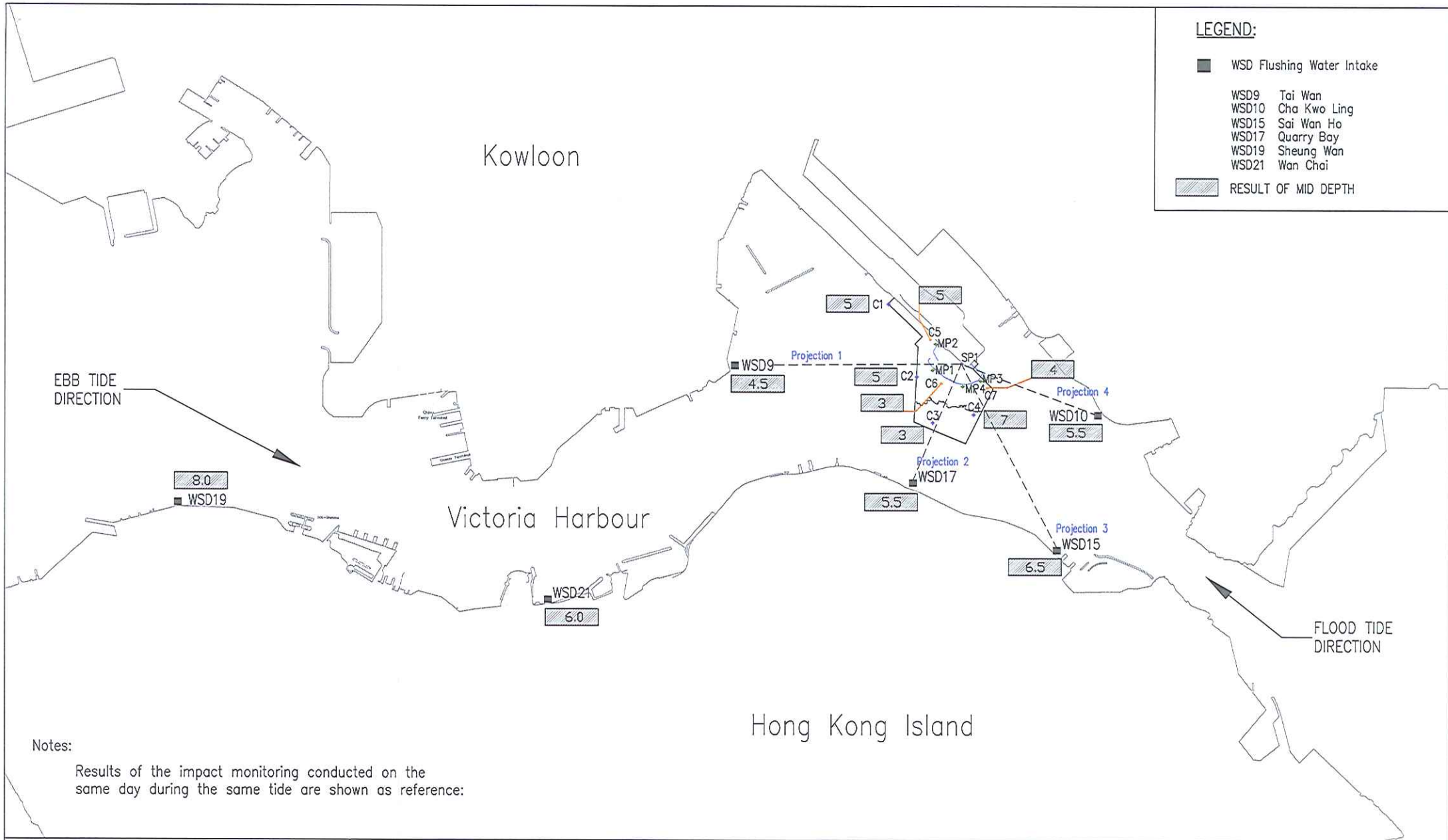
| Control Point | Trigger Level in NTU for All Season |
|---------------|-------------------------------------|
| C1            | 12.3 for Flood Tide                 |
| C2            | 12.3 for Flood Tide                 |
| C3            | 16.9                                |
| C4            | 10.5 for Ebb Tide                   |

\*99 percentile of the monitoring results OR 12.3 for C1 and C2 (limit level of WSD9); 16.9 for C3 (limit level of WSD17); 10.5 for C4 (limit level of WSD10), whichever is higher



|  |  |                       |                       |
|--|--|-----------------------|-----------------------|
| PROJECT<br>KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development |  | DATE<br>11-Mar-11     | PREPARED BY<br>PY     |
| TITLE<br>WATER QUALITY SURVEILLANCE SYSTEM - ( 2 MAR 2011 Flood ) - Page 1   |  | SCALE<br>NOT TO SCALE | SKETCH No.<br>SK-0492 |





**LEGEND:**

- WSD Flushing Water Intake
- WSD9 Tai Wan
- WSD10 Cha Kwo Ling
- WSD15 Sai Wan Ho
- WSD17 Quarry Bay
- WSD19 Sheung Wan
- WSD21 Wan Chai
- ▨ RESULT OF MID DEPTH

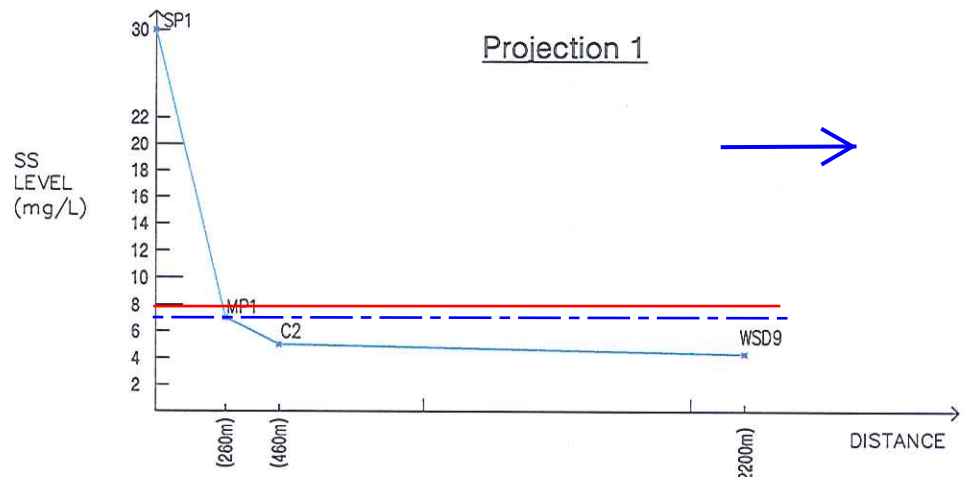
Notes:  
 Results of the impact monitoring conducted on the same day during the same tide are shown as reference:



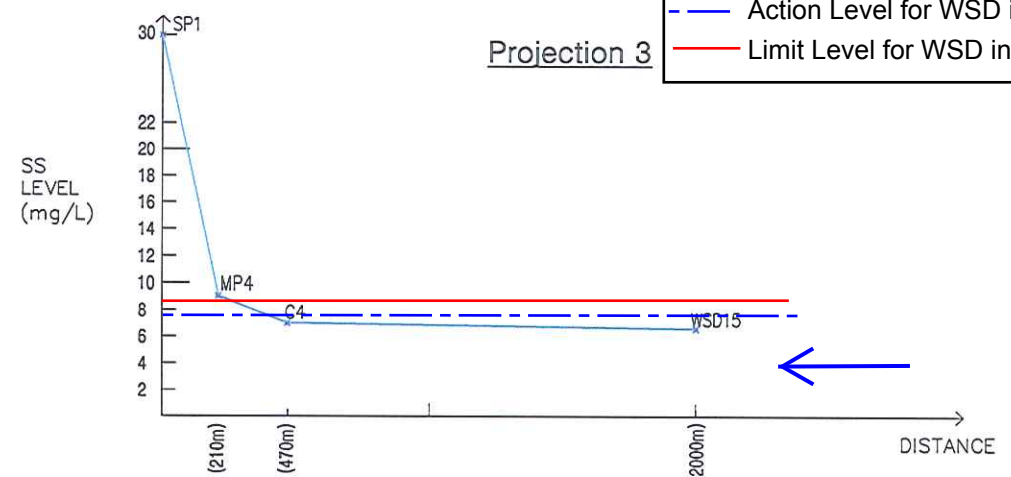
|   |  |                       |
|---|--|-----------------------|
| PROJECT<br><b>KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development</b> | DATE<br>11-Mar-11  | PREPARED BY<br>PY     |
|   | TITLE<br>WATER QUALITY SURVEILLANCE SYSTEM - ( 2 MAR 2011 FLOOD ) - Page 2 | SCALE<br>NOT TO SCALE |

**Legend**

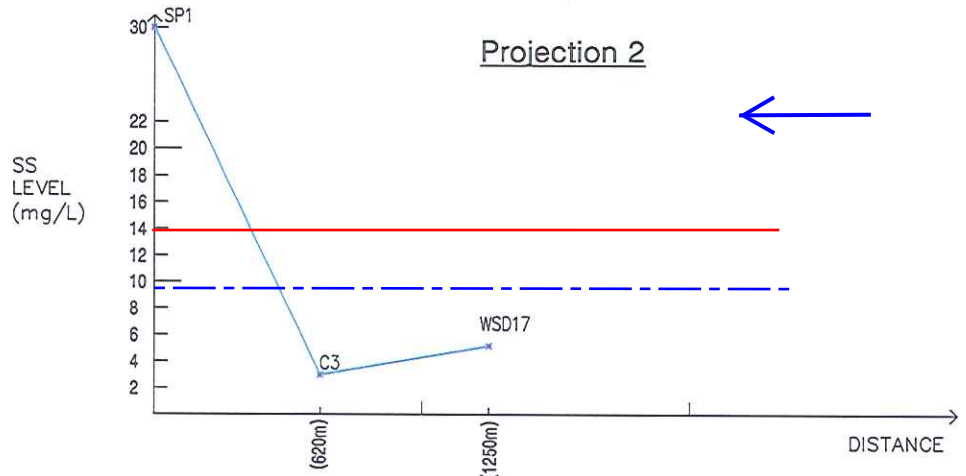
- Tidal Direction
- - - Action Level for WSD intake
- Limit Level for WSD intake



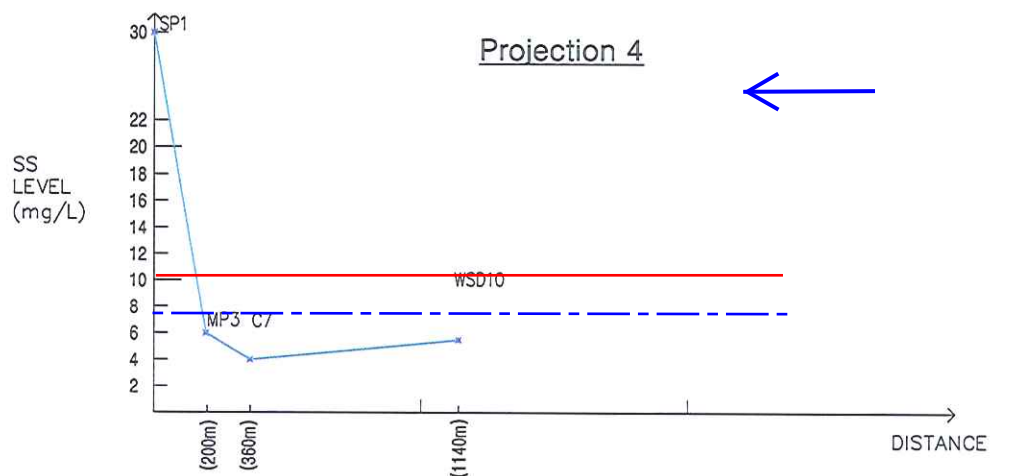
Description: WSD9 was located at downstream which had a SS level below SP1, MP3 and Control Point. The value is well within the Action Level.



Description: WSD15 was located at upstream which had the lowest SS level to Control Point - C2.



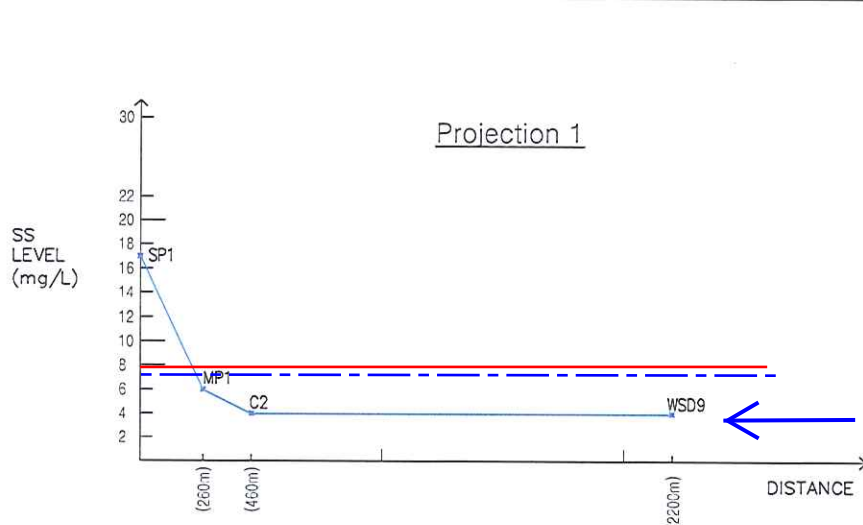
Description: WSD17 was located at upstream which was well within the Action Level.



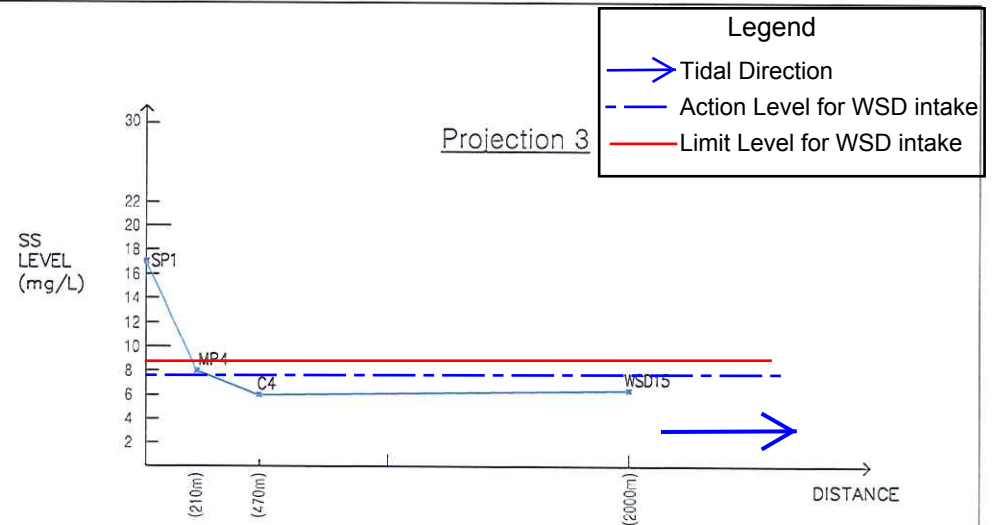
Description: WSD10 was located at upstream which had a similar SS level to Control Point - C7.



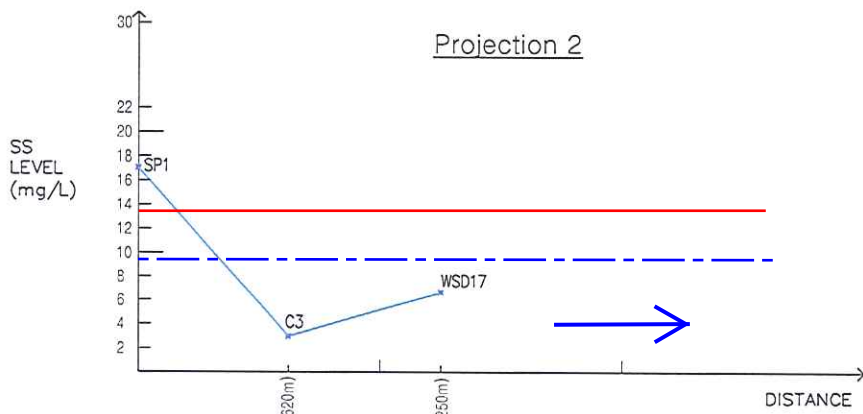
|   |                       |                       |
|---|-----------------------|-----------------------|
| PROJECT<br>KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development  |                       |                       |
| TITLE<br>GRAPHICAL PRESENTATION OF THE WATER QUALITY SURVEILLANCE SYSTEM MONITORING RESULTS AT MID DEPTH - (2 MAR 2011 FLOOD) | DATE<br>11-Mar-11     | PREPARED BY<br>PY     |
|   | SCALE<br>NOT TO SCALE | SKETCH No.<br>SK-0494 |



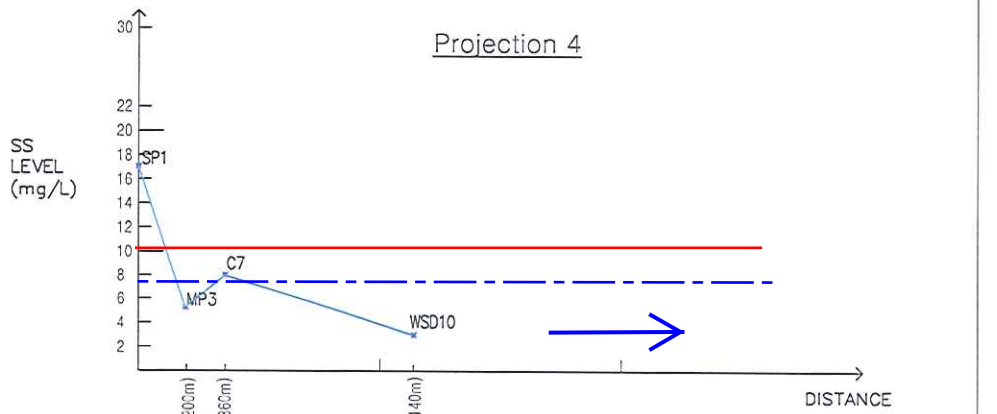
Description: WSD9 was located at upstream which had a similar SS level to Control Point - C2.



Description: WSD15 was located at downstream which had a SS level below SP1 and MP3 . The SS value was similar to Control Point - C4 and well within the Action Level.



Description: WSD17 was located at downstream which had a SS level below SP1 and well within the Action Level.



Description: WSD10 was located at downstream which had a SS level below SP1, MP3 and Control Point-C7.



PROJECT  
KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development

TITLE  
GRAPHICAL PRESENTATION OF THE WATER  
QUALITY SURVEILLANCE SYSTEM MONITORING  
RESULTS AT MID DEPTH - (18 MAR 2011 FLOOD)

DATE  
29-Mar-11

PREPARED BY  
PY

SCALE  
NOT TO SCALE

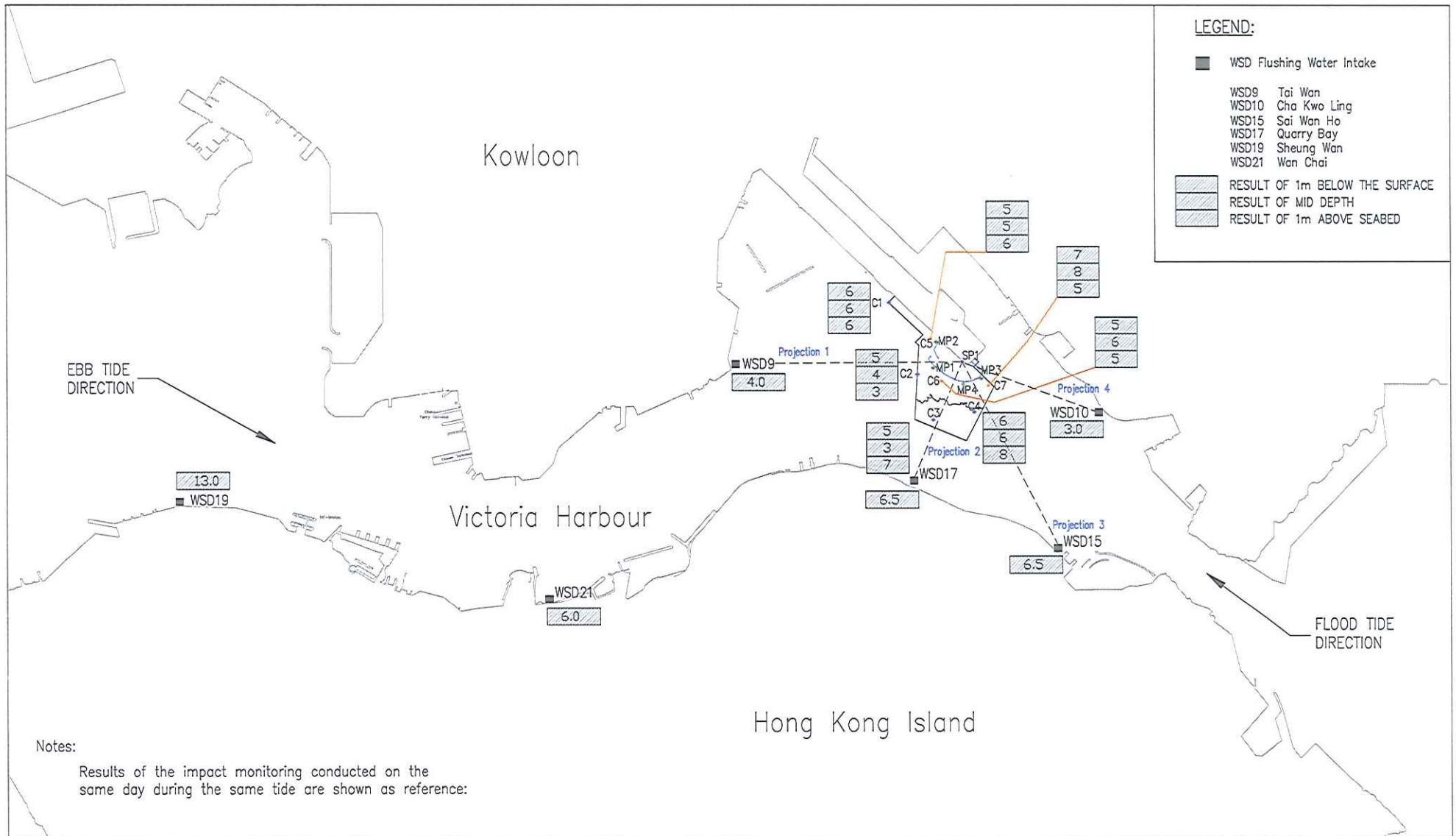
SKETCH No.  
SK-0502



Water Quality Surveillance System Monitoring Results - 18 March 2011 (Flood Tide)

| Monitoring Location |                      | Turbidity in NTU | Compare to Trigger Level | Suspended Solids in mg/L | Compare to Trigger Level |
|---------------------|----------------------|------------------|--------------------------|--------------------------|--------------------------|
| SP1                 | 1m below the surface | 5.88             | N/A                      | 39                       | N/A                      |
|                     | mid depth            | 34.35            | N/A                      | 17                       | N/A                      |
|                     | 1m above the seabed  | 242.50           | N/A                      | 454                      | N/A                      |
| MP1                 | 1m below the surface | 4.26             | N/A                      | 17                       | N/A                      |
|                     | mid depth            | 3.19             | N/A                      | 6                        | N/A                      |
|                     | 1m above the seabed  | 4.09             | N/A                      | 4                        | N/A                      |
| MP2                 | 1m below the surface | 2.62             | N/A                      | 14                       | N/A                      |
|                     | mid depth            | 2.23             | N/A                      | 4                        | N/A                      |
|                     | 1m above the seabed  | 2.51             | N/A                      | 5                        | N/A                      |
| MP3                 | 1m below the surface | 2.96             | N/A                      | 4                        | N/A                      |
|                     | mid depth            | 2.50             | N/A                      | 5                        | N/A                      |
|                     | 1m above the seabed  | 2.71             | N/A                      | 7                        | N/A                      |
| MP4                 | 1m below the surface | 3.02             | N/A                      | 6                        | N/A                      |
|                     | mid depth            | 2.51             | N/A                      | 8                        | N/A                      |
|                     | 1m above the seabed  | 2.15             | N/A                      | 10                       | N/A                      |
| C1                  | 1m below the surface | 2.39             | <b>Lower</b>             | 6                        | <b>Lower</b>             |
|                     | mid depth            | 3.01             | <b>Lower</b>             | 6                        | <b>Lower</b>             |
|                     | 1m above the seabed  | 1.93             | <b>Lower</b>             | 6                        | <b>Lower</b>             |
| C2                  | 1m below the surface | 1.94             | <b>Lower</b>             | 5                        | <b>Lower</b>             |
|                     | mid depth            | 1.95             | <b>Lower</b>             | 4                        | <b>Lower</b>             |
|                     | 1m above the seabed  | 2.08             | <b>Lower</b>             | 3                        | <b>Lower</b>             |
| C3                  | 1m below the surface | 2.14             | <b>Lower</b>             | 5                        | <b>Lower</b>             |
|                     | mid depth            | 2.37             | <b>Lower</b>             | 3                        | <b>Lower</b>             |
|                     | 1m above the seabed  | 2.80             | <b>Lower</b>             | 7                        | <b>Lower</b>             |
| C4                  | 1m below the surface | 2.45             | N/A                      | 6                        | N/A                      |
|                     | mid depth            | 2.55             | N/A                      | 6                        | N/A                      |
|                     | 1m above the seabed  | 2.59             | N/A                      | 8                        | N/A                      |
| C5                  | 1m below the surface | 2.64             | N/A                      | 5                        | N/A                      |
|                     | mid depth            | 2.53             | N/A                      | 5                        | N/A                      |
|                     | 1m above the seabed  | 2.69             | N/A                      | 6                        | N/A                      |
| C6                  | 1m below the surface | 2.85             | N/A                      | 5                        | N/A                      |
|                     | mid depth            | 2.89             | N/A                      | 6                        | N/A                      |
|                     | 1m above the seabed  | 3.31             | N/A                      | 5                        | N/A                      |
| C7                  | 1m below the surface | 3.25             | N/A                      | 7                        | N/A                      |
|                     | mid depth            | 3.84             | N/A                      | 8                        | N/A                      |
|                     | 1m above the seabed  | 3.60             | N/A                      | 5                        | N/A                      |

| Control Point | Trigger Level for Turbidity in NTU for All Season | Trigger Level for SS in mg/L for Dry Season |
|---------------|---|---|
| C1            | 12.3 for Flood Tide                               | 14  |
| C2            | 12.3 for Flood Tide                               |   |
| C3            | 16.9  |   |
| C4            | 10.5 for Ebb Tide                                 |   |



PROJECT  
KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development

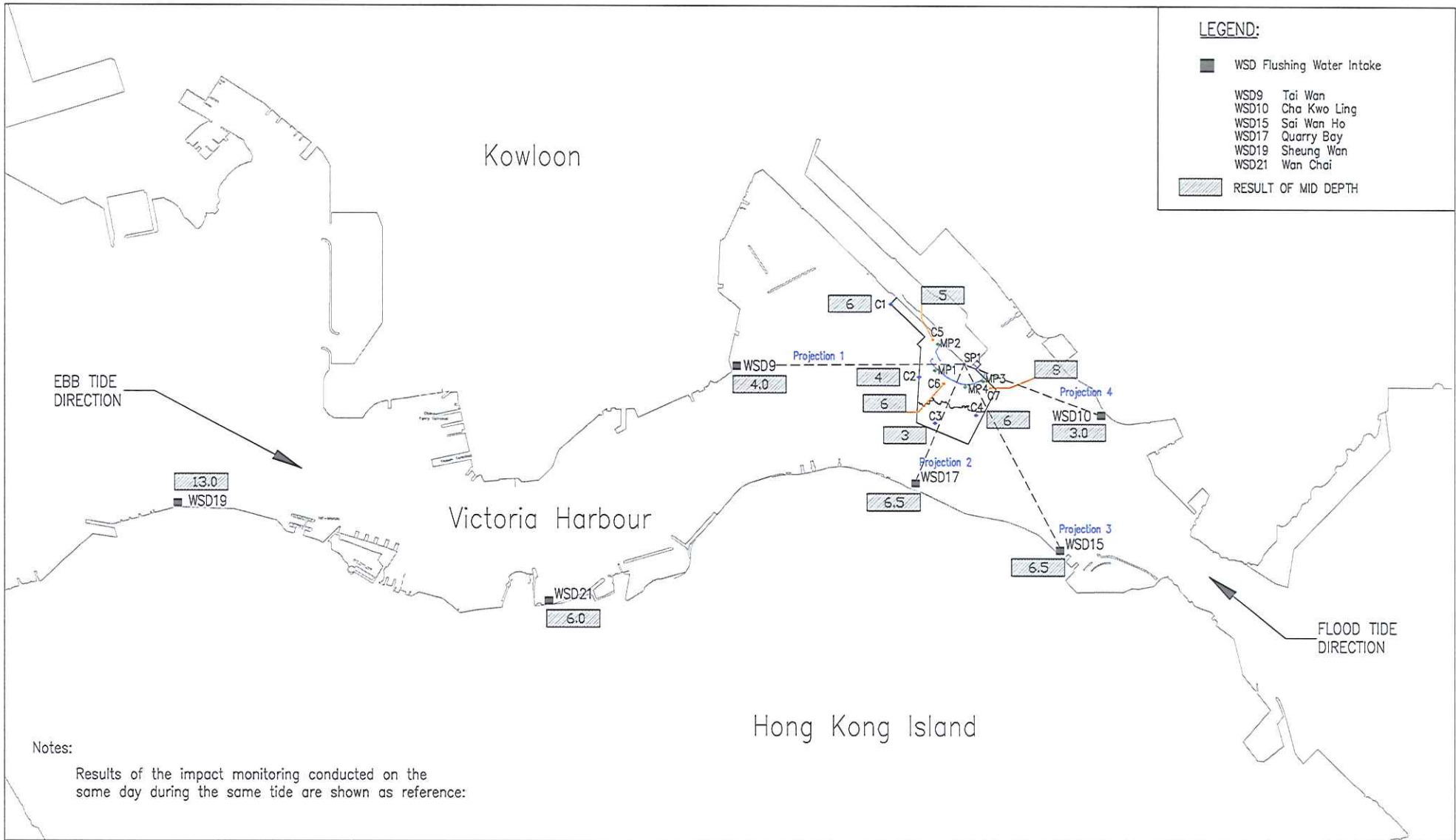
TITLE  
WATER QUALITY SURVEILLANCE SYSTEM - ( 18 MAR 2011 Flood ) - Page 1

DATE  
29-Mar-11

PREPARED BY  
PY

SCALE  
NOT TO SCALE

SKETCH No.  
SK-0500



**LEGEND:**

- WSD Flushing Water Intake
- WSD9 Tai Wan
- WSD10 Cha Kwo Ling
- WSD15 Sai Wan Ho
- WSD17 Quarry Bay
- WSD19 Sheung Wan
- WSD21 Wan Chai
- ▨ RESULT OF MID DEPTH

Notes:  
 Results of the impact monitoring conducted on the same day during the same tide are shown as reference:



PROJECT  
**KL/2009/01 Site Formation for Kai Tak Cruise Terminal Development**

TITLE  
 WATER QUALITY SURVEILLANCE SYSTEM - ( 18 MAR 2011 FLOOD ) - Page 2

DATE  
 29-Mar-11

PREPARED BY  
 PY

SCALE  
 NOT TO SCALE

SKETCH No.  
 SK-0501



***Appendix 5.7***

***Details of Notification of Exceedances***



Summary for Notification of Exceedance

| Ref no. | Date     | Tidal     | Location | Parameters (Unit) | Average | Action Level | Limit Level | Level of Exceedance | Follow-up action  |
|---------|----------|-----------|----------|-------------------|---------|--------------|-------------|---------------------|---|
| X144    | 4-Mar-11 | Mid-flood | WSD10    | SS (mg/L)         | 9.5     | 7.7          | 10.3        | Action Level        | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring;<br/>Potential source of impact was recorded; no sign of traceable source was identified;</p> <p>Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD10 and not related to the project work.</p> <p>Possible reason: It is concluded that the source of impact was due to natural variation or change around WSD10 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p> |
| X145    | 4-Mar-11 | Mid-flood | WSD15    | SS (mg/L)         | 9.0     | 7.8          | 8.4         | Limit Level         | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring;<br/>Potential source of impact was recorded; no sign of traceable source was identified;</p> <p>Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD15 and not related to the project work.</p> <p>Possible reason: It is concluded that the source of impact was due to natural variation or change around WSD15 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p> |
| X146    | 4-Mar-11 | Mid-ebb   | WSD15    | SS (mg/L)         | 9.5     | 7.8          | 8.4         | Limit Level         | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring;<br/>Potential source of impact was recorded; no sign of traceable source was identified;</p> <p>Comparing with the monitoring station wsd15, no exceedance was recorded in WSD17 which is the closest monitoring station to the site works. It is concluded as not related Project. ; Contractor's dredging rate was complied with EP's condition</p> <p>Possible reason: It is concluded that the source of impact was due to natural variation or change around WSD15 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p>                    |





Summary for Notification of Exceedance

| Ref no. | Date      | Tidal     | Location | Parameters (Unit) | Average | Action Level | Limit Level | Level of Exceedance | Follow-up action  |
|---------|-----------|-----------|----------|-------------------|---------|--------------|-------------|---------------------|---|
| X147    | 7-Mar-11  | Mid-ebb   | WSD17    | SS (mg/L)         | 11.0    | 9.5          | 13.7        | Action Level        | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring;<br/>Potential source of impact was recorded; no sign of traceable source was identified;</p> <p>Possible reason: Checked monitoring data, No exceedance was recorded in the consecutive water monitoring ; Contractor's dredging rate was complied with EP's condition<br/>It is concluded that the source of impact was due to natural variation or change around WSD17 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p>   |
| X148    | 18-Mar-11 | Mid-flood | WSD15    | SS (mg/L)         | 9.0     | 7.8          | 8.4         | Limit Level         | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring; Any abnormal observation should be recorded, but no sign of traceable source was visualized and identified during monitoring;<br/>The trend of SS level against tidal movement along Victoria Harbour was reviewed, All stations in downstream were below the Action Levels.<br/>The SS level is below the upper bound of the natural variation (14mg/L at WSD15) which is determined from the Supplementary to Baseline Water Quality Monitoring Report</p> <p>Possible reason: The weather was rainy during the monitoring and the Observatory recorded approximate 5mm daily rainfall in the area of the station. No sign of traceable source was identified during monitoring; Since WSD15 was located at the upstream of the Project, it is definitely not causing from the Project works and may cause from the rainfall runoff or influences in the vicinity of the station. It is concluded that the source of impact was due to variation or change around WSD15 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p>  |
| X149    | 18-Mar-11 | Mid-flood | WSD17    | SS (mg/L)         | 10.5    | 9.5          | 13.7        | Action Level        | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring; Any abnormal observation should be recorded, but no sign of traceable source was visualized and identified during monitoring;<br/>The trend of SS level against tidal movement along Victoria Harbour was reviewed, All stations in downstream were below the Action Levels.<br/>The SS level is below the upper bound of the natural variation (16mg/L at WSD17) which is determined from the Supplementary to Baseline Water Quality Monitoring Report.</p> <p>Possible reason: The weather was rainy during the monitoring and the Observatory recorded approximate 5mm daily rainfall in the area of the station. No sign of traceable source was identified during monitoring; Since WSD17 was located at the upstream of the Project, it is definitely not causing from the Project works and may cause from the rainfall runoff or influences in the vicinity of the station. It is concluded that the source of impact was due to variation or change around WSD17 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p> |



Summary for Notification of Exceedance

| Ref no. | Date      | Tidal     | Location | Parameters (Unit) | Average | Action Level | Limit Level | Level of Exceedance | Follow-up action   |
|---------|-----------|-----------|----------|-------------------|---------|--------------|-------------|---------------------|--|
| X150    | 21-Mar-11 | Mid-flood | WSD10    | SS (mg/L)         | 8.0     | 7.7          | 10.3        | Action Level        | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring. Any abnormal observation should be recorded, but no sign of traceable source was visualized and identified during monitoring. The trend of SS level against tidal movement along Victoria Harbour was reviewed. All downstream stations were below the Action Levels. The SS level is below the upper bound of the natural variation (19mg/L at WSD10) which is determined from the Supplementary to Baseline Water Quality Monitoring Report.</p> <p>Possible reason: No sign of traceable source was identified during monitoring. Since WSD10 was located at the upstream of the Project, it is definitely not causing from the Project works and may cause from the influences in the vicinity of the station. It is concluded that the source of impact was due to variation or change around WSD10 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p>    |
| X151    | 21-Mar-11 | Mid-flood | WSD15    | SS (mg/L)         | 8.0     | 7.8          | 8.4         | Action Level        | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring. Any abnormal observation should be recorded, but no sign of traceable source was visualized and identified during monitoring. The trend of SS level against tidal movement along Victoria Harbour was reviewed. All stations in downstream were below the Action Levels. The SS level is below the upper bound of the natural variation (14mg/L at WSD15) which is determined from the Supplementary to Baseline Water Quality Monitoring Report.</p> <p>Possible reason: No sign of traceable source was identified during monitoring. Since WSD15 was located at the upstream of the Project, it is definitely not causing from the Project works and may cause from the influences in the vicinity of the station. It is concluded that the source of impact was due to variation or change around WSD15 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p> |



Summary for Notification of Exceedance

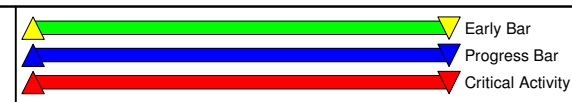
| Ref no. | Date      | Tidal     | Location | Parameters (Unit) | Average | Action Level | Limit Level | Level of Exceedance | Follow-up action   |
|---------|-----------|-----------|----------|-------------------|---------|--------------|-------------|---------------------|--|
| X152    | 23-Mar-11 | Mid-ebb   | WSD15    | SS (mg/L)         | 8.0     | 7.8          | 8.4         | Action Level        | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring. Any abnormal observation should be recorded, but no sign of traceable source was visualized and identified during monitoring. The trend of SS level against tidal movement along Victoria Harbour was reviewed. Compared with other downstream stations nearer to the site, no exceedance at WSD10 (5.0mg/L) &amp; WSD17(8.5mg/L) were recorded and the SS values are equal or lower than WSD15. It is concluded that exceedance at WSD15 is a localized impact and not due to the Project works. Checked that the SS level is below the upper bound of the natural variation (14mg/L at WSD15) which is determined from the Supplementary to Baseline Water Quality Monitoring Report.</p> <p>Possible reason: No sign of traceable source was identified during monitoring. Since WSD15 was the farthest station to the Project and no recorded exceedances at WSD10 &amp; WSD17 in the downstream, it is unlikely causing from the Project works and may cause from the influences in the vicinity of the station. It is concluded that the source of impact was due to variation or change around WSD15 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p> |
| X153    | 29-Mar-11 | Mid-flood | WSD15    | SS (mg/L)         | 8.0     | 7.8          | 8.4         | Action Level        | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring. Any abnormal observation should be recorded, but no sign of traceable source was visualized and identified during monitoring. The trend of SS level against tidal movement along Victoria Harbour was reviewed, All stations in downstream were below the Action Levels. The SS level is below the upper bound of the natural variation (14mg/L at WSD15) as per the Supplementary to Baseline Water Quality Monitoring Report.</p> <p>Possible reason: No sign of traceable source was identified during monitoring. Since WSD15 was located at the upstream of the Project, it is definitely not caused by the Project works and may be due to influences in the vicinity of the station. It is concluded that the source of impact was due to variation or change around WSD15 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p>   |
| X154    | 31-Mar-11 | Mid-flood | WSD15    | SS (mg/L)         | 8.5     | 7.8          | 8.4         | Limit Level         | <p>Action taken / to be taken: Silt screen was inspected and confirmed in a proper condition during the water monitoring. Any abnormal observation should be recorded, but no sign of traceable source was visualized and identified during monitoring. The trend of SS level against tidal movement along Victoria Harbour was reviewed, All stations in downstream were below the Action Levels. SS level at WSD15 has been kept at around 7-9mg/L during flood tides which was located at upstream of Project from 18 March to 31 Mar 2011. The SS level is below the upper bound of the natural variation (14mg/L at WSD15) as per the Supplementary to Baseline Water Quality Monitoring Report.</p> <p>Possible reason: No sign of traceable source was identified during monitoring. Since WSD15 was located at the upstream of the Project, it is definitely not caused by the Project works and may be due to influences in the vicinity of the station. It is concluded that the source of impact was due to variation or change around WSD15 and not related to the project work.</p> <p>Remarks / Other Obs: Conclude as non-dredging related impact and hence no further mitigation nor repeated measurement under the EAP is required.</p>   |



***Appendix 9.0***

***Construction Programme***

| Activity ID  | Activity Description                             | Orig Dur | Early Start | Late Start | Early Finish | Late Finish | Total Float | Free Float | 2011 |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
|--|--|----------|-------------|------------|--------------|-------------|-------------|------------|------|----|-----|----|----|----|-----|----|----|-----|---|---|----|----|----|--|--|--|--|
|  |  |          |             |            |              |             |             |            | FEB  |    | MAR |    |    |    | APR |    |    | MAY |   |   | J  |    |    |  |  |  |  |
|  |  |          |             |            |              |             |             |            | 21   | 28 | 7   | 14 | 21 | 28 | 4   | 11 | 18 | 25  | 2 | 9 | 16 | 23 | 30 |  |  |  |  |
| <b>Site Formation KT Cruise Terminal Development</b>     |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Contract Period</b>                                   |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| PD1100   | Contract Period                                  | 1,486    | 30/11/09*   | 30/11/09*  | 24/12/13     | 24/12/13    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Preliminaries &amp; General Requirements</b>          |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Temporary Accommodation</b>                           |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| TA1060   | Servicing of Temp Accommodation for the Engineer | 1,406    | 28/01/10    | 18/02/10   | 03/12/13     | 24/12/13    | 21          | 21         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| TA1070   | Maintenance of Traffic Flow                      | 1,344    | 28/02/10    | 21/04/10   | 02/11/13     | 24/12/13    | 52          | 52         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Environmental and Site Safety Monitoring</b>          |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| ES1050   | Monthly Update of SSP & EMP                      | 1,422    | 07/12/09    | 02/02/10   | 28/10/13     | 24/12/13    | 57          | 57         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| ES1110   | Impact Monitoring for Water Quality              | 1,380    | 05/02/10    | 16/03/10   | 15/11/13     | 24/12/13    | 39          | 39         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| ES1125   | Maintenance of Silt Screen at WSD Intakes        | 1,380    | 31/01/10    | 16/03/10   | 10/11/13     | 24/12/13    | 44          | 44         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Mobilization &amp; Site Clearance</b>                 |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| MP1020   | Routine Site Cleanliness and Tidiness            | 1,484    | 30/11/09    | 02/12/09   | 22/12/13     | 24/12/13    | 2           | 2          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| MP1060   | Disposal of Surplus C&D Material                 | 695      | 10/03/10    | 30/01/12   | 02/02/12     | 24/12/13    | 691         | 691        |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| MP1070   | Primary Sorting of C&D Material                  | 1,200    | 26/03/10    | 12/09/10   | 07/07/13     | 24/12/13    | 170         | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Sorting of C&amp;D Material</b>                       |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SM1000   | Bay SDA - Sorting and Mixing C&D Material        | 100      | 25/11/10    | 08/04/11   | 04/03/11     | 16/07/11    | 134         | 116        |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SM1010   | Bay A - Sorting and Mixing C&D Material          | 100      | 06/02/11    | 25/02/11   | 16/05/11     | 04/06/11    | 19          | 19         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Preparatory Works</b>                                 |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Procurement of Material</b>                           |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Procurement of Material for Temporary Work</b>        |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| PW.1.1020  | Bay D - Sheet piles and Steel Section            | 0        | 27/01/11    | 01/04/11   |              |             | 64          | 14         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Production of Precast Units</b>                       |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Precast Front Panel (PFP) along Pipe/Pile Wall</b>    |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| PW.2.1065  | Bay D - Infront of Portion Delivery              | 0        | 10/02/11    | 29/04/11   |              |             | 78          | 28         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Precast Concrete Block (PCB) for Seawall</b>          |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| PW.3.1000  | Preparation for Offsite Fabrication of PCB       | 60       | 12/12/10    | 02/03/12   | 09/02/11     | 30/04/12    | 446         | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| PW.3.1010  | Portion SDA                                      | 56       | 10/02/11    | 18/06/12   | 06/04/11     | 12/08/12    | 494         | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Section 1 - Portion MQ1</b>                           |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Portion MQ1 (Bays A - B)</b>                          |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Piling Work</b>                                       |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Installation of PFP (Precast Front Panels)</b>        |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2420  | Bay A - Construction of Capping Beam             | 28       | 29/12/10    | 29/12/10   | 25/01/11     | 25/01/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2440  | Bay B - Installation of PFP & Infill Concrete    | 35       | 20/12/10    | 20/12/10   | 23/01/11     | 23/01/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2460  | Bay B - Construction of Capping Beam             | 28       | 17/01/11    | 17/01/11   | 13/02/11     | 13/02/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Temp. Piling Bracing</b>                              |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2600  | Bay A - Excavation up to Temp. Bracing Level     | 14       | 16/01/11    | 16/01/11   | 29/01/11     | 29/01/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2610  | Bay A - Install Temp. Bracing & Supportings      | 21       | 30/01/11    | 30/01/11   | 19/02/11     | 19/02/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2620  | Bay B - Excavation up to Temp. Bracing Level     | 14       | 14/02/11    | 14/02/11   | 27/02/11     | 27/02/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2630  | Bay B - Install Temp. Bracing & Supportings      | 21       | 28/02/11    | 28/02/11   | 20/03/11     | 20/03/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Dredging Work &amp; Removal of Existing Seawall</b>   |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2900  | Install Silt Curtain System (Bay A)              | 7        | 30/01/11    | 30/01/11   | 05/02/11     | 05/02/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.2910  | Install Silt Curtain System (Bay B)              | 7        | 28/02/11    | 28/02/11   | 06/03/11     | 06/03/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.3000  | Bay A - Remove Existing Seawall Armour (4500m3)  | 21       | 06/02/11    | 06/02/11   | 26/02/11     | 26/02/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.1.3010  | Bay A-Remove Existing Seawall Rockfill (16500m3) | 35       | 20/02/11    | 20/02/11   | 26/03/11     | 26/03/11    | 0           | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Section 2 - Portions MQ2, LS1, LS2, SDA &amp; DZA</b> |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Portion MQ2 (Bays C - G), LS1 &amp; LS2</b>           |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Piling Work (Bays C - G, LS1 &amp; LS2)</b>           |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Pipe Pile for Quay Structure</b>                      |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.1260  | Bay G - Driving Piles (33 nos.)                  | 42       | 25/12/10    | 03/04/11   | 04/02/11     | 14/05/11    | 99          | 54         |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.1300  | Bay D - Infill Concrete (33 nos.)                | 37       | 21/12/10    | 11/01/11   | 26/01/11     | 16/02/11    | 21          | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.1310  | Bay E - Infill Concrete (33 nos.)                | 41       | 27/01/11    | 17/02/11   | 08/03/11     | 29/03/11    | 21          | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Precast Front Panels (PFP) &amp; Capping Beam</b>     |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.1505  | Bay C -Installation of PFP & Infill Concrete     | 35       | 04/01/11    | 27/02/11   | 07/02/11     | 02/04/11    | 54          | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.1515  | Bay C - Construction of Capping Beam             | 28       | 01/02/11    | 27/03/11   | 28/02/11     | 23/04/11    | 54          | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.1520  | Bay D - ELS for PFP                              | 14       | 27/01/11    | 18/03/11   | 09/02/11     | 31/03/11    | 50          | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.1525  | Bay D -Installation of PFP & Infill Concrete     | 35       | 10/02/11    | 01/04/11   | 16/03/11     | 05/05/11    | 50          | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| <b>Temp. Piling Bracing</b>                              |  |          |             |            |              |             |             |            |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |
| SW.2.2500  | Bay C - Excavate Down to Bracing Level           | 14       | 19/02/11    | 14/04/11   | 04/03/11     | 27/04/11    | 54          | 0          |      |    |     |    |    |    |     |    |    |     |   |   |    |    |    |  |  |  |  |

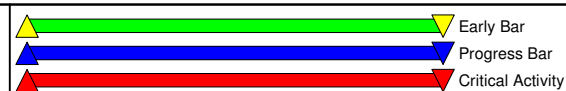


KTW P  
 Penta-Ocean Construction Co., Ltd.  
 CEDD Contract No. KL/2009/01  
 Site Formation for Kai Tak Cruise Terminal Development  
 Three Months Rolling Programme (Dec 2010- Feb 2011)

Sheet 1 of 2  
 Start Date: 30/11/09  
 Finish Date: 24/12/13  
 Date Date: 30/11/09  
 Run Date: 22/02/11 18:04

| Date     | Revision | Checked TM | Approved WT |
|----------|----------|------------|-------------|
| 02/12/10 | J        |            |             |
|          |          |            |             |
|          |          |            |             |
|          |          |            |             |

| Activity ID   | Activity Description                            | Orig Dur | Early Start | Late Start | Early Finish | Late Finish | Total Float | Free Float | 2011  |        |       |        |        |        |       |        |        |        |       |       |        |
|---|---|----------|-------------|------------|--------------|-------------|-------------|------------|---|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|-------|--------|
|   |   |          |             |            |              |             |             |            | FEB 21  | FEB 28 | MAR 7 | MAR 14 | MAR 21 | MAR 28 | APR 4 | APR 11 | APR 18 | APR 25 | MAY 2 | MAY 9 | MAY 16 |
| <b>Portion SDA (Bay SDA)</b>                                |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Precast Front Panel (PFP) &amp; Temp. Piling Bracing</b> |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.2045  | Install ELS to Maintain Access to LS1           | 14       | 12/01/11    | 11/02/11   | 27/01/11     | 26/02/11    | 20          | 5          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.2050  | Excavation up to Temp. Bracing Level (N)        | 21       | 12/01/11    | 30/01/11   | 01/02/11     | 19/02/11    | 18          | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.2060  | Installation of Temp. Bracing & Supporting (N)  | 21       | 26/01/11    | 13/02/11   | 15/02/11     | 05/03/11    | 18          | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Dredging Work &amp; Removal of Existing Seawall</b>      |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.3010  | Removal of Ext., Seawall Rockfill (13500m3) (S) | 28       | 23/12/10    | 26/03/12   | 19/01/11     | 22/04/12    | 459         | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.3020  | Excavation Within SDA (20250m3) (S)             | 35       | 06/01/11    | 09/04/12   | 09/02/11     | 13/05/12    | 459         | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.3030  | Removal of Existing Abandoned Outfall (S)       | 14       | 20/01/11    | 30/04/12   | 02/02/11     | 13/05/12    | 466         | 7          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.3039  | Install Silt Curtain (Bay SDA) (N)              | 7        | 26/01/11    | 20/02/11   | 01/02/11     | 26/02/11    | 25          | 7          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.3040  | Removal of Existing Seawall Armour (5750m3) (N) | 28       | 09/02/11    | 27/02/11   | 08/03/11     | 26/03/11    | 18          | 0          | ▼ Removal of Existing Seawall Armour (5750m3) (N) |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>New Seawall Construction</b>                             |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.4000  | Bay SDA - Filter 1 (2750m3) (S)                 | 14       | 10/02/11    | 16/10/13   | 23/02/11     | 29/10/13    | 979         | 0          | ▼ Bay SDA - Filter 1 (2750m3) (S)                 |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.4010  | Bay SDA - Filter 2 (6250m3) (S)                 | 28       | 24/02/11    | 30/10/13   | 23/03/11     | 26/11/13    | 979         | 0          | ▼ Bay SDA - Filter 2 (6250m3) (S)                 |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Concret Block Seawall</b>                                |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.21.7000  | Filters Under Seawall Blocks (SB2-SB3)          | 35       | 10/02/11    | 14/05/12   | 16/03/11     | 17/06/12    | 459         | 0          | ▼ Filters Under Seawall Blocks (SB2-SB3)          |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Portion LS1</b>  |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Pipe Pile Wall</b>                                       |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.23.530   | Bay F - Driving Piles (53 nos.)                 | 35       | 13/01/11    | 27/02/11   | 16/02/11     | 02/04/11    | 45          | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.23.535   | Bay G - Driving Piles (53 nos.)                 | 35       | 17/02/11    | 03/04/11   | 23/03/11     | 07/05/11    | 45          | 35         | ▼ Bay G - Driving Piles (53 nos.)                 |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.23.585   | Bay E - Infill Concrete (53 nos.)               | 35       | 13/01/11    | 23/01/11   | 16/02/11     | 26/02/11    | 10          | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.23.590   | Bay F - Infill Concrete (53 nos.)               | 35       | 17/02/11    | 27/02/11   | 23/03/11     | 02/04/11    | 10          | 0          | ▼ Bay F - Infill Concrete (53 nos.)               |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Portion LS2</b>  |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Pipe Pile Wall</b>                                       |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.24.505   | Bay I - Driving Piles (53 nos.)                 | 35       | 14/12/10    | 07/07/11   | 17/01/11     | 10/08/11    | 205         | 35         |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.24.525   | Bay M - Driving Piles (50 nos.)                 | 35       | 10/01/11    | 25/12/11   | 13/02/11     | 28/01/12    | 349         | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.24.530   | Bay H - Infill Concrete (53 nos.)               | 35       | 14/12/10    | 02/06/11   | 17/01/11     | 06/07/11    | 170         | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.24.535   | Bay I - Infill Concrete (53 nos.)               | 35       | 18/01/11    | 07/07/11   | 21/02/11     | 10/08/11    | 170         | 160        | ▼ Bay I - Infill Concrete (53 nos.)               |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.24.540   | Bay J - Infill Concrete (53 nos.)               | 35       | 10/01/11    | 31/08/11   | 13/02/11     | 04/10/11    | 233         | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.24.545   | Bay K - Infill Concrete (53 nos.)               | 35       | 14/02/11    | 09/10/11   | 20/03/11     | 12/11/11    | 237         | 0          | ▼ Bay K - Infill Concrete (53 nos.)               |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.24.560   | Bay NDA - Driving Piles ( 22 nos.)              | 28       | 31/01/11    | 25/03/12   | 27/02/11     | 21/04/12    | 419         | 91         | ▼ Bay NDA - Driving Piles ( 22 nos.)              |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Section 3 - Portion MQ3</b>                              |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Portion MQ3 (Bays H - I)</b>                             |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Piling Work</b>  |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Pipe Pile for Quay Structure</b>                         |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.3.1505   | Bay I - Driving Piles (33 nos.)                 | 56       | 04/01/11    | 10/05/11   | 28/02/11     | 04/07/11    | 126         | 0          | ▼ Bay I - Driving Piles (33 nos.)                 |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Section 4 - Portions MQ4, LS3, NDA &amp; DZB</b>         |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Portion MQ4 (Bays J - M) &amp; LS3</b>                   |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Piling Work (Bays J-M &amp; LS3)</b>                     |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.4.1010   | Remove Obstruction for Piles (355 nos)          | 180      | 23/07/10    | 13/03/11   | 18/01/11     | 08/09/11    | 233         | 0          |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Pipe Pile for Quay Structure</b>                         |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.4.1205   | Bay K - Driving Piles (33 nos.)                 | 56       | 04/01/11    | 18/09/11   | 28/02/11     | 12/11/11    | 257         | 0          | ▼ Bay K - Driving Piles (33 nos.)                 |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.4.1210   | Bay L - Driving Piles (33 nos.)                 | 56       | 08/02/11    | 27/10/11   | 04/04/11     | 21/12/11    | 261         | 0          | ▼ Bay L - Driving Piles (33 nos.)                 |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Portion DZB</b>  |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Dredging Work</b>  |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| SW.42.1020  | Toe Dredging - Bay H to NDA (80782m3)           | 77       | 16/11/10    | 06/10/11   | 31/01/11     | 21/12/11    | 324         | 277        |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Section 5 - Portion CA3, CA5B &amp; WA1A</b>             |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| <b>Transplanting and Tree Preservation</b>                  |   |          |             |            |              |             |             |            |   |        |       |        |        |        |       |        |        |        |       |       |        |
| LS1030  | Preservation & Protection of Existing Trees     | 1,300    | 03/05/10    | 04/05/10   | 22/11/13     | 23/11/13    | 1           | 1          |   |        |       |        |        |        |       |        |        |        |       |       |        |



KTWP

Penta-Ocean Construction Co., Ltd.

Sheet 2 of 2

CEDD Contract No. KL/2009/01  
 Site Formation for Kai Tak Cruise Terminal Development  
 Three Months Rolling Programme (Dec 2010- Feb 2011)

Start Date 30/11/09  
 Finish Date 24/12/13  
 Data Date 30/11/09  
 Run Date 22/02/11 18:04

| Date     | Revision | Checked TM | Approved WT |
|----------|----------|------------|-------------|
| 02/12/10 | J        |            |             |
|          |          |            |             |
|          |          |            |             |
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