

# China Harbour Engineering Company Limited

Contract No. HY/2010/02

# Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

# Monthly EM&A Report for August 2017

[09/2017]

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# Disclaimer

This report is prepared for China Harbour Engineering Company Limited and is given for its sole benefit in relation to and pursuant to Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities-Reclamation Works and may not be disclosed to, quoted to or relied upon by any person other than China Harbour Engineering Company Limited without our prior written consent. No person (other than China Harbour Engineering Company Limited) into whose possession a copy of this report comes may rely on this report without our express written consent and China Harbour Engineering Company Limited above.

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13 September 2017

By Fax (3698 5999) and By Post

Ove Arup & Partners Hong Kong Ltd. Chief Resident Engineer's Office 5 Ying Hei Road, Tung Chung, Lantau Hong Kong

Attention: Mr. Paul Appleton

Dear Sir,

Re: Agreement No. CE 48/2011 (EP) Environmental Project Office for the HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

#### Contract No. HY/2010/02 – HZMB HKBCF – Reclamation Works Monthly Environmental Monitoring & Audit Report for August 2017

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for August 2017 certified by the ET Leader (ET's ref.: "60249820/C/RMKY17091301" dated 13 September 2017) and provided to us via e-mail on 13 September 2017.

We are pleased to inform you that we have no further comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 of EP-353/2009/K and Condition 4.4 of EP-354/2009/D (for TM-CLKL Southern Landfall Reclamation only). Please be reminded that our verification of this report does not release any obligations under the EM&A Manual or under the applicable Environmental Permit(s) for this Project.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully, For and on behalf of Ramboll Environ Hong Kong Limited

Raymond Dai Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Wai-Ping Lee	(By Fax: 3188 6614)
	AECOM	Ms. Echo Leong	(By Fax: 2317 7609)
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# EXECUTIVE SUMMARY

Contract No. HY/2010/02 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun - Chek Lap Kok Link (TMCLKL). It is a designated Project and is governed by the current permits for the Project, i.e. the amended Environmental Permits (EPs) issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).

China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.

Ramboll Environ Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.

AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the environmental monitoring and audit (EM&A) works.

The construction phase of the Project under the EPs was commenced on 12 March 2012. The EM&A programme, including air quality, noise, water quality and dolphin monitoring and environmental site inspections, was commenced on 12 March 2012.

This report documents the findings of EM&A works conducted in the period between 1 and 31 August 2017. As informed by the Contractor, major activities in the reporting period were:-

# Marine-base

- Maintenance of localized silt curtain
- Outfall installation
- Additional GI works

#### Land-base

Maintenance works of Site Office at Works Area WA2

# A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour Total Suspended Particulates (TSP) monitoring	6 sessions
1-hour TSP monitoring	6 sessions
Noise monitoring	5 sessions
Impact water quality monitoring	12 sessions
Impact dolphin monitoring	2 surveys
Joint Environmental site inspection	4 sessions

For impact air quality monitoring, no exceedance of 1-Hour TSP or 24-Hour TSP was recorded at all monitoring stations in the reporting month.

# Breaches of Action and Limit Levels for Noise

For construction noise monitoring, no exceedance was recorded at all monitoring stations in the reporting month.

#### Breaches of Action and Limit Levels for Water Quality

For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.

#### Breaches of Action and Limit Levels for Impact Dolphin Monitoring

For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June 2017 – August 2017)

#### Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons or prosecution was received in the reporting period.

#### Reporting Change

No reporting change in this reporting month

#### Future Key Issues

Key issues to be considered in the coming month included:

- Site runoff should be properly collected and treated prior to discharge;
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
- Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
- Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
- Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
- Suppress dust generated from work processes with use of bagged cements, earth movements,
- excavation activities, exposed surfaces/soil stockpiles and haul road traffic;
- Quieter powered mechanical equipment should be used;
- Provision of proper and effective noise control measures for operating equipment and machinery on-site, such as erection of movable noise barriers or enclosure for noisy plants;
- Closely check and replace the sound insulation materials regularly;
- Better scheduling of construction works to minimize noise nuisance;
- Properly store and label oil drums and chemical containers placed on site;
- Proper chemicals, chemical wastes and wastes management;
- Maintenance works should be carried out within roofed, paved and confined areas;
- Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
- Proper protection and regular inspection of existing trees, transplanted/retained trees.
- Control night-time lighting and glare by hooding all lights.
- Regular review and provide maintenance to dust control measures such as sprinkler system

# 1 INTRODUCTION

# 1.1 Background

- 1.1.1 Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun - Chek Lap Kok Link (TMCLKL).
- 1.1.2 The environmental impact assessment (EIA) reports (Hong Kong Zhuhai Macao Bridge Hong Kong Boundary Crossing Facilities EIA Report (Register No. AEIAR-145/2009) (HKBCFEIA) and Tuen Mun Chek Lap Kok Link EIA Report (Register No. AEIAR-146/2009) (TMCLKLEIA), and their environmental monitoring and audit (EM&A) Manuals (original EM&A Manuals), for the Project were approved by Environmental Protection Department (EPD) in October 2009.
- 1.1.3 EPD subsequently issued the Environmental Permit (EP) for HKBCF in November 2009 (EP-353/2009) and the Variation of Environmental Permit (VEP) in June 2010 (EP-353/2009/A), November 2010 (EP-353/2009/B), November 2011 (EP-353/2009/C), March 2012 (EP-353/2009/D), October 2012 (EP-353/2009/E), April 2013 (EP-353/2009/F), August 2013 (EP-353/2009/G), January 2015 (EP-353/2009/H), July 2015 (EP-353/2009/I), February 2016 (EP-353/2009/J) and April 2016 (EP-353/2009/K). Similarly, EPD issued the Environmental Permit (EP) for TMCLKL in November 2009 (EP-354/2009) and the Variation of Environmental Permit (VEP) in December 2010 (EP-354/2009/A), January 2014 (EP-354/2009/B), December 2014 (EP-354/2009/C) and March 2015 (EP-354/2009/D)
- 1.1.4 The Project is a designated Project and is governed by the current permits for the Project, i.e. the amended EPs issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).
- 1.1.5 A Contract Specific EM&A Manual, which included all Contract -relation contents from the original EM&A Manuals for the Contract, was issued in May 2012.
- 1.1.6 Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).
- 1.1.7 China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.
- 1.1.8 Ramboll Environ Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.
- 1.1.9 AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the EM&A works.
- 1.1.10 The construction phase of the Project under the EPs was commenced on 12 March 2012.
- 1.1.11 According to the Contract Specific EM&A Manual, there is a need of an EM&A programme including air quality, noise, water quality and dolphin monitoring and environmental site inspections. The EM&A programme of the Contract commenced on 12 March 2012.

# 1.2 Scope of Report

1.2.1 This is the sixty-sixth monthly EM&A Report under the Contract No.HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in August 2017.



# 1.3 Contract Organization

1.3.1 The Contract organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Party	Position	Position Name		Fax	
Engineer's Representative (ER) (Ove Arup & Partners Hong Kong Limited)	Chief Resident Engineer	Paul Appleton	3698 5889	2698 5999	
IEC / ENPO	Independent Environmental Checker Raymond Dai		3465 2888	3465 2899	
(Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2850	3465 2899	
Contractor (China Harbour	Environmental Officer	Louie Chan	3693 2254	2578 0413	
Engineering Company Limited)	24-hour Hotline	Alan C.C. Yeung	9448 0325		
<b>ET</b> (AECOM Asia Company Limited)	ET Leader	Echo Leong	3922 9280	2317 7609	

 Table 1.1
 Contact Information of Key Personnel

# 1.4 Summary of Construction Works

- 1.4.1 The construction phase of the Project under the EP commenced on 12 March 2012.
- 1.4.2 As informed by the Contractor, details of the major works carried out in this reporting period are listed below:

#### Marine-base

- Maintenance of localized silt curtain
- Outfall installation
- Additional GI works

#### Land-base

- Maintenance works of Site Office at Works Area WA2
- 1.4.3 The 3-month rolling construction programme of the Contract is shown in Appendix B.
- 1.4.4 The general layout plan of the Contract site showing the detailed works areas is shown in Figure 1.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C.



# 1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise, water quality, marine ecology and environmental site inspections for air quality, noise, water quality, waste management, marine ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
  - All monitoring parameters;
  - Monitoring schedules for the reporting month and forthcoming month;
  - Action and Limit levels for all environmental parameters;
  - Event / Action Plan;
  - Environmental mitigation measures, as recommended in the Project EIA reports; and
  - Environmental requirement in contract documents.

# 2. AIR QUALITY MONITORING

# 2.1 Monitoring Requirements

2.1.1 In accordance with the Contract Specific EM&A Manual, baseline 1-hour and 24-hour Total Suspended Particulates (TSP) levels at 4 air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix D.

# 2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the Contract Specific EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

 Table 2.1
 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B)
High Volume Sampler (24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler (Model No. TE-5170)

# 2.3 Monitoring Locations

- 2.3.1 Monitoring locations AMS2 and AMS7 were set up at the proposed locations in accordance with Contract Specific EM&A Manual. For AMS6 (Dragonair/CNAC (Group) Building), permission on setting up and carrying out impact monitoring works was sought, however, access to the premise has not been granted yet on this report issuing date. For monitoring location AMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact air quality monitoring was conducted at site boundary of the site office area in Works Area WA2 (AMS3B) respectively. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.2 It was observed that a tree near AMS3B may affect the wind flow around the HVS located at AMS3B. With no further comment received from IEC, the HVS at AMS3B has been relocated on 8 September 2014 to slightly more than 2 meters separation from it, measured horizontally. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.3 Reference is made to ET's proposal of the omission of air monitoring station (AMS 6) dated on 1 November 2012 and EPD's letter dated on 19 November 2012 regarding the conditional approval of the proposed omission of air monitoring station (AMS 6) for Contract No. HY/2010/02. The aforesaid omission of Monitoring Station AMS6 is effective since 19 November 2012.
- 2.3.4 The impact air quality monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Company Limited) has been relocated to AMS7 (Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The impact air quality monitoring was conducted at AMS7 (Hong Kong SkyCity Marriott Hotel) since January 2016, action Level for air quality, as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel has been adopted for this air quality monitoring location.



2.3.5 Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

Table 2.2 Locations of Impact Air Quality Monitoring Station
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Monitoring Station	Location	Description
AMS2	Tung Chung Development Pier	Rooftop of the premise
AMS3B	Site Boundary of Site Office Area at Works Area WA2	On ground at the area boundary
AMS6*	Dragonair/CNAC (Group) Building	On ground at boundary of the premise
AMS7	Hong Kong SkyCity Marriott Hotel	On ground at boundary of the premise

\*Remarks: Reference is made to EPD conditional approval of the omission of air monitoring station (AMS 6) for the Contract. The omission will be effective on 19 November 2012.

# 2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

#### Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration		
1-hour TSP Three times every 6 days while the highest dust im was expected			
24-hour TSP	Once every 6 days		

# 2.5 Monitoring Methodology

- 2.5.1 24-hour TSP Monitoring
  - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
    - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
    - (ii) No two samplers should be placed less than 2 meters apart.
    - (iii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
    - (iv) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
    - (v) A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
    - (vi) No furnace or incinerator flues nearby.
    - (vii) Airflow around the sampler was unrestricted.
    - (viii) Permission was obtained to set up the samplers and access to the monitoring stations.
    - (ix) A secured supply of electricity was obtained to operate the samplers.
    - (x) The sampler was located more than 20 meters from any dripline.
    - (xi) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
    - (xii) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
  - (b) Preparation of Filter Papers
    - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
    - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more



than  $\pm 3$  °C; the relative humidity (RH) was < 50% and not variable by more than  $\pm 5\%$ . A convenient working RH was 40%.

- (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
  - (i) The power supply was checked to ensure the HVS works properly.
  - (ii) The filter holder and the area surrounding the filter were cleaned.
  - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
  - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
  - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
  - (vi) Then the shelter lid was closed and was secured with the aluminum strip.
  - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
  - (viii) A new flow rate record sheet was set into the flow recorder.
  - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m<sup>3</sup>/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m<sup>3</sup>/min).
  - (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
  - (xi) The initial elapsed time was recorded.
  - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
  - (xiii) The final elapsed time was recorded.
  - (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
  - (xv) It was then placed in a clean plastic envelope and sealed.
  - (xvi) All monitoring information was recorded on a standard data sheet.
  - (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
  - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
  - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
  - (iii) Calibration certificate of the HVSs are provided in Appendix E.
- 2.5.2 1-hour TSP Monitoring
  - (a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.



- (xi) Push "START/STOP" switch to start measurement.
- (b) Maintenance and Calibration
  - The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
  - (ii) 1-hour validation checking of the TSP meter against HVS is carried out on half-year basis at the air quality monitoring locations.

## 2.6 Monitoring Schedule for the Reporting Month

- 2.6.1 The schedule for air quality monitoring in August 2017 is provided in Appendix F.
- 2.6.2 24-hour TSP monitoring at Station AMS3B Site Boundary of Site Office (WA2) was rescheduled from 18 Aug 2017 to 22 August 2017 due to electricity failure.
- 2.6.3 Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by Hong Kong Observatory on 23 Aug 2017, 24-hour TSP monitoring from 23-24 Aug 2017 was rescheduled to 24-25 Aug 2017.

#### 2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

	Average (µg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AMS2	68	59-75	374	500
AMS3B	68	59-74	368	500
AMS7	68	58-74	370	500

 Table 2.4
 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Table 2.5	Summar	v of 24-hour T	SP Monitoring	Results in the	e Reporting Period
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	Average (µg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AMS2	30	18-47	176	260
AMS3B	31	13-61	167	260
AMS7	46	20-89	183	260

- 2.7.2 The event action plan is annexed in Appendix L.
- 2.7.3 Meteorological information collected from the wind station during the monitoring periods on the monitoring dates, as shown in Figure 2, including wind speed and wind direction, is annexed in Appendix H.

# 3. NOISE MONITORING

# 3.1 Monitoring Requirements

3.1.1 In accordance with the Contract Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in Appendix D.

# 3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

 Table 3.1
 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31 & B&K2238
Acoustic Calibrator	Rion NC-73 & B&K 4231

# 3.3 Monitoring Locations

- 3.3.1 Monitoring locations NMS2 was set up at the proposed locations in accordance with Contract Specific EM&A Manual. However, for monitoring location NMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of the school. Permission on setting up and carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact noise monitoring was conducted at site boundary of the site office area in Works Area WA2 (NMS3B) respectively. Same baseline noise level (as derived from the baseline monitoring data recorded at Ho Yu College) and Limit Level were adopted for this alternative noise monitoring location.
- 3.3.2 Figure 2 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

 Table 3.2
 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
NMS2	Seaview Crescent Tower 1	Free-field on the rooftop of the premise
NMS3B	Site Boundary of Site Office Area at Works Area WA2	Free-field on ground at the area boundary.

# 3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

#### Table 3.3Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L <sub>eq</sub> , L <sub>10</sub> and L <sub>90</sub> would be recorded.	At least once per week

#### 3.5 Monitoring Methodology

- 3.5.1 Monitoring Procedure
  - (a) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at NMS2. A correction of +3 dB(A) shall be made to the free field measurements.
  - (b) All measurement at NMS3B were free field measurements in the reporting month at NMS3B. A correction of +3 dB(A) shall be made to the free field measurements.
  - (c) The battery condition was checked to ensure the correct functioning of the meter.
  - (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
    - (i) frequency weighting: A
    - (ii) time weighting: Fast
    - (iii) time measurement: L<sub>eq(30-minutes)</sub> during non-restricted hours i.e. 07:00 1900 on normal weekdays.
  - (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - (f) During the monitoring period, the L<sub>eq</sub>, L<sub>10</sub> and L<sub>90</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
  - (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
  - (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.5.2 Maintenance and Calibration
  - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
  - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
  - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

# 3.6 Monitoring Schedule for the Reporting Month

- 3.6.1 The schedule for construction noise monitoring in August 2017 is provided in Appendix F.
  - 3.6.2 Due to effect of typhoon on arrangement of monitoring, noise monitoring at Station NMS2 Seaview Crescent Tower 1 was rescheduled from 24 Aug 2017 to 25 Aug 2017.

# 3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),		
	L <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>	L <sub>eq</sub> (30 mins)		
NMS2	67	66-69*	75		
NMS3B	66	66-67*	70/65^		

#### Table 3.4Summary of Construction Noise Monitoring Results in the Reporting Period

\*+3dB(A) Façade correction included

^ Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

- 3.7.2 Major noise sources during the noise monitoring included construction activities of the Contract, construction activities by other contracts and nearby traffic noise. Nonetheless, the Contractor of Contract No.HY/2010/02 was reminded to continue to properly implement all noise mitigation measures.
- 3.7.3 The event action plan is annexed in Appendix L.

# 4. WATER QUALITY MONITORING

## 4.1 Monitoring Requirements

4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Contract Specific EM&A Manual. Appendix D shows the established Action/Limit Levels for the environmental monitoring works.

# 4.2 Monitoring Equipment

4.2.1 Table 4.1 summarises the equipment used in the impact water quality monitoring programme.

 Table 4.1
 Water Quality Monitoring Equipment

Equipment	Brand and Model
Dissolved Oxygen (DO) and Temperature Meter, Salinity Meter and Turbidity Meter	YSI Model 6820
pH Meter	YSI Model 6820 or Thermo Orion 230A+
Positioning Equipment	JRC DGPS 224 Model JLR-4341 with J-NAV 500 Model NWZ4551
Water Depth Detector	Eagle Cuda-168 and Lowrance x-4
Water Sampler	Kahlsio Water Sampler (Vertical) 2.2 L with messenger

# 4.3 Monitoring Parameters, Frequency and Duration

4.3.1 Table 4.2 summarises the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the Contract Specific EM&A Manual.

 Table 4.2
 Impact Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameter, unit	Frequency	No. of depth
Impact Stations: IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10(N), IS(Mf)11, IS(Mf)16, IS17 Control/Far Field Stations: CS(Mf)3(N), CS(Mf)5, CS4, CS6, CSA Sensitive Receiver Stations: SR3, SR4(N), SR5(N), SR6, SR7, SR10A&SR10B(N)	<ul> <li>Depth, m</li> <li>Temperature, °C</li> <li>Salinity, ppt</li> <li>Dissolved Oxygen (DO), mg/L</li> <li>DO Saturation, %</li> <li>Turbidity, NTU</li> <li>pH</li> <li>Suspended Solids (SS), mg/L</li> </ul>	Three times per week during mid- ebb and mid- flood tides (within ± 1.75 hour of the predicted time)	3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid- depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored).

# 4.4 Monitoring Locations

- 4.4.1 In accordance with the Contract Specific EM&A Manual, twenty-one stations (9 Impact Stations, 7 Sensitive Receiver Stations and 5 Control/Far Field Stations) were designated for impact water quality monitoring. The nine Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the seven Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the five Control/ Far Field Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions.
- 4.4.2 Due to safety concern and topographical condition of the original locations of SR4 and SR10B, alternative impact water quality monitoring stations, naming as SR4 (N) and SR10B (N), were adopted, which are situated in vicinity of the original impact water quality monitoring stations (SR4 and SR10B) and could be reachable.
- 4.4.3 Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original locations of water quality monitoring stations SR5, IS10 and CS(Mf)3 are enclosed by works boundary of 3RS Project. Alternative impact water quality monitoring stations, naming as SR5(N), IS10(N) and CS(Mf)3(N) was approved in 12 May 2017 and were adopted starting from 15 May 2017 to replace the original locations of water quality monitoring. For details and status of the proposed changes, please refer to section 6.4.9
- 4.4.4 Same baseline and Action Level for water quality, as derived from the baseline monitoring data recorded, were adopted for these alternative impact water quality monitoring stations.
- 4.4.5 The locations of these monitoring stations are summarized in Table 4.3 and depicted in Figure 3.

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10(N)	Impact Station (Close to HKBCF construction site)	812942	820881
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
SR5(N)	Sensitive receivers (Artificial Reef in NE Airport)	812569	821475
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A	Sensitive receivers (Ma Wan FCZ)1	823741	823495
SR10B(N)	Sensitive receivers (Ma Wan FCZ)2	823683	823187
CS(Mf)3(N)	Control Station	808814	822355
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004

 Table 4.3
 Impact Water Quality Monitoring Stations



Station	Description	East	North
CS6	Control Station	817028	823992
CSA	Control Station	818103	823064

## 4.5 Monitoring Methodology

#### 4.5.1 Instrumentation

- (a) The in-situ water quality parameters, viz. dissolved oxygen, temperature, salinity, turbidity and pH, were measured by multi-parameter meters (i.e. Model YSI 6820 CE-C-M-Y) and pH meter (i.e. Thermo Orion 230A+) respectively.
- 4.5.2 Operating/Analytical Procedures
  - (a) Digital Differential Global Positioning Systems (DGPS) were used to ensure that the correct location was selected prior to sample collection.
  - (b) Portable, battery-operated echo sounders were used for the determination of water depth at each designated monitoring station.
  - (c) All in-situ measurements were taken at 3 water depths, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth was less than 6 m, in which case the middepth station was omitted. Should the water depth be less than 3 m, only the mid-depth station was monitored.
  - (d) At each measurement/sampling depth, two consecutive in-situ monitoring (DO concentration and saturation, temperature, turbidity, pH, salinity) and water sample for SS. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of DO or turbidity parameters was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
  - (e) Duplicate samples from each independent sampling event were collected for SS measurement. Water samples were collected using the water samplers and the samples were stored in highdensity polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes. For QA/QC procedures, one duplicate samples of every batch of 20 samples was analyzed.
  - (f) The analysis method and reporting and detection limit for SS is shown in Table 4.4.

 Table 4.4
 Laboratory Analysis for Suspended Solids

Parameters	meters Instrumentation		Reporting Limit	<b>Detection Limit</b>	
Suspended Solid (SS)	Weighting	APHA 2540-D	0.5mg/L	0.5mg/L	

(g) Other relevant data were recorded, including monitoring location / position, time, water depth, tidal stages, weather conditions and any special phenomena or work underway at the construction site in the field log sheet for information.

- 4.5.3 Maintenance and Calibration
  - (a) All in situ monitoring instruments would be calibrated and calibrated by ALS Technichem (HK) Pty Ltd. before use and at 3-monthly intervals throughout all stages of the water quality monitoring programme. Calibration details are provided in Appendix E.
  - (b) The dissolved oxygen probe of YSI 6820 was calibrated by wet bulb method. Before the calibration routine, the sensor for dissolved oxygen was thermally equilibrated in water-saturated air. Calibration cup is served as a calibration chamber and it was loosened from airtight condition before it is used for the calibration. Calibration at ALS Technichem (HK) Pty Ltd. was carried out once every three months in a water sample with a known concentration of dissolved oxygen. The sensor was immersed in the water and after thermal equilibration, the known mg/L value was keyed in and the calibration was carried out automatically.
  - (c) The turbidity probe of YSI 6820 is calibrated two times a month. A zero check in distilled water was performed with the turbidity probe of YSI 6820 once per monitoring day. The probe will be calibrated with a solution of known NTU at ALS Technichem (HK) Pty Ltd. once every three months.

#### 4.6 Monitoring Schedule for the Reporting Month

- 4.6.1 The schedule for impact water quality monitoring in August 2017 is provided in Appendix F.
- 4.6.2 Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by Hong Kong Observatory on 23 Aug 2017, impact water quality monitoring scheduled on 23 Aug 2017 was cancelled according to the contingency plan. No substitute monitoring was provided.

#### 4.7 Results and Observations

4.7.1 Impact water quality monitoring results and graphical presentations are provided in Appendix J.

Station	Exceedance Level	DO (	S&M)	DO (B	ottom)	Tur	bidity		SS	T	otal
	Level	Ebb	Flood	Ebb	Floo d	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action	0	0	0	0	0	0	0	0	0	0
135	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)6	Action	0	0	0	0	0	0	0	0	0	0
13(111)0	Limit	0	0	0	0	0	0	0	0	0	0
IS7	Action	0	0	0	0	0	0	0	0	0	0
157	Limit	0	0	0	0	0	0	0	0	0	0
IS8	Action	0	0	0	0	0	0	0	0	0	0
150	Limit	0	0	0	0	0	0	0	0	0	0
	Action	0	0	0	0	0	0	0	0	0	0
IS(Mf)9	Limit	0	0	0	0	0	0	0	0	0	0
1910/NI)	Action	0	0	0	0	0	0	0	0	0	0
IS10(N)	Limit	0	0	0	0	0	0	0	0	0	0
	Action	0	0	0	0	0	0	0	0	0	0
IS(Mf)11	Limit	0	0	0	0	0	0	0	0	0	0
	Action	0	0	0	0	0	0	0	0	0	0
IS(Mf)16	Limit	0	0	0	0	0	0	0	0	0	0
IS17	Action	0	0	0	0	0	0	0	0	0	0
1317	Limit	0	0	0	0	0	0	0	0	0	0
SR3	Action	0	0	0	0	0	0	0	0	0	0
353	Limit	0	0	0	0	0	0	0	0	0	0
SR4(N)	Action	0	0	0	0	0	0	0	0	0	0
3R4(IN)	Limit	0	0	0	0	0	0	0	0	0	0
SR5(N)	Action	0	0	0	0	0	0	0	0	0	0
SK3(IV)	Limit	0	0	0	0	0	0	0	0	0	0
SR6	Action	0	0	0	0	0	0	0	0	0	0

Table 4.5Summary of Water Quality Exceedances



# Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

Monthly EM&A Report for August 2017

Station	Station Exceedance Level		S&M)	DO (B	ottom)	Tur	bidity		SS	Т	otal
	Level	Ebb	Flood	Ebb	Floo d	Ebb	Flood	Ebb	Flood	Ebb	Flood
	Limit	0	0	0	0	0	0	0	0	0	0
SR7	Action	0	0	0	0	0	0	0	0	0	0
SK/	Limit	0	0	0	0	0	0	0	0	0	0
SR10A	Action	0	0	0	0	0	0	0	0	0	0
SKIUA	Limit	0	0	0	0	0	0	0	0	0	0
SR10B	Action	0	0	0	0	0	0	0	0	0	0
(N)	Limit	0	0	0	0	0	0	0	0	0	0
Total	Action	0	0	0	0	0	0	0	0		0
	Limit	0	0	0	0	0	0	0	0		0

Note: S: Surface; and M: Mid-depth.

4.7.2 There was no exceedance recorded at all monitoring stations in the reporting month.

4.7.3 The event action plan is annexed in Appendix L.

# 5. DOLPHIN MONITORING

## 5.1 Monitoring Requirements

- 5.1.1 Vessel based surveys for the Chinese White Dolphin (CWD), *Sousa chinensis,* are to be conducted by a dedicated team comprising a qualified marine mammal ecologist and experienced marine mammal observers (MMOs). The purpose of the surveys are to evaluate the impact of the HKCBF reclamation and, if deemed detrimental, to take appropriate action as per the EM&A manual.
- 5.1.2 This 'Impact Monitoring' follows several months of 'Baseline Monitoring' so similar survey methodologies have been adopted to facilitate comparisons between datasets. Further, the data collected are compatible with, and are available for, incorporation into the data set managed by the Agriculture, Fisheries and Conservation Department (AFCD) as part of Hong Kong's long term Marine Mammal Monitoring Programme.

#### 5.2 Monitoring Equipment

Table 5.1 summarises the equipment used for the impact dolphin monitoring.

#### Table 5.1 Dolphin Monitoring Equipment

Equipment	Model
Commercially licensed motor vessel	15m in length with a 4.5m viewing platform
Global Positioning System (GPS) x2	Integrated into T7000
	Garmin GPS Map 76C
Computers (T7000 Tablet, Intel Atom)	Windows 7/MSO 13
	Logger
Camera	Nikon D7100 300m 2.8D fixed focus
	Nikon D90 80-400mm zoom lens
Laser Rangefinder	Range Finder Bushnell 1000m
Marine Binocular x3	Nexus 7 x 50 marine binocular with compass
	and reticules
	Fujinon 7 x 50 marine binocular with compass
	and reticules

# **5.3 Monitoring Frequency and Conditions**

- 5.3.1 Dolphin monitoring is conducted twice per month in each survey area.
- 5.3.2 Dolphin monitoring is conducted only when visibility is good (e.g., over 1km) and the sea condition is at a Beaufort Sea State of 4 or better.
- 5.3.3 When thunder storm, black rain or typhoon warnings are in force, all survey effort is stopped.

#### 5.4 Monitoring Methodology and Location

- 5.4.1 The impact dolphin monitoring is vessel-based and combines line-transect and photo-ID methodology. The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as:
- 5.4.2 Northeast Lantau survey area; and
- 5.4.3 Northwest Lantau survey area.
- 5.4.4 The co-ordinates for the transect lines and layout map have been provided by AFCD and are shown in Table 5.2 and Figure 4.

# Table 5.2 Impact Dolphin Monitoring Line Transect Co-ordinates (Provided by AFCD)

	HK Grid System		Long Lat in WGS84	
ID	X Y		Long	Lat



#### Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

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1         804671         815456         113.870287         22.277678           1         804671         831404         113.869975         22.421696           2         805476         820600         113.878079         22.325952           2         805476         820600         113.878079         22.325952           3         806464         821150         113.877675         22.323230           4         807518         821500         113.897663         22.345030           4         807518         821230         113.897663         22.332308           4         807518         82230         113.907397         22.335485           5         808504         821850         113.907397         22.332408           6         809490         822532         113.916865         22.338210           7         810499         822000         113.926749         22.336709           7         810499         824013         113.926688         22.360464           8         811508         824254         113.936466         22.357241           9         812516         824254         113.946320         22.336066           9         812516         824254<	ong Kong Boundary	Crossing Facilities –	Reclamation Works	Monthly EM&A Re	port for August 2017
2         805476         826654         113.878079         22.325952           2         805476         826654         113.878079         22.378814           3         806464         821150         113.887615         22.329130           3         806464         82211         113.887615         22.32308           4         807518         822230         113.897633         22.32308           4         807518         822230         113.907397         22.336455           5         808504         821850         113.907397         22.336465           6         809490         822552         113.916884         22.33710           7         810499         822000         113.926688         22.360464           8         811508         824254         113.936639         22.328966           8         811508         824254         113.936639         22.33606           9         812516         824254         113.936639         22.323606           9         812516         824254         113.946279         22.357255           10         813525         824657         113.956066         22.306908           11         814556         818853 <td>1</td> <td>804671</td> <td>815456</td> <td>113.870287</td> <td>22.277678</td>	1	804671	815456	113.870287	22.277678
2         805476         826654         113.876079         22.378814           3         806464         821150         113.887615         22.329130           3         806464         822911         113.887550         22.345030           4         807518         822910         113.897663         22.342308           4         807518         822910         113.897663         22.332308           5         808504         821850         113.907397         22.338210           6         809490         822150         113.916865         22.338210           6         809490         822552         113.916864         22.367128           7         810499         822000         113.926749         22.386709           7         810499         824613         113.936639         22.387241           9         812516         824254         113.936466         22.357245           10         813525         820627         113.946320         22.306066           9         812516         824254         113.946320         22.306938           11         813525         820627         113.946152         22.30458           10         813525         8204	1	804671	831404	113.869975	22.421696
2         805476         826654         113.876079         22.378814           3         806464         821150         113.887615         22.329130           3         806464         822911         113.887550         22.345030           4         807518         822910         113.897663         22.342308           4         807518         822910         113.897663         22.332308           5         808504         821850         113.907397         22.338210           6         809490         822150         113.916865         22.338210           6         809490         822552         113.916864         22.367128           7         810499         822000         113.926749         22.386709           7         810499         824613         113.936639         22.387241           9         812516         824254         113.936466         22.357245           10         813525         820627         113.946320         22.306066           9         812516         824254         113.946320         22.306938           11         813525         820627         113.946152         22.30458           10         813525         8204	2	805476	820800		
3         806464         821150         113.887615         22.329130           3         806464         822911         113.887550         22.345030           4         807518         821500         113.897633         22.32308           4         807518         822230         113.897633         22.323485           5         808504         822802         113.907397         22.335485           5         808504         822802         113.916965         22.396462           6         809490         822500         113.916965         22.386709           7         810499         822401         113.926749         22.328066           8         811508         821123         113.936639         22.328966           8         811508         821123         113.946820         22.30606           9         812516         821303         113.946320         22.337255           10         813525         820627         113.96615         22.326321           10         813525         820627         113.96615         22.304838           11         814556         818853         113.96615         22.304838           11         814556         820822<			826654	113.878079	22.378814
3         806464         822911         113.887550         22.345030           4         807518         821500         113.897633         22.332308           4         807518         829230         113.897633         22.402113           5         808504         821850         113.907397         22.335485           5         808504         8228602         113.907397         22.336485           6         809490         822150         113.916965         22.338709           7         810499         822000         113.926749         22.367128           7         810499         824013         113.936486         22.387241           9         812516         824254         113.936486         22.37241           9         812516         824254         113.936486         22.367241           9         812516         824254         113.946279         22.367255           10         813525         820827         113.966152         22.304958           11         814556         818853         113.966155         22.304958           11         814556         812992         113.985072         22.36292           12         815542         818					
4         807518         821500         113897833         22.332308           4         807518         829230         113.897663         22.402113           5         808504         821850         113.907397         22.335485           5         808504         822602         113.916865         22.336485           6         809490         822150         113.916884         22.367128           7         810499         822000         113.926749         22.336709           7         810499         8224013         113.926688         22.360742           8         811508         821123         113.936539         22.328966           8         811508         824254         113.936482         22.357251           9         812516         824254         113.946320         22.357255           10         813525         820827         113.956066         22.308008           11         814556         818853         113.966155         22.308019           12         815542         818807         113.975726         22.308109           12         815542         824859         113.985005         22.30271           14         817537         82	3	806464			
4         807518         82230         113.897663         22.402113           5         808504         821850         113.907397         22.335485           6         809490         822150         113.916965         22.338210           6         809490         825352         113.916965         22.338210           7         810499         822000         113.926749         22.336709           7         810499         822000         113.936539         22.328966           8         811508         824123         113.936539         22.328966           9         812516         824254         113.936639         22.336709           9         812516         824254         113.936639         22.337241           9         812516         824254         113.946279         22.357255           10         813525         820827         113.966112         22.304858           11         814556         818853         113.966155         22.304858           11         814556         820992         113.966125         22.304858           11         814556         820820         113.976747         22.328602           12         815542         81	4	807518		113897833	22.332308
5         808504         821850         113.90737         22.335485           5         808504         828602         113.907252         22.396462           6         809490         822150         113.916965         22.338210           6         809490         825352         113.916965         22.338210           7         810499         824000         113.926484         22.36709           7         810499         8242123         113.926688         22.36709           8         811508         824123         113.936539         22.328966           8         811508         824254         113.94620         22.357241           9         812516         821233         113.946279         22.357255           10         813525         820627         113.956112         22.360908           11         814556         821992         113.966125         22.308008           11         814556         820992         113.95612         22.328621           10         813525         824657         113.95612         22.308109           12         815542         818807         113.95612         22.308109           12         815542         818868	4		829230		
5         806504         828602         113.907252         22.336210           6         809490         822150         113.916884         22.367128           7         810499         822000         113.926749         22.336210           7         810499         822000         113.926749         22.336709           7         810499         824613         113.926749         22.3360464           8         811508         821123         113.936539         22.328046           8         811508         824254         113.936430         22.337241           9         812516         824254         113.94620         22.337255           10         813525         820827         113.946120         22.36098           11         814556         818853         113.966155         22.304858           11         814556         818853         113.966155         22.304858           11         814556         818853         113.975767         22.306202           12         815542         824882         113.975747         22.302820           12         815542         824829         113.995070         22.326271           13         816506	5	808504	821850		22.335485
6         809490         822150         113.916865         22.338210           6         809490         825352         113.916884         22.3367128           7         810499         822000         113.926784         22.336709           7         810499         822000         113.926688         22.336709           7         810499         824254         113.936486         22.337241           9         812516         821303         113.946320         22.33606           9         812516         824254         113.936480         22.357251           10         813525         820827         113.956112         22.328021           10         813525         824657         113.956155         22.304858           11         814556         820992         113.966125         22.304858           11         814556         820992         113.975726         22.304858           11         814556         82092         113.975726         22.304819           12         815542         824882         113.975726         22.304856           13         816506         824859         113.985070         22.320823           14         817537 <th< td=""><td>5</td><td>808504</td><td>828602</td><td>113.907252</td><td>22.396462</td></th<>	5	808504	828602	113.907252	22.396462
7         810499         822000         113.926749         22.336709           7         810499         824613         113.926688         22.360464           8         811508         821123         113.936688         22.329866           8         811508         824254         113.936486         22.357241           9         812516         824254         113.946279         22.330606           9         812516         824254         113.966112         22.326321           10         813525         820827         113.966155         22.306908           11         814556         818853         113.966155         22.304858           11         814556         818853         113.966155         22.304858           11         814556         818863         113.975726         22.308109           12         815542         824882         113.975647         22.362962           13         816506         819480         113.985070         22.320883           14         817537         820210         113.995070         22.320856           15         818568         820735         114.005071         22.35550           15         818568 <t< td=""><td>6</td><td>809490</td><td>822150</td><td>113.916965</td><td></td></t<>	6	809490	822150	113.916965	
7         810499         824613         113.926688         22.360464           8         811508         821123         113.936486         22.357241           9         812516         821303         113.946320         22.330606           9         812516         824254         113.946320         22.337255           10         813525         820827         113.966112         22.326321           10         813525         820457         113.9566112         22.304858           11         814556         818853         113.966155         22.304858           11         8145542         818807         113.975726         22.304858           11         8145542         818807         113.975726         22.304858           112         815542         818807         113.975726         22.304859           12         815542         824859         113.985005         22.3262771           13         816506         819480         113.98505         22.320883           14         817537         82020         113.995018         22.320883           14         817537         824613         113.995018         22.328055           15         818568	6	809490	825352	113.916884	22.367128
8         811508         821123         113.936539         22.328966           8         811508         824254         113.936486         22.357241           9         812516         821303         113.946320         22.330606           9         812516         824254         113.946320         22.337255           10         813525         820827         113.956112         22.360908           11         814556         818853         113.966155         22.304858           11         814556         820992         113.966155         22.304858           11         814556         820992         113.966155         22.304858           12         815542         824882         113.975726         22.304858           13         816506         819480         113.985072         22.314192           13         816506         824859         113.995070         22.320883           14         817537         82020         113.995070         22.320883           15         818568         82433         114.005030         22.358947           16         819532         821420         114.014420         22.358947           16         819532         <	7	810499	822000	113.926749	22.336709
8         811508         824254         113.936486         22.357241           9         812516         821303         113.946320         22.330606           9         812516         824254         113.946320         22.357255           10         813525         820827         113.956112         22.326321           10         813525         824657         113.956066         22.308008           11         814556         818853         113.966155         22.307820           12         815542         818807         113.975726         22.308109           12         815542         824882         113.975726         22.302922           13         816506         819480         113.985072         22.322.324271           13         816506         824859         113.985005         22.362771           14         817537         820220         113.995010         22.320883           14         817537         820220         113.995017         22.3285550           15         818568         820735         114.005030         22.358947           16         819532         824209         114.014420         22.31747           16         819532	7	810499	824613	113.926688	22.360464
9         812516         821303         113.946320         22.330606           9         812516         824254         113.946279         22.357255           10         813525         820827         113.956112         22.36321           10         813525         824657         113.956066         22.360908           11         814556         818853         113.966155         22.304858           11         814556         820992         113.966125         22.304858           11         814556         820992         113.966125         22.304858           12         815542         82482         113.975726         22.308109           12         815542         82482         113.975726         22.302771           13         816506         819480         113.985072         22.314192           13         816506         824859         113.995070         22.320883           14         817537         82020         113.995070         22.320883           14         817537         824413         114.005030         22.38697           15         818568         820735         114.005030         22.386933           16         819532 <t< td=""><td>8</td><td>811508</td><td>821123</td><td>113.936539</td><td>22.328966</td></t<>	8	811508	821123	113.936539	22.328966
9         812516         824254         113.946279         22.357255           10         813525         820827         113.956112         22.326321           10         813525         824657         113.956112         22.326321           11         814556         818853         113.956155         22.304858           11         814556         820992         113.966155         22.308109           12         815542         818807         113.975726         22.308109           12         815542         824882         113.9757647         22.322962           13         816506         819480         113.985072         22.314192           13         816506         824859         113.995070         22.320883           14         817537         82020         113.995070         22.320883           14         817537         824613         113.995070         22.3228550           15         818568         820735         114.005030         22.36593           15         818568         824433         114.005030         22.358947           16         819532         824209         114.014300         22.352033           17         820451	8	811508	824254	113.936486	22.357241
9         812516         824254         113.946279         22.357255           10         813525         820827         113.956112         22.326321           10         813525         824657         113.956112         22.326321           11         814556         818853         113.956155         22.304858           11         814556         820992         113.966155         22.308109           12         815542         818807         113.975726         22.308109           12         815542         824882         113.9757647         22.322962           13         816506         819480         113.985072         22.314192           13         816506         824859         113.995070         22.320883           14         817537         82020         113.995070         22.320883           14         817537         824613         113.995070         22.3228550           15         818568         820735         114.005030         22.36593           15         818568         824433         114.005030         22.358947           16         819532         824209         114.014300         22.352033           17         820451	9	812516	821303	113.946320	22.330606
10         813525         824657         113.956066         22.360908           11         814556         818853         113.966155         22.304858           11         814556         820992         113.966125         22.327820           12         815542         818807         113.975726         22.308109           12         815542         824882         113.975726         22.308109           13         816506         819480         113.985072         22.314192           13         816506         824859         113.985005         22.322771           14         817537         820200         113.995070         22.322883           14         817537         824613         113.995071         22.3223550           15         818568         820735         114.005071         22.3223550           15         818568         824433         114.005071         22.32550           15         818568         824433         114.005030         22.358947           16         819532         821420         114.014320         22.356933           17         820451         822371         114.023333         22.340353           18         821504					
10         813525         824657         113.956066         22.360908           11         814556         818853         113.966155         22.304858           11         814556         820992         113.966125         22.308109           12         815542         818807         113.975726         22.308109           12         815542         824882         113.975726         22.308109           13         816506         819480         113.985072         22.314192           13         816506         824859         113.985005         22.320883           14         817537         820200         113.995070         22.320883           14         817537         824613         113.995071         22.3223550           15         818568         820735         114.005071         22.3223550           15         818568         824433         114.005071         22.325550           15         818568         824433         114.005030         22.358947           16         819532         824209         114.014320         22.356933           17         820451         822371         114.023333         22.340353           18         821504	10	813525	820827	113.956112	22.326321
11         814556         818853         113.966155         22.304858           11         814556         820992         113.966125         22.327820           12         815542         818807         113.975726         22.308109           12         815542         824882         113.975726         22.308109           12         815542         824882         113.975647         22.362962           13         816506         819480         113.985072         22.314192           13         816506         824859         113.995070         22.320883           14         817537         824613         113.995018         22.300556           15         818568         820735         114.005071         22.325550           15         818568         824433         114.005030         22.338147           16         819532         824209         114.014390         22.358947           16         819532         824209         114.014390         22.358933           17         820451         822371         114.023333         22.338117           17         820451         823671         114.023317         22.352084           18         821504	10		824657	113.956066	
11814556820992113.96612522.32782012815542818807113.97572622.30810912815542824882113.97564722.36296213816506819480113.98507222.31419213816506824859113.98500522.36277114817537820220113.99507022.32088314817537824613113.99501822.36055615818568820735114.00507122.32555015818568824433114.00503022.35894716819532824209114.01442022.33174716819532824209114.01439022.35693317820451822371114.02331722.35208418821504822371114.03355622.34035318821504822371114.0335622.34035319822513823268114.04334022.34845819822513824613114.05269522.34968020823477823402114.05268622.36061021805476827081113.87787822.38266821805476827081113.8778122.441410322806464824033113.86741622.40542323814559821739113.96610122.36192024805476815900113.87802822.310600	11	814556	818853		22.304858
12815542824882113.97564722.36296213816506819480113.98507222.31419213816506824859113.98500522.36277114817537820220113.99507022.32088314817537824613113.99501822.36055615818568820735114.00507122.3255015818568824433114.00503022.35894716819532821420114.01442022.33174716819532824209114.01439022.35693317820451822175114.02331722.35208418821504823671114.02331722.35208418821504823761114.03354422.35290319822513823268114.04334022.34845819822513823421114.05269522.34968020823477823402114.05268622.3061021805476830562113.87781122.41410322806464824033113.87781122.41410323814559821739113.96614222.33457423814559821739113.96614222.3457423814559821739113.96614222.3457424805476815900113.87802822.210600	11		820992	113.966125	
13         816506         819480         113.985072         22.314192           13         816506         824859         113.985005         22.362771           14         817537         820220         113.995070         22.320883           14         817537         824613         113.995070         22.320883           14         817537         824613         113.995018         22.360556           15         818568         820735         114.005030         22.358947           16         819532         821420         114.014420         22.331747           16         819532         824209         114.014390         22.356933           17         820451         822125         114.023333         22.338117           17         820451         822371         114.023317         22.352084           18         821504         823761         114.033566         22.340353           18         821504         823761         114.043340         22.352903           19         822513         824321         114.043340         22.349680           20         823477         824613         114.052695         22.349680           20         823477	12	815542	818807	113.975726	
13816506824859113.98500522.36277114817537820220113.99507022.32088314817537824613113.99507022.32088314817537824613113.99507022.32055615818568820735114.00507122.32555015818568824433114.00507122.3255016819532821420114.01442022.33174716819532824209114.01439022.35693317820451822125114.02333322.33811717820451823671114.02331722.35208418821504822371114.03356622.34035319822513823268114.04334022.34845819822513823268114.04333122.35797120823477823402114.05269522.34968020823477824613114.05268622.36061021805476830562113.87787822.38266821806464829598113.88741622.40542323814559824768113.96614222.33457423814559824768113.96610122.36192024805476815900113.87802822.8170224805476819100113.87802822.310600	12	815542	824882	113.975647	22.362962
14817537820220113.99507022.32088314817537824613113.99501822.36055615818568820735114.00507122.32555015818568824433114.00503022.35894716819532821420114.01442022.33174716819532824209114.01439022.35693317820451822125114.02331322.33811717820451822671114.02331722.35208418821504822371114.03355622.34035318821504823761114.03354422.35290319822513823268114.04334022.34845819822513824321114.05269522.34068020823477823402114.05268622.36061021805476827081113.87787822.38266821805476827081113.88741622.41410322806464824033113.88741622.451423814559821739113.96614222.33457423814559821739113.96610122.36192024805476815900113.87802822.8170224805476819100113.87802822.310600	13	816506	819480	113.985072	22.314192
14817537824613113.99501822.36055615818568820735114.00507122.32555015818568824433114.00503022.35894716819532821420114.01442022.33174716819532824209114.01439022.35693317820451822125114.02333322.33811717820451822371114.02331722.35208418821504823761114.03356622.34035318821504823761114.03354422.3520319822513823268114.04334022.34845819822513824221114.05269522.34968020823477823402114.05269522.34968020823477824613114.05268622.36061021805476827081113.87787822.38266821805476827081113.87787822.38266822806464824033113.88752022.3551642280646482493113.88741622.40542323814559821739113.96610122.33457423814559824768113.96610122.36192024805476815900113.87802822.310600	13	816506	824859	113.985005	22.362771
15818568820735114.00507122.32555015818568824433114.00503022.35894716819532821420114.01442022.33174716819532824209114.01439022.35693317820451822125114.02333322.33811717820451823671114.02331722.35208418821504822371114.03356622.34035319822513823268114.04334022.34845819822513823268114.04331122.35797120823477823402114.05269522.34968020823477824613114.05268622.36061021805476830562113.87781122.41410322806464824033113.88741622.40542323814559821739113.96614222.33457423814559824768113.96610122.36192024805476815900113.87802822.28170224805476819100113.87802822.310600	14	817537	820220	113.995070	22.320883
15818568824433114.00503022.35894716819532821420114.01442022.33174716819532824209114.01439022.35693317820451822125114.02333322.33811717820451822371114.02331722.35208418821504822371114.03356622.3403531982251382368114.04334022.34845819822513824321114.04333122.35797120823477823402114.05269522.34968020823477824613114.05268622.38266821805476827081113.87787822.38266821805476830562113.87781122.41410322806464824033113.88752022.35516423814559821739113.96614222.33457423814559824768113.97802822.23496024805476815900113.87802822.210600	14	817537	824613	113.995018	22.360556
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24 805476 819100 113.878028 22.310600					
		805476	819100	113.878028	22.310600

Remarks:

(a) \*Due to the presence of deployed silt curtain systems at the site boundaries of the Contract, some of the transect lines shown in Figure 5 could not be fully surveyed during the regular survey. Transect 10 is reduced from 6.4km to approximately 3.6km in length due to the HKBCF construction site.

(b) Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015.

(c) Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original transect lines of dolphin monitoring 2, 3, 4, 5, 6 and 7 are enclosed by



works boundary of 3RS Project. Alternative dolphin monitoring transect lines 2, 3, 4, 5, 6, 7 and 24 are adopted starting from 17 May 2017 to replace the original transect lines.

(d) Coordinates for transect lines 2, 3, 4, 5, 6 and 7 have been updated and transect line 24 has been adopted in respect to the Proposal for Alteration of Transect Line of Dolphin Monitoring and Alternative Monitoring Location for Impact Water Quality Monitoring (IWQM) Stations Due to Commencement of Third Runway Project approved by EPD on 12 May 2017. The total transect length for both NEL and NWL combined is reduced to approximately 99km.

# 5.5 Monitoring Procedures

- 5.5.1 The study area incorporates 24 transects in total, are to be surveyed twice per month. Each survey day lasts approximately 9 hours.
- 5.5.2 The survey vessel departs from Tung Chung Development Pier, Tsing Yi Public Pier or the nearest safe and convenient pier.
- 5.5.3 When the vessel reaches the start of a transect line, "on effort" survey begins. Areas between transect lines and traveling to and from the study area are defined as "off effort".
- 5.5.4 The transect line is surveyed at a speed of 6-8 knots (11-14 km/hr). For the sake of safety, the speed was sometimes a bit slower to avoid collision with other vessels. During some periods, tide and current flow in the survey areas exceeds 7 knots which can affect survey speed. There are a minimum of four marine mammal observers (MMOs) present on each survey, rotating through four positions, observers (2), data recorder (1) and 'rest' (1). Rotations occur every 30 minutes or at the end of dolphin encounters. The data recorder records effort, weather and sightings data directly onto the programme Logger and is not part of the observer team. The observers search with naked eye and binoculars between 90° and 270° abeam (bow being 0°).
- 5.5.5 When a group of dolphins is sighted, position, bearing and distance data are recorded immediately onto the computer and, after a short observation, an estimate made of group size. These parameters are linked to the time-GPS-ships data which are automatically stored in the programme Logger throughout the survey period. In this manner, information on heading, position, speed, weather, effort and sightings are stored in a format suitable for use with DISTANCE software for subsequent line transect analyses.
- 5.5.6 Once the vessel leaves the transect line, it is deemed to be "off effort". The dolphins are approached with the purpose of taking high resolution pictures for proper photo-identification of individual CWD. Attempts to photograph all dolphins in the group are made. Both the left and right hand sides of the dorsal fin area of each dolphin in the group are photographed, if possible. On finishing photographing, the vessel will return to the transect line at the point of departure and "on effort" survey is resumed.
- 5.5.7 Sightings which are made while on the transect line are referred to as "on effort sightings", while not on the actual transect line are referred to as an "opportunistic sightings" (e.g. another group of dolphins is sighted while travelling back to the transect line). Only "on effort sightings" can be used in analyses which require effort or rate quantification, e.g., encounter rate per 100km searched. This is also how "on effort sightings" are treated in the baseline report. "Opportunistic sightings" provide additional information on individual habitat use and population distribution and they are noted accordingly.
- 5.5.8 As time and GPS data are automatically logged throughout the survey and are linked to sightings data input, start and end times of encounters and deviation from the transect lines are recorded and can be subsequently reviewed.

# 5.6 Monitoring Schedule for the Reporting Month

- 5.6.1 The schedule for dolphin monitoring in August 2017 is provided in Appendix F.
- 5.6.2 Dolphin monitoring on 28 August 2017 was rescheduled to 30 August 2017 due to adverse weather condition.
- 5.6.3 Two surveys covering both study areas were completed.



# 5.7 Results and Observations

5.7.1 Dolphin surveys were conducted on 14, 15, 29 & 30 August 2017. A total of 196.4 km of transect line was conducted; 185.2 km of transect line was travelled during Beaufort Sea State 3 or better (favourable water conditions). The effort summary and sightings data are shown in Tables 5.3 and 5.4, respectively. The survey efforts conducted in August 2017 are plotted in Figure 5a-b. For Table 5.3, only on-effort information is included. Transects conducted in all Beaufort Sea State are included. Compared to previous monthly reports, the whole number Beaufort Sea State scale is used so as to ease comparison with other dolphin monitoring reports.

					Total Distance Travelled
Survey	Date	Area	Beaufort	Effort (km)	(km)
	08/14/2017	NWL	3	6.5	
	08/14/2017	NWL	4	10.1	
	08/14/2017	NEL	1	23.3	
	08/14/2017	NEL	2	6.7	
1	08/14/2017	NEL	3	6.5	98.4
	08/14/2017	NEL	4	0.7	
	08/15/2017	NWL	2	17.6	
	08/15/2017	NWL	3	26.6	
	08/15/2017	NWL	4	0.4	
	08/29/2017	NWL	1	32.8	
	08/29/2017	NWL	2	11.3	
2	08/30/2017	NWL	1	15.6	98
Z	08/30/2017	NWL	2	1.5	98
	08/30/2017	NEL	1	15.9	
	08/30/2017	NEL	2	20.9	
			TOT	AL in Aug 2017	196.4

# Table 5.3Impact Dolphin Monitoring Survey Effort Summary, Effort by Area and Beaufort<br/>Sea State

\*Remark: Surveys conduct under Beaufort Sea State 3 or below are considered as under favourable condition.

Table 5.4	Impact Dolphin Monitoring Survey Detail August 2017
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Date	Location	No. Sightings "on effort"	No. Sightings "opportunistic"
08/14/2017	NWL	0	0
	NEL	0	0
08/15/2017	NWL	0	0
	NEL	0	0
08/29/2017	NWL/WL*	3	1*
	NEL	0	0
08/30/2017	NWL	0	0
	NEL	0	0
	TOTAL in Aug 2017	3	1

\*Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL.

 Table 5.5
 The Encounter Rate of Number of Dolphin Sightings & Total Number of Dolphins per Area^

Encounter Rate of Number of Dolphin Sightings (STG)*							
Date	NEL Track (km)	NWL Track (km)	NEL Sightings	NWL Sightings	NEL Encounter Rate	NWL Encounter Rate	
14 & 15 Aug 2017	36.5	50.7	0	0	0	0	
29 & 30 Aug 2017	36.8	61.2	0	3	0	4.9	
Encounter Rate of Total Number of Dolphins (ANI)**							
Date	NEL Track (km)	NWL Track (km)	NEL Dolphins	NWL Dolphins	NEL Encounter Rate	NWL Encounter Rate	
14 & 15 Aug 2017	36.5	50.7	0	0	0	0	
29 & 30 Aug 2017	36.8	61.2	0	8	0	13.1	

\* Encounter Rate of Number of Dolphin Sightings (STG) presents encounter rates in terms of groups per 100km.

\*\* Encounter Rate of Total Number of Dolphins (ANI) presents encounter rates in terms of individuals per 100km. And the encounter rate is not corrected for individuals, calculation may represent double counting.

<sup>^</sup>The table is made only for reference to the quarterly STG & ANI, which were adopted for the Event & Action Plan.

- 5.7.2 A total of four sightings were made on 29 August 2017, one "opportunistic" and three "on effort". All sightings were recorded in NWL or while surveying NWL. One group was feeding, two groups were travelling and one group was engaged in multiple activities. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively. The locations of sighting with different behaviour are mapped in Figure 5d.
- 5.7.3 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June 2017 August 2017)
- 5.7.4 Two resightings were made in July 2017, both on 25 July 2017. HZMB 054 (known also as CH34 in the AFCD database) was first sighted during impact monitoring in September 2012. This individual has been sighted on 15 different survey days. HZMB 130 was first sighted in February 2016 and this is the third time it has been sighted during impact monitoring surveys.
- 5.7.5 Noteworthy Observation<sup>1</sup>:
- 5.7.5.1 The HKLR and HKBCF (and adjoining "Southern Landfall" Projects) effected lines 1, 2, 11, 12 and 24. The view of the area was partially blocked by the working vessels and in water structures which do not belong to HKBCF Reclamation Works. In time, the fixed structures which do not belong to HKBCF Reclamation Works will affect all survey protocols and dolphin ecology in the long term.
- 5.7.5.2 Fishing Vessels were noted anchored on line 1. Previously, dolphins have been known to be attracted to fishing vessels, both active and anchored, and as such the anchored vessels may have temporarily affected the dolphins distribution.
- 5.7.5.3 Travel to the northern end of lines 10 was slightly impeded by anchorages. After checking with the Contractor, there are no trans-boundary vessels that are required to anchor at northern ends of line 10 during this reporting period, as such they are unlikely to be related to this Contract. As there are variable numbers of ships in this anchorage through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.5.4 Anchored vessels (usually single) were noted on lines 5, 8, 9, 12, 13, 17, 18, 20 and 22 which caused the monitoring vessel to divert slightly from the trackline or blocked the transect area view. It is unknown



<sup>&</sup>lt;sup>1</sup> A noteworthy observation is to show that either the conduct of the surveys themselves is affected, i.e., the noted vessel or works impedes the progress or view of the survey platform. In addition, the vessel or construction works may be different or additional to that observed previously and further, are of such a nature that they are a likely to create an impact on the movement or behaviour of the subject of the impact survey, in this case, the dolphins.

who these vessels belong to or even if they were Project related. After checking with the Contractor, there are no trans-boundary vessels that are required to anchor at lines 5, 8, 9, 12, 13, 17, 18, 20 and 22 during thi reporting period, as such they are unlikely to be related to this Contract.

- 5.7.5.5 New projects, associated with the Third Runway System (3RS) works, including anchored barges and vessels, silt curtain areas and working barges, which do not belongs to this Contract, were noted on lines 1, 2, 3, 4, 5, 7 and 8 which severely restricted the transect area view. These projects have increased dramatically in extent and site access is totally restricted and some areas have silt curtains in place. It is considered that these new projects will affect survey protocol, survey data collection and dolphin habitat use in the long term and to a great degree. In addition, drifting silt curtains from 3RS were noted floating at lines 1 and 2. This poses a hazard to dolphins and other marine life.
- 5.7.5.6 The survey effort log notes the areas in which the visibility is limited or the survey is affected so that these can be accounted for in any subsequent analyses. Some of these obstructions will become permanent and some will be temporary as the HZMB is built and other projects progress. The transect lines can no longer be accessed fully due to 3RS (as per Figure 4 of previous reports) and a shortened set of transect lines have been approved on12 May 2017 by the Authority.
- 5.7.5.7 The above noteworthy observations are largely a result of multiple and on-going infrastructure projects within the Lantau area. No amendment to EM&A protocols can negate the effects of these projects, e.g., it is a highly dynamic environment and viewing conditions may alter every survey (sometimes within surveys) and most of the survey area is affected, to some degree, by marine construction works. Instead, survey data analyses should incorporate any noteworthy observations which may affect either data collection or dolphin distribution and behavioural changes. The above mentioned activities recorded during boat survey will not affect implementation of the EM&A Programme provided appropriate data analyses are conducted.
- 5.7.6 The event action plan is annexed in Appendix L.

# 6 ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### 6.1 Site Inspection

- 6.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting month, 4 site inspections were carried out on 3, 10, 17, 24 August 2017.
- 6.1.2 Particular observations during the site inspections are described below:

# Air Quality

6.1.3 Inappropriate size of NRMM label affixed onto the boring machine on the working platform in the vicinity of Portion C1a was observed. The contractor was reminded to affix an appropriate NRMM label with size of at least 200mm in width and 130 mm in height. As informed by the contractor, the concerned boring machine has been removed. (Closed)

#### Noise

6.1.4 No relevant adverse impact was observed in the reporting month.

#### Water Quality

6.1.5 It was observed that silt curtain around the outfall of Portion B was disconnected, the Contractor was reminded to reinstate the silt curtain at the concerned area and provide maintenance regularly. (Pending for Contractor's rectification)

#### Chemical and Waste Management

6.1.6 No relevant adverse impact was observed in the reporting month.

#### Landscape and Visual Impact

6.1.7 No relevant adverse impact was observed in the reporting month.

#### Others

6.1.8 No relevant adverse impact was observed in the reporting month.

#### 6.2 Advice on the Solid and Liquid Waste Management Status

- 6.2.1 The Contractor had registered as a chemical waste producer for this Project. Receptacles were available for general refuse collection and sorting.
- 6.2.2 As advised by the Contractor, 336kg of paper/cardboard packaging and 13m<sup>3</sup> of others, e.g. general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in Appendix M.
- 6.2.3 The Contractor is advised to properly maintain on site C&D materials and wastes storage, collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 6.2.4 The Contractor is reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes.
- 6.2.5 After checking with the Contractor, no surplus surcharge was exported to Macau during the reporting month. The Contractor was reminded to ensure consistency in quantities in case of any C&D material disposed off-site and/or no surcharge material removed off site.

# 6.3 Environmental Licenses and Permits

6.3.1 The environmental licenses and permits for the Contract and valid in the reporting month is summarized in Table 6.1.

# Table 6.1 Summary of Environmental Licensing and Permit Status

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		Valid Period		License/ Permit	Remarks
			From	То	Holder			
	Environmental	EP- 353/2009/K	11/04/2016	N/A		Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities		
EIAO	Permit	EP- 354/2009/D	13/03/2015	N/A	HyD	Tuen Mun – Chek Lap Kok Link (TMCLKL Southern Landfall Reclamation only)		
APCO	NA notification		30/12/2011		CHEC	Works Area WA2 and WA3		
APCO	NA notification		25/07/2014		CHEC	Works Area WA1		
WDO	Chemical Waste Producer Registration	5213-951- C1186-30	28/10/2015	N/A	CHEC	Chemical waste produced in Contract HY/2010/02 (WA1)		
WDO	Chemical Waste Producer Registration	5213-951- C1186-21	30/3/2012	N/A	CHEC	Chemical waste produced in Contract HY/2010/02 (WA2)		
WDO	Chemical Waste Producer Registration	5213-839- C3750-02	13/09/2012		CHEC	Registration as Chemical Waste Producer at TKO 137(FB)		
WDO	Billing Account for Disposal of Construction Waste	7014181	05/12/2011	N/A	CHEC	Waste disposal in Contract HY/2010/02		
NCO	Construction Noise Permit	GW-RS0320- 17	11/04/2017	10/08/2017	CHEC	Reclamation Works in Contract HY/2010/02		
NCO	Construction Noise Permit	GW-RS0687- 17	16/08/2017	14/02/2018	CHEC	Reclamation Works in Contract HY/2010/02		

#### 6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C. Most of the necessary mitigation measures were implemented properly.
- 6.4.3 Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly.
- 6.4.4 Regarding the implementation of dolphin monitoring and protection measures (i.e. implementation of Dolphin Watching Plan, Dolphin Exclusion Zone and Silt Curtain integrity Check), regular checking were conducted by the experienced MMOs within the works area to ensure no dolphin was trapped by the enclosed silt curtain systems. Any dolphin spotted within the enclosed silt curtain systems was reported and recorded. Relevant procedures were followed and measures were well implemented. Silt curtain systems were also inspected timely in accordance to the submitted plan. All inspection records were kept properly.
- 6.4.5 Acoustic decoupling measures on noisy plants on construction vessels were checked regularly and the Contractor was reminded to ensure provision of ongoing maintenance to noisy plants and to carry out improvement work once insufficient acoustic decoupling measures were found.
- 6.4.6 Frequency of watering per day on exposed soil was checked; with reference to the record provided by the Contract, watering was conducted at least 8 times per day on reclaimed land. The frequency of watering is the mainly refer to water truck. Sprinklers are only served to strengthen dust control measure for busy traffic at the entrance of Portion D. As informed by the Contractor, during the mal-function period of sprinkler, water truck will enhance watering at such area. The Contractor was reminded to ensure provision of watering of at least 8 times per day on all exposed soil within the Contract site and associated works areas throughout the construction phase.
- 6.4.7 After review, no floating grout production was in operation at any time in August 2017 for Contract No.HY/2010/02. Condition 3.26A of EP-353/2009/K for Contract No.HY/2010/02 is complied with during the reporting month.
- 6.4.8 Further to our letter (ET's letter's ref.: 60249820/rmky16033001) dated 30/3/2016 regarding the notification of silt curtain removal programme and arrangement, as informed by RSS on 18 May 2016, the Contractor provided an updated programme on 31 October 2016 to indicate the current site situation. According to CHEC's latest removal programme during the reporting month, stage 2 (east side of the perimeter silt curtain removal work has been completed and dates for the subsequent stages have also been updated in the reporting month, while the overall phasing arrangement has not changed. A notification email has been sent to IEC/ENPO to inform them that the completion of removal of perimeter silt curtain of Stages 2 and the tentative date for silt curtain removal work of stage 3, 4 and 5. With referred to previous IEC/ENPO comment received on 7 June 2016 if update of proposal was mainly on time schedule and they have no objection in principle. However prior to IEC/ENPO's reply to confirm ET's updated proposal, ET was requested to provide site photos to show ET's checking of the current site condition with respect to the reminders given in their previous letter (Our Ref.: HYDHZMBEEM00\_0\_4102L.16 dated 22 April 2016).
- 6.4.9 Due to the commencement of marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), a large portion of works site boundary will be established at the northern part of the existing airport Island. The recent arrangement of works boundary of 3RS Project which delineates the boundary of the designated 3RS Project (for the indicative 3RS boundary, please refer to Figure 5). The works area of 3RS project will affect several water quality monitoring stations and the dolphin monitoring transect lines which are being used for conducting monitoring under Contract No. HY/2010/02. The EM&A Programme for the HZMB HKBCF Project will therefore be affected. As a result, a proposal was prepared by ET in accordance with condition 5.1 of EP-353/2009/K and condition 4.1 of EP-354/2009/D, to relocate water quality monitoring stations from SR5, IS10, CS(Mf)3 and alternate the transect lines of dolphin monitoring 2, 3, 4, 5, 6 and 7. A revised proposal has been updated and sent to IEC/ENPO for their further review on 24 March 2017 and IEC/ENPO verified the revised proposal on the same date. The revised proposal has been sent to authority by



Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

Monthly EM&A Report for August 2017

project team for review and approval on 3 April 2017. The authority subsequently approved the proposal on 12 May 2017.

## 6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 6.5.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.3 For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.4 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June 2017 August 2017)
- 6.5.5 Environmental site inspection was carried out 4 times in August 2017. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.5.6 Cumulative statistics on exceedance is provided in Appendix N.

#### 6.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 6.6.1 No complaint, notification of summons or prosecution was received in the reporting period.
- 6.6.2 The Environmental Complaint Handling Procedure is annexed in Figure 6.
- 6.6.3 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix N.

# 7 FUTURE KEY ISSUES

# 7.1 Construction Programme for the Coming Months

7.1.1 As informed by the Contractor, the major works for the Contract in September and October 2017 will be \* as follows:

## Marine-base

- Maintenance of localized silt curtain
- Reinstatement of seawall
- Outfall installation
- Additional GI Works

## Land-base

- Maintenance works of Site Office at Works Area WA2

\*Construction activities in September and October 2017 will be changed subject to works progress.

# 7.2 Key Issues for the Coming Month

- 7.2.1 Key issues to be considered in the coming months:-
  - Site runoff should be properly collected and treated prior to discharge;
  - Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
  - Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
  - Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
  - Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
  - Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic;
  - Quieter powered mechanical equipment should be used;
  - Provision of proper and effective noise control measures for operating equipment and machinery onsite, such as erection of movable noise barriers or enclosure for noisy plants;
  - Closely check and replace the sound insulation materials regularly;
  - Better scheduling of construction works to minimize noise nuisance;
  - Properly store and label oil drums and chemical containers placed on site;
  - Proper chemicals, chemical wastes and wastes management;
  - Maintenance works should be carried out within roofed, paved and confined areas;
  - Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
  - Proper protection and regular inspection of existing trees, transplanted/retained trees.
  - Control night-time lighting and glare by hooding all lights.
  - Regular review and provide maintenance to dust control measures such as sprinkler system.

#### 7.3 Monitoring Schedule for the Coming Month

7.3.1 The tentative schedule for environmental monitoring of September 2017 are detailed in the monthly EM&A Report prepared for Contract No. HY/2013/01.

# 8 CONCLUSIONS AND RECOMMENDATIONS

## 8.1 Conclusions

- 8.1.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.3 For impact water quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.4 For dolphin monitoring, one (1) limit level exceedance was recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (June 2017 August 2017)
- 8.1.5 No complaint, notification of summons or prosecution was received in the reporting period.
- 8.1.6 Environmental site inspection was carried out 4 times in August 2017. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.

#### 8.2 Recommendations

8.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

#### Air Quality Impact

- All working plants and vessels on site should be regularly inspected and properly maintained to avoid dark smoke emission.
- All vehicles should be washed to remove any dusty materials before leaving the site.
- Haul roads should be sufficiently dampened to minimize fugitive dust generation.
- Wheel washing facilities should be properly maintained and reviewed to ensure properly functioning.
- Temporary exposed slopes and open stockpiles should be properly covered.
- Enclosure should be erected for cement debagging, batching and mixing operations.
- Water spraying should be provided to suppress fugitive dust for any dusty construction activity.
- Regular review and provide maintenance to dust control measures such as sprinkler system.

#### **Construction Noise Impact**

- Quieter powered mechanical equipment should be used as far as possible.
- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.
- Proper and effective noise control measures for operating equipment and machinery on-site should be provided, such as erection of movable noise barriers, enclosure for noisy plants or enhancement works to provide sufficient acoustic decoupling measure(s). Closely check and replace the sound insulation materials regularly
- Vessels and equipment operating should be checked regularly and properly maintained.
- Noise Emission Label (NEL) shall be affixed to the air compressor and hand-held breaker operating within works area.
- Acoustic decoupling measures should be properly implemented for all existing and incoming construction vessels with continuous and regularly checking to ensure effective implementation of acoustic decoupling measures.

#### Water Quality Impact

- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities in order to make sure they are functioning effectively.
- Construction of seawall should be completed as early as possible.
- Regular inspect and review the loading process from barges to avoid splashing of material.
- Silt, debris and leaves accumulated at public drains, wheel washing bays and perimeter u-channels and desilting facilities should be cleaned up regularly.
- Silty effluent should be treated/ desilted before discharged. Untreated effluent should be prevented from entering public drain channel.
- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.
- Exposed slopes and stockpiles should be covered up properly during rainstorm.

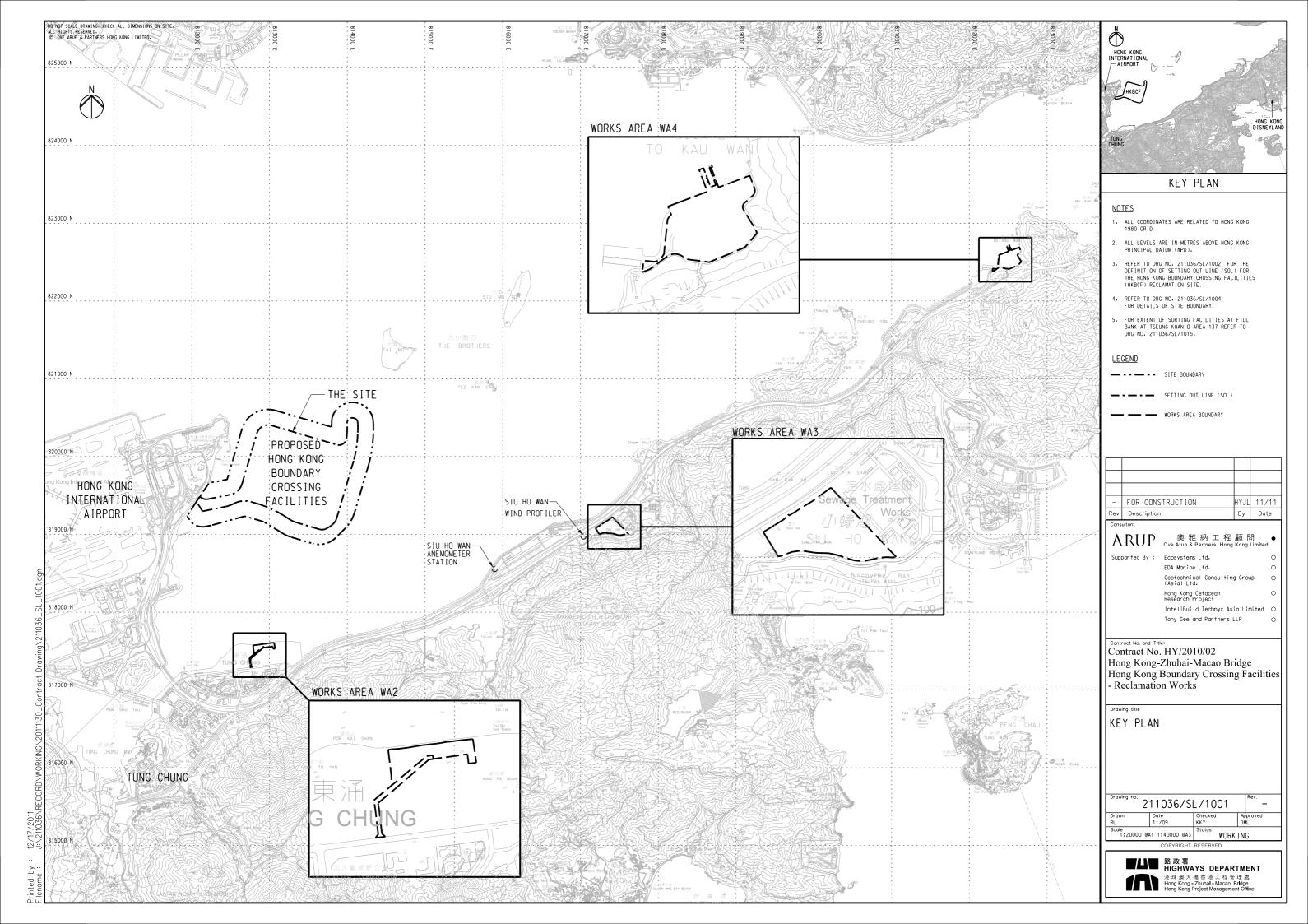


Works Monthly EM&A Report for August 2017

- All types of wastes, both on land and floating in the sea, should be collected and sorted properly and disposed of timely and properly. They should be properly stored in designated areas within works areas temporarily.
- All chemical containers, batteries and oil drums should be properly stored and labelled.
- All plants and vehicles on site should be properly maintained to prevent oil leakage. Proper measures, like drip trays and/or bundings, should be provided for retaining leaked oil/chemical from plants.
- All kinds of maintenance works should be carried out within roofed, paved and confined areas.
- All drain holes of the drip trays utilized within works areas should be properly plugged to avoid any oil and chemical waste leakage.
- Oil stains on soil surface, accumulated oil mixture and empty chemical containers should be cleared and disposed of as chemical waste.
- Regular review should be conducted for working barges and patrol boats to ensure sufficient measures and spill control kits were provided on working barges and patrol boats to avoid any spreading of leaked oil/chemicals.

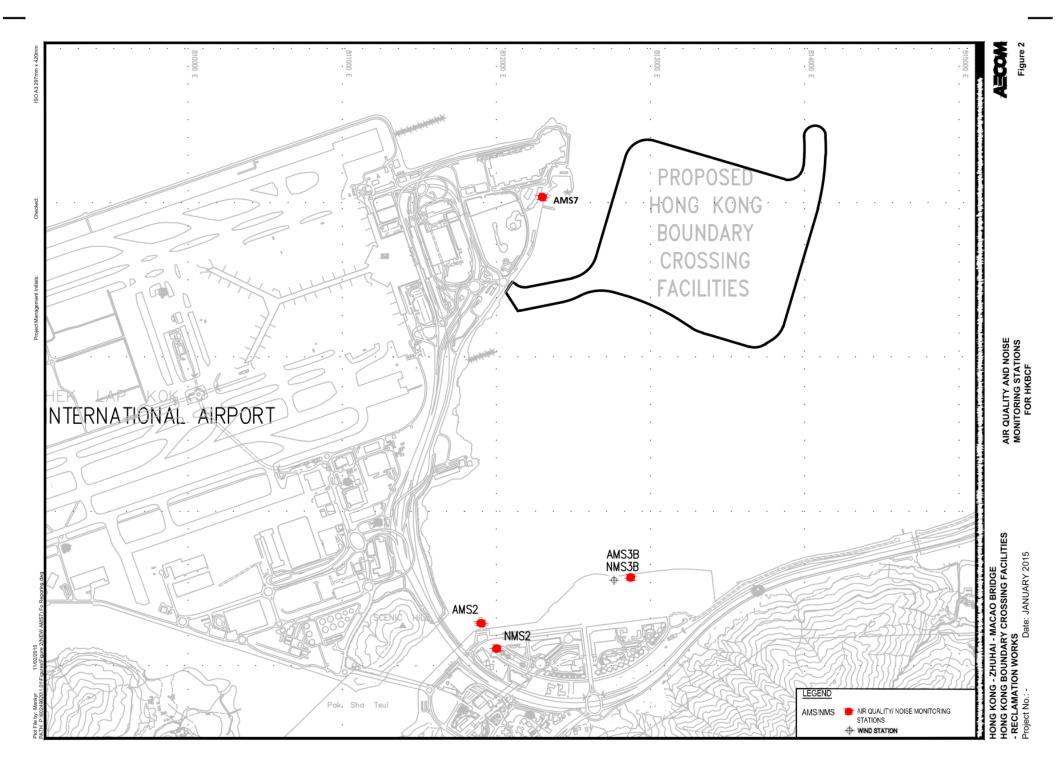
### Landscape and Visual Impact

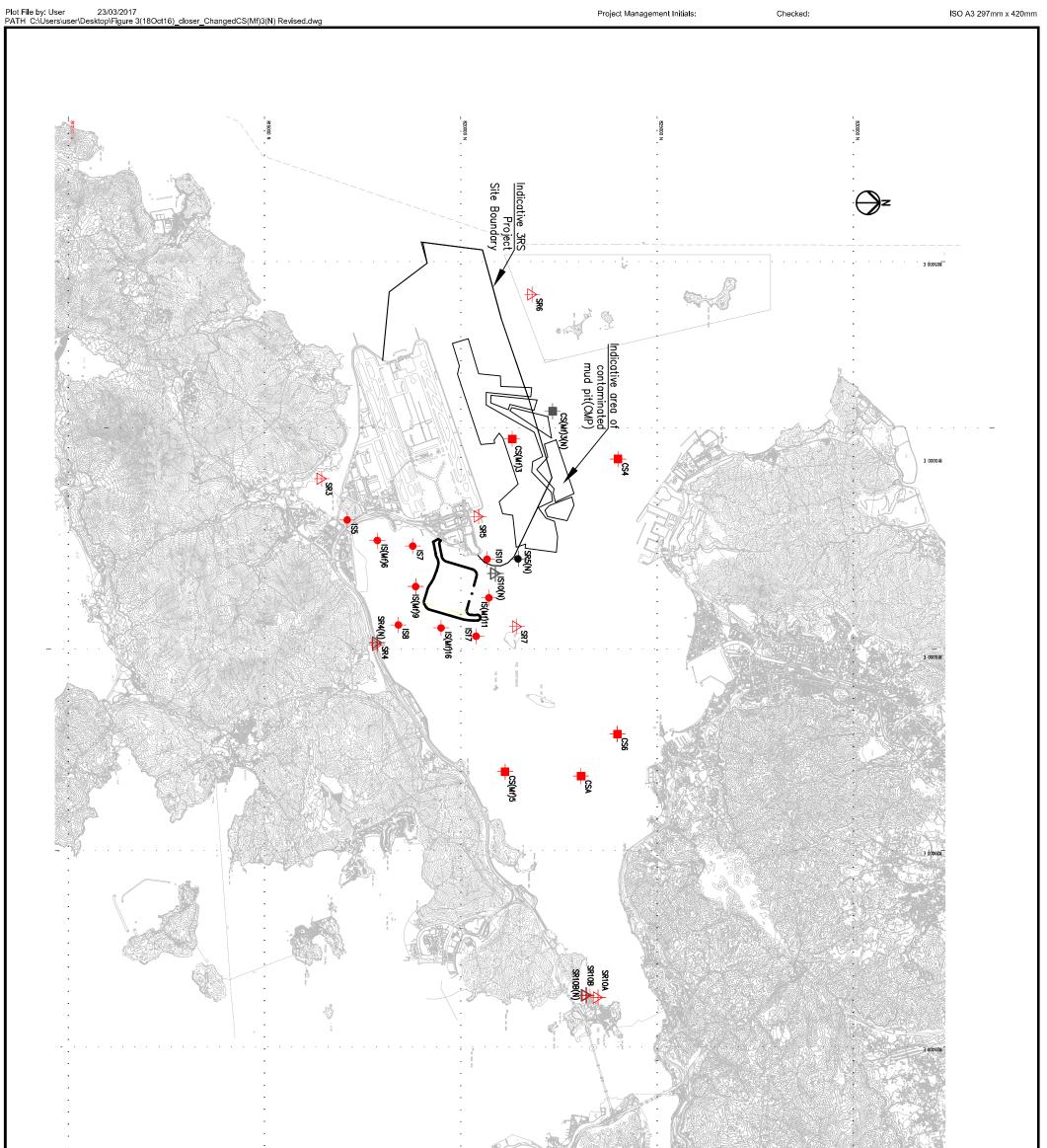
- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.





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	TUNG CHUNG
	KEY PLAN
	NOTES
	<ul> <li>FOR LEGENDS AND NOTES FOR CHAIN LINK FENCE AND GATE REFER TO DRG ND. 211036/SL/1013.</li> </ul>
	<ol> <li>THE ERECTION OF CHAIN LINK FENCE AND GATES SHALL BE COMPLETED BY THE HANDOVER DATE OF</li> </ol>
	EACH PORTION OF SITE, OR AS INSTRUCTED BY THE ENGINEER.
	<ol> <li>FOR SETTING OUT COORDINATES OF DIFFERENT PORTIONS OF SITE REFER TO DRG NO. 211036/SL/1003.</li> </ol>
	<ol> <li>ACCESS POINTS BETWEEN PORTIONS SHALL BE PROVIDED BY THE CONTRACTOR, AND THE LOCATIONS SHALL BE AGREED WITH THE ENGINEER ON SITE.</li> </ol>
	<ol> <li>FOR HOARDING AND FENCE AT FILL BANK AT TSEUNG KWAN O AREA 137 REFER TO DRG NO. 211036/SL/1015.</li> </ol>
	LEGEND
	WORKS AREA BOUNDARY
	PORTIONS BOUNDARY LINE
	-         FOR CONSTRUCTION         HYJL         11/11           Rev         Description         By         Date
	Consultant
	ARUP 奥雅納工程顧問 ● Ove Arup & Partners Hong Kong Limited
	Supported By: Ecosystems Ltd. O EDA Marine Ltd. O
	Geotechnical Consulting Group O (Asia) Ltd.
	Hong Kong Cetacean O Research Project
	InteliBuild Technyx Asia Limited O Tony Gee and Partners LLP O
	Contract No. and Title: Contract No. HY/2010/02
	Hong Kong-Zhuhai-Macao Bridge
	Hong Kong Boundary Crossing Facilities - Reclamation Works
	Drawing title
	WORKS AREA LAYOUT
	AND HORADING PLAN
	(SHEET 2 OF 3)
	Drawing no. Rev.
	Drawn Date Checked Approved
	RL         06/10         KKY         DML           Scale         Status
	1:5000 @A1 1:10000 @A3 WORKING COPYRIGHT RESERVED
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:	港珠澳大橋香港工程管理處 Hong Kong - Zhuhal - Macao Bridge Hong Kong Project Management Office
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CONTROL / FAR FIELD STATIONS (RELOCATED)	SENSITVE RECEIVERS STATIONS (RELOCATED)	IMPACT STATIONS (RELOCATED)	SENSITIVE RECEIVERS STATIONS	CONTROL / FAR FIELD STATIONS	IMPACT STATIONS

# SETTING OUT SCHEDULE

MONITORING	CO-OR	-ORDINATES
IS2	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
IS8	814251	818412
IS(Mf)9	813273	818850
SR5(N)	812569	821475
IS(Mf)11	813562	820716
IS(Mf)16	814328	819497
IS17	814539	820391
SR3	810525	816456
SR4(N)	814705	817859
IS10(N)	812942	820881
SR6	805837	821818
SR7	814293	821431
SR10A	823741	823495
SR10B(N)	823683	823187
CS(Mf)3(N)	808814	822355
CS(Mf)5	817990	821129
CS4	810025	824004
CS6	817028	823992
CSA	818103	823064
IS10	812577	820670
SR5	811489	820455
CS(Mf)3	686608	821117

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# HONG KONG - ZHUHAI - MACAO BRIDGE

### HONG KONG BOUNDARY CROSSING FACILITIES

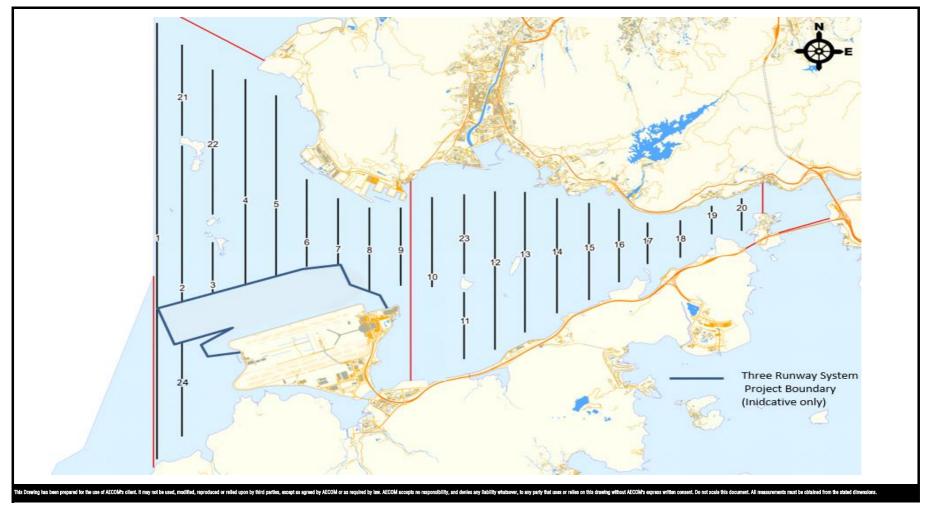
- RECLAMATION WORKS

Project No.: 60249820 Date: AUG 2016

# WATER QUALITY MONITORING STATION



Figure 3



Remarks:

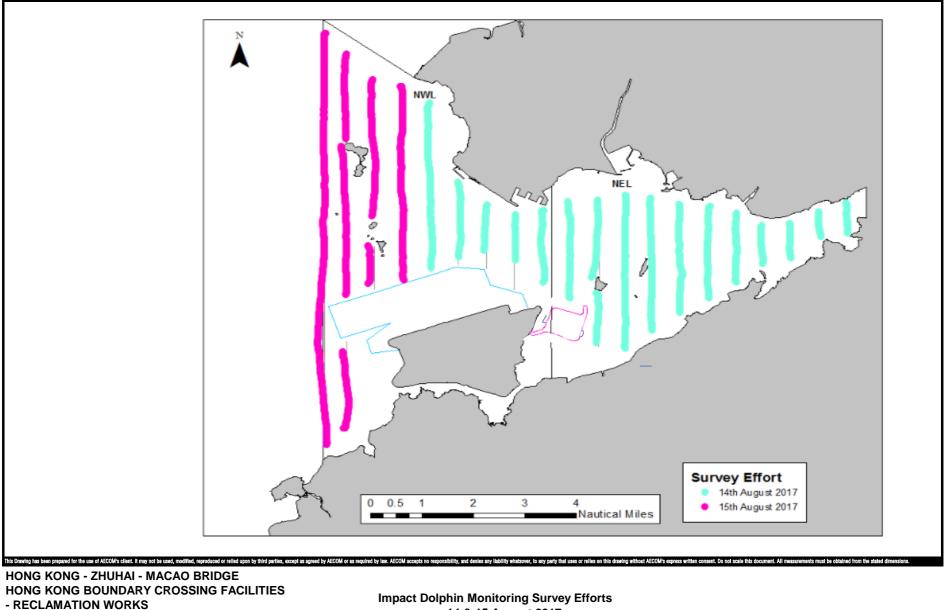
<sup>^</sup>Coordinates for transect lines 2, 3, 4, 5, 6 and 7 have been updated and line 24 was added in respect to the Proposal for Alteration of Transect Line of Dolphin Monitoring and Alternative Monitoring Location for Impact Water Quality Monitoring (IWQM) Stations due to Commencement of Third Runway Project (3RS) which was approved by EPD on 12 May 2017. The total transect length for both NEL and NWL combined is reduced to approximately 99km.

# New projects, large number of barges/vessels were anchored densely at north of Three Runway System project boundary, access to the transect area on lines 1, 2, 3, 4, 5, 7 and 8 were blocked or affected in Aug 2017.

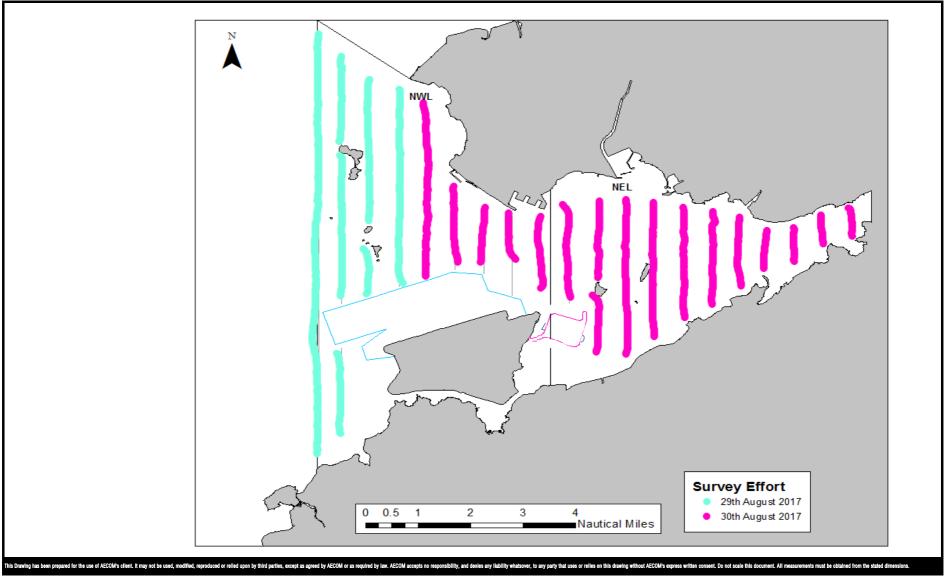
HONG KONG BOUNDARY CORSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: Sep 2017

Impact Dolphin Monitoring Line Transect Layout Map



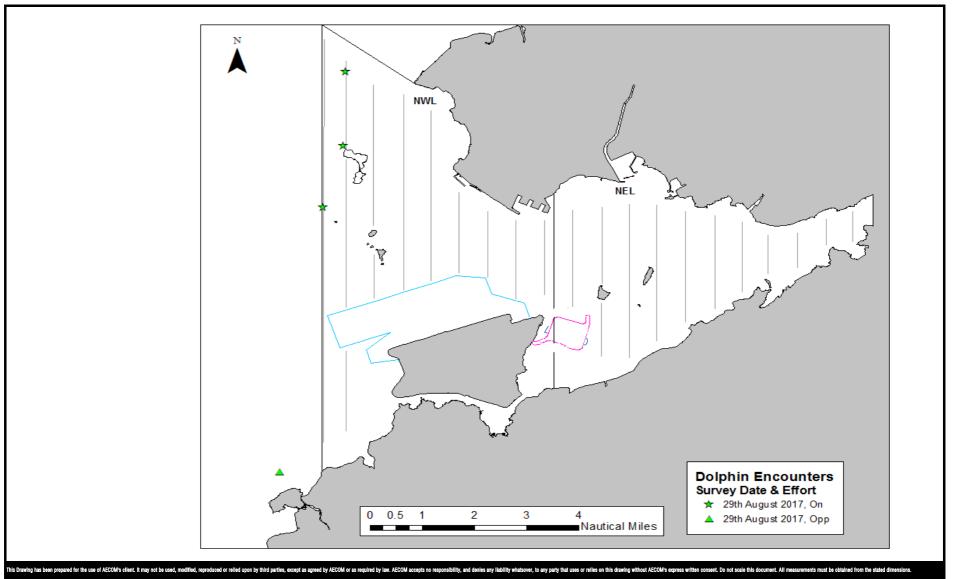


Project No.: 60249820 Date: September 2017 on 14 & 15 August 2017



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES

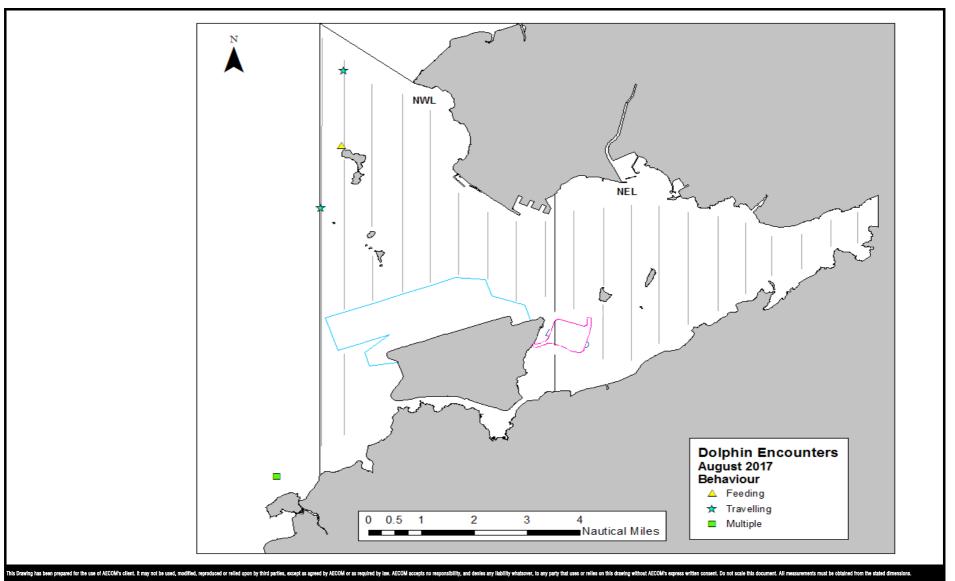
- RECLAMATION WORKS Project No.: 60249820 Date: September 2017 Impact Dolphin Monitoring Survey Efforts on 29 and 30 August 2017



HONG KONG - ZHUHAI - MACAO BRIDGE

HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: September 2017

Impact Dolphin Monitoring Survey Sightings in August 2017

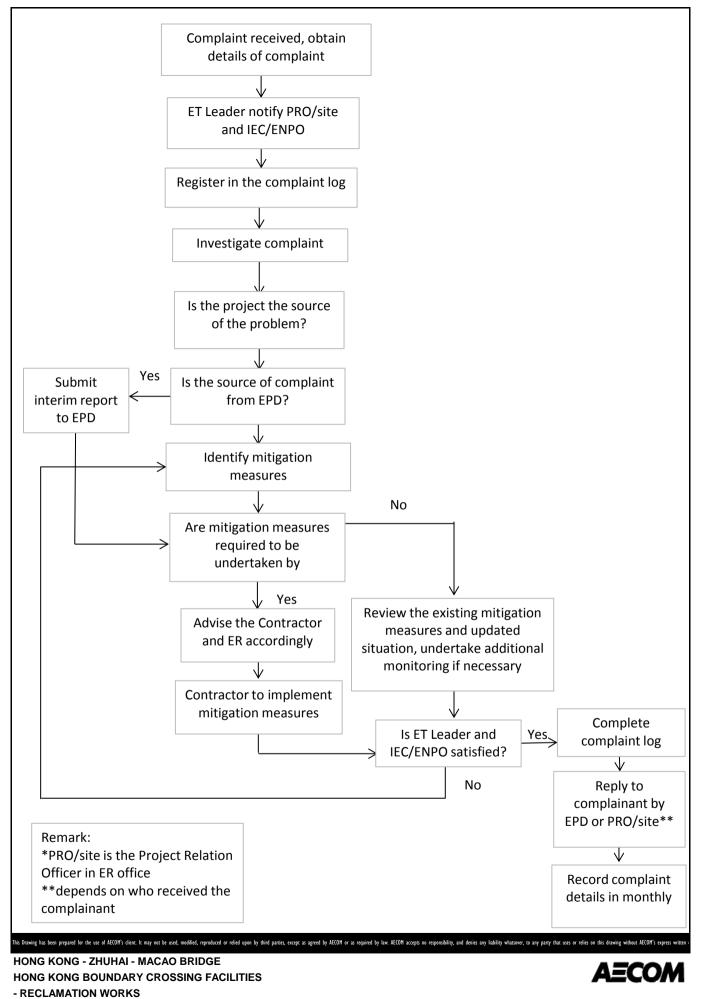


HONG KONG - ZHUHAI - MACAO BRIDGE

HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

Project No.: 60249820 Date: September 2017

Impact Dolphin Monitoring Survey Behaviour Map in August 2017

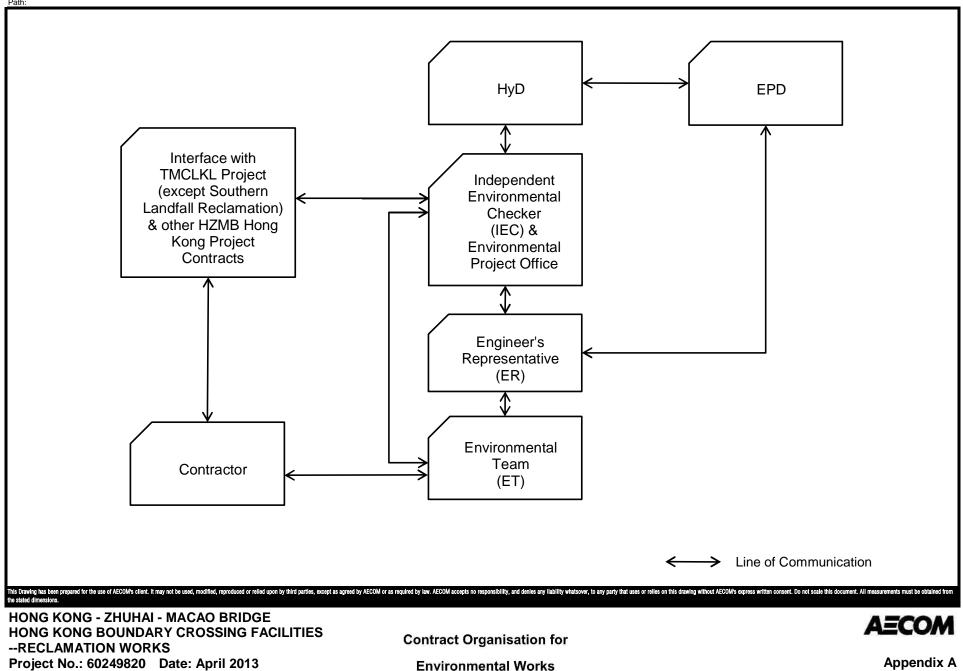


### **Environmental Complaint Handling Procedure**



Checked:

ISO A4 210mm X 297mm



tivity Name					
		Jul	2017 Aug	Sep	Oct
rogress Report Status as on 21July	2017	68	69	70	71
s	2017				
s eawall After Removal of Temporary Jetty by C2 c	control				1
moval of temporary Jetty by C2 Contractor			•		
					1 1 1
-					
				<b>-</b>	
-					
moval of top soil of existing cell at K047/048			<b>_</b>		
t Down existing steel sheet pile & capping beam			▶		
0mm Rockfill bedding					
charge pipe laying					
scharge Pipe Concrete Surrounding			-	3	
tfall Precast Concrete				_	
tfall Curing					
tfall Installation					
exible Joint			Ļ	<b>-</b>	
ckfill					
instatement at K047/048				<b>→</b>	
S	•				
tstanding Land Based GI Works 125nos	1				
tstanding Marine Based GI Works 194nos	1				
	moval of Temp Rockfill Seaside moval of Temp Rockfill Landside tallation Underlayer tallation of Rock Armour Pipe K047/048 moval of top soil of existing cell at K047/048 t Down existing steel sheet pile & capping beam Omm Rockfill bedding scharge pipe laying scharge Pipe Concrete Surrounding tfall Precast Concrete tfall Curing tfall Installation exible Joint ckfill instatement at K047/048 s s	moval of Temp Rockfill Seaside moval of Temp Rockfill Landside tallation Underlayer tallation of Rock Armour Pipe K047/048 moval of top soil of existing cell at K047/048 t Down existing steel sheet pile & capping beam Dmm Rockfill bedding iccharge pipe laying iccharge Pipe Concrete Surrounding tfall Precast Concrete tfall Curing tfall Installation ixible Joint ckfill instatement at K047/048 S tstanding Land Based GI Works 125nos	moval of Temp Rockfill Seaside moval of Temp Rockfill Landside tallation Underlayer tallation of Rock Armour Pipe K047/048 moval of top soil of existing cell at K047/048 t Down existing steel sheet pile & capping beam Dmm Rockfill bedding iccharge pipe laying iccharge Pipe Concrete Surrounding tfall Precast Concrete tfall Curing tfall Installation ixible Joint ckfill instatement at K047/048 S tstanding Land Based GI Works 125nos	moval of Temp Rockfill Seaside moval of Temp Rockfill Landside tallation Underlayer tallation of Rock Armour Pipe K047/048 moval of top soil of existing cell at K047/048 t Down existing steel sheet pile & capping beam Dmm Rockfill bedding charge pipe laying charge Pipe Concrete Surrounding tfall Precast Concrete tfall Curing tfall Installation xible Joint ckfill instatement at K047/048 s tstanding Land Based GI Works 125nos	moval of Temp Rockfill Seaside   moval of Temp Rockfill Landside   tallation Underlayer   tallation of Rock Armour   Pipe K047/048   moval of top soil of existing cell at K047/048   to Down existing steel sheet pile & capping beam   Drmm Rockfill bedding   charge pipe laying   charge pipe Concrete Surrounding   tfall Precast Concrete   tfall Installation   kible Joint   ckfill   instatement at K047/048

Appendix C - Implementation	Schedule of Environmental Mitigation Measures
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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
Air Quality			·	
S5.5.6.1 of	A1	The contractor shall follow the procedures and requirements given in the Air Pollution	All construction sites	V
HKBCFEIA		Control (Construction Dust) Regulation		
S5.5.6.2 of	A2	Proper watering of exposed spoil should be undertaken throughout the construction	All construction sites	V
HKBCFEIA		phase:		
and S4.8.1 of		Any excavated or stockpile of dusty material should be covered entirely by		
TKCLKLEIA		impervious sheeting or sprayed with water to maintain the entire surface wet and		
		then removed or backfilled or reinstated where practicable within 24 hours of the		
		excavation or unloading;		
		Any dusty materials remaining after a stockpile is removed should be wetted with		
		water and cleared from the surface of roads;		
		• A stockpile of dusty material should not be extend beyond the pedestrian barriers,		
		fencing or traffic cones.		
		Where practicable, vehicle washing facilities with high pressure water jet should		
		be provided at every discernible or designated vehicle exit point. The area where		
		vehicle washing takes place and the road section between the washing facilities		
		and the exit point should be paved with concrete, bituminous materials or		
		hardcores;		
		When there are open excavation and reinstatement works, hoarding of not less		
		than 2.4m high should be provided as far as practicable along the site boundary		

Monthly EM&A Report for August 2017

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;		
		• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;		
		<ul> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> </ul>		
		<ul> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> </ul>		
		<ul> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;</li> </ul>		
		<ul> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> </ul>		
		• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;		

2

Monthly EM&A Report for August 2017

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an		
		audible high level alarm which is interlocked with the material filling line and no		
		overfilling is allowed;		
		All unpaved roads/exposed area shall be watered which results in dust		
		suppression by forming moist cohesive films among the discrete grains of road		
		surface material.		
		<ul> <li>No burning of debris or other materials on the works areas is allowed;</li> </ul>		
		Water spray shall be used during the handling of fill material at the site and at		
		active cuts, excavation and fill sites where dust is likely to be created;		
		Open dropping heights for excavated materials shall be controlled to a maximum		
		height of 2m to minimise the fugitive dust arising from unloading;		
		• During transportation by truck, materials shall not be loaded to a level higher than		
		the side and tail boards, and shall be dampened or covered before transport.		
		Materials having the potential to create dust shall not be loaded to a level higher		
		than the side and tail boards, and shall be covered by a clean tarpaulin. The		
		tarpaulin shall be properly secured and shall extend at least 300mm over the		
		edges of the side and tail boards;		
		Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should		
		be carried out in a totally enclosed system or facility, and any vent or exhaust		
		should be fitted with an effective fabric filter or equivalent air pollution control		
		system; and		

Monthly EM&A Report for August 2017

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding,		
		vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable		
		surface stabiliser within six months after the last construction activity on the		
		construction site or part of the construction site where the exposed earth lies.		
S5.5.6.3 of	A3	The Contractor should undertake proper watering on all exposed spoil and associated	All construction sites	V
HKBCFEIA		work areas (with at least 8 times per day) throughout the construction phase.		
and S4.8.1 of				
TKCLKLEIA				
S5.5.6.4 of	A4	Implement regular dust monitoring under EM&A programme during the construction	Selected	V
HKBCFEIA		stage.	representative dust	
and S4.11 of			monitoring station	
TKCLKLEIA				
S5.5.7.1 of	A5	The following mitigation measures should be adopted to prevent fugitive dust emissions	All construction sites	N/A
HKBCFEIA		for concrete batching plant:		
		• Loading, unloading, handling, transfer or storage of any dusty materials should be		
		carried out in totally enclosed system;		
		All dust-laden air or waste gas generated by the process operations should be		
		properly extracted and vented to fabric filtering system to meet the emission limits		
		for TSP;		
		• Vents for all silos and cement/ pulverised fuel ash (PFA) weighing scale should be		
		fitted with fabric filtering system;		

Monthly EM&A Report for August 2017

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		The materials which may generate airborne dusty emissions should be wetted by water spray system;		
		All receiving hoppers should be enclosed on three sides up to 3m above unloading point;		
		All conveyor transfer points should be totally enclosed;		
		• All access and route roads within the premises should be paved and wetted; and		
		Vehicle cleaning facilities should be provided and used by all concrete trucks		
		before leaving the premises to wash off any dust on the wheels and/or body.		
S5.5.2.7 of	A6	The following mitigation measures should be adopted to prevent	All construction sites	N/A
HKBCFEIA		fugitive dust emissions at barging point:		(Construction in
		All road surface within the barging facilities will be paved;		process)
		Dust enclosures will be provided for the loading ramp;		
		Vehicles will be required to pass through designated wheels wash facilities; and		
		Continuous water spray at the loading points.		
Construction	Noise (Air born	ne)		
S6.4.10 of	N1	Use of good site practices to limit noise emissions by considering the following:	All construction sites	V
HKBCFEIA		only well-maintained plant should be operated on-site and plant should be		
		serviced regularly during the construction programme;		
		machines and plant (such as trucks, cranes) that may be in intermittent use		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		should be shut down between work periods or should be throttled down to a minimum;		
		<ul> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> </ul>		
		<ul> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> </ul>		
		• mobile plant should be sited as far away from NSRs as possible and practicable;		
		• material stockpiles, mobile container site officer and other structures should be		
		effectively utilised, where practicable, to screen noise from on-site construction activities.		
S6.4.11 of	N2	Install temporary hoarding located on the site boundaries between noisy construction	All construction sites	V
HKBCFEIA		activities and NSRs. The conditions of the hoardings shall be properly maintained		
		throughout the construction period.		
S6.4.12 of	N3	Install movable noise barriers (typically density @14kg/m <sup>2</sup> ), acoustic mat or full	For plant items listed	N/A
HKBCFEIA		enclosure close to noisy plants including air compressor, generators, saw.	in Appendix 6D of the	
			EIA report at all	
			construction sites	
S6.4.13 of	N4	Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed	V
HKBCFEIA			in Appendix 6D of the	
			EIA report at all	
			construction sites	

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
S6.4.14 of	N5	Sequencing operation of construction plants where practicable.	All construction sites	V
HKBCFEIA			where practicable	
S5.1 of	N6	Implement a noise monitoring under EM&A programme.	Selected	V
TMCLKLEIA			representative noise	
			monitoring station	
Waste Manag	ement (Consti	ruction Waste)		
S12.6 of	WM1	The Contractor shall identify a coordinator for the management of waste.		V
TMCLKLEIA			All construction sites	
S12.6 of	WM2	The Contractor shall apply for and obtain the appropriate licenses for the disposal of	All construction sites	V
TMCLKLEIA		public fill, chemical waste and effluent discharges.		
S12.6 of	WM3	EM&A of waste handling, storage, transportation, disposal procedures and		V
TMCLKLEIA		documentation through the site audit programme shall be undertaken.	All construction sites	
S8.3.8 of	WM4	Construction and Demolition Material		V
HKBCFEIA		The following mitigation measures should be implemented in handling the waste:		
and S12.6 of				
TMCLKLEIA		Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;	All construction sites	
		Carry out on-site sorting;		
		Make provisions in the Contract documents to allow and promote the use of		
		recycled aggregates where appropriate;		
		Adopt 'Selective Demolition' technique to demolish the existing structures and		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;		
		<ul> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified;</li> </ul>		
		<ul> <li>Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on- site sorting of C&amp;D materials and to minimize their generation during the course of construction;</li> </ul>		
		<ul> <li>In addition, disposal of the C&amp;D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation; and</li> <li>The surplus surcharge should be transferred to a fill bank.</li> </ul>		
S8.3.9- S8.3.11 of HKBCFEIA and S12.6 of TMCLKLEIA	WM5	<ul> <li><u>C&amp;D Waste</u></li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding and falsework should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering</li> </ul>	All construction sites	V

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		and wastage.		
		• The Contractor should recycle as much of the C&D materials as possible on-site.		
		Public fill and C&D waste should be segregated and stored in different containers		
		or skips to enhance reuse or recycling of materials and their proper disposal.		
		Where practicable, concrete and masonry can be crushed and used as fill. Steel		
		reinforcement bar can be used by scrap steel mills. Different areas of the sites		
		should be considered for such segregation and storage.		
S8.2.12-	WM6	Chemical Waste	All construction sites	V
S8.3.15 of HKBCFEIA and S12.6 of TMCLKLEIA		Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.		
		<ul> <li>Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest centerior or 20 % of the tatel volume of waste storage in that</li> </ul>		
		volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		<ul> <li>rainfall entering; and arranged so that incompatible materials are adequately separated.</li> <li>Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.</li> </ul>		
S8.3.16 of HKBCFEIA and S12.6 of TMCLKLEIA	WM7	<ul> <li><u>Sewage</u></li> <li>Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.</li> </ul>	All construction sites	V
S8.3.17 of HKBCFEIA and S12.6 of TMCLKLEIA	WM8	<ul> <li><u>General Refuse</u></li> <li>The site and surroundings shall be kept tidy and litter free. General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</li> </ul>	All construction sites	V

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		Aluminium cans are often recovered from the waste stream by individual collectors		
		if they are segregated and made easily accessible. Separate labelled bins for their		
		deposit should be provided if feasible.		
		Office wastes can be reduced through the recycling of paper if volumes are large		
		enough to warrant collection. Participation in a local collection scheme should be		
		considered by the Contractor. In addition, waste separation facilities for paper,		
		aluminum cans, plastic bottles etc., should be provided.		
		Training should be provided to workers about the concepts of site cleanliness and		
		appropriate waste management procedure, including reduction, reuse and		
		recycling of wastes.		
		Sufficient dustbins shall be provided for storage of waste as required		
		under the Public Cleansing and Prevention of Nuisances By-laws. In addition,		
		general refuse shall be cleared daily and shall be disposed of to the nearest		
		licensed landfill or refuse transfer station.		
		All waste containers shall be in a secure area on hardstanding.		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
Water Quality	(Construction	i Phase)		
Water Quality	v (Construction W1	<ul> <li>Phase)</li> <li>Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of backfilling, as well as protection measures. Details of the measures are provided below:</li> <li>Reclamation filling for the Project shall not proceed until at least 200m of leading seawall at the reclamation area formed above +2.2mPD, unless otherwise agreement was obtained from EPD, except for the 300m gaps for marine access. All underwater filling works shall be carried out behind seawalls to avoid dispersion of suspended solids outside the Project limit;</li> <li>Except for the filling of the cellular structures, not more than 15% public fill shall be</li> </ul>	During filling	V
		<ul> <li>used for reclamation filling below +2.5mPD during construction of the seawall;</li> <li>After the seawall is completed except for the 300m marine access as indicated in the EPs, not more than 30% public fill shall be used for reclamation filling below +2.5mPD, unless otherwise agreement from EPD was obtained;</li> <li>Upon completion of 200m leading seawall, no more than a total of 60 filling barge trips per day shall be made with a cumulative maximum daily filling rate of 60,000 m3 for HKBCF and TMCLKL southern landfall reclamation during the filling operation; and</li> <li>Upon completion of the whole section of seawall except for the 300m marine</li> </ul>		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		access as indicated in the EPs, no more than a total of 190 filling barge trips per		
		day shall be made with a cumulative maximum daily filling rate of 190,000 m3 for		
		the remaining filling operations for HKBCF and TMCLKL southern landfall		
		reclamation.		
		Floating type perimeter silt curtains shall be around the HKBCF site before the		
		commencement of marine works. Staggered layers of silt curtain shall be provided		
		to prevent sediment loss at navigation accesses. The length of each staggered		
		layers shall be at least 200m;		
		• Single layer silt curtain to be applied around the North-east airport water intake;		
		The silt-curtains should be maintained in good condition to ensure the sediment		
		plume generated from filling be confined effectively within the site boundary;		
		• The filling works shall be scheduled to spread the works evenly over a working day;		
		Cellular structure shall be used for seawall construction;		
		• A layer of geotextile shall be placed on top of the seabed before any filling activities		
		take place inside the cellular structures to form the seawall;		
		The conveyor belts shall be fitted with windboards and conveyor release points		
		shall be covered with curtain to prevent any spillage of filling materials onto the		
		surrounding waters; and		
		An additional layer of silt curtain shall be installed near the active stone column		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		installation points. A layer of geotextile with stone blanket on top shall be placed		
		on the seabed prior to stone column installation works.		
S9.11.1.3 of	W2	Land Works	All land-based	V
HKBCFEIA		General construction activities on land should also be governed by standard good	construction sites	
and S6.10		working practice. Specific measures to be written into the works contracts should		
of		include:		
TMCLKLEIA		<ul> <li>wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;</li> </ul>		
		<ul> <li>sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided;</li> </ul>		
		storm drainage shall be directed to storm drains via adequately designed sand/silt		
		removal facilities such as sand traps, silt traps and sediment basins.		
		Channels, earth bunds or sand bag barriers should be provided on site to properly		
		direct stormwater to such silt removal facilities. Catchpits and perimeter channels		
		<ul> <li>should be constructed in advance of site formation works and earthworks;</li> <li>silt removal facilities, channels and manholes shall be maintained and any</li> </ul>		
		deposited silt and grit shall be removed regularly, including specifically		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		at the onset of and after each rainstorm;		
		<ul> <li>temporary access roads should be surfaced with crushed stone or gravel;</li> </ul>		
		rainwater pumped out from trenches or foundation excavations should be		
		discharged into storm drains via silt removal facilities;		
		measures should be taken to prevent the washout of construction materials, soil,		
		silt or debris into any drainage system;		
		open stockpiles of construction materials (e.g. aggregates and sand) on site		
		should be covered with tarpaulin or similar fabric during rainstorms;		
		manholes (including any newly constructed ones) should always be adequately		
		covered and temporarily sealed so as to prevent silt, construction materials or		
		debris from getting into the drainage system, and to prevent storm run-off		
		from getting into foul sewers;		
		discharges of surface run-off into foul sewers must always be prevented in		
		order not to unduly overload the foul sewerage system;		
		all vehicles and plant should be cleaned before they leave the construction site to		
		ensure that no earth, mud or debris is deposited by them on roads. A wheel		
		washing bay should be provided at every site exit;		
		wheel wash overflow shall be directed to silt removal facilities before being		
		discharged to the storm drain;		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		the section of construction road between the wheel washing bay and the public		
		road should be surfaced with crushed stone or coarse gravel;		
		wastewater generated from concreting, plastering, internal decoration, cleaning		
		work and other similar activities, shall be screened to remove large objects;		
		• vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall		
		be located under roofed areas. The drainage in these covered areas shall be		
		connected to foul sewers via a petrol interceptor in accordance with the		
		requirements of the WPCO or collected for offsite disposal;		
		the contractors shall prepare an oil / chemical cleanup plan and ensure that		
		leakages or spillages are contained and cleaned up immediately;		
		waste oil should be collected and stored for recycling or disposal, in accordance		
		with the Waste Disposal Ordinance;		
		• all fuel tanks and chemical storage areas should be provided with locks and be		
		sited on sealed areas. The storage areas should be surrounded by bunds with a		
		capacity equal to 110% of the storage capacity of the largest tank; and		
		surface run-off from bunded areas should pass through oil/grease traps prior to		
		discharge to the storm water system		
S9.14 of	W3	Implement a water quality monitoring programme	At identified	V
HKBCFEIA			monitoring location	
and S6.10 of				

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EIA Ref.	EM&A Log Ref	Environmental Mitigation Measures	Location	Implementation Status
TMCLKLEIA	Rei			Status
S6.10 of	W4	All construction works shall be subject to routine audit to ensure implementation of all	All construction site	V
TMCLKLEIA		EIA recommendations and good working practice.	areas	
Ecology (Cons	struction Phas	e)		
S10.7 of	E1	Install silt curtain during the construction	Seawall, reclamation	V
HKBCFEIA		Limit works fronts	area	
and S8.14 of				
TMCLKLEIA				
		Good site practices		
		Strict enforcement of no marine dumping		
		Site runoff control		
		Spill response plan		
S10.7 of	E2	Watering to reduce dust generation; prevention of siltation of freshwater habitats;	Land-based works	V
HKBCFEIA		Site runoff should be desilted, to reduce the potential for suspended sediments,	areas	
		organics and other contaminants to enter streams and standing freshwater.		
S10.7 of	E3	Good site practices, including strictly following the permitted works hours, using	Land-based works	V
HKBCFEIA		quieter machines where practicable, and avoiding excessive lightings during night	areas	
and S8.14 of		time.		
TMCLKLEIA				
S10.7 of	E4	Dolphin Exclusion Zone	Marine works	V

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
HKBCFEIA		Dolphin watching plan		
and S8.14 of				
TMCLKLEIA				
S10.7 of	E5	<ul> <li>Decouple compressors and other equipment on working vessels</li> </ul>	Marine works	V
HKBCFEIA		<ul> <li>Proposal on design and implementation of acoustic decoupling measures applied</li> </ul>		
and S8.14 of		during reclamation works		
TMCLKLEIA		Avoidance of percussive piling		
S10.7 of	E6	Control vessel speed	Marine traffic	V
HKBCFEIA				
and S8.14 of		Skipper training		
TMCLKLEIA		<ul> <li>Predefined and regular routes for working vessels; avoid Brothers Islands</li> </ul>		
S10.10 of	E7	Vessel based dolphin monitoring	Northeast and	V
HKBCFEIA			Northwest	
and S8.14 of			Lantau	
TMCLKLEIA				
Fisheries				
S11.7 of	F1	Reduce re-suspension of sediments	Seawall, reclamation	V
HKBCFEIA		Limit works fronts	area	
		Good site practices		
		<ul> <li>Strict enforcement of no marine dumping</li> </ul>		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		Spill response plan		
S11.7 of	F2	<ul> <li>Install silt-grease trap in the drainage system collecting surface runoff</li> </ul>	Reclamation area	V
HKBCFEIA				
Landscape &	Visual (Constr	uction Phase)		
S14.3.3. 3 of	LV1	Mitigate Landscape Impacts	All construction site	N/A
HKBCFEIA			areas	
and S10.9 of		G1/CM4 Grass-hydroseed or sheeting bare soil surface and stock pile areas.		
TMCLKLEIA		G9 Reserve of loose natural granite rocks for re-use. Provide new coastline to		
		adopt "natural-look" by means of using armour rocks in the form of natural		
		rock materials and planting strip area accommodating screen buffer to		
		enhance "natural-look" of new coastline.		
S10.9 of	LV2	Mitigate Landscape Impacts	All construction site	V
TMCLKLEIA		CM7 Ensure no run-off into water body adjacent to the Project Area.	areas	
S14.3.3. 3 of	LV4	Mitigate Visual Impacts	All construction site	V
HKBCFEIA		V1 Minimize time for construction activities during construction period.	areas	
S10.9 of	LV5	Mitigate Visual Impacts	All construction site	V
TMCLKLEIA		CM6 Control night-time lighting and glare by hooding all lights.	areas	
EM&A			·	·
S15.2.2 of	EM1	An Independent Environmental Checker needs to be employed as per the EM&A	All construction site	V
HKBCFEIA		Manual.	areas	

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
S15.5 - S15.6	EM2	An Environmental Team needs to be employed as per the EM&A Manual.	All construction site	V
of HKBCFEIA		<ul> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</li> </ul>	areas	
		<ul> <li>An environmental impact monitoring needs to be implementing by the</li> </ul>		
		Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.		

Legend: V = implemented;

x = not implemented;

N/A = not applicable

## Appendix D - Summary of Action and Limit Levels

Location	Action Level	Limit Level
AMS2	374 μg/m³	500 μg/m³
AMS3B*	368 μg/m³	500 μg/m³
AMS6	360 μg/m³	500 μg/m³
AMS7	370 μg/m³	500 μg/m³

Table 1 – Action and Limit Levels for 1-hour TSP

Remarks: \* Action Level set out at AMS3 Ho Yu College is adopted.

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AMS2	176 μg/m³	260 μg/m³
AMS3B*	167 μg/m³	260 μg/m³
AMS6	173 μg/m³	260 μg/m³
AMS7	183 μg/m³	260 μg/m³

Remarks: \* Action Level set out at AMS3 Ho Yu College is adopted.

Location	Action Level	Limit Level
NMS2	When one documented	75 dB(A)
	complaint, related to 0700 -	
	1900 hours on normal	
NMS3B	weekdays, is received	*65 / 70 dB(A)
	from any one of the sensitive	
	receivers	

\*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

Parameters	Action	Limit
DO in mg L <sup>-1</sup>	Surface and Middle	Surface and Middle
(Surface, Middle & Bottom)	5.0	4 .2 (except 5 mg/L for FCZ)
	Bottom	<u>Bottom</u>
	4.7	3.6
SS in mg L <sup>-1</sup>	23.5 and 120% of upstream	34.4 and 130% of upstream
(depth-averaged)	control station's SS at the	control station's SS at the same
	same tide of the same day	tide of the same day and
		10mg/L for WSD Seawater
		intakes
Turbidity in NTU	27.5 and 120% of upstream	47.0 and 130% of upstream
(depth-averaged)	control station's turbidity at	control station's turbidity at the
	the same tide of the same	same tide of the same day
	day	

Table 4 – Action and Limit Levels for Water Quality

Notes:

- 1. "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- 2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- 3. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table 5(a) Action and Limit Levels for Chinese White Dolphin Monitoring - Approach to Define Action Level (AL) and Limit Level (LL):

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 70% of baseline) &	(STG < 70% of baseline) &
	(ANI < 70% of baseline)	(ANI < 70% of baseline)
Limit Level	[(STG < 40% of baseline) & (ANI < 40% of baseline)] AND	
	[ (STG < 40% of baseline) & (ANI < 40% of baseline)]	

For North Lantau Social Cluster, action level will be trigger if either NEL **or** NWL fall below the criteria; limit level will be triggered if both NEL **and** NWL fall below the criteria.

Table 5(b) Derived Value of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 4.2) &	(STG < 6.9) &
	(ANI < 15.5 )	(ANI < 31.3)
Limit Level	[(STG < 2.4) & (ANI <8.9)] AND	
	[ (STG < 3.9)& (ANI < 17.9)]	

Station	Tung Chung Deve	elopment Pier (AN	IS2) Operator:	Choi Wing Ho	
Cal. Date:	12-Jul-17		Next Due Date:	12-Sep-17	
Equipment No.:	A-001-78T	-	Serial No.	3383 -	
		1	Ambient Condition		
Temperat	ure, Ta (K)	304.0	Pressure, Pa (mmHg)	757.0	
	,				

	(	<b>Drifice Transfer Sta</b>	andard Information			
Serial No:	988	Slope, mc	1.98425	Intercept, bc	-0.0093	
Last Calibration Date:	22-May-17	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>				
Next Calibration Date:	22-May-18	Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc				

		Calibration of	i tor oumpion		
		Orfice	HVS Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.0	2.61	1.32	46.0	45.45
13	6.1	2.44	1.23	42.0	41.50
10	4.9	2.19	1.11	35.0	34.58
7	3.7	1.90	0.96	28.0	27.67
5	3.0	1.71	0.87	24.0	23.72
Slope , mw = Correlation Coe		0.9985	Intercept, bw =	-18.	7609
Slope , mw = Correlation Coe	48.5516 efficient* =	check and recalibrate.	_	-18.	7609
Slope , mw = Correlation Coe 'If Correlation Co	48.5516 efficient* = 	check and recalibrate.	Intercept, bw =	-18.	7609
Slope , mw = Correlation Coe *If Correlation Co From the TSP F	48.5516 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate. Set Point rve, take Qstd = 1.30m <sup>3</sup> /min	_	-18.	7609
Slope , mw = Correlation Coe *If Correlation Co From the TSP F	48.5516 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate.	_	-18.	7609
Slope , mw = Correlation Coe *If Correlation Co From the TSP F	48.5516 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate. Set Point rve, take Qstd = 1.30m <sup>3</sup> /min	Calculation		7609
Slope , mw = Correlation Coe *If Correlation Coe From the TSP F From the Regres	48.5516 efficient* = cefficient < 0.990, of ield Calibration Cur ssion Equation, the	check and recalibrate. Set Point rve, take Qstd = 1.30m <sup>3</sup> /min "Y" value according to	- Calculation x [(Pa/760) x (298/		44.89

Remarks:				
QC Reviewer: _	WS	CHAN	Signature:	Date: 12/7/17 D:\HVS Calibration Certificate (Existing

	(AMS3B) Operator:	Shum Kam Yuen	
-17	Next Due Date:	28-Aug-17	
9T	Serial No.	3384	
	Ambient Condition		
305.6	Pressure, Pa (mmHg)	757.8	
	9T305.6	Y9T Serial No	Y9T     Serial No.     3384       Ambient Condition

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.98425	Intercept, bc	-0.0093		
Last Calibration Date:	22-May-17	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>					
Next Calibration Date:	22-May-18	Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc					

.

		Calibration of	of TSP Sampler		
		Orfice		HVS	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	6.9	2.59	1.31	49.0	48.32
13	6.0	2.42	1.22	43.0	42.40
10	4.9	2.18	1.10	37.0	36.48
7	3.2	1.76	0.89	22.0	21.69
5	2.3	1.50	0.76	16.0	15.78
By Linear Regre Slope , mw = Correlation Coe	ession of Y on X 60.0954 fficient* =	- 0.9956	Intercept, bw =	-30.0	6308
*If Correlation Co	pefficient < 0.990, c	sheck and recalibrate.	Calculation		
From the TSP Fi	eld Calibration Cur	ve, take Qstd = 1.30m <sup>3</sup> /min	Calculation		
		"Y" value according to	¥1		
	,				
		mw x Qstd + bw = IC	x [(Pa/760) x (298/	Га)] <sup>1/2</sup>	
Therefore, Set P	oint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	98 )] <sup>1/2</sup> =		48.16
Remarks:		'n			
QC Reviewer:	MY Shon	Signature:	Ing		Date: 28/6/17

D:\HVS Calibration Certificate (Existing)\6

Station S	ite Boundary of	Site Office (WA2)	(AMS3B) Operator:	Shum Kam Yuen	
Cal. Date:	28-Aug-17		Next Due Date:	28-Oct-17	_
Equipment No.:	A-001-79T	-	Serial No.	3384	
			Ambient Condition		
Temperature	e, Ta (K)	305.0	Pressure, Pa (mmHg)	755.0	
Temperature	e, Ta (K)	305.0	Pressure, Pa (mmHg)	755.0	

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.98425	Intercept, bc	-0.0093		
Last Calibration Date:	22-May-17	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>					
Next Calibration Date:	22-May-18	Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc					

		Calibration of	of TSP Sampler		
		Orfice		HV	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.0	2.61	1.32	50.0	49.26
13	6.0	2.41	1.22	43.0	42.36
10	5.0	2.20	1.11	37.0	36.45
7	3.2	1.76	0.89	23.0	22.66
5	2.4	1.53	0.77	15.0	14.78
		check and recalibrate.			
		Set Point	Calculation		
From the TSP Fi	eld Calibration Cur	ve, take Qstd = 1.30m <sup>3</sup> /min			
From the Regres	sion Equation, the	"Y" value according to			
				4/2	
		mw x Qstd + bw = IC ;	х [(Ра/760) х (298/1	「a)]" <sup>2</sup>	
Therefore, Set Pe	oint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	98 )] <sup>1/2</sup> =		48.56
Therefore, Set Po	oint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	08 )] <sup>1/2</sup> =	-	48.56
Therefore, Set Po	pint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	08 )] <sup>1/2</sup> =		48.56
	pint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	08 )] <sup>1/2</sup> =		48.56
	oint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	08 )] <sup>1/2</sup> =		48.56
Therefore, Set Po Remarks: QC Reviewer:			8)] <sup>1/2</sup> =		<u>48.56</u> Date: <u>28/8/(7</u>

D:\HVS Calibration Certificate (Existing)\6

Station	Hong Kong SkyCi	ity Marriott Hotel (	AMS7) Operator:	Sham Kam Yuen	_
Cal. Date:	28-Jun-17		Next Due Date:	28-Aug-17	_
Equipment No.:	A-001-80T	-	Serial No.	3385	<u>.</u>
			Ambient Condition		
Temperatu	ire, Ta (K)	305.6	Pressure, Pa (mmHg)	757.8	

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.98425	Intercept, bc	-0.0093		
Last Calibration Date:	22-May-17	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>					
Next Calibration Date:	Next Calibration Date: 22-May-18 Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc						

		Calibration of	of TSP Sampler		
		Orfice		HVS	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.1	2.63	1.33	48.0	47.33
13	6.2	2.46	1.24	42.0	41.41
10	4.9	2.18	1.10	36.0	35.50
7	3.3	1.79	0.91	24.0	23.67
5	2.4	1.53	0.77	17.0	16.76
Slope , mw = Correlation Coe		0.9977	Intercept, bw =	20.1	6230
*If Correlation Co	pefficient < 0.990, c	check and recalibrate.	he de g	1	
	Line C.		t Calculation		
		ve, take Qstd = 1.30m <sup>3</sup> /min	6		
From the Regres	sion Equation, the	"Y" value according to			
		mw x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	
		astd + bw ) x [( 760 / Pa ) x ( Ta / 2	09 \1 <sup>1/2</sup> _		46.06
Ineretore, Set P	oint; iC = ( mw x G	(1812 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x	90 /]  -		40.00
_		be			
Remarks:					

D:\HVS Calibration Certificate (Existing)

Station Hong Kong SkyCity Marriott Hotel (AMS7)		(AMS7) Operator:	Sham Kam Yuen		
Cal. Date:	28-Aug-17		Next Due Date:	28-Oct-17	
Equipment No.:	A-001-80T	Serial No.		3385	
			Ambient Condition		
Temperat	ure, Ta (K)	305.0	Pressure, Pa (mmHg)	755.0	

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.98425	Intercept, bc	-0.0093		
Last Calibration Date:	22-May-17	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>					
Next Calibration Date:	22-May-18	Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc					

1

		Calibration of	of TSP Sampler				
		Orfice		HVS Flow Recorder			
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Record Reading IC (CFM) Y-ax		
18	7.0	2.61	1.32	48.0	47.29		
13	6.0	2.41	1.22	42.0	41.38		
10	4.9	2.18	1.10	35.0	34.48		
7	3.2	1.76	0.89	24.0	23.64		
5	2.5	1.56	0.79	17.0	16.75		
By Linear Regre Slope , mw = Correlation Coe	ession of Y on X 56.6469 fficient* =	0.9986	Intercept, bw =	-27.6	5269		
Slope , mw = Correlation Coe	56.6469 fficient* =	0.9986 heck and recalibrate.	Intercept, bw =	-27.6	6269		
Slope , mw = Correlation Coe	56.6469 fficient* =	heck and recalibrate.	-	-27.6	5269		
Slope , mw = Correlation Coe	<b>56.6469</b> <b>fficient* =</b> pefficient < 0.990, c	heck and recalibrate. Set Point	Intercept, bw =  Calculation	-27.6	5269		
Slope , mw = Correlation Coe If Correlation Co From the TSP Fi	56.6469 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min	-	-27.0	5269		
Slope , mw = Correlation Coe If Correlation Co From the TSP Fi	56.6469 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate. Set Point	-	-27.6	5269		
Slope , mw = Correlation Coe If Correlation Co From the TSP Fi	56.6469 fficient* = pefficient < 0.990, c eld Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min	Calculation		5269		
Slope , mw = Correlation Coe If Correlation Co From the TSP Fi From the Regres	56.6469 fficient* = pefficient < 0.990, c eld Calibration Cur sion Equation, the	heck and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min "Y" value according to	Calculation x [(Pa/760) x (298/1		46.71		

Remarks:						
QC Reviewer:	WS	CHAN	Signature:	PI	Date: _	28/8/17

D:\HVS Calibration Certificate (Existing)



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

# ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator		7 Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	295 - 754.38
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3910 0.9810 0.8750 0.8330 0.6890	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

# DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9984 0.9942 0.9921 0.9910 0.9858	0.7178 1.0135 1.1338 1.1897 1.4307	1.4161 2.0027 2.2391 2.3484 2.8322		0.9957 0.9915 0.9894 0.9883 0.9831	0.7158 1.0107 1.1308 1.1865 1.4269	0.8844 1.2507 1.3983 1.4666 1.7687
Qstd slop intercept coefficie y axis =	(b) = ent (r) =	1.98425 -0.00930 0.99998 Pa/760) (298/5	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Qa slope intercept coefficie v axis =	z (b) =	1.24250 -0.00581 0.99998

# CALCULATIONS

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

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

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

Laser Dust Monitor		
SIBATA		
LD-3		
A.005.07a		
557 CPM		

Mike Shek (MSKM)

# Standard Equipment

Operator:

Equipment:	Rupprecht a	& Patashnick TEOM®				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	K <sub>o</sub> :	12500		
Last Calibration Date*:	6 May 2017					

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

557 CPM 557 CPM

Hour	Date (dd-mm-yy)	-	Time	Э	Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	06-05-17	12:30	-	13:30	27.5	78	0.04741	1894	31.57
2	06-05-17	13:30	-	14:30	27.6	78	0.04823	1933	32.22
3	06-05-17	14:30	12	15:30	27.6	79	0.04968	1987	33.12
4	06-05-17	15:30	-	16:30	27.6	79	0.04785	1915	31.92

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X			
Slope (K-factor):	0.0015		
Correlation coefficient:	0.9957		
Validity of Calibration Record:	6 May 2018		

Remai	'KS:

				•	
QC Reviewer:	YW Fung	Signature: _	1	Date:	08 May 2017

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.08a
Sensitivity Adjustment Scale Setting:	702 CPM

Operator:

Mike Shek (MSKM)

# Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM <sup>®</sup>			
Venue:	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 1400AB				
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	Ko:	12500	
Last Calibration Date*:	6 May 2017				

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 702 CPM 702 CPM

Hour	Date (dd-mm-yy)	Time		Amb Cond		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	06-05-17	12:45	-	13:45	27.5	78	0.04885	1831	30.52
2	06-05-17	13:45	-	14:45	27.6	78	0.05077	1905	31.75
3	06-05-17	14:45	-	15:45	27.6	79	0.05196	1946	32.43
4	06-05-17	15:45	-	16:45	27.6	79	0.04903	1842	30.70

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0016	
Correlation coefficient:	0.9979	
Validity of Calibration Record:	6 May 2018	

Remarks:					
QC Reviewer:	YW Fung	Signature:	Y	Date:	_08 May 2017
			1		

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.09a
Sensitivity Adjustment Scale Setting:	797 CPM

Mike Shek (MSKM)

# Standard Equipment

Operator:

Equipment:	Rupprecht	& Patashnick TEOM®			
Venue:	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 1400AB				
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	Ko:	12500	4.
Last Calibration Date*:	6 May 2017	7	_		

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

797 CPM 797 CPM

.

Hour	Date (dd-mm-yy)	Time				Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	06-05-17	12:00	-	13:00	27.5	78	0.04715	1881	31.35
2	06-05-17	13:00	-	14:00	27.6	78	0.04843	1939	32.32
3	06-05-17	14:00	-	15:00	27.6	79	0.04987	1992	33.20
4	06-05-17	15:00	-	16:00	27.6	79	0.04794	1916	31.93

1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor):	0.0015		
Correlation coefficient:	0.9961		
Validity of Calibration Record:	6 May 2018		

Remarks:

Note:

YW	Fung
	YW

Signature:

Date: 08 May 2017

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.10a
Sensitivity Adjustment Scale Setting:	753 CPM

Mike Shek (MSKM)

# Standard Equipment

Operator:

Equipment:	Rupprecht	t & Patashnick TEOM®				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:		Series 1400AB				
Serial No:	Control:	140AB219899803	·····			
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	6 May 201	7				

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 753 CPM 753 CPM

Hour	Date (dd-mm-yy)	Time		Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					Temp	R.H.	Y-axis		X-axis
					(°C)	(%)			
1	07-05-17	10:00	-	11:00	25.5	81	0.04331	1734	28.90
2	07-05-17	11:00	-	12:00	25.6	81	0.04465	1789	29.82
3	07-05-17	12:00	-	13:00	25.6	82	0.04559	1823	30.38
4	07-05-17	13:00	-	14:00	25.7	81	0.04672	1867	31.12

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X<br/>Slope (K-factor):0.0015Correlation coefficient:0.9986Validity of Calibration Record:7 May 2018

Laser Dust Monitor			
SIBATA			
LD-3			
A.005.11a			
799 CPM			

Mike Shek (MSKM)

# Standard Equipment

Operator:

Equipment:	Rupprecht	& Patashnick TEOM®				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	6 May 201	7	_			

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

799 CPM 799 CPM

Hour	Date (dd-mm-yy)	Time		Time Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-17	09:15	-	10:15	25.5	81	0.04372	1749	29.15
2	07-05-17	10:15	-	11:15	25.5	81	0.04501	1804	30.07
3	07-05-17	11:15	-	12:15	25.6	81	0.04536	1817	30.28
4	07-05-17	12:15	-	13:15	25.6	82	0.04688	1873	31.22

1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X Slope (K-factor): 0.0015 Correlation coefficient: 0.9975

Validity of Calibration Record:

07 May 2018

Remarks:

Note:

QC Reviewer:	YW Fung	Signature: _	 Date:	08 May 2017

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.13a
Sensitivity Adjustment Scale Setting:	643 CPM

Mike Shek (MSKM)

# Standard Equipment

Operator:

Equipment:	Rupprecht	& Patashnick TEOM®				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	6 May 2017					

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Note:

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

<u>643</u> CPM 643 CPM

Date (dd-mm-yy)	Time		me Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
				Temp (°C)	R.H. (%)	Y-axis		X-axis
07-05-17	09:45	-	10:45	25.5	81	0.04337	1737	28.95
07-05-17	10:45	-	11:45	25.6	81			30.27
07-05-17	11:45	-	12:45	25.6	82			30.72
07-05-17	12:45	-	13:45	25.7	81			31.48
	(dd-mm-yy) 07-05-17 07-05-17 07-05-17	(dd-mm-yy) 07-05-17 09:45 07-05-17 10:45 07-05-17 11:45	(dd-mm-yy) 07-05-17 09:45 - 07-05-17 10:45 - 07-05-17 11:45 -	(dd-mm-yy) 07-05-17 09:45 - 10:45 07-05-17 10:45 - 11:45 07-05-17 11:45 - 12:45	(dd-mm-yy)         Cond Cond (°C)           07-05-17         09:45         -         10:45         25.5           07-05-17         10:45         -         11:45         25.6           07-05-17         11:45         -         12:45         25.6	(dd-mm-yy)         Condition           07-05-17         09:45         -         10:45         25.5         81           07-05-17         10:45         -         11:45         25.6         81           07-05-17         11:45         -         12:45         25.6         82	(dd-mm-yy)         Inne         Inne         Inne         Inne         Condition         (mg/m³)           07-05-17         09:45         -         10:45         25.5         81         0.04337           07-05-17         10:45         -         11:45         25.6         81         0.04542           07-05-17         11:45         -         12:45         25.6         82         0.04619	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor):	0.0015			
Correlation coefficient:	0.9971			
Validity of Calibration Record:	7 May 2018			

Remarks:					
				•	
QC Reviewer:	YW Fung	Signature:	W	Date:	08 May 2017

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.14a
Sensitivity Adjustment Scale Setting:	786 CPM

Mike Shek (MSKM)

# Standard Equipment

Operator:

Equipment:	Rupprecht	& Patashnick TEOM®			
Venue:	Cyberport	(Pui Ying Secondary Scho	ool)		
Model No.:	Series 140				
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	Ko:	12500	
Last Calibration Date*:	6 May 201	7	_		

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 786 CPM 786 CPM

Hour	Date (dd-mm-yy)		Time	9		oient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-17	13:45	-	14:45	25.7	81	0.04335	1856	30.93
2	07-05-17	14:45	-	15:45	25.8	82	0.04461	1913	31.88
3	07-05-17	15:45	-	16:45	25.8	82	0.04602	1972	32.87
4	07-05-17	16:45	-	17:45	25.9	81	0.04714	2024	33.73

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0014	
Correlation coefficient:	0.9989	
Validity of Calibration Record:	7 May 2018	

Remarks:					
QC Reviewer:	YW Fung	Signature:	9/	Date:	08 May 2017
			V		

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.16a
Sensitivity Adjustment Scale Setting:	521 CPM

Mike Shek (MSKM)

# Standard Equipment

Operator:

Equipment:	Rupprecht	& Patashnick TEOM®						
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)						
Model No.:	Series 140	Series 1400AB						
Serial No:	Control:	140AB219899803						
	Sensor:	1200C143659803	Ko:	12500				
Last Calibration Date*:	7 May 201	6	_					

\*Remarks: Recommended interval for hardware calibration is 1 year

# **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

521 CPM 521 CPM

Hour	Date (dd-mm-yy)	-	Time	)		bient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	16-07-16	10:15	-	11:15	30.1	76	0.05319	2135	35.58
2	16-07-16	11:15	-	12:15	30.3	76	0.05615	2247	37.45
3	16-07-16	13:00	-	14:00	30.5	77	0.05984	2392	39.87
4	16-07-16	14:00	-	15:00	30.4	77	0.05786	2313	38.55
Note:	1. Monitoring c	lata was i	mea	sured by	Ruppreck	nt & Pata	shnick TEOM®		

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By L	inear	R	egression	of	Y	or	Х
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Slope (K-factor):	0.0015	
Correlation coefficient:	0.9987	
Validity of Calibration Record:	16 July 2017	

Remarks:
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QC Reviewer:	YW Fung	Signature: _	2	Date:	18 July 2016



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



# CERTIFICATE OF CALIBRATION

Certificate No.:	16CA1201 01		Page:	1	of	2
Item tested						
Description:	Acoustical Calibrat	or (Class 1)				
Manufacturer:	Rion Co., Ltd.					
Type/Model No.:	NC-73	CN.004.08)				
Serial/Equipment No.:	10307223	CN.004.08/				
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CO.	LTD.				
Address of Customer:	-					
Request No.:	<b>T</b> 1					
Date of receipt:	01-Dec-2016					
Date of test:	05-Dec-2016					
Reference equipment	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:	Т	raceab	le to:
Lab standard microphone	B&K 4180	2412857	14-Apr-2017	-	CL	
Preamplifier	B&K 2673	2239857	28-Apr-2017		EPREI	
Measuring amplifier	B&K 2610	2346941	26-Apr-2017		EPREI	
Signal generator	DS 360	61227	18-Apr-2017		EPREI	
Digital multi-meter	34401A	US36087050	18-Apr-2017		EPREI	
Audio analyzer	8903B	GB41300350	19-Apr-2017	1.1	EPREI	
Universal counter	53132A	MY40003662	19-Apr-2017	· C	EPREI	
Ambient conditions						
Temperature:	22 ± 1 °C					
Relative humidity:	55 ± 10 %					
	1005 ± 5 hPa					

# **Test specifications**

1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.

3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

### Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.



Approved Signatory:

Huang Jian Min/Peng Jun Qi

08-Dec-2016 Company Chop:

**Comments:** The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

© Soils & Materials Engineering Co., Ltd

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



# CERTIFICATE OF CALIBRATION

em tested				
tem testeu				
Description:	Acoustical Calibra	ator (Class 1)		
Manufacturer:	Rion Co., Ltd.			
Type/Model No.:	NC-73 10307223	CN.004.08)		
Serial/Equipment No.: Adaptors used:	-	CN.004.08/		
tem submitted by				
Curstomer:	AECOM ASIA CO	D. LTD.		
Address of Customer:		ngano - Apponto ng mon (18)		
Request No.:	-			
Date of receipt:	01-Dec-2016			
Date of test:	05-Dec-2016			
Reference equipment	used in the calil	bration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
ab standard microphone	B&K 4180	2412857	14-Apr-2017	SCL
Preamplifier	B&K 2673	2239857	28-Apr-2017	CEPREI
Measuring amplifier	B&K 2610	2346941	26-Apr-2017	CEPREI
Signal generator	DS 360	61227	18-Apr-2017	CEPREI
Digital multi-meter	34401A	US36087050	18-Apr-2017	CEPREI
Audio analyzer	8903B	GB41300350	19-Apr-2017	CEPREI
Universal counter	53132A	MY40003662	19-Apr-2017	CEPREI
Ambient conditions				
Cemperature:	22 ± 1 °C			
Relative humidity:	55 ± 10 %			
Air pressure:	1005 ± 5 hPa			

 The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.

 The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

### **Test results**

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian Min/Peng Jun Qi

08-Dec-2016 Company Chop:



**Comments:** The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

© Soils & Materials Engineering Co., Ltd.

Approved Signatory:

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



# 综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com

Tel : (852) 2873 6860 Fax : (852) 2555 7533



# **CERTIFICATE OF CALIBRATION**

Certificate No.:	16CA0704 03-01			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2238 2800927 / N.009.0		, , ,	Microphone B & K 4188 2791211			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 04-Jul-2016	., LTD.					
Date of test:	07-Jul-2016						
Reference equipment	used in the calib	ration					
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227		Expiry Date: 18-Jun-2017 18-Apr-2017 18-Apr-2017		Traceab CIGISME CEPREI CEPREI	
Ambient conditions							
Temperature: Relative humidity: Air pressure:	22 ± 1 °C 60 ± 10 % 1000 ± 5 hPa						
Test specifications							

### Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

# Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi



**Comments:** The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

09-Jul-2016

Date:

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

**Company Chop:** 

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



### 综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黃竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



# CERTIFICATE OF CALIBRATION

N.009.04

Certificate No.:	17CA0407 01			Page	1	of	2
Item tested							
Description:	Sound Level Mete	r (Type 1)		Microphone			
Manufacturer:	B & K	. (.)[]	2	B&K			
Type/Model No.:	2238			4188			
Serial/Equipment No.:	2285692		'	2250455			
Adaptors used:	-		,	-			
Item submitted by							
Customer Name:	AECOM ASIA CO	LTD.					-
Address of Customer:	-						
Request No.:	-						
Date of receipt:	07-Apr-2017						
bate er receipt.	01 7.101 2011						
Date of test:	10-Apr-2017						
Date of test: Reference equipment		ration					
Reference equipment		ration Serial No.		Expiry Date:		Traceat	ble to:
	used in the calib Model:	Serial No.		Expiry Date:			
Reference equipment Description: Multi function sound calibrator	used in the calib Model: B&K 4226	Serial No. 2288444		18-Jun-2017		CIGISME	
Reference equipment	used in the calib Model:	Serial No.					
Reference equipment Description: Multi function sound calibrator Signal generator	used in the calib Model: B&K 4226 DS 360	Serial No. 2288444 33873		18-Jun-2017 18-Apr-2017		CIGISME CEPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator	used in the calib Model: B&K 4226 DS 360	Serial No. 2288444 33873		18-Jun-2017 18-Apr-2017		CIGISME CEPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions	used in the calib Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873		18-Jun-2017 18-Apr-2017		CIGISME CEPREI	

## **Test specifications**

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:





**Comments:** The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

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Work Order:	HK1716025
Sub-batch:	0
Client:	AECOM ASIA COMPANY LIMITED
Date of Issue:	25/04/2017



Description:	Multifunctional Meter		
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12A101545		
Equipment No.:	W.026.35		
Date of Calibration:	20 April, 2017	Date of next Calibration:	20 July, 2017

# Parameters:

# Conductivity Method Ref: APHA (21th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm )	Tolerance (%)
146.9	145.0	-1.3
6667	6640	-0.4
12890	12750	-1.1
58670	58560	-0.2
	Tolerance Limit (%)	±10.0

# Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.40	3.42	+0.02
5.50	5.47	-0.03
7.65	7.61	-0.04
	Tolerance Limit (mg/L)	±0.20

## Temperature

# Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Displayed Reading (°C)	Tolerance (°C)
10.41	-0.1
20.05	+0.1
37.52	+0.0
Tolerance Limit (°C)	±2.0
	10.41 20.05 37.52

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vico Manager - Inorganics

Work Order: Sub-Batch: Client: Date of Issue:	HK1716025 0 AECOM ASIA COMPANY LIMITED 25/04/2017	
Description: Brand Name: Model No.: Serial No.:	Multifunctional Meter YSI 6820 V2 12A101545	
Equipment No.: Date of Calibration:	W.026.35 20 April, 2017	Date of next Calibration:

# Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.05	+0.5
20	20.07	+0.4
30	30.05	+0.2
	Tolerance Limit (%)	±10.0

# Turbidity

# Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+2.5
10	10.2	+2.0
20	20.4	+2.0
50	49.7	-0.6
100	99.6	-0.4
	Tolerance Limit (%)	±10.0

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.01	+0.01
7.0	7.03	+0.03
10.0	10.02	+0.02
	Tolerance Limit (pH Unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

20 July, 2017

Mr Chan Siu Ming, Vico Manager - Inorganics

Work Order: Sub-batch: Client: Date of Issue:	HK1731176 0 AECOM ASIA COMPANY LIMITED 26/07/2017		(ALS)
Description: Brand Name: Model No.: Serial No.: Equipment No.:	Multifunctional Meter YSI 6820 V2 12A101545 W.026.35		
Date of Calibration:	20 July, 2017	Date of next Calibration:	20 October, 2017

# Parameters:

Conductivity

### Method Ref: APHA (21th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm )	Tolerance (%)
146.9	148	+ 0.7
6667	6740	+1.1
12890	12760	- 1.0
58670	58770	+0.2
	Tolerance Limit (%)	±10.0

# Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.60	3.62	+ 0.02
5.40	5.43	+0.03
7.60	7.57	- 0.03
	Tolerance Limit (mg/L)	±0.20

# Temperature

# Method Ref: Section 6 of International Accreditation New Zealand Technical

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	10.04	+0.0
20.5	20.47	- 0.0
38.5	38.52	+ 0.0
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vieć Manager - Inorganics

Work Order:	HK1731176
Sub-Batch:	0
Client:	AECOM ASIA COMPANY LIMITED
Date of Issue:	26/07/2017
Description:	Multifunctional Meter
Brand Name:	YSI

 Model No.:
 6820 V2

 Serial No.:
 12A101545

 Equipment No.:
 W.026.35

 Date of Calibration:
 20 July, 2017

Date of next Calibration:

20 October, 2017

# Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.01	+ 0.1
20	20.03	+ 0.2
30	30.06	+ 0.2
	Tolerance Limit (%)	±10.0

Turbidity

# Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	
0	0.0		
4	3.9	- 2.5	
10	10.2	+2.0	
20	20.1	+ 0.5	
50	50.6	+1.2	
100	100.0	0.0	
	Tolerance Limit (%)	±10.0	

pH Value

# Method Ref: APHA (21st edition), 4500H:BExpected Reading (pH Unit)Displayed Reading (pH Unit)Tolerance (pH unit)4.04.02+0.027.07.02+0.0210.010.05+0.05Tolerance Limit (pH Unit)±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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Mr Chan Siu Ming, Vieo Manager - Inorganics

Work Order: Sub-batch: Client: Date of Issue:	HK1731171 0 AECOM ASIA COMPANY LIMITED 26/07/2017		(ALS)
Description:	Multifunctional Meter		
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12D100972		
Equipment No.:	W.026.36		
Date of Calibration:	20 July, 2017	Date of next Calibration:	20 October, 2017

### **Parameters:**

Conductivity

# Method Ref: APHA (21th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm )	Tolerance (%)
146.9	143	- 2.7
6667	6630	- 0.6
12890	12790	- 0.8
58670	58730	+ 0.1
	Tolerance Limit (%)	±10.0

# Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.60	3.57	- 0.03
5.40	5.46	+0.06
7.60	7.56	- 0.04
	Tolerance Limit (mg/L)	±0.20

# Temperature

# Method Ref: Section 6 of International Accreditation New Zealand Technical

Reading of Ref. thermometer (°C)	Displayed Reading (°C) Tolerance (°C)	
10.0	10.01	+0.0
20.5	20.44	- 0.1
38.5	38.46	- 0.0
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vied Manager - Inorganics

Work Order: Sub-Batch: Client: Date of Issue:	HK1731171 0 AECOM ASIA COMPANY LIMITED 26/07/2017		(ALS)
Description: Brand Name: Model No.: Serial No.: Equipment No.:	Multifunctional Meter YSI 6820 V2 12D100972 W.026.36		
Date of Calibration:	20 July, 2017	Date of next Calibration:	20 October, 2017

# Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	9.96	- 0.4
20	20.02	+ 0.1
30	30.05	+0.2
	Tolerance Limit (%)	±10.0

Turbidity

# Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+ 2.5
10	10.1	+1.0
20	20.4	+2.0
50	50.5	+1.0
100	99.8	- 0.2
	Tolerance Limit (%)	±10.0

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.98	- 0.02
7.0	6.96	- 0.04
10.0	9.95	- 0.05
	Tolerance Limit (pH Unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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Mr Chan Siu Ming, Vieo Manager - Inorganics

			onitoring Schedule for	Aug 2017		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
		24-hour TSP 1-hour TSP Noise	Mid-Ebb 9:37 Mid-Flood 16:42		Mid-Ebb 11:08 Mid-Flood 18:22	
6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
	Mid-Flood 6:01 Mid-Ebb 12:57 24-hour TSP 1-hour TSP Noise		Mid-Flood 7:21 Mid-Ebb 14:05		Mid-Flood 8:46 Mid-Ebb 15:14	1-hour TSP
13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug
	Mid-Flood 11:29 Mid-Ebb 17:24 Dolphin Monitoring		Mid-Ebb 7:43 Mid-Flood 14:30		Mid-Ebb 10:05 Mid-Flood 17:22 24-hour TSP 1-hour TSP Noise	
20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug
	Mid-Flood 5:51 Mid-Ebb 12:42	24-hour TSP*	Mid-Flood ^ 7:27 Mid-Ebb ^ 14:08	1-hour TSP Noise	Mid-Flood 8:56 Mid-Ebb 15:24 Noise >	
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug		
	Mid-Flood 11:21 Mid-Ebb 17:12	Dolphin Monitoring	Mid-Ebb 7:15 Mid-Flood 14:50 24-hour TSP 1-hour TSP Noise Dolphin Monitoring			

### Hong Kong Boundary Crossing Facilities – Reclamation Works Impact Monitoring Schedule for Aug 2017

\*24-hour TSP monitoring at Station AMS3B – Site Boundary of Site Office (WA2) was rescheduled from 18 Aug 2017 to 22 August 2017 due to electricity failure.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

> Noise monitoring at Station NMS2 - Seaview Crescent Tower 1 was rescheduled from 24 Aug 2017 to 25 Aug 2017.

# The tentative schedule for environmental monitoring of September 2017 are detailed in the monthly EM&A Report prepared by Contract No. HY/2013/01.

### Appendix G Impact Air Quality Monitoring Results

### 24-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Action Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m <sup>3</sup> )	$(\mu q/m^3)$	(µg/m <sup>3</sup> )
31-Jul-17	16:00	1-Aug-17	16:00	Sunny	30.7	997.9	1.33	1.33	1.33	1909.4	2.7793	2.8364	0.0571	8328.04	8352.04	24.00	30	176	260
7-Aug-17	9:00	8-Aug-17	9:00	Sunny	30.5	1006.3	1.33	1.33	1.33	1909.4	2.7650	2.8088	0.0438	8352.04	8376.04	24.00	23	176	260
11-Aug-17	16:00	12-Aug-17	16:00	Cloudy	30.0	1007.6	1.33	1.33	1.33	1909.4	2.7820	2.8159	0.0339	8376.04	8400.04	24.00	18	176	260
17-Aug-17	16:00	18-Aug-17	16:00	Cloudy	29.9	1009.1	1.33	1.33	1.33	1909.4	2.7705	2.8099	0.0394	8400.04	8424.04	24.00	21	176	260
24-Aug-17	16:00	25-Aug-17	16:00	Sunny	29.1	1007.8	1.33	1.33	1.33	1909.4	2.8692	2.9583	0.0891	8424.04	8448.04	24.00	47	176	260
29-Aug-17	16:00	30-Aug-17	16:00	Sunny	28.2	1010.1	1.33	1.33	1.33	1909.4	2.8187	2.8953	0.0766	8448.04	8472.04	24.00	40	176	260
																Average	30		
																Min	18		
																Max	47	]	

### 24-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Action Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
31-Jul-17	16:00	1-Aug-17	16:00	Sunny	30.7	997.9	1.34	1.34	1.34	1923.8	2.7849	2.8264	0.0415	9079.38	9103.38	24.00	22	167	260
7-Aug-17	9:00	8-Aug-17	9:00	Sunny	30.5	1006.3	1.34	1.34	1.34	1923.8	2.7612	2.7934	0.0322	9103.38	9127.38	24.00	17	167	260
11-Aug-17	16:00	12-Aug-17	16:00	Cloudy	30.0	1007.6	1.34	1.34	1.34	1923.8	2.7931	2.8183	0.0252	9127.38	9151.38	24.00	13	167	260
21-Aug-17	15:00	22-Aug-17	15:00	Sunny	31.3	1003.2	1.34	1.34	1.34	1923.8	2.7786	2.8953	0.1167	9151.38	9175.38	24.00	61	167	260
24-Aug-17	16:00	25-Aug-17	16:00	Sunny	29.1	1007.8	1.34	1.34	1.34	1923.8	2.8517	2.8808	0.0291	9175.38	9199.38	24.00	15	167	260
29-Aug-17	16:00	30-Aug-17	16:00	Sunny	28.2	1010.1	1.34	1.34	1.34	1923.8	2.8173	2.9284	0.1111	9199.38	9223.38	24.00	58	167	260
						-										Avorago	21		,

Average31Min13Max61

^ Action Level set out at AMS3 Ho Yu College is adopted.

### 24-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Action Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
31-Jul-17	16:00	1-Aug-17	16:00	Sunny	30.7	997.9	1.30	1.30	1.30	1869.1	2.7845	2.9123	0.1278	9094.91	9118.91	24.00	68	183	260
7-Aug-17	9:00	8-Aug-17	9:00	Sunny	30.5	1006.3	1.30	1.30	1.30	1869.1	2.7636	2.8440	0.0804	9118.91	9142.91	24.00	43	183	260
11-Aug-17	16:00	12-Aug-17	16:00	Cloudy	30.0	1007.6	1.30	1.30	1.30	1869.1	2.7806	2.8415	0.0609	9142.91	9166.91	24.00	33	183	260
17-Aug-17	16:00	18-Aug-17	16:00	Cloudy	31.3	1003.2	1.30	1.30	1.30	1869.1	2.7845	2.8316	0.0471	9166.91	9190.91	24.00	25	183	260
24-Aug-17	16:00	25-Aug-17	16:00	Sunny	29.1	1007.8	1.30	1.30	1.30	1869.1	2.8519	2.8889	0.0370	9190.91	9214.91	24.00	20	183	260
29-Aug-17	16:00	30-Aug-17	16:00	Sunny	28.2	1010.1	1.30	1.30	1.30	1869.1	2.8181	2.9845	0.1664	9214.91	9238.91	24.00	89	183	260
																	46		

46
20
89

Remarks: \* 24-hour TSP monitoring at AMS3B on 18 Aug 2017 was rescheduled to 22 Aug 2017 due to electricity failure.

### Appendix G Impact Air Quality Monitoring Results

### 1-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m³)	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )
1-Aug-17	1st Hour	Sunnv	1.96	10:17	69	374	500
1-Aug-17	2nd Hour	Sunny	0.56	11:17	70	374	500
1-Aug-17	3rd Hour	Sunny	0.27	12:17	69	374	500
7-Aug-17	1st Hour	Sunny	1.59	10:20	70	374	500
7-Aug-17	2nd Hour	Sunny	0.80	11:20	71	374	500
7-Aug-17	3rd Hour	Sunny	1.64	12:20	69	374	500
12-Aug-17	1st Hour	Fine	0.35	10:50	75	374	500
12-Aug-17	2nd Hour	Fine	1.02	11:50	73	374	500
12-Aug-17	3rd Hour	Fine	1.69	12:50	71	374	500
18-Aug-17	1st Hour	Sunny	0.00	10:26	65	374	500
18-Aug-17	2nd Hour	Sunny	0.64	11:26	64	374	500
18-Aug-17	3rd Hour	Sunny	0.00	12:26	65	374	500
24-Aug-17	1st Hour	Sunny	2.59	14:15	60	374	500
24-Aug-17	2nd Hour	Sunny	1.65	15:15	59	374	500
24-Aug-17	3rd Hour	Sunny	0.04	16:15	61	374	500
30-Aug-17	1st Hour	Sunny	0.60	10:55	72	374	500
30-Aug-17	2nd Hour	Sunny	1.05	11:55	73	374	500
30-Aug-17	3rd Hour	Sunny	0.60	12:55	69	374	500
				Average	68		
				Min	59		
				Max	75		

# 1-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

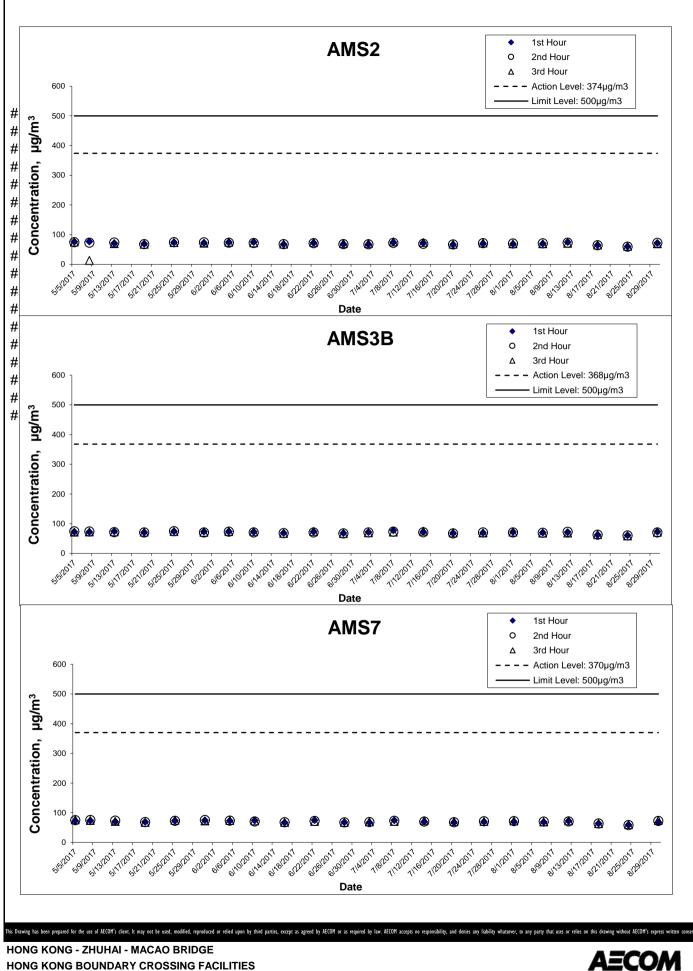
Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m³)	Action Level (µg/m <sup>3</sup> ) ^	Limit Level (µg/m <sup>3</sup> )
1-Aug-17	1st Hour	Sunny	0.56	11:13	72	368	500
1-Aug-17	2nd Hour	Sunny	0.27	12:13	71	368	500
1-Aug-17	3rd Hour	Sunny	0.21	13:13	72	368	500
7-Aug-17	1st Hour	Sunny	0.80	11:14	70	368	500
7-Aug-17	2nd Hour	Sunny	1.64	12:14	70	368	500
7-Aug-17	3rd Hour	Sunny	1.89	13:14	68	368	500
12-Aug-17	1st Hour	Fine	1.02	11:05	72	368	500
12-Aug-17	2nd Hour	Fine	1.69	12:05	73	368	500
12-Aug-17	3rd Hour	Fine	1.75	13:05	68	368	500
18-Aug-17	1st Hour	Sunny	0.64	11:21	63	368	500
18-Aug-17	2nd Hour	Sunny	0.00	12:21	63	368	500
18-Aug-17	3rd Hour	Sunny	0.00	13:21	64	368	500
24-Aug-17	1st Hour	Sunny	2.59	14:00	61	368	500
24-Aug-17	2nd Hour	Sunny	1.65	15:00	61	368	500
24-Aug-17	3rd Hour	Sunny	0.04	16:00	59	368	500
30-Aug-17	1st Hour	Sunny	0.43	10:40	74	368	500
30-Aug-17	2nd Hour	Sunny	0.60	11:40	71	368	500
30-Aug-17	3rd Hour	Sunny	1.05	12:40	71	368	500
,T				Average	68		
				Min	59	1	
				Max	74		

Remarks:

^ Action Level set out at AMS3 Ho Yu College is adopted.

### 1-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

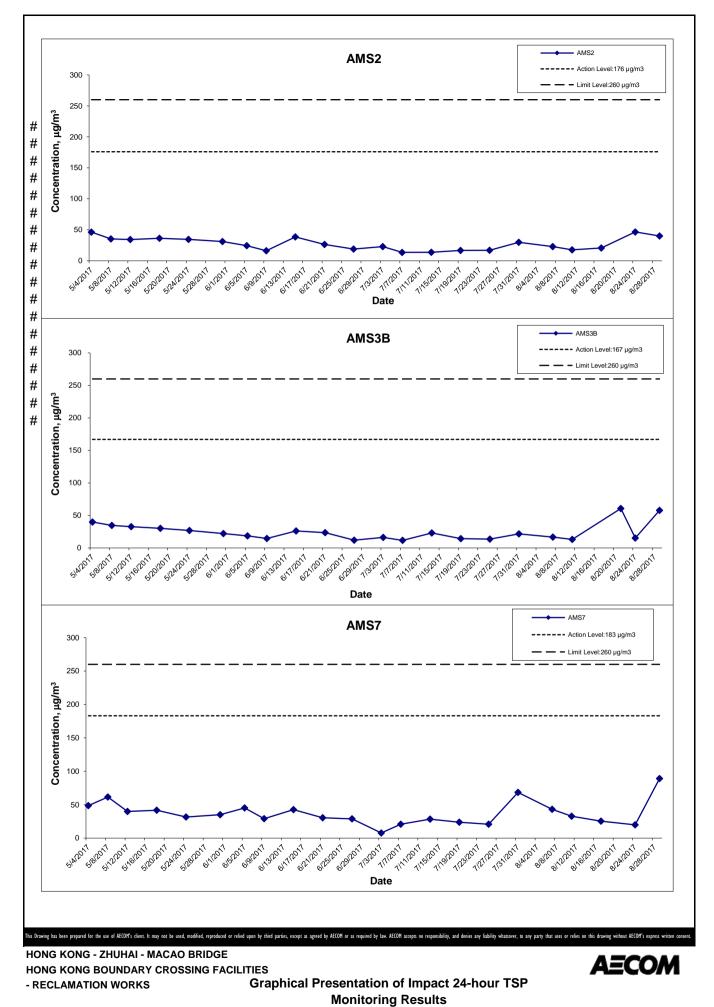
		Weather	averaged Wind	Time	Conc.	Action Level	Limit Level
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m³)	(µg/m <sup>3</sup> )	(µg/m³)
1-Aug-17	1st Hour	Sunny	1.96	9:59	70	370	500
1-Aug-17	2nd Hour	Sunny	0.56	10:59	72	370	500
1-Aug-17	3rd Hour	Sunny	0.27	11:59	72	370	500
7-Aug-17	1st Hour	Sunny	1.59	10:06	69	370	500
7-Aug-17	2nd Hour	Sunny	0.80	11:06	70	370	500
7-Aug-17	3rd Hour	Sunny	1.64	12:06	69	370	500
12-Aug-17	1st Hour	Fine	1.02	11:25	72	370	500
12-Aug-17	2nd Hour	Fine	1.69	12:25	71	370	500
12-Aug-17	3rd Hour	Fine	1.75	13:25	73	370	500
18-Aug-17	1st Hour	Sunny	0.00	10:08	64	370	500
18-Aug-17	2nd Hour	Sunny	0.64	11:08	64	370	500
18-Aug-17	3rd Hour	Sunny	0.00	12:08	63	370	500
24-Aug-17	1st Hour	Sunny	2.59	14:30	59	370	500
24-Aug-17	2nd Hour	Sunny	1.65	15:30	58	370	500
24-Aug-17	3rd Hour	Sunny	0.04	16:30	60	370	500
30-Aug-17	1st Hour	Sunny	0.43	10:15	68	370	500
30-Aug-17	2nd Hour	Sunny	0.60	11:15	72	370	500
30-Aug-17	3rd Hour	Sunny	1.05	12:15	74	370	500
				Average	68		
				Min	58		
				Max	74		



**Monitoring Results** 

- RECLAMATION WORKS Graphical Presentation of Impact 1-hour TSP

Appendix G



Project No.: 60249820 Date: Sep 2017

Appendix G

# Appendix H Meterological Data for Monitoring Periods on Monitoring Dates in Aug 2017

# WIND DATA

VIND DATA			
Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
7/31/2017	14:17:46	0.17	25
7/31/2017	15:17:46	0.28	0
7/31/2017	16:17:46	0.91	35
7/31/2017	17:17:46	1.05	192
7/31/2017	18:17:46	1.01	10
7/31/2017	19:17:46	0.20	340
7/31/2017	20:17:46	1.17	316
7/31/2017	21:17:46	0.00	85
7/31/2017	22:17:46	0.59	271
7/31/2017	23:17:46	1.17	319
8/1/2017	00:17:46	0.13	288
8/1/2017	01:17:46	0.00	320
8/1/2017	02:17:46	0.14	336
8/1/2017	03:17:46	1.01	285
8/1/2017	04:17:46	0.27	310
8/1/2017	05:17:46	0.08	305
8/1/2017	06:17:46	0.11	139
8/1/2017	07:17:46	0.99	281
8/1/2017	08:17:46	0.00	102
8/1/2017	09:17:46	0.00	319
8/1/2017	10:17:46	1.96	340
8/1/2017	11:17:46	0.56	342
8/1/2017	12:17:46	0.30	88
8/1/2017	13:17:46	0.27	281
8/1/2017	13:17:46	0.14	302
8/1/2017	15:17:46	1.01	306
8/1/2017	16:17:46	0.20	300
8/1/2017	17:17:46	3.05	313
8/7/2017	07:17:46	1.31	286
8/7/2017	08:17:46	1.44	311
8/7/2017	09:17:46	0.24	226
8/7/2017	10:17:46	1.59	329
8/7/2017	11:17:46	0.80	4
8/7/2017	12:17:46	1.64	322
8/7/2017	13:17:46	1.89	334
8/7/2017	14:17:46	1.75	292
8/7/2017	15:17:46	1.41	332
8/7/2017	16:17:46	0.24	105
8/7/2017	17:17:46	0.42	338
8/7/2017	18:17:46	0.95	317
8/7/2017	19:17:46	0.07	277
8/7/2017	20:17:46	0.38	132
8/7/2017	21:17:46	0.27	279
8/7/2017	22:17:46	0.15	58
8/7/2017	23:17:46	0.03	68
8/8/2017	00:17:46	0.01	128
8/8/2017	01:17:46	0.01	120
8/8/2017	02:17:46	0.46	17
8/8/2017	03:17:46	0.08	294
8/8/2017		3.72	304
8/8/2017	04:17:46		
	05:17:46	0.03	346
8/8/2017	06:17:46	0.01	336
8/8/2017	07:17:46	1.75	283
8/8/2017	08:17:46	1.02	324
8/8/2017	09:17:46	0.20	269
8/8/2017	10:17:46	0.32	4
8/11/2017	14:17:46	0.01	8
8/11/2017	15:17:46	0.01	31
8/11/2017	16:17:46	0.31	11
8/11/2017	17:17:46	1.20	20
8/11/2017	18:17:46	0.04	46
8/11/2017	19:17:46	0.04	176
8/11/2017	20:17:46	0.11	317
8/11/2017	21:17:46	0.11	211
8/11/2017	22:17:46	0.35	320
8/11/2017	23:17:46	0.76	170
8/12/2017	00:17:46	0.84	145
8/12/2017	01:17:46	0.04	95
8/12/2017	02:17:46	0.71	14
8/12/2017	03:17:46	2.20	59
8/12/2017	04:17:46	0.01	35
8/12/2017	05:17:46	0.76	7
8/12/2017	05:17:46		320
		0.11	
8/12/2017	07:17:46	0.62	334
8/12/2017	08:17:46	0.21	304
8/12/2017	09:17:46	1.48	318
<u>8/12/2017</u> 8/12/2017	10:17:46	0.35	329
0/4 0/004 7	11:17:46	1.02	8

8/12/2017	12:17:46	1.69	326
8/12/2017	13:17:46	1.75	17
8/12/2017	14:17:46	0.92	46
8/12/2017	15:17:46	3.90	338
8/12/2017	16:17:46	0.01	317
8/12/2017	17:17:46	0.98	218
8/17/2017	14:17:46	0.01	153
8/17/2017	15:17:46	0.66	70
8/17/2017	16:17:46	0.01	151
8/17/2017	17:17:46	0.00	113
8/17/2017	18:17:46	0.04	343
8/17/2017	19:17:46	0.13	299
8/17/2017	20:17:46	0.10	154
8/17/2017	21:17:46	0.04	269
8/17/2017	22:17:46	0.06	284
8/17/2017	23:17:46	0.07	278
8/18/2017	00:17:46	0.01	292
8/18/2017	01:17:46	0.24	154
8/18/2017	02:17:46	0.01	3
8/18/2017	03:17:46	0.01	300
8/18/2017	04:17:46	0.01	300
8/18/2017	05:17:46	0.01	299
8/18/2017	06:17:46	0.03	157
8/18/2017	07:17:46	0.00	298
8/18/2017	07:17:46	0.00	120
			-
8/18/2017	09:17:46	0.01	149
8/18/2017	10:17:46	0.00	143
8/18/2017	11:17:46	0.64	62
8/18/2017	12:17:46	0.00	139
8/18/2017	13:17:46	0.00	106
8/18/2017	14:17:46	1.24	139
8/18/2017	15:17:46	0.00	230
8/18/2017	16:17:46	0.11	342
8/18/2017	17:17:46	0.34	54
8/21/2017	13:17:46	1.05	17
8/21/2017	14:17:46	0.97	324
8/21/2017	15:17:46	0.04	185
8/21/2017	16:17:46	0.00	292
8/21/2017	17:17:46	0.04	291
8/21/2017	18:17:46	0.03	310
8/21/2017	19:17:46	0.06	117
8/21/2017	20:17:46	0.90	138
8/21/2017	21:17:46	0.17	324
8/21/2017	22:17:46	0.04	63
8/21/2017	23:17:46	0.07	343
8/22/2017	00:17:46	0.00	343
8/22/2017	01:17:46	0.00	155
8/22/2017	02:17:46	0.00	151
8/22/2017	03:17:46	0.00	307
8/22/2017	04:17:46	0.00	127
8/22/2017	05:17:46	0.00	292
8/22/2017	06:17:46	0.07	290
8/22/2017	07:17:46	0.87	247
8/22/2017	08:17:46	0.55	254
8/22/2017	09:17:46	0.00	327
8/22/2017	10:17:46	0.56	60
8/22/2017	11:17:46	1.19	66
8/22/2017	12:17:46	1.19	54
8/22/2017	13:17:46	0.00	345
8/22/2017	14:17:46	0.00	285
8/22/2017	15:17:46	0.00	335
8/22/2017	16:17:46	0.00	289
8/24/2017	14:17:46	2.59	126
8/24/2017	15:17:46	1.65	128
8/24/2017	16:17:46	0.04	131
8/24/2017	17:17:46	2.06	125
8/24/2017	18:17:46	0.87	121
8/24/2017		0.39	118
8/24/2017	19:17:46		
	20:17:46	1.06	131
8/24/2017	20:17:46 21:17:46	1.06 1.44	102
8/24/2017 8/24/2017	20:17:46	1.06	-
	20:17:46 21:17:46	1.06 1.44	102
8/24/2017	20:17:46 21:17:46 22:17:46	1.06 1.44 1.31	102 141
8/24/2017 8/24/2017	20:17:46 21:17:46 22:17:46 23:17:46	1.06 1.44 1.31 0.22	102 141 147
8/24/2017 8/24/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46	1.06 1.44 1.31 0.22 0.13 0.38	102 141 147 128
8/24/2017 8/24/2017 8/25/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46 02:17:46	1.06 1.44 1.31 0.22 0.13 0.38 1.13	102 141 147 128 148 155
8/24/2017 8/24/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46 02:17:46 03:17:46	1.06 1.44 1.31 0.22 0.13 0.38 1.13 0.00	102 141 147 128 148 155 148
8/24/2017 8/24/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46 02:17:46 03:17:46 04:17:46	1.06           1.44           1.31           0.22           0.13           0.38           1.13           0.00           0.00	102 141 147 128 148 155 148 45
8/24/2017 8/24/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46 02:17:46 03:17:46 04:17:46 05:17:46	1.06 1.44 1.31 0.22 0.13 0.38 1.13 0.00 0.00 0.00	102 141 147 128 148 155 148 45 123
8/24/2017 8/24/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46 02:17:46 03:17:46 04:17:46 05:17:46 06:17:46	1.06 1.44 1.31 0.22 0.13 0.38 1.13 0.00 0.00 0.00 0.00 0.14	102           141           147           128           148           155           148           45           123           136
8/24/2017 8/24/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46 02:17:46 03:17:46 04:17:46 05:17:46 06:17:46 07:17:46	1.06 1.44 1.31 0.22 0.13 0.38 1.13 0.00 0.00 0.00 0.00 0.14 0.11	102           141           147           128           148           155           148           45           123           136           134
8/24/2017 8/24/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017 8/25/2017	20:17:46 21:17:46 22:17:46 23:17:46 00:17:46 01:17:46 02:17:46 03:17:46 04:17:46 05:17:46 06:17:46	1.06 1.44 1.31 0.22 0.13 0.38 1.13 0.00 0.00 0.00 0.00 0.14	102           141           147           128           148           155           148           45           123           136

8/25/2017	10:17:46	0.10	180
8/25/2017	11:17:46	0.90	155
8/25/2017	12:17:46	0.28	345
8/25/2017	13:17:46	1.11	6
8/25/2017	14:17:46	0.49	49
8/25/2017	15:17:46	0.01	345
8/25/2017	16:17:46	0.11	158
8/25/2017	17:17:46	0.04	105
8/29/2017	14:17:46	0.42	241
8/29/2017	15:17:46	0.10	284
8/29/2017	16:17:46	0.48	311
8/29/2017	17:17:46	1.04	325
8/29/2017	18:17:46	0.21	291
8/29/2017	19:17:46	0.70	286
8/29/2017	20:17:46	0.06	280
8/29/2017	21:17:46	0.21	308
8/29/2017	22:17:46	0.03	134
8/29/2017	23:17:46	0.04	299
8/30/2017	00:17:46	0.00	282
8/30/2017	01:17:46	0.00	303
8/30/2017	02:17:46	0.14	270
8/30/2017	03:17:46	0.00	323
8/30/2017	04:17:46	0.00	282
8/30/2017	05:17:46	0.24	297
8/30/2017	06:17:46	0.01	296
8/30/2017	07:17:46	0.01	297
8/30/2017	08:17:46	0.10	327
8/30/2017	09:17:46	0.00	104
8/30/2017	10:17:46	0.43	46
8/30/2017	11:17:46	0.60	39
8/30/2017	12:17:46	1.05	322
8/30/2017	13:17:46	0.60	322
8/30/2017	14:17:46	1.17	332
8/30/2017	15:17:46	0.00	121
8/30/2017	16:17:46	0.66	143
8/30/2017	17:17:46	0.00	59

### Appendix I Impact Daytime Construction Noise Monitoring Results

Date		Nois	se Level for 30	0-min, dB(A) <sup>#</sup>					
	Weather Condition	Time L90 L10 Leq A		Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)		
1-Aug-17	Sunny	10:30	64	69	67	<5m/s	62.9	75	N
7-Aug-17	Sunny	10:30	63	68	66	<5m/s	62.9	75	N
18-Aug-17	Sunny	10:40	66	70	69	<5m/s	62.9	75	N
>25-Aug-17	Sunny	10:38	65	68	66	<5m/s	62.9	75	N
30-Aug-17	Sunny	10:40	63	68	66	<5m/s	62.9	75	Ν
		Min	63	68	66				
		Max	66	70	69				
		Average			67				

Daytime Noise Monitoring Results at Station NMS2 - Seaview Crescent Tower 1

Daytime Noise Monitoring Results at Station NMS3B - Site Boundary of Site Office (WA2)

		Nois	e Level for 30	)-min, dB(A) <sup>#</sup>					
Date	Weather Condition	Time	L90 L10 Leq		Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A) ^	Limit Level, dB(A)**	Exceedance (Y/N)	
1-Aug-17	Sunny	11:13	63	68	66	<5m/s	66.3	70	Ν
7-Aug-17	Sunny	11:14	63	67	66	<5m/s	66.3	70	Ν
18-Aug-17	Sunny	11:21	65	68	67	<5m/s	66.3	70	Ν
24-Aug-17	Sunny	14:00	64	67	66	<5m/s	66.3	70	Ν
30-Aug-17	Sunny	11:30	64	68	66	<5m/s	66.3	70	Ν
		Min	63	67	66				
		Max	65	68	67				
		Average			66				

Remark:

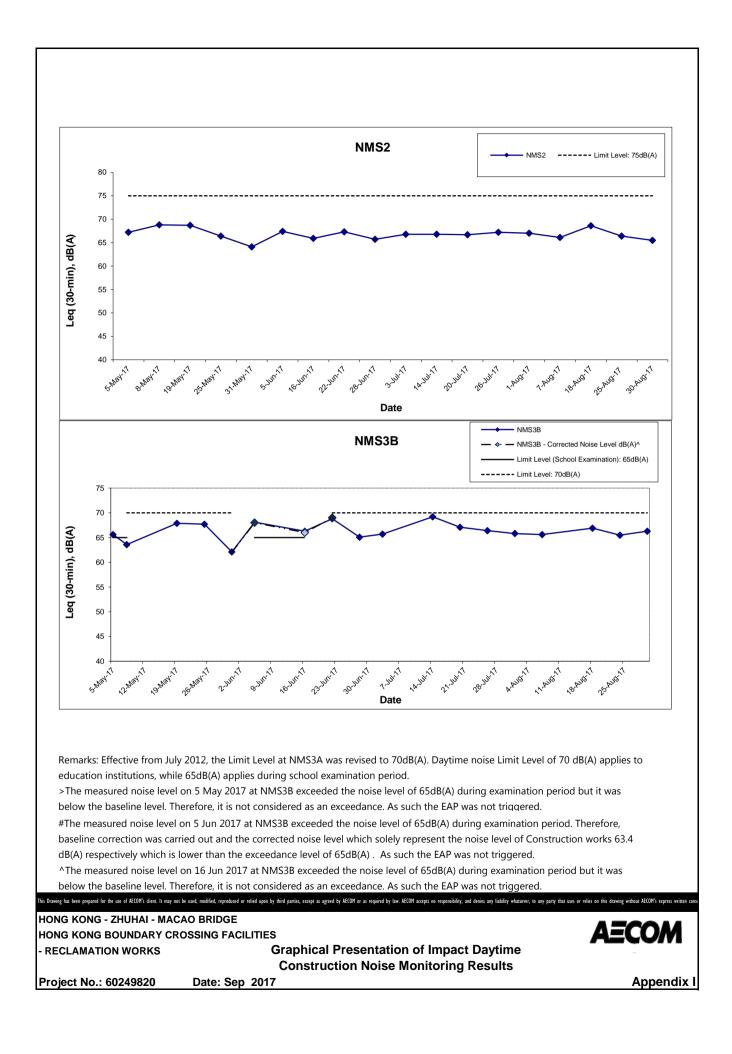
 $^{\#}$  A correction of +3dB(A) was made to the free field measurement.

\* Façade measurement.

^ Averaged baseline noise level recorded at NMS3 Ho Yu College is adopted.

\*\* Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

> Due to effect of typhoon on arrangement of monitoring, noise monitoring at Station NMS2 - Seaview Crescent Tower 1 was rescheduled from 24 Aug 2017 to 25 Aug 2017.



# Water Quality Monitoring Results at CS(Mf)3(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:00		Surface	1.0	29.9 29.9	29.9	8.0 7.9	8.0	15.5 15.6	15.6	94.7 92.5	93.6	6.6 6.4	6.5		4.5 4.4	4.5		7.7 7.1	7.4	
				7.0	Middle	3.5	29.7 29.8	29.7	7.9 7.9	7.9	16.5 16.5	16.5	87.7 88.8	88.3	6.1 6.2	6.1	6.3	4.1 4.5	4.3	4.4	6.5 6.2	6.4	6.7
					Bottom	6.0	29.5 29.5	29.5	7.9	7.9	20.0	20.1	89.1 91.8	90.5	6.1 6.3	6.2	6.2	4.1	4.3		6.2 6.2	6.2	
4-Aug-17	Fine	Moderate	11:23		Surface	1.0	29.1 29.0	29.0	8.0 8.0	8.0	18.8 18.8	18.8	88.3 89.9	89.1	6.3 6.4	6.4		6.5 6.7	6.6		7.2	6.9	
				7.3	Middle	3.7	28.5 28.8	28.7	8.0 8.0	8.0	22.8 21.4	22.1	82.7 85.1	83.9	6.1 6.2	6.2	6.3	9.2 8.9	9.1	8.8	7.6	7.0	6.9
					Bottom	6.3	28.2 28.2	28.2	8.0 8.0	8.0	26.9 27.0	26.9	78.3 82.8	80.6	5.6 6.0	5.8	5.8	10.7 11.0	10.9		6.3 7.6	7.0	
7-Aug-17	Sunny	Moderate	12:04		Surface	1.0	29.2 29.1	29.2	7.9 7.9	7.9	18.9 19.2	19.1	73.6 73.2	73.4	5.4 5.3	5.3		5.7 5.7	5.7		6.6 6.6	6.6	
				6.9	Middle	3.5	28.9 28.8	28.9	7.9 7.9	7.9	21.9 22.3	22.1	73.3 73.2	73.3	5.3 5.3	5.3	5.3	5.8 5.5	5.7	5.8	8.0 7.4	7.7	7.6
					Bottom	5.9	28.8 28.4	28.6	7.9 7.8	7.9	24.6 24.8	24.7	74.3 74.0	74.2	5.3 5.3	5.3	5.3	6.0 6.3	6.2		8.8 8.0	8.4	
9-Aug-17	Cloudy	Moderate	13:14		Surface	1.1	29.3 29.3	29.3	8.0 8.0	8.0	21.0 21.0	21.0	83.5 83.1	83.3	5.7 5.7	5.7		8.7 8.8	8.8		8.7 7.0	7.9	
				9.1	Middle	4.5	29.3 29.2	29.2	8.0 8.0	8.0	21.0 21.1	21.1	82.8 83.0	82.9	5.7 5.7	5.7	5.7	9.4 9.2	9.3	9.2	7.4 7.7	7.6	7.8
				Bottom	8.1	29.2 29.2	29.2	8.0 8.0	8.0	21.2 21.2	21.2	82.1 82.4	82.3	5.6 5.6	5.6	5.6	9.6 9.5	9.6		8.8 7.4	8.1		
11-Aug-17	Cloudy	Moderate	14:17	6.6	Surface	1.0	29.7 29.7	29.7	8.0 8.0	8.0	19.7 19.7	19.7	81.6 81.5	81.6	5.9 5.9	5.9	5.8	5.4 5.7	5.6		4.0 4.5	4.3	
					Middle	3.3	29.2 29.2	29.2	8.0 8.0	8.0	20.9 21.1	21.0	79.8 80.9	80.4	5.8 5.8	5.8	5.6	6.0 5.9	6.0	6.0	4.9 4.0	4.5	4.2
					Bottom	5.6	29.2 29.2	29.2	8.0 8.0	8.0	21.4 21.3	21.4	81.5 79.7	80.6	5.8 5.7	5.8	5.8	6.7 6.3	6.5		3.6 4.1	3.9	
14-Aug-17	Sunny	Moderate	16:27		Surface	1.1	29.8 29.6	29.7	7.8 7.8	7.8	17.8 18.1	17.9	87.4 87.8	87.6	6.0 6.0	6.0	6.0	4.7 4.9	4.8		8.9 8.3	8.6	
				9.1	Middle	4.5	29.3 29.5	29.4	7.8 7.8	7.8	18.4 18.2	18.3	85.8 86.7	86.3	5.9 5.9	5.9	0.0	5.1 5.2	5.2	5.1	9.2 8.4	8.8	8.5
					Bottom	8.1	29.2 29.3	29.3	7.8 7.8	7.8	21.7 20.8	21.2	84.7 84.0	84.4	5.8 5.8	5.8	5.8	5.3 5.4	5.4		8.3 8.0	8.2	
16-Aug-17	Cloudy	Moderate	7:52		Surface	1.1	29.3 29.2	29.2	7.7 7.7	7.7	16.0 17.1	16.6	78.7 78.7	78.7	5.5 5.5	5.5	5.3	3.1 3.1	3.1		4.9 4.2	4.6	
				7.6	Middle	3.8	28.8 28.4	28.6	7.6 7.6	7.6	21.1 20.6	20.8	75.4 76.5	76.0	5.1 5.2	5.2	5.5	3.2 3.2	3.2	3.2	4.3 4.5	4.4	4.3
					Bottom	6.6	28.3 28.3	28.3	7.6 7.6	7.6	24.1 24.1	24.1	72.9 73.7	73.3	5.1 5.1	5.1	5.1	3.3 3.3	3.3		4.6 3.3	4.0	
18-Aug-17	Sunny	Moderate	10:28		Surface	1.1	29.7 29.8	29.8	7.8 7.8	7.8	15.2 15.0	15.1	91.0 89.7	90.4	6.4 6.3	6.3	6.0	3.3 3.1	3.2		2.1 3.3	2.7	
				9.0	Middle	4.5	29.3 29.4	29.3	7.7	7.7	18.0 17.1	17.5	82.7 83.2	83.0	5.7 5.7	5.7	0.0	3.6 3.5	3.6	3.5	3.2 3.8	3.5	3.2
					Bottom	8.0	28.0 27.7	27.8	7.7 7.7	7.7	24.8 25.6	25.2	78.7 79.7	79.2	5.5 5.5	5.5	5.5	3.8 3.7	3.8		3.8 3.1	3.5	
21-Aug-17	Sunny	Moderate	11:50		Surface	1.0	29.1 28.9	29.0	7.9 7.9	7.9	19.4 20.0	19.7	82.5 81.6	82.1	5.7 5.6	5.7	5.5	5.0 4.7	4.9		7.1 5.6	6.4	, 7
				7.3	Middle	3.6	28.6 28.6	28.6	7.9 7.9	7.9	20.6 20.7	20.7	77.5 79.1	78.3	5.4 5.5	5.4		5.4 5.5	5.5	5.7	7.0 7.7	7.4	7.3
					Bottom	6.3	27.9 27.8	27.8	7.9 7.9	7.9	24.9 24.4	24.7	78.4 75.9	77.2	5.4 5.2	5.3	5.3	6.7 6.6	6.7		9.0 7.6	8.3	

Remarks: \* DA: Depth-Averaged \*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

# Water Quality Monitoring Results at CS(Mf)3(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Turbidity(NTU)			Suspended Solids (mg/L)					
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*			
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-				
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	=			
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-				
25-Aug-17	25-Aug-17 Sunny Moderate 14:35	Moderate	14:35		Surface	1.1	28.4 28.4	28.4	7.7 7.6	7.7	21.9 21.9	21.9	77.9 78.4	78.2	5.4 5.4	5.4	5.3	6.3 6.5	6.4		8.0 8.1	8.1				
				6.4	Middle	3.2	28.0 27.9	28.0	7.7 7.6	7.7	22.5 22.5	22.5	74.4 74.5	74.5	5.1 5.1	5.1	5.5	7.3 7.1	7.2	7.4	7.3 7.0	7.2	7.3			
				Bottom	5.4	27.0 27.0	27.0	7.6 7.6	7.6	26.8 26.7	26.7	74.0 73.7	73.9	5.1 5.1	5.1	5.1	8.3 8.6	8.5		6.9 6.6	6.8					
28-Aug-17	Rainy	Moderate	16:19		Surface	1.1	27.4 27.4	27.4	7.4 7.4	7.4	17.3 17.1	17.2	78.7 78.3	78.5	5.6 5.6	5.6	5.5	5.7 5.9	5.8		4.4 4.4	4.4				
				6.4	6.4	6.4	6.4	Middle	3.2	27.1 27.1	27.1	7.3 7.3	7.3	23.1 23.1	23.1	78.0 77.2	77.6	5.4 5.4	5.4	5.5	6.4 6.3	6.4	6.4	4.1 5.9	5.0	5.0
					Bottom	5.4	26.9 26.9	26.9	7.3 7.3	7.3	24.5 24.6	24.5	76.9 77.7	77.3	5.4 5.4	5.4	5.4	7.1 6.9	7.0		4.5 6.4	5.5				
30-Aug-17	Fine	Moderate	7:42		Surface	1.1	27.9 27.9	27.9	7.5 7.5	7.5	16.0 16.1	16.1	75.1 75.6	75.4	5.4 5.4	5.4	5.2	5.3 5.0	5.2		6.8 5.7	6.3				
				6.4	Middle	3.2	26.8 26.8	26.8	7.5 7.5	7.5	22.2 22.2	22.2	71.9 72.7	72.3	5.1 5.1	5.1	5.2	4.5 4.8	4.7	5.3	6.7 5.0	5.9	6.8			
			Bottom	5.4	26.5 26.5	26.5	7.4 7.4	7.4	27.4 27.3	27.3	72.1 71.6	71.9	5.0 4.9	5.0	5.0	6.1 6.3	6.2		8.6 8.2	8.4						

### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at CS(Mf)3(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	Turbidity(NT	U)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	15:46		Surface	1.1	29.8 29.8	29.8	8.1 8.1	8.1	15.0 15.0	15.0	98.6 93.6	96.1	6.9 6.5	6.7	6.5	6.8 6.4	6.6		9.1 10.1	9.6	
				7.1	Middle	3.5	29.7 29.7	29.7	8.1 8.0	8.1	17.0 17.0	17.0	93.9 89.8	91.9	6.5 6.1	6.3	0.5	6.2 6.3	6.3	6.3	10.2 10.6	10.4	10.1
					Bottom	6.1	29.2 28.3	28.7	8.0 7.9	7.9	21.6 22.6	22.1	84.2 79.7	82.0	5.8 5.5	5.7	5.7	5.9 6.1	6.0		10.3 10.2	10.3	
4-Aug-17	Fine	Moderate	17:31		Surface	0.9	29.3 29.2	29.2	7.9 7.9	7.9	16.9 17.0	16.9	87.7 84.0	85.9	6.2 5.9	6.1	5.8	6.3 6.0	6.2		7.6 7.9	7.8	
				7.3	Middle	3.7	28.7 28.5	28.6	7.9 7.9	7.9	20.9 21.1	21.0	79.5 78.2	78.9	5.5 5.4	5.4	5.0	6.8 6.5	6.7	6.8	7.7 6.6	7.2	7.2
					Bottom	6.3	28.3 28.0	28.2	7.8 7.8	7.8	27.4 26.1	26.7	76.2 75.0	75.6	5.3 5.3	5.3	5.3	7.8 7.4	7.6		7.0 6.2	6.6	
7-Aug-17	Sunny	Moderate	6:37		Surface	1.1	29.5 29.5	29.5	7.9 7.9	7.9	18.6 18.6	18.6	74.4 73.7	74.1	5.3 5.2	5.2	5.3	4.6 4.8	4.7		5.8 5.4	5.6	
				7.0	Middle	3.5	29.0 29.1	29.1	7.9 7.9	7.9	20.0 20.3	20.2	74.5 74.5	74.5	5.3 5.3	5.3	5.5	5.0 5.0	5.0	5.0	8.6 9.1	8.9	7.8
					Bottom	6.0	28.9 28.1	28.5	7.9 7.8	7.9	24.6 24.6	24.6	74.6 74.1	74.4	5.3 5.2	5.3	5.3	5.1 5.3	5.2		9.0 8.7	8.9	
9-Aug-17	Cloudy	Moderate	7:57		Surface	1.0	29.3 29.4	29.3	7.9 7.9	7.9	20.4 20.4	20.4	77.3 77.2	77.3	5.3 5.3	5.3	5.3	8.7 8.6	8.7		6.4 5.1	5.8	
				9.1	Middle	4.6	29.0 29.2	29.1	7.9 7.9	7.9	21.6 20.7	21.1	76.9 76.7	76.8	5.3 5.2	5.2		8.8 8.9	8.9	8.9	7.0 6.4	6.7	6.5
					Bottom	8.1	28.8 29.4	29.1	7.9 7.9	7.9	23.1 21.3	22.2	75.2 75.8	75.5	5.1 5.2	5.2	5.2	9.2 9.3	9.3		7.7 6.2	7.0	
11-Aug-17	Cloudy	Moderate	9:16		Surface	1.0	28.8 28.8	28.8	7.8 7.8	7.8	21.9 21.8	21.9	76.0 76.4	76.2	5.5 5.5	5.5	5.5	8.1 8.3	8.2		6.1 6.3	6.2	_
				6.7	Middle	3.4	28.6 28.6	28.6	7.8 7.9	7.9	22.1 22.1	22.1	75.4 75.5	75.5	5.4 5.4	5.4		8.4 8.2	8.3	8.7	6.0 6.4	6.2	6.6
					Bottom	5.7	28.3 28.5	28.4	7.9 7.8	7.9	23.6 23.6	23.6	76.3 76.0	76.2	5.5 5.5	5.5	5.5	9.7 9.5	9.6		7.2 7.8	7.5	
14-Aug-17	Sunny	Moderate	12:01		Surface	1.0	29.6 29.6	29.6	7.9 7.9	7.9	16.2 16.4	16.3	86.9 86.3	86.6	6.1 6.0	6.0	5.9	3.1 3.3	3.2		2.3 3.3	2.8	_
				9.2	Middle	4.6	29.4 29.4	29.4	7.9 7.9	7.9	18.0 17.1	17.5	85.4 85.9	85.7	5.8 5.9	5.8		3.6 3.5	3.6	3.5	4.6 4.4	4.5	4.0
					Bottom	8.2	29.2 29.0	29.1	7.8	7.9	21.5 21.6	21.5	84.8 84.7	84.8	5.9 5.9	5.9	5.9	3.7 3.8	3.8		4.4 4.7	4.6	
16-Aug-17	Cloudy	Moderate	13:34		Surface	1.1	30.5 30.5	30.5	7.7	7.7	9.4 9.2	9.3	91.2 89.4	90.3	6.5 6.4	6.4	6.0	4.9 4.9	4.9		5.2 4.8	5.0	-
				6.6	Middle	3.3	29.8 29.8 29.2	29.8	7.6 7.6 7.6	7.6	14.8 15.3 18.1	15.1	80.5 80.7 79.0	80.6	5.6 5.6 5.5	5.6		3.8 4.0 3.8	3.9	4.2	5.3 4.6 5.4	5.0	5.1
40 Aug 47	Curran	Madanata	47:04		Bottom	5.6	29.3	29.2	7.6	7.6	17.4	17.7	78.7	78.9	5.5	5.5	5.5	3.9	3.9		5.1	5.3	
18-Aug-17	Sunny	Moderate	17:01		Surface	1.1	30.5 30.4 30.1	30.4	8.0 8.0 8.0	8.0	12.9 13.5 14.9	13.2	119.9 <u>117.7</u> 113.2	118.8	8.2 8.2 7.9	8.2	8.0	3.3 3.5 3.7	3.4		4.6 4.7 5.8	4.7	-
				9.2	Middle	4.6	30.1 30.0 29.7	30.0	8.0 8.0 8.0	8.0	14.9 15.4 18.6	15.2	108.1 104.8	110.7	7.9 7.6 7.3	7.7		3.7 3.4 3.7	3.6	3.6	5.8 5.2 5.2	5.5	5.2
21 Aug 17	Succes	Moderate	6:32		Bottom	8.2	29.7 30.2 28.9	30.0	8.0 8.0 7.9	8.0	17.6 20.0	18.1	104.8 107.1 87.9	106.0	7.3	7.3	7.3	3.7 3.7 4.5	3.7		5.2 5.8 5.3	5.5	<u> </u>
21-Aug-17	Sunny	Moderate	0.32		Surface	1.0	28.9 29.1 28.5	29.0	7.9 7.9 7.9	7.9	20.0 19.6 21.9	19.8	87.9 89.2 88.1	88.6	6.1 6.1 6.1	6.1	6.1	4.5 4.5 4.6	4.5		5.3 6.0 5.9	5.7	4
				7.1	Middle	3.5	28.5 28.5 28.4	28.5	7.9 7.9 7.9	7.9	21.9 21.8 22.4	21.9	88.1 88.0 88.9	88.1	6.1	6.1		4.6 4.6 4.7	4.6	4.6	5.9 5.7 5.8	5.8	5.9
					Bottom	6.1	28.4 28.5	28.4	7.9 7.9	7.9	22.4 22.2	22.3	88.9 88.0	88.5	6.1 6.0	6.1	6.1	4.7 4.7	4.7		5.8 6.4	6.1	

## Water Quality Monitoring Results at CS(Mf)3(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	9:20		Surface	1.0	28.0 28.1	28.1	7.6 7.6	7.6	21.3 21.3	21.3	76.9 76.9	76.9	5.3 5.3	5.3	5.3	10.2 9.9	10.1		9.9 10.5	10.2	
				6.6	Middle	3.3	27.9 27.9	27.9	7.6 7.6	7.6	22.0 22.0	22.0	76.5 76.8	76.7	5.3 5.3	5.3	5.5	11.1 11.2	11.2	10.9	9.6 9.3	9.5	9.9
					Bottom	5.6	27.8 27.8	27.8	7.7 7.6	7.7	22.8 22.8	22.8	79.0 78.4	78.7	5.5 5.4	5.5	5.5	11.6 11.6	11.6		9.9 9.9	9.9	
28-Aug-17	Rainy	Moderate	11:36		Surface	1.1	27.5 27.5	27.5	7.5 7.4	7.5	17.2 17.2	17.2	77.3 78.0	77.7	5.5 5.6	5.6	5.5	7.5 7.4	7.5		8.7 8.7	8.7	
				6.8	Middle	3.4	27.5 27.5	27.5	7.4 7.4	7.4	18.6 18.7	18.7	76.9 76.6	76.8	5.5 5.5	5.5	5.5	8.5 8.6	8.6	8.0	8.1 7.4	7.8	9.0
					Bottom	5.8	27.4 27.4	27.4	7.4 7.4	7.4	19.8 19.7	19.7	76.2 75.7	76.0	5.4 5.4	5.4	5.4	8.3 7.9	8.1		11.2 10.0	10.6	
30-Aug-17	Fine	Moderate	14:31		Surface	1.0	28.8 28.8	28.8	7.4 7.4	7.4	13.4 13.4	13.4	78.4 78.1	78.3	5.6 5.6	5.6	5.4	7.6 7.4	7.5		10.7 10.8	10.8	
				6.6	Middle	3.3	28.1 28.1	28.1	7.3 7.4	7.3	16.2 16.2	16.2	73.9 73.4	73.7	5.3 5.2	5.3	5.4	6.8 7.0	6.9	7.3	11.8 10.9	11.4	11.1
					Bottom	5.6	26.7 26.7	26.7	7.3 7.3	7.3	26.1 26.2	26.1	73.2 72.6	72.9	5.1 5.0	5.0	5.0	7.3 7.4	7.4		10.2 12.4	11.3	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	Т	urbidity(NTl	J)	Susp	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:20		Surface	1.0	29.9 29.9	29.9	7.9 7.9	7.9	15.7 15.7	15.7	83.3 82.6	83.0	5.9 5.7	5.8	5.7	5.9 6.2	6.1		3.8 5.3	4.6	
				16.3	Middle	8.2	28.6 28.4	28.5	7.8 7.8	7.8	21.9 23.2	22.5	81.4 80.0	80.7	5.7 5.6	5.6	5.7	6.9 6.5	6.7	6.8	6.7 6.5	6.6	5.7
					Bottom	15.3	28.2 28.2	28.2	7.8 7.8	7.8	25.9 26.0	25.9	75.4 77.3	76.4	5.3 5.4	5.3	5.3	7.8 7.7	7.8		5.4 6.3	5.9	
4-Aug-17	Fine	Moderate	11:45		Surface	1.0	29.0 29.1	29.0	8.1 8.1	8.1	18.8 18.7	18.7	84.0 87.7	85.9	5.9 6.2	6.0		8.8 8.7	8.8		3.5 2.8	3.2	
				16.7	Middle	8.3	28.2	28.2	8.0 8.0	8.0	27.0 27.0	27.0	75.4 78.1	76.8	5.2 5.6	5.4	5.7	9.1 8.5	8.8	9.2	3.9 3.3	3.6	3.6
					Bottom	15.7	28.4 28.2	28.3	8.0 8.0	8.0	26.9 27.0	27.0	73.8 72.5	73.2	5.4 5.1	5.2	5.2	9.8 10.4	10.1		4.3	4.0	
7-Aug-17	Sunny	Moderate	11:46		Surface	1.0	29.3 29.2	29.2	7.9 7.9	7.9	19.2 19.3	19.3	74.6	74.3	5.4 5.4	5.4		5.7	5.9		8.9 8.3	8.6	
				16.1	Middle	8.1	28.3 28.3	28.3	7.9 7.8	7.9	25.0 24.9	25.0	74.2	74.2	5.3 5.3	5.3	5.3	5.7 5.8	5.8	6.0	10.3 9.0	9.7	9.4
					Bottom	15.1	28.3 28.3	28.3	7.8 7.9	7.9	25.0 25.3	25.1	74.0 74.1	74.1	5.3 5.2	5.3	5.3	6.5 6.0	6.3		9.6 10.3	10.0	
9-Aug-17	Cloudy	Moderate	12:51		Surface	1.1	29.3 29.3	29.3	8.0 8.0	8.0	21.0 21.0	21.0	83.8 84.5	84.2	5.7 5.8	5.7		10.3 10.4	10.4		7.5	7.2	
				15.3	Middle	7.7	29.2 29.2	29.2	8.0 8.0	8.0	21.1 21.1	21.1	83.4 83.4	83.4	5.7 5.7	5.7	5.7	10.5	10.5	10.5	8.8 7.5	8.2	8.2
					Bottom	14.3	29.2 29.2	29.2	8.0 8.1	8.0	21.2 21.1	21.2	82.6 82.8	82.7	5.6 5.7	5.6	5.6	10.7 10.8	10.8		9.4 9.3	9.4	
11-Aug-17	Cloudy	Moderate	13:58		Surface	1.0	29.3 29.7	29.5	8.0 8.0	8.0	19.9 19.7	19.8	82.2 81.0	81.6	5.9 5.9	5.9	5.0	8.2 8.0	8.1		0.8 0.8	0.8	
				16.8	Middle	8.4	29.0 29.0	29.0	8.0 8.0	8.0	22.2 22.2	22.2	79.5 80.2	79.9	5.7 5.7	5.7	5.8	8.8 9.0	8.9	8.8	1.9 1.9	1.9	1.7
					Bottom	15.8	29.0 28.8	28.9	8.0 8.1	8.0	22.4 22.6	22.5	80.2 80.2	80.2	5.7 5.7	5.7	5.7	9.3 9.6	9.5		2.4 2.5	2.5	
14-Aug-17	Sunny	Moderate	16:05		Surface	1.0	29.9 29.9	29.9	7.8 7.8	7.8	17.7 17.6	17.6	88.9 88.6	88.8	6.1 6.1	6.1	6.1	4.2 4.1	4.2		7.8 8.1	8.0	
				15.5	Middle	7.8	29.7 29.7	29.7	7.8 7.8	7.8	17.9 18.0	18.0	87.9 87.8	87.9	6.0 6.0	6.0	0.1	4.4 4.6	4.5	4.5	8.5 7.7	8.1	8.3
					Bottom	14.5	29.3 29.6	29.5	7.8 7.8	7.8	19.7 19.2	19.4	86.6 87.3	87.0	6.0 6.0	6.0	6.0	4.8 4.7	4.8		8.2 9.4	8.8	
16-Aug-17	Cloudy	Moderate	8:30		Surface	1.1	29.1 29.0	29.1	7.7 7.7	7.7	16.8 16.7	16.7	74.6 73.2	73.9	5.2 5.1	5.2	5.1	3.7 3.8	3.8		4.1 4.8	4.5	
				17.0	Middle	8.5	28.6 28.6	28.6	7.6 7.6	7.6	24.0 23.9	23.9	74.6 74.2	74.4	5.1 5.0	5.1	5.1	3.8 3.8	3.8	3.8	3.9 4.0	4.0	3.9
					Bottom	16.0	27.1 28.0	27.6	7.6 7.6	7.6	30.3 29.0	29.6	74.1 73.1	73.6	5.0 4.9	4.9	4.9	3.8 3.7	3.8		3.1 3.3	3.2	
18-Aug-17	Sunny	Moderate	10:47		Surface	1.1	29.8 29.8	29.8	7.8 7.8	7.8	15.2 15.2	15.2	92.2 91.6	91.9	6.4 6.4	6.4	6.3	2.9 2.8	2.9		5.4 5.3	5.4	
				15.8	Middle	7.9	29.4 29.6	29.5	7.8 7.8	7.8	15.4 15.6	15.5	87.1 89.7	88.4	6.1 6.2	6.2	0.3	3.1 3.2	3.2	3.2	5.4 4.8	5.1	5.2
					Bottom	14.8	28.9 28.3	28.6	7.7 7.7	7.7	19.2 22.6	20.9	85.8 88.2	87.0	6.0 6.1	6.0	6.0	3.4 3.5	3.5		5.6 4.9	5.3	
21-Aug-17	Sunny	Moderate	11:29		Surface	1.0	28.8 28.8	28.8	7.9 7.9	7.9	20.2 20.0	20.1	79.3 80.3	79.8	5.5 5.6	5.5	5.4	5.8 5.5	5.7		6.2 4.9	5.6	
				16.9	Middle	8.5	27.7 27.9	27.8	7.9 7.9	7.9	24.0 23.8	23.9	75.9 76.6	76.3	5.2 5.3	5.3	5.4	5.9 5.8	5.9	6.4	4.5 5.1	4.8	5.4
					Bottom	15.9	28.1 27.5	27.8	7.9 7.9	7.9	25.0 26.2	25.6	79.4 77.5	78.5	5.4 5.3	5.3	5.3	7.6 7.8	7.7		6.2 5.5	5.9	

## Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	1	Turbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-	-	-	-	<u>-</u>	-	-	=
					Bottom	-	-	-		-		-		-	-	-	-	-	-		-	-	L
25-Aug-17	Sunny	Moderate	14:48		Surface	1.1	28.1 28.1	28.1	7.7 7.6	7.6	22.1 22.2	22.2	75.2 75.4	75.3	5.2 5.2	5.2	5.1	7.8 7.9	7.9		9.9 10.2	10.1	
				16.2	Middle	8.1	26.8 26.9	26.9	7.7 7.6	7.7	27.8 27.8	27.8	74.1 74.1	74.1	5.1 5.1	5.1	5.1	8.6 8.5	8.6	8.7	9.5 9.5	9.5	9.6
					Bottom	15.2	26.4 26.3	26.4	7.7 7.7	7.7	29.4 29.3	29.3	76.0 75.3	75.7	5.2 5.1	5.2	5.2	9.8 9.6	9.7		9.0 9.6	9.3	
28-Aug-17	Rainy	Moderate	16:33		Surface	1.1	27.5 27.5	27.5	7.6 7.6	7.6	21.0 21.0	21.0	79.8 80.8	80.3	5.6 5.7	5.7	5.5	5.8 5.7	5.8		5.8 5.9	5.9	
				16.2	Middle	8.1	26.7 26.7	26.7	7.5 7.5	7.5	26.5 26.4	26.5	78.4 78.8	78.6	5.4 5.5	5.4	5.5	6.1 6.2	6.2	6.2	7.2 6.2	6.7	7.2
					Bottom	15.2	26.3 26.3	26.3	7.5 7.5	7.5	30.1 30.1	30.1	77.5 77.8	77.7	5.3 5.3	5.3	5.3	6.6 6.5	6.6		8.6 9.6	9.1	
30-Aug-17	Fine	Moderate	7:31		Surface	1.0	27.5 27.6	27.6	7.5 7.5	7.5	20.4 20.5	20.4	75.6 77.3	76.5	5.4 5.4	5.4	5.2	4.7 4.5	4.6		5.5 5.4	5.5	
				16.4	Middle	8.2	26.4 26.4	26.4	7.4 7.5	7.5	30.3 30.4	30.4	74.7 75.2	75.0	5.1 5.1	5.1	5.2	5.3 5.3	5.3	5.2	6.9 5.3	6.1	6.2
					Bottom	15.4	25.9 25.9	25.9	7.4 7.4	7.4	32.6 32.6	32.6	72.4 72.2	72.3	4.9 4.9	4.9	4.9	5.7 5.5	5.6		6.2 7.9	7.1	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	۲	Furbidity(NT	U)	Suspe	ended Solids	ه (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	15:24		Surface	1.0	29.7 29.8	29.8	8.0 8.0	8.0	14.7 14.5	14.6	83.3 82.9	83.1	5.8 5.8	5.8	5.6	7.3 7.4	7.4		10.2 10.2	10.2	
				16.6	Middle	8.3	28.3 28.4	28.3	7.9 7.9	7.9	22.2 23.3	22.7	77.1 75.9	76.5	5.5 5.3	5.4	5.0	7.0 6.7	6.9	7.0	9.6 11.3	10.5	10.4
					Bottom	15.6	27.9 27.8	27.8	7.8 7.8	7.8	27.0 27.2	27.1	73.4 76.2	74.8	5.0 5.2	5.1	5.1	6.5 6.8	6.7		10.2 10.8	10.5	
4-Aug-17	Fine	Moderate	17:11		Surface	1.0	29.3 28.8	29.1	7.9 7.9	7.9	16.5 17.5	17.0	76.8 79.4	78.1	5.3 5.4	5.4	5.0	5.8 6.3	6.1		5.4 5.1	5.3	
				16.3	Middle	8.2	28.3 28.3	28.3	7.9 7.9	7.9	24.3 24.2	24.3	73.9 74.1	74.0	5.1 5.3	5.2	5.3	7.9 8.0	8.0	7.6	4.4 4.8	4.6	5.3
					Bottom	15.3	28.1 28.6	28.3	7.9 7.9	7.9	26.0 26.4	26.2	71.6 72.2	71.9	5.0 5.1	5.1	5.1	8.7 8.8	8.8		6.3 5.6	6.0	
7-Aug-17	Sunny	Moderate	6:58		Surface	1.0	29.2 29.3	29.2	7.9 7.9	7.9	18.9 19.0	18.9	74.7 73.6	74.2	5.3 5.3	5.3	5.0	5.7 5.8	5.8		7.1 8.4	7.8	
				16.1	Middle	8.1	28.4 28.4	28.4	7.8 7.9	7.9	24.3 24.5	24.4	74.3 74.3	74.3	5.3 5.3	5.3	5.3	6.1 6.3	6.2	6.1	9.1 7.5	8.3	8.0
					Bottom	15.1	28.3 28.1	28.2	7.8 7.8	7.8	25.2 25.8	25.5	74.4 74.4	74.4	5.3 5.3	5.3	5.3	6.2 6.3	6.3		7.8 7.8	7.8	
9-Aug-17	Cloudy	Moderate	8:20		Surface	1.1	29.4 29.4	29.4	7.9 7.9	7.9	20.4 20.5	20.4	77.7 77.5	77.6	5.3 5.3	5.3	5.3	8.3 8.1	8.2		6.5 5.5	6.0	
				15.4	Middle	7.7	29.3 29.0	29.1	7.9 7.9	7.9	20.7 20.9	20.8	76.3 76.4	76.4	5.2 5.2	5.2	5.5	8.5 8.5	8.5	8.5	7.1 5.7	6.4	6.2
					Bottom	14.4	28.7 29.4	29.0	7.9 7.9	7.9	23.9 20.8	22.3	74.8 74.8	74.8	5.1 5.1	5.1	5.1	8.8 8.9	8.9		5.3 6.8	6.1	
11-Aug-17	Cloudy	Moderate	9:37		Surface	1.1	28.7 28.8	28.7	7.8 7.8	7.8	21.9 21.9	21.9	74.8 73.8	74.3	5.5 5.4	5.4	5.4	9.1 8.9	9.0		6.4 5.3	5.9	
				16.5	Middle	8.3	28.4 28.4	28.4	7.8 7.8	7.8	23.0 23.4	23.2	73.7 73.8	73.8	5.3 5.3	5.3	3.4	8.8 8.5	8.7	9.2	7.8 6.7	7.3	6.8
					Bottom	15.5	28.3 28.4	28.4	7.8 7.8	7.8	23.7 23.7	23.7	74.6 74.2	74.4	5.4 5.4	5.4	5.4	9.6 10.3	10.0		7.5 6.8	7.2	
14-Aug-17	Sunny	Moderate	12:25		Surface	1.0	29.6 29.5	29.5	7.9 7.9	7.9	16.4 16.6	16.5	85.9 86.4	86.2	6.0 6.0	6.0	6.0	3.8 3.9	3.9		4.9 3.4	4.2	
				15.6	Middle	7.8	29.5 29.4	29.4	7.9 7.9	7.9	17.2 18.0	17.6	85.3 85.9	85.6	5.9 6.0	5.9	0.0	4.1 4.0	4.1	4.1	5.7 5.7	5.7	5.5
					Bottom	14.6	29.4 29.0	29.2	7.9 7.9	7.9	19.0 21.2	20.1	84.8 85.9	85.4	5.9 5.9	5.9	5.9	4.4 4.3	4.4		6.5 6.8	6.7	
16-Aug-17	Cloudy	Moderate	13:16		Surface	1.1	29.6 29.6	29.6	7.7 7.7	7.7	17.9 18.1	18.0	77.6 80.7	79.2	5.4 5.6	5.5	5.3	3.1 3.2	3.2		5.7 6.5	6.1	
				19.2	Middle	9.6	28.0 27.9	28.0	7.6 7.6	7.6	25.8 26.1	25.9	73.1 75.9	74.5	5.1 5.2	5.1		4.2 4.0	4.1	3.9	8.9 9.3	9.1	7.7
					Bottom	18.2	27.2 26.8	27.0	7.6 7.6	7.6	30.1 30.2	30.1	71.7 71.2	71.5	4.8 4.9	4.8	4.8	4.5 4.5	4.5		7.9 8.0	8.0	
18-Aug-17	Sunny	Moderate	16:43		Surface	1.1	30.4 30.2	30.3	8.0 8.0	8.0	13.0 14.9	13.9	101.9 103.5	102.7	7.1 7.1	7.1	7.0	4.7 4.6	4.7		0.8 0.8	0.8	
				15.8	Middle	7.9	29.9 29.9	29.9	7.9 7.9	7.9	16.0 16.1	16.0	99.6 99.3	99.5	6.8 6.9	6.8	_	4.9 5.3	5.1	5.0	3.8 3.6	3.7	3.0
					Bottom	14.8	28.1 28.2	28.1	7.9 7.9	7.9	24.7 24.0	24.4	97.2 96.0	96.6	6.7 6.7	6.7	6.7	5.2 5.3	5.3		4.3 4.8	4.6	
21-Aug-17	Sunny	Moderate	6:53		Surface	1.0	28.8 28.6	28.7	7.9 7.9	7.9	20.7 20.5	20.6	87.1 87.2	87.2	6.0 6.0	6.0	6.0	5.2 5.4	5.3		5.6 5.9	5.8	
				16.1	Middle	8.1	28.3 28.1	28.2	7.9 7.9	7.9	22.5 22.6	22.6	86.0 86.5	86.3	5.9 5.9	5.9		5.3 5.0	5.2	5.2	6.7 7.8	7.3	6.4
					Bottom	15.1	28.0 28.1	28.0	7.9 7.9	7.9	24.5 24.2	24.4	84.5 84.0	84.3	5.8 5.8	5.8	5.8	5.4 5.1	5.3		6.0 6.5	6.3	

## Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-		-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	9:04		Surface	1.1	27.9 27.9	27.9	7.6 7.6	7.6	22.7 22.6	22.7	76.0 76.5	76.3	5.3 5.3	5.3	5.2	7.5 7.6	7.6		8.6 9.5	9.1	
				16.4	Middle	8.2	27.2 27.3	27.2	7.6 7.6	7.6	25.9 26.0	25.9	75.0 75.4	75.2	5.2 5.2	5.2	5.2	8.0 8.1	8.1	8.1	8.8 9.1	9.0	8.7
					Bottom	15.4	27.1 27.0	27.1	7.6 7.6	7.6	26.5 26.5	26.5	78.4 78.6	78.5	5.4 5.4	5.4	5.4	8.6 8.5	8.6		8.2 8.0	8.1	
28-Aug-17	Rainy	Moderate	11:22		Surface	1.1	27.3 27.3	27.3	7.5 7.6	7.6	20.1 20.1	20.1	80.0 80.2	80.1	5.7 5.7	5.7	5.6	7.6 7.4	7.5		8.6 7.9	8.3	
				16.4	Middle	8.2	26.8 26.8	26.8	7.5 7.6	7.5	25.8 25.7	25.7	80.0 79.6	79.8	5.5 5.5	5.5	5.0	8.3 8.5	8.4	8.5	12.2 12.8	12.5	11.3
					Bottom	15.4	26.4 26.4	26.4	7.5 7.5	7.5	28.4 28.3	28.3	79.7 79.6	79.7	5.5 5.5	5.5	5.5	9.8 9.6	9.7		12.8 13.7	13.3	
30-Aug-17	Fine	Moderate	14:43		Surface	1.0	29.0 29.0	29.0	7.5 7.5	7.5	12.8 12.7	12.7	78.0 77.3	77.7	5.6 5.5	5.6	5.4	7.8 7.8	7.8		9.1 9.3	9.2	
				16.6	Middle	8.3	26.5 27.5	27.0	7.5 7.5	7.5	21.4 21.3	21.3	74.8 73.0	73.9	5.2 5.2	5.2	5.4	6.9 6.8	6.9	7.7	11.8 14.0	12.9	12.0
					Bottom	15.6	26.1 26.2	26.2	7.4 7.4	7.4	26.3 26.4	26.4	71.6 71.4	71.5	4.9 4.9	4.9	4.9	8.3 8.3	8.3		13.2 14.8	14.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	ŕ	рН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:22		Surface	1.1	29.9 29.9	29.9	8.2 8.2	8.2	18.1 18.1	18.1	85.7 86.6	86.2	5.9 5.9	5.9	5.8	3.3 3.3	3.3		3.0 4.6	3.8	
				12.4	Middle	6.2	29.7 29.7	29.7	8.2 8.2	8.2	18.6 18.5	18.5	85.9 85.2	85.6	5.6 5.7	5.6	5.8	3.5 3.7	3.6	3.5	4.0 3.2	3.6	4.0
					Bottom	11.4	27.3 27.8	27.5	8.1 8.1	8.1	32.6 32.6	32.6	76.2 75.3	75.8	5.2 5.2	5.2	5.2	3.5 3.5	3.5		4.5 4.5	4.5	
4-Aug-17	Fine	Moderate	10:58		Surface	1.1	29.0 29.0	29.0	8.2 8.2	8.2	20.4 20.6	20.5	78.4 78.8	78.6	5.4 5.4	5.4		5.2 5.4	5.3		3.6 2.7	3.2	
				12.0	Middle	6.0	28.5 28.5	28.5	8.1 8.1	8.1	25.2 25.3	25.3	75.0 73.7	74.4	5.3 5.2	5.3	5.4	6.5 6.5	6.5	6.0	3.7 4.9	4.3	4.4
					Bottom	11.0	27.0 27.6	27.3	8.1 8.1	8.1	31.0 30.7	30.8	70.5 72.1	71.3	4.9 5.0	5.0	5.0	6.3 6.3	6.3		6.0 5.5	5.8	
7-Aug-17	Sunny	Moderate	13:00		Surface	1.0	29.5 29.5	29.5	8.2 8.2	8.2	19.7 20.0	19.8	78.6 79.3	79.0	5.5 5.5	5.5	5.2	5.9 5.8	5.9		6.7 5.6	6.2	
				11.8	Middle	5.9	29.0 28.3	28.7	8.1 8.1	8.1	23.6 25.2	24.4	74.9 74.7	74.8	5.1 5.1	5.1	5.3	5.6 5.6	5.6	5.7	5.6 5.7	5.7	5.6
					Bottom	10.8	27.3 27.2	27.2	8.1 8.1	8.1	29.3 29.6	29.4	73.8 72.1	73.0	5.1 5.0	5.0	5.0	5.6 5.6	5.6		5.2 5.0	5.1	
9-Aug-17	Cloudy	Moderate	13:47		Surface	1.1	29.1 29.2	29.1	8.2 8.1	8.2	21.9 22.0	22.0	74.9 75.6	75.3	5.1 5.1	5.1	5.1	5.5 5.5	5.5		7.3 7.0	7.2	
				11.7	Middle	5.9	28.9 28.9	28.9	8.1 8.2	8.2	22.7 22.8	22.8	75.0 74.8	74.9	5.1 5.1	5.1	5.1	5.7 5.6	5.7	5.6	6.6 7.8	7.2	6.9
					Bottom	10.7	26.7 26.7	26.7	8.1 8.1	8.1	30.3 30.7	30.5	74.2 74.0	74.1	5.1 5.0	5.0	5.0	5.7 5.7	5.7		6.4 6.5	6.5	
11-Aug-17	Cloudy	Moderate	15:21		Surface	1.1	29.5 29.5	29.5	8.1 8.1	8.1	21.3 21.2	21.2	76.3 77.4	76.9	5.3 5.3	5.3	5.3	6.1 6.2	6.2		5.0 5.7	5.4	
				12.4	Middle	6.2	27.7 27.6	27.7	8.0 8.0	8.0	24.1 24.3	24.2	76.1 75.0	75.6	5.2 5.2	5.2	0.0	6.1 6.5	6.3	6.3	5.8 6.9	6.4	5.6
					Bottom	11.4	27.5 27.5	27.5	8.0 8.0	8.0	27.9 28.0	28.0	71.8 70.9	71.4	5.0 5.0	5.0	5.0	6.5 6.5	6.5		5.3 5.0	5.2	
14-Aug-17	Sunny	Moderate	17:17		Surface	1.2	30.0 30.0	30.0	8.2 8.2	8.2	18.6 19.0	18.8	81.8 81.9	81.9	5.6 5.5	5.5	5.4	2.5 2.4	2.5		5.1 5.6	5.4	
				11.9	Middle	5.9	28.1 27.9	28.0	8.1 8.1	8.1	25.8 26.2	26.0	76.2 81.5	78.9	5.1 5.5	5.3	0.4	2.8 2.9	2.9	2.8	4.1 5.5	4.8	5.6
					Bottom	10.9	27.1 26.7	26.9	8.1 8.1	8.1	31.0 31.1	31.0	70.5 71.9	71.2	4.8 4.9	4.8	4.8	3.1 3.0	3.1		6.4 7.0	6.7	
16-Aug-17	Cloudy	Moderate	7:29		Surface	1.0	29.2 29.0	29.1	8.1 8.1	8.1	19.6 19.8	19.7	81.6 81.1	81.4	5.6 5.5	5.6	5.5	2.0 2.1	2.1		3.0 4.3	3.7	
				13.5	Middle	6.8	28.5 28.6	28.6	8.1 8.1	8.1	23.7 23.5	23.6	80.4 79.6	80.0	5.5 5.4	5.5		2.6 2.5	2.6	2.4	4.8 4.3	4.6	4.0
					Bottom	12.5	28.4 28.7	28.5	8.1 8.1	8.1	24.7 24.4	24.5	79.3 80.8	80.1	5.4 5.5	5.4	5.4	2.5 2.4	2.5		4.2 3.1	3.7	
18-Aug-17	Sunny	Moderate	9:57		Surface	1.0	29.2 29.3	29.2	8.2 8.2	8.2	19.8 18.8	19.3	86.8 89.4	88.1	6.0 6.2	6.1	5.8	3.1 3.3	3.2		2.5 3.2	2.9	
				12.2	Middle	6.1	27.4 27.6	27.5	8.2 8.2	8.2	25.9 25.8	25.9	76.9 85.0	81.0	5.2 5.8	5.5		3.4 3.5	3.5	3.4	3.2 3.8	3.5	3.6
					Bottom	11.2	26.5 25.5	26.0	8.1 8.1	8.1	31.5 33.4	32.5	74.4 76.7	75.6	5.1 5.2	5.2	5.2	3.5 3.5	3.5		5.2 3.8	4.5	
21-Aug-17	Sunny	Moderate	12:11		Surface	1.1	29.4 29.4	29.4	8.4 8.4	8.4	21.6 21.5	21.5	106.4 104.3	105.4	7.2 7.1	7.2	6.6	3.4 3.3	3.4		6.7 6.4	6.6	
				12.1	Middle	6.0	27.7 28.2	27.9	8.3 8.4	8.3	26.1 25.8	26.0	88.0 88.9	88.5	6.0 6.0	6.0		3.3 3.4	3.4	3.4	5.5 6.6	6.1	6.2
					Bottom	11.1	26.6 25.7	26.1	8.3 8.3	8.3	30.6 34.8	32.7	85.5 85.9	85.7	5.8 5.8	5.8	5.8	3.4 3.5	3.5		5.5 6.4	6.0	

## Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-	-	-	-	<u>-</u>	-	-	<u>-</u>
					Bottom	-	-	-		-		-		-		-		-	-		-	-	
25-Aug-17	Sunny	Moderate	15:31		Surface	1.1	27.8 27.7	27.8	8.1 8.1	8.1	25.3 25.6	25.4	75.8 79.4	77.6	5.2 5.4	5.3	5.2	12.1 12.5	12.3		6.3 5.1	5.7	
				12.0	Middle	6.0	26.9 27.0	26.9	8.1 8.1	8.1	28.5 28.5	28.5	75.1 73.5	74.3	5.1 5.0	5.1	5.2	13.5 13.8	13.7	13.1	6.8 7.1	7.0	6.6
					Bottom	11.0	26.9 26.6	26.7	8.1 8.1	8.1	29.3 29.9	29.6	73.0 71.6	72.3	5.0 4.9	4.9	4.9	13.8 13.1	13.5		7.4 6.7	7.1	
28-Aug-17	Rainy	Moderate	17:24		Surface	1.0	27.0 26.9	27.0	8.1 8.1	8.1	23.4 23.3	23.4	81.5 82.3	81.9	5.7 5.8	5.7	5.7	4.9 4.8	4.9		7.7 8.4	8.1	
				11.9	Middle	6.0	26.7 26.8	26.7	8.1 8.1	8.1	25.5 25.9	25.7	80.8 81.8	81.3	5.6 5.7	5.6	5.7	4.8 4.8	4.8	4.8	7.9 7.7	7.8	7.8
					Bottom	10.9	26.4 26.5	26.4	8.1 8.0	8.0	28.5 28.4	28.5	79.9 80.0	80.0	5.5 5.5	5.5	5.5	4.8 4.9	4.9		7.4 7.9	7.7	
30-Aug-17	Fine	Moderate	6:28		Surface	1.1	28.0 27.9	27.9	8.1 8.1	8.1	17.1 16.8	16.9	81.2 79.6	80.4	5.8 5.7	5.7	5.6	2.9 2.7	2.8		5.6 6.0	5.8	
				12.5	Middle	6.2	27.3 26.3	26.8	8.1 8.1	8.1	23.7 25.5	24.6	80.6 77.9	79.3	5.5 5.3	5.4	5.0	2.8 2.7	2.8	2.8	5.3 6.0	5.7	5.6
					Bottom	11.5	25.8 26.0	25.9	8.1 8.0	8.0	31.7 31.4	31.6	79.8 77.3	78.6	5.5 5.4	5.4	5.4	2.8 2.9	2.9		5.4 5.5	5.5	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:46		Surface	1.1	29.9 29.8	29.8	8.3 8.3	8.3	18.3 18.4	18.3	91.4 87.8	89.6	6.0 6.0	6.0	<u> </u>	5.4 5.4	5.4		6.0 5.5	5.8	
				12.8	Middle	6.4	29.5 29.7	29.6	8.2 8.3	8.2	20.8 21.1	20.9	86.9 85.2	86.1	6.0 5.9	5.9	6.0	5.9 5.9	5.9	5.7	6.1 5.4	5.8	5.7
					Bottom	11.8	27.6 27.9	27.7	8.2 8.1	8.1	31.8 26.6	29.2	76.5 80.9	78.7	5.2 5.5	5.3	5.3	5.9 5.8	5.9		5.7	5.5	
4-Aug-17	Fine	Moderate	18:26		Surface	1.1	28.9 29.0	28.9	8.2 8.2	8.2	20.9 21.0	20.9	76.3 74.7	75.5	5.3 5.2	5.3		8.1 8.3	8.2		5.4 4.5	5.0	
				12.8	Middle	6.4	28.4 28.1	28.2	8.2 8.2	8.2	24.7 24.0	24.3	72.9	72.8	5.2 5.2	5.2	5.2	8.5 8.4	8.5	8.4	5.7 4.4	5.1	5.4
					Bottom	11.8	27.5	27.8	8.1 8.1	8.1	29.1 28.5	28.8	69.5 69.6	69.6	4.9	4.9	4.9	8.5 8.5	8.5		6.8 5.8	6.3	
7-Aug-17	Sunny	Moderate	5:42		Surface	1.1	29.2 29.3	29.3	8.1 8.1	8.1	22.4 22.0	22.2	76.0 74.0	75.0	5.2 5.1	5.2		3.5 3.3	3.4		3.8 3.8	3.8	
				12.6	Middle	6.3	27.1 27.1	27.1	8.1 8.1	8.1	29.7 29.8	29.7	72.9	73.1	5.0 5.1	5.0	5.1	4.4	4.4	4.1	6.4 6.7	6.6	5.8
					Bottom	11.6	26.2 26.2	26.2	8.1 8.1	8.1	33.2 32.9	33.0	72.0	71.9	4.9	4.9	4.9	4.5 4.7	4.6		6.5 7.3	6.9	
9-Aug-17	Cloudy	Moderate	7:00		Surface	1.1	28.8 28.8	28.8	8.1 8.1	8.1	22.9 23.0	23.0	77.2	76.1	5.2 5.1	5.2		3.7 3.8	3.8		3.2 2.5	2.9	
				12.7	Middle	6.4	26.8 26.7	26.7	8.0 8.0	8.0	30.0 30.0	30.0	74.4	75.5	5.0 5.2	5.1	5.1	4.0	3.9	3.9	3.6 3.5	3.6	3.0
					Bottom	11.7	26.0 26.1	26.1	8.0 8.0	8.0	33.1 32.8	32.9	72.4 73.4	72.9	4.9 5.0	4.9	4.9	4.0 3.8	3.9		2.8 2.6	2.7	
11-Aug-17	Cloudy	Moderate	8:15		Surface	1.1	28.7 28.8	28.7	8.0 8.0	8.0	21.5 21.3	21.4	72.9 78.0	75.5	5.1 5.5	5.3	5.2	4.5 4.5	4.5		4.2 5.1	4.7	
				12.5	Middle	6.3	26.6 26.8	26.7	7.9 8.0	7.9	30.1 29.4	29.7	72.7 73.4	73.1	5.1 5.2	5.1	5.2	5.5 5.5	5.5	5.1	5.5 6.3	5.9	5.7
					Bottom	11.5	26.3 26.5	26.4	7.9 7.9	7.9	31.7 31.1	31.4	68.4 69.8	69.1	4.9 4.9	4.9	4.9	5.5 5.2	5.4		6.1 6.9	6.5	
14-Aug-17	Sunny	Moderate	11:20		Surface	1.1	29.2 29.2	29.2	8.1 8.1	8.1	21.2 21.2	21.2	74.6 74.9	74.8	5.1 5.1	5.1	5.1	2.8 2.8	2.8		2.9 3.3	3.1	
				12.4	Middle	6.2	28.1 28.1	28.1	8.0 8.0	8.0	26.8 26.7	26.7	74.5 74.2	74.4	5.1 5.0	5.0	5.1	2.8 2.9	2.9	2.8	4.2 5.7	5.0	4.4
					Bottom	11.4	26.4 26.7	26.6	8.0 8.0	8.0	34.7 34.5	34.6	73.8 73.6	73.7	4.9 4.9	4.9	4.9	2.8 2.8	2.8		5.1 5.4	5.3	
16-Aug-17	Cloudy	Moderate	14:48		Surface	1.0	29.9 29.9	29.9	8.3 8.3	8.3	18.0 18.1	18.1	90.4 89.8	90.1	6.2 6.0	6.1	5.8	1.5 1.5	1.5		2.0 2.9	2.5	
				13.6	Middle	6.8	26.2 26.2	26.2	8.2 8.2	8.2	30.6 31.9	31.3	80.9 81.5	81.2	5.5 5.6	5.5	5.0	2.9 2.8	2.9	2.4	2.4 2.9	2.7	2.6
					Bottom	12.6	26.2 26.0	26.1	8.2 8.2	8.2	33.3 33.3	33.3	77.9 78.4	78.2	5.2 5.3	5.3	5.3	2.9 2.7	2.8		3.0 2.2	2.6	
18-Aug-17	Sunny	Moderate	17:20		Surface	1.1	29.6 29.5	29.5	8.4 8.4	8.4	19.9 19.9	19.9	111.3 113.3	112.3	7.6 7.7	7.7	6.8	5.5 5.8	5.7		5.2 6.3	5.8	
				12.5	Middle	6.2	28.7 28.3	28.5	8.3 8.3	8.3	22.1 24.2	23.1	90.1 86.7	88.4	6.1 5.9	6.0	0.0	6.2 6.6	6.4	6.9	6.9 6.9	6.9	7.3
					Bottom	11.5	27.0 27.0	27.0	8.2 8.2	8.2	28.4 28.4	28.4	89.1 83.8	86.5	6.1 5.7	5.9	5.9	8.5 8.5	8.5		8.7 9.6	9.2	
21-Aug-17	Sunny	Moderate	5:32		Surface	1.1	29.0 28.9	29.0	8.3 8.3	8.3	22.2 22.4	22.3	89.8 85.9	87.9	6.1 5.8	6.0	5.7	2.4 2.5	2.5		3.3 4.5	3.9	
				13.0	Middle	6.5	26.1 26.1	26.1	8.2 8.2	8.2	31.9 32.7	32.3	82.3 77.2	79.8	5.5 5.2	5.3	0	2.6 2.4	2.5	2.5	4.0 4.5	4.3	4.5
					Bottom	12.0	25.6 25.6	25.6	8.2 8.2	8.2	35.6 35.2	35.4	77.6 73.0	75.3	5.3 4.9	5.1	5.1	2.7 2.6	2.7		5.4 5.2	5.3	

## Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	n (mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	<u>-</u>	-	-	=
					Bottom	I	-	-		-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:13		Surface	1.1	27.5 27.4	27.5	8.1 8.1	8.1	27.1 27.2	27.1	75.5 79.7	77.6	5.1 5.4	5.3	5.2	7.9 8.2	8.1		5.9 6.9	6.4	
				12.6	Middle	6.3	26.6 26.8	26.7	8.1 8.1	8.1	29.1 28.9	29.0	74.1 77.3	75.7	5.0 5.3	5.1	5.2	11.7 11.6	11.7	10.4	6.9 6.2	6.6	6.9
					Bottom	11.6	26.4 26.6	26.5	8.1 8.0	8.1	31.8 31.7	31.8	77.2 74.0	75.6	5.3 5.0	5.1	5.1	11.5 11.5	11.5		7.0 8.5	7.8	
28-Aug-17	Rainy	Moderate	10:31		Surface	1.2	26.7 26.7	26.7	8.1 8.1	8.1	25.4 25.1	25.2	84.0 81.7	82.9	5.8 5.7	5.7	5.7	5.4 5.5	5.5		5.5 7.2	6.4	
				12.6	Middle	6.3	26.6 26.5	26.5	8.1 8.1	8.1	26.7 26.8	26.8	81.2 82.2	81.7	5.6 5.7	5.7	5.7	5.4 5.5	5.5	5.5	5.5 6.8	6.2	6.8
					Bottom	11.6	26.4 26.5	26.5	8.1 8.1	8.1	28.6 28.6	28.6	81.4 80.2	80.8	5.6 5.6	5.6	5.6	5.5 5.7	5.6		7.3 8.2	7.8	
30-Aug-17	Fine	Moderate	15:05		Surface	1.1	28.9 28.7	28.8	8.1 8.1	8.1	18.3 18.7	18.5	82.1 80.1	81.1	5.7 5.6	5.7	5.4	2.5 2.7	2.6		3.6 3.9	3.8	
				12.7	Middle	6.4	26.7 26.6	26.6	8.1 8.1	8.1	28.6 29.8	29.2	78.4 77.4	77.9	5.2 5.2	5.2	5.4	3.5 3.6	3.6	3.3	4.1 4.2	4.2	4.3
					Bottom	11.7	25.9 25.8	25.9	8.0 8.1	8.1	34.5 34.5	34.5	76.1 75.4	75.8	5.2 5.1	5.2	5.2	3.6 3.6	3.6		4.3 5.6	5.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	ЪН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Susp	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	8:41		Surface	1.0	29.5 29.5	29.5	7.8 7.8	7.8	18.6 18.6	18.6	84.7 83.4	84.1	5.8 5.7	5.8	5.7	2.9 3.1	3.0		5.1 5.5	5.3	
				10.2	Middle	5.1	29.2 29.1	29.1	7.8 7.8	7.8	20.7 20.8	20.8	82.0 79.5	80.8	5.6 5.4	5.5	5.7	3.0 3.1	3.1	3.1	4.3 4.3	4.3	5.7
					Bottom	9.2	29.1 29.3	29.2	7.8 7.8	7.8	21.1 20.8	20.9	82.0 86.0	84.0	5.6 5.9	5.7	5.7	3.2 3.3	3.3		7.7 7.5	7.6	
4-Aug-17	Fine	Moderate	10:03		Surface	1.0	28.3 28.7	28.5	7.9 7.9	7.9	21.4 20.7	21.0	76.5 80.6	78.6	5.2 5.6	5.4		3.1 3.1	3.1		3.3 2.2	2.8	
				10.1	Middle	5.0	28.0 28.0	28.0	7.9 7.8	7.9	25.2 24.8	25.0	75.4 74.1	74.8	5.2 5.1	5.1	5.2	3.0	2.9	2.8	4.3	3.8	3.3
					Bottom	9.1	27.8 28.0	27.9	7.8	7.9	26.1 25.4	25.8	73.9 74.7	74.3	5.0 5.1	5.1	5.1	2.4	2.5		3.3 3.6	3.5	
7-Aug-17	Sunny	Moderate	13:24		Surface	1.0	28.8 29.0	28.9	8.0 8.0	8.0	22.6 22.4	22.5	73.8 72.4	73.1	5.2 5.1	5.2		2.6 2.9	2.8		6.3 6.6	6.5	
				10.0	Middle	5.0	28.4 28.5	28.4	8.0 8.0	8.0	24.8 24.5	24.6	72.5	73.3	5.1 5.2	5.2	5.2	2.8 3.0	2.9	3.0	6.5 5.4	6.0	7.2
					Bottom	9.0	28.6 28.4	28.5	8.0 8.1	8.0	24.8 25.0	24.9	73.2 74.6	73.9	5.2 5.2	5.2	5.2	3.1 3.3	3.2		9.8 8.5	9.2	
9-Aug-17	Cloudy	Moderate	14:45		Surface	1.1	28.6 28.6	28.6	7.9 7.9	7.9	23.8 23.9	23.8	82.2 81.2	81.7	5.6 5.5	5.6		8.9 9.1	9.0		7.5 7.4	7.5	
				10.1	Middle	5.1	28.5 28.6	28.6	7.9 7.9	7.9	24.3 24.0	24.1	80.2 80.5	80.4	5.4 5.5	5.4	5.5	9.4 9.2	9.3	9.3	7.4 6.8	7.1	7.2
					Bottom	9.1	28.5 28.5	28.5	7.9 8.0	7.9	24.9 24.3	24.6	77.6 77.2	77.4	5.3 5.2	5.3	5.3	9.6 9.5	9.6		7.2 6.6	6.9	
11-Aug-17	Cloudy	Moderate	15:41		Surface	1.1	29.3 29.9	29.6	7.9 8.0	8.0	20.6 19.9	20.3	77.0 77.6	77.3	5.5 5.6	5.5	5.5	4.9 5.0	5.0		3.5 2.8	3.2	
				10.3	Middle	5.1	27.6 27.4	27.5	7.9 7.9	7.9	26.7 27.2	27.0	76.9 76.4	76.7	5.5 5.5	5.5	5.5	5.6 5.8	5.7	5.4	2.5 2.6	2.6	2.8
					Bottom	9.3	27.5 27.4	27.4	7.9 7.9	7.9	27.3 27.7	27.5	77.1 76.6	76.9	5.5 5.5	5.5	5.5	5.6 5.5	5.6		3.1 2.1	2.6	
14-Aug-17	Sunny	Moderate	17:54		Surface	1.1	29.9 30.1	30.0	7.7 7.8	7.8	18.9 16.9	17.9	91.6 91.3	91.5	6.3 6.2	6.3	6.2	2.8 2.9	2.9		4.1 3.1	3.6	
				10.1	Middle	5.1	29.7 29.8	29.7	7.7 7.8	7.8	19.7 19.6	19.6	91.3 89.7	90.5	6.2 6.1	6.2	0.2	3.1 3.2	3.2	3.2	5.2 4.6	4.9	4.6
					Bottom	9.1	29.7 29.5	29.6	7.7 7.8	7.8	21.0 20.3	20.6	89.5 88.6	89.1	6.1 6.0	6.1	6.1	3.4 3.5	3.5		5.7 5.0	5.4	
16-Aug-17	Cloudy	Moderate	6:31		Surface	1.0	29.7 29.6	29.6	7.7 7.7	7.7	15.5 16.8	16.1	85.7 84.7	85.2	6.0 5.9	5.9	5.8	2.2 2.3	2.3		5.4 4.8	5.1	
				10.0	Middle	5.0	28.9 29.0	28.9	7.7 7.7	7.7	19.9 19.6	19.7	83.0 83.6	83.3	5.7 5.7	5.7	0.0	2.2 2.2	2.2	2.2	6.1 7.4	6.8	6.1
					Bottom	9.0	28.5 28.7	28.6	7.6 7.6	7.6	23.5 22.3	22.9	80.5 81.9	81.2	5.6 5.7	5.6	5.6	2.2 2.2	2.2		6.4 6.4	6.4	
18-Aug-17	Sunny	Moderate	8:47		Surface	1.1	29.4 29.3	29.4	7.9 7.8	7.8	18.6 18.8	18.7	95.5 95.7	95.6	6.6 6.6	6.6	6.4	2.1 2.2	2.2		4.9 4.0	4.5	
				10.2	Middle	5.1	28.8 28.9	28.9	7.7 7.9	7.8	20.7 20.3	20.5	91.0 90.9	91.0	6.3 6.3	6.3		2.4 2.5	2.5	2.4	3.5 3.3	3.4	4.1
					Bottom	9.2	27.6 27.8	27.7	7.8 7.8	7.8	26.3 25.7	26.0	89.5 89.5	89.5	6.1 6.1	6.1	6.1	2.5 2.5	2.5		5.2 3.9	4.6	
21-Aug-17	Sunny	Moderate	13:12		Surface	1.0	29.0 29.3	29.1	8.0 8.0	8.0	20.4 20.1	20.3	97.3 98.5	97.9	6.7 6.8	6.7	6.5	3.8 3.6	3.7		5.0 3.8	4.4	
				10.1	Middle	5.0	27.7 28.0	27.8	7.9 7.9	7.9	25.2 24.3	24.7	93.9 91.1	92.5	6.4 6.2	6.3	0.0	5.7 5.3	5.5	4.9	4.7 3.6	4.2	4.4
					Bottom	9.1	27.7 27.9	27.8	7.9 7.9	7.9	25.3 24.5	24.9	86.3 86.9	86.6	5.9 5.9	5.9	5.9	5.4 5.5	5.5		4.2 4.9	4.6	

## Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-	-	-	-	<u>-</u>	-	-	=
					Bottom	I	-	-		-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	15:49		Surface	1.1	27.8 27.8	27.8	7.6 7.6	7.6	24.1 24.0	24.0	76.3 77.0	76.7	5.3 5.3	5.3	5.2	8.1 8.0	8.1		7.8 6.7	7.3	
				10.2	Middle	5.1	27.0 26.9	27.0	7.6 7.6	7.6	27.3 27.2	27.3	75.4 75.3	75.4	5.2 5.1	5.1	5.2	8.9 8.8	8.9	8.8	7.8 6.6	7.2	7.6
					Bottom	9.2	26.5 26.5	26.5	7.7 7.7	7.7	29.5 29.4	29.5	76.5 77.2	76.9	5.2 5.3	5.2	5.2	9.5 9.7	9.6		7.9 8.7	8.3	
28-Aug-17	Rainy	Moderate	17:35		Surface	1.0	27.0 27.0	27.0	7.5 7.5	7.5	22.5 22.6	22.6	83.4 82.7	83.1	5.9 5.8	5.8	5.8	4.4 4.5	4.5		7.2 6.8	7.0	
				10.2	Middle	5.1	26.7 26.7	26.7	7.5 7.5	7.5	26.7 26.6	26.6	81.8 82.6	82.2	5.6 5.7	5.7	5.0	4.7 4.6	4.7	5.1	5.9 4.8	5.4	5.9
					Bottom	9.2	26.6 26.6	26.6	7.5 7.5	7.5	28.1 28.0	28.1	80.3 81.3	80.8	5.5 5.6	5.5	5.5	6.7 5.8	6.3		5.5 4.9	5.2	
30-Aug-17	Fine	Moderate	6:02		Surface	1.0	27.7 27.7	27.7	7.6 7.5	7.6	18.9 18.9	18.9	79.1 79.9	79.5	5.6 5.7	5.6	5.5	3.6 3.6	3.6		5.0 7.0	6.0	
				10.2	Middle	5.1	27.0 26.9	27.0	7.5 7.5	7.5	25.2 25.1	25.2	77.5 78.0	77.8	5.4 5.4	5.4	5.5	3.4 3.4	3.4	3.4	6.3 6.6	6.5	5.9
					Bottom	9.2	26.0 26.0	26.0	7.5 7.5	7.5	32.4 32.3	32.4	78.4 77.5	78.0	5.3 5.2	5.3	5.3	3.1 3.2	3.2		5.4 5.2	5.3	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Г	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	17:08		Surface	1.0	29.3 29.4	29.4	7.9 7.9	7.9	19.5 19.0	19.2	88.9 90.8	89.9	6.3 6.4	6.4		4.3 4.3	4.3		4.1 4.5	4.3	
				10.0	Middle	5.0	28.9 29.1	29.0	7.9 7.9	7.9	20.7 20.5	20.6	88.1 88.1	88.1	6.3 6.3	6.3	6.3	3.0 3.3	3.2	3.9	4.9 5.7	5.3	4.9
					Bottom	9.0	28.3 29.0	28.7	7.9	7.9	25.5 21.8	23.6	82.6 82.0	82.3	5.8 5.8	5.8	5.8	4.1	4.3		5.0 5.0	5.0	1
4-Aug-17	Fine	Moderate	18:51		Surface	1.0	28.4 28.9	28.6	7.9	8.0	22.1 21.6	21.8	83.5 86.3	84.9	5.7 6.0	5.9		3.7 3.6	3.7		4.4 3.9	4.2	
				10.4	Middle	5.2	28.0 27.7	27.8	7.9 7.9 7.9	7.9	25.8 26.5	26.1	79.1 79.3	79.2	5.5 5.5	5.5	5.7	4.4	4.5	4.2	3.2 3.8	3.5	3.7
					Bottom	9.4	27.2	27.4	7.9	7.9	29.7 28.5	29.1	72.8	73.1	5.1 5.2	5.1	5.1	4.7	4.6		3.9 3.2	3.6	
7-Aug-17	Sunny	Moderate	5:17		Surface	1.1	28.9	28.9	7.8	7.8	22.0 22.7	22.4	73.7 73.2	73.5	5.2 5.2	5.2		3.2 3.4	3.3		5.0 4.8	4.9	
				9.8	Middle	4.9	27.4 27.3	27.4	7.8	7.8	28.2 28.8	28.5	73.9 73.9	73.9	5.2 5.2	5.2	5.2	3.4 3.4	3.4	3.4	5.7	5.1	5.5
					Bottom	8.8	27.1 27.3	27.2	7.8 7.8	7.8	28.9 29.2	29.1	73.7 73.8	73.8	5.2 5.2	5.2	5.2	3.5 3.3	3.4		6.2 7.0	6.6	
9-Aug-17	Cloudy	Moderate	6:34		Surface	1.1	28.8 28.4	28.6	7.8 7.8	7.8	22.5 24.2	23.3	79.9 78.2	79.1	5.4 5.4	5.4	5.4	3.1 3.2	3.2		4.5 3.8	4.2	
				10.3	Middle	5.1	27.9 28.0	27.9	7.8 7.8	7.8	25.1 25.5	25.3	77.1 77.3	77.2	5.3 5.3	5.3	5.4	3.3 3.4	3.4	3.4	4.8 5.4	5.1	4.6
					Bottom	9.3	27.4 27.7	27.5	7.8 7.8	7.8	28.8 27.5	28.2	76.8 76.9	76.9	5.3 5.3	5.3	5.3	3.5 3.6	3.6		4.7 4.6	4.7	
11-Aug-17	Cloudy	Moderate	7:45		Surface	1.0	28.4 28.6	28.5	7.8 7.8	7.8	23.4 21.7	22.6	75.3 75.2	75.3	5.4 5.4	5.4	5.4	3.8 3.8	3.8		3.5 4.3	3.9	
				10.0	Middle	5.0	27.9 27.6	27.7	7.8 7.8	7.8	26.1 26.5	26.3	75.0 74.8	74.9	5.4 5.3	5.4	0.4	3.8 3.6	3.7	3.7	4.3 4.8	4.6	4.6
					Bottom	9.0	27.8 27.5	27.6	7.8 7.8	7.8	26.3 27.2	26.7	75.3 74.9	75.1	5.4 5.4	5.4	5.4	3.7 3.7	3.7		5.5 5.3	5.4	
14-Aug-17	Sunny	Moderate	10:43		Surface	1.0	29.0 28.9	29.0	7.7 7.7	7.7	20.0 21.0	20.5	77.3 77.6	77.5	5.3 5.3	5.3	5.2	2.7 2.8	2.8		4.0 3.8	3.9	
				10.2	Middle	5.1	28.7 28.6	28.7	7.7 7.7	7.7	22.3 22.4	22.4	75.3 75.5	75.4	5.1 5.2	5.2	0.2	2.9 2.9	2.9	2.9	4.2 5.1	4.7	4.1
					Bottom	9.2	28.5 28.7	28.6	7.7 7.7	7.7	23.5 23.0	23.2	74.5 74.2	74.4	5.1 5.1	5.1	5.1	3.1 3.2	3.2		3.5 4.0	3.8	
16-Aug-17	Cloudy	Moderate	14:49		Surface	1.1	30.1 29.7	29.9	7.7 7.7	7.7	18.2 19.3	18.7	87.1 90.0	88.6	6.0 6.2	6.1	5.6	1.8 1.7	1.8		2.7 3.1	2.9	
				9.8	Middle	4.9	27.5 27.1	27.3	7.7 7.6	7.6	28.0 28.3	28.2	76.9 76.7	76.8	5.2 5.2	5.2		2.8 2.8	2.8	3.4	2.5 2.2	2.4	2.6
					Bottom	8.8	25.8 25.8	25.8	7.5 7.6	7.6	32.9 32.8	32.8	71.7 72.8	72.3	4.9 4.9	4.9	4.9	5.7 5.4	5.6		2.7 2.2	2.5	
18-Aug-17	Sunny	Moderate	18:29		Surface	1.1	29.5 29.2	29.4	8.0 8.0	8.0	20.1 20.3	20.2	105.6 105.7	105.7	7.2 7.2	7.2	7.1	2.3 2.4	2.4		4.0	4.2	_
				10.3	Middle	5.2	28.4 28.1	28.2	7.9 7.9	7.9	23.0 24.1	23.5	102.3 101.2	101.8	7.0 6.9	6.9		2.7 2.6	2.7	2.6	4.2 4.6	4.4	4.8
					Bottom	9.3	27.7 27.2	27.5	7.9 7.9	7.9	26.2 27.6	26.9	96.8 96.9	96.9	6.6 6.6	6.6	6.6	2.9 2.8	2.9		5.4 5.9	5.7	
21-Aug-17	Sunny	Moderate	5:09		Surface	1.0	28.0 27.9	27.9	7.9 7.9	7.9	26.1 25.1	25.6	88.5 87.8	88.2	6.0 6.0	6.0	5.9	3.7 3.7	3.7		5.6 6.8	6.2	1
				9.8	Middle	4.9	26.9 26.9	26.9	7.9 7.9	7.9	28.1 28.0	28.1	86.0 87.0	86.5	5.9 5.9	5.9		3.8 3.7	3.8	3.7	7.1 6.9	7.0	6.8
					Bottom	8.8	26.5 26.8	26.6	7.9 7.9	7.9	29.1 28.7	28.9	85.9 85.9	85.9	5.9 5.9	5.9	5.9	3.7 3.4	3.6		7.2 6.9	7.1	

## Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-	-	-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:02		Surface	1.1	27.4 27.4	27.4	7.5 7.5	7.5	25.6 25.6	25.6	75.4 76.2	75.8	5.2 5.2	5.2	5.2	9.0 8.6	8.8		10.9 10.0	10.5	
				10.4	Middle	5.2	27.3 27.3	27.3	7.5 7.5	7.5	25.7 25.8	25.8	75.9 75.1	75.5	5.2 5.2	5.2	5.2	9.1 9.4	9.3	9.3	9.9 11.0	10.5	10.3
					Bottom	9.4	27.0 27.0	27.0	7.5 7.5	7.5	27.9 27.9	27.9	74.2 75.1	74.7	5.1 5.1	5.1	5.1	10.0 9.9	10.0		11.1 9.1	10.1	
28-Aug-17	Rainy	Moderate	10:20		Surface	1.1	26.9 26.9	26.9	7.5 7.4	7.5	25.5 25.5	25.5	81.2 82.1	81.7	5.6 5.7	5.7	5.6	5.5 5.7	5.6		8.4 7.6	8.0	
				10.4	Middle	5.2	26.8 26.8	26.8	7.5 7.4	7.4	26.5 26.4	26.4	80.6 81.0	80.8	5.6 5.6	5.6	5.0	6.5 6.8	6.7	6.5	7.2 7.7	7.5	7.9
					Bottom	9.4	26.5 26.4	26.4	7.4 7.3	7.4	28.4 28.5	28.5	82.3 83.5	82.9	5.6 5.7	5.7	5.7	7.1 7.4	7.3		7.7 8.8	8.3	
30-Aug-17	Fine	Moderate	16:08		Surface	1.0	28.7 28.7	28.7	7.7 7.6	7.6	18.5 18.6	18.6	85.4 85.0	85.2	6.0 5.9	5.9	5.6	3.2 3.0	3.1		7.4 6.4	6.9	
				10.2	Middle	5.1	27.3 27.3	27.3	7.6 7.6	7.6	24.9 25.0	24.9	76.5 76.2	76.4	5.2 5.3	5.2	5.0	2.8 2.7	2.8	2.8	5.8 6.3	6.1	5.9
					Bottom	9.2	26.4 26.4	26.4	7.5 7.5	7.5	29.1 29.0	29.0	74.0 75.2	74.6	5.1 5.1	5.1	5.1	2.6 2.6	2.6		4.7 4.8	4.8	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ĥ	ЪН	Salin	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	U)	Susp	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	8:28		Surface	1.0	29.5 29.5	29.5	7.8 7.8	7.8	18.8 18.8	18.8	80.3 82.5	81.4	5.5 5.7	5.6	5.3	3.1 3.1	3.1		4.4 3.1	3.8	
				34.8	Middle	17.4	28.8 28.8	28.8	7.8 7.8	7.8	22.4 22.4	22.4	74.5 74.1	74.3	5.1 5.1	5.1	5.5	3.0 3.2	3.1	3.1	3.7 3.6	3.7	4.3
					Bottom	33.8	28.9 28.8	28.8	7.8 7.8	7.8	22.5 22.9	22.7	77.8 77.6	77.7	5.3 5.3	5.3	5.3	3.2 3.2	3.2		5.5 5.6	5.6	
4-Aug-17	Fine	Moderate	9:49		Surface	1.0	28.4 28.6	28.5	7.8 7.8	7.8	20.7 20.5	20.6	80.1 79.9	80.0	5.4 5.5	5.5		2.7 3.0	2.9		4.1 4.1	4.1	
				35.3	Middle	17.7	27.8 27.8	27.8	7.8 7.8	7.8	26.2 26.2	26.2	75.7 77.3	76.5	5.3 5.3	5.3	5.4	2.6 2.7	2.7	2.7	3.4 3.5	3.5	3.9
					Bottom	34.3	28.1 27.8	27.9	7.7	7.8	26.1 26.2	26.1	74.8 75.2	75.0	5.1 5.1	5.1	5.1	2.8	2.7		4.4	4.1	
7-Aug-17	Sunny	Moderate	13:37		Surface	1.0	29.1 28.8	28.9	8.0 8.0	8.0	22.1 22.5	22.3	71.7	71.8	5.1 5.1	5.1		2.9 2.9	2.9		4.0	4.2	
				35.1	Middle	17.6	28.3 28.3	28.3	8.0 8.0	8.0	25.2 25.2	25.2	72.4	72.4	5.2 5.2	5.2	5.1	3.1 2.8	3.0	2.9	5.4 6.0	5.7	5.0
					Bottom	34.1	28.3 28.1	28.2	8.0 8.0	8.0	25.7 26.3	26.0	72.5 72.5	72.5	5.2 5.2	5.2	5.2	3.0 2.8	2.9		5.4 5.0	5.2	
9-Aug-17	Cloudy	Moderate	14:59		Surface	1.0	28.6 28.7	28.6	7.9 7.9	7.9	23.9 23.8	23.8	77.1 76.8	77.0	5.3 5.3	5.3	5.0	9.2 9.1	9.2		6.8 7.3	7.1	
				34.6	Middle	17.4	28.6 28.6	28.6	7.9	7.9	24.0 24.0	24.0	76.2 76.6	76.4	5.2 5.2	5.2	5.3	9.6 9.5	9.6	9.5	6.4 6.6	6.5	6.8
					Bottom	33.6	28.5 28.6	28.5	7.9 7.9	7.9	24.4 24.2	24.3	75.6 75.3	75.5	5.2 5.2	5.2	5.2	9.9 9.7	9.8		7.4 6.5	7.0	
11-Aug-17	Cloudy	Moderate	15:57		Surface	1.0	29.6 29.5	29.6	7.9 7.9	7.9	20.1 20.1	20.1	77.1 76.9	77.0	5.5 5.5	5.5		5.2 5.5	5.4		1.1 1.2	1.2	
				35.1	Middle	17.6	27.3 27.3	27.3	7.9 7.9	7.9	28.0 28.0	28.0	76.1 75.7	75.9	5.4 5.4	5.4	5.5	5.4 5.6	5.5	5.4	1.7 1.6	1.7	2.1
					Bottom	34.1	27.3 27.3	27.3	7.9 7.9	7.9	28.1 28.0	28.1	75.9 77.1	76.5	5.4 5.5	5.5	5.5	5.6 5.2	5.4		2.8 4.2	3.5	
14-Aug-17	Sunny	Moderate	18:10		Surface	1.1	30.2 30.0	30.1	7.8 7.8	7.8	17.1 18.0	17.6	89.7 91.3	90.5	6.2 6.3	6.2	6.1	3.3 3.2	3.3		6.0 5.2	5.6	
				34.6	Middle	17.4	29.5 29.4	29.4	7.7 7.7	7.7	20.2 20.2	20.2	88.9 88.2	88.6	6.1 6.0	6.0	0.1	3.5 3.4	3.5	3.5	5.2 5.1	5.2	6.1
					Bottom	33.6	29.2 29.3	29.3	7.7 7.7	7.7	21.7 20.7	21.2	86.5 86.9	86.7	5.9 5.9	5.9	5.9	3.7 3.6	3.7		7.4 7.5	7.5	
16-Aug-17	Cloudy	Moderate	6:23		Surface	1.0	29.7 29.8	29.7	7.7 7.7	7.7	16.7 15.8	16.2	86.1 87.7	86.9	6.0 6.1	6.0	5.6	2.6 2.7	2.7		4.0 5.7	4.9	
				34.7	Middle	17.1	27.4 27.6	27.5	7.6 7.6	7.6	27.3 26.5	26.9	74.8 74.2	74.5	5.2 5.1	5.1	5.0	3.3 3.3	3.3	3.2	6.6 7.9	7.3	6.1
					Bottom	33.7	24.9 25.0	24.9	7.6 7.5	7.6	35.4 35.3	35.4	71.3 70.5	70.9	4.9 4.8	4.8	4.8	3.5 3.5	3.5		6.3 6.3	6.3	
18-Aug-17	Sunny	Moderate	8:32		Surface	1.0	29.0 29.0	29.0	7.7 7.7	7.7	19.9 18.8	19.4	95.1 93.9	94.5	6.6 6.5	6.5	6.4	1.5 1.5	1.5		4.2 4.8	4.5	
				34.7	Middle	17.3	28.5 28.7	28.6	7.6 7.7	7.7	21.7 20.7	21.2	89.2 90.9	90.1	6.1 6.3	6.2	0.7	1.6 1.7	1.7	1.6	5.2 4.6	4.9	4.7
					Bottom	33.7	27.8 27.4	27.6	7.7 7.8	7.7	25.5 26.7	26.1	86.7 87.7	87.2	5.9 6.0	5.9	5.9	1.8 1.7	1.8		4.7 4.7	4.7	
21-Aug-17	Sunny	Moderate	13:26		Surface	1.0	29.0 28.8	28.9	8.0 8.0	8.0	20.7 21.1	20.9	99.1 95.3	97.2	6.8 6.5	6.7	6.4	3.8 3.7	3.8		3.9 5.3	4.6	
				34.2	Middle	17.3	27.8 27.9	27.8	8.0 8.0	8.0	24.8 24.7	24.7	88.9 89.5	89.2	6.1 6.1	6.1	0.7	5.9 5.7	5.8	5.1	4.3 5.3	4.8	4.7
					Bottom	33.2	27.8 27.7	27.8	8.0 8.0	8.0	25.0 25.2	25.1	90.9 90.2	90.6	6.2 6.2	6.2	6.2	5.6 6.0	5.8		4.3 5.2	4.8	

## Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-		-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	16:00		Surface	1.0	27.5 27.4	27.4	7.6 7.6	7.6	24.8 24.8	24.8	79.0 79.1	79.1	5.4 5.4	5.4	5.3	9.1 9.3	9.2		6.4 6.4	6.4	
				34.8	Middle	17.4	26.4 26.4	26.4	7.7 7.7	7.7	29.4 29.3	29.3	76.7 76.8	76.8	5.2 5.3	5.3	5.5	10.3 10.5	10.4	10.5	7.4 6.1	6.8	7.3
					Bottom	33.8	25.9 25.9	25.9	7.7 7.7	7.7	32.4 32.4	32.4	74.3 74.3	74.3	5.1 5.0	5.0	5.0	12.0 11.9	12.0		8.4 8.9	8.7	
28-Aug-17	Rainy	Moderate	17:48		Surface	1.1	26.8 26.8	26.8	7.6 7.5	7.6	25.2 25.2	25.2	79.8 80.5	80.2	5.6 5.6	5.6	5.4	4.3 4.3	4.3		4.2 5.2	4.7	
				34.8	Middle	17.4	26.1 26.1	26.1	7.6 7.5	7.5	30.7 30.8	30.7	75.6 76.4	76.0	5.2 5.2	5.2	5.4	4.5 4.7	4.6	4.6	5.6 5.4	5.5	5.4
					Bottom	33.8	25.7 25.8	25.8	7.5 7.5	7.5	33.3 33.3	33.3	75.4 74.8	75.1	5.1 5.1	5.1	5.1	4.8 4.9	4.9		5.9 6.0	6.0	
30-Aug-17	Fine	Moderate	5:45		Surface	1.1	27.8 27.8	27.8	7.4 7.5	7.5	20.0 19.9	19.9	80.5 79.8	80.2	5.7 5.6	5.7	5.5	3.2 3.3	3.3		4.3 4.5	4.4	
				35.4	Middle	17.7	25.8 25.7	25.7	7.4 7.5	7.5	27.0 27.0	27.0	77.5 76.6	77.1	5.3 5.3	5.3	5.5	3.8 3.7	3.8	3.8	7.1 5.6	6.4	5.7
					Bottom	34.4	25.2 25.3	25.2	7.4 7.4	7.4	36.0 35.9	35.9	76.2 76.4	76.3	5.1 5.2	5.1	5.1	4.4 4.5	4.5		6.8 6.1	6.5	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Г	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	17:22		Surface	1.0	29.0 29.3	29.2	7.9 7.9	7.9	19.7 19.1	19.4	85.2 85.4	85.3	5.9 6.1	6.0	5.9	4.2 4.5	4.4		4.9 5.3	5.1	
				35.1	Middle	17.6	28.5 28.6	28.6	7.9 7.9	7.9	21.4 22.9	22.2	81.5 81.7	81.6	5.7 5.8	5.8	5.9	4.0 4.7	4.4	4.6	5.0 5.3	5.2	6.4
					Bottom	34.1	27.9 28.5	28.2	7.8 7.8	7.8	26.8 27.2	27.0	78.7 79.6	79.2	5.6 5.6	5.6	5.6	5.2 4.8	5.0		9.7 8.1	8.9	
4-Aug-17	Fine	Moderate	19:04		Surface	1.0	28.8 28.8	28.8	8.0 8.0	8.0	21.6 21.9	21.8	82.8 79.8	81.3	5.7 5.5	5.6		5.3 5.5	5.4		3.7 3.5	3.6	
				35.4	Middle	17.7	27.1 27.2	27.1	7.9 7.9	7.9	30.3 29.9	30.1	77.2 79.6	78.4	5.4 5.6	5.5	5.5	5.5 5.8	5.7	5.9	3.6 3.8	3.7	4.0
					Bottom	34.4	27.3 27.1	27.2	7.9	7.9	30.1 30.2	30.2	74.6 73.6	74.1	5.1 5.1	5.1	5.1	6.8 6.5	6.7		4.5	4.6	
7-Aug-17	Sunny	Moderate	5:03		Surface	1.0	28.6 28.9	28.8	7.8	7.8	22.4 21.8	22.1	72.9 73.3	73.1	5.1 5.2	5.1		3.1 2.8	3.0		4.7	5.2	
				34.5	Middle	17.3	27.3 27.1	27.2	7.8	7.8	28.8 29.0	28.9	73.5	73.6	5.2 5.2	5.2	5.2	3.3 3.1	3.2	3.1	5.8 6.8	6.3	5.6
					Bottom	33.5	27.1	27.1	7.8	7.8	29.8 30.2	30.0	73.6 73.6	73.6	5.2 5.2	5.2	5.2	3.2 3.2	3.2		5.3 5.3	5.3	
9-Aug-17	Cloudy	Moderate	6:22		Surface	1.1	28.6 29.1	28.8	7.8	7.8	22.4 21.9	22.2	76.7 76.4	76.6	5.3 5.3	5.3		3.2 3.3	3.3		5.3 3.8	4.6	
				34.7	Middle	17.4	27.3 28.0	27.6	7.8	7.8	27.1 26.1	26.6	76.1 75.8	76.0	5.2 5.2	5.2	5.2	3.5 3.5	3.5	3.5	3.8 4.1	4.0	4.3
					Bottom	33.7	27.4 26.8	27.1	7.8	7.7	28.5 30.2	29.4	75.4 75.3	75.4	5.2 5.2	5.2	5.2	3.6 3.7	3.7		3.8	4.3	
11-Aug-17	Cloudy	Moderate	7:32		Surface	1.0	29.0 28.7	28.8	7.8 7.8	7.8	20.7 22.4	21.5	74.7 74.8	74.8	5.4 5.4	5.4	5.4	3.5 3.7	3.6		4.3 4.4	4.4	
				35.2	Middle	17.6	27.2 27.5	27.3	7.8 7.8	7.8	28.2 27.1	27.6	74.7 74.5	74.6	5.3 5.3	5.3	5.4	4.0 3.9	4.0	3.9	6.0 5.4	5.7	4.8
					Bottom	34.2	27.2 27.6	27.4	7.8 7.8	7.8	28.2 27.6	27.9	74.9 74.8	74.9	5.4 5.3	5.3	5.3	4.1 4.0	4.1		4.2 4.3	4.3	
14-Aug-17	Sunny	Moderate	10:30		Surface	1.1	29.1 29.1	29.1	7.7 7.7	7.7	20.0 20.0	20.0	76.5 76.5	76.5	5.2 5.3	5.2	5.2	2.7 2.6	2.7		4.8 4.8	4.8	
				34.6	Middle	17.3	28.7 28.9	28.8	7.7 7.6	7.7	22.5 21.5	22.0	75.3 74.6	75.0	5.2 5.1	5.1	5.2	2.8 2.9	2.9	2.8	4.5 3.4	4.0	3.9
					Bottom	33.6	28.8 28.7	28.8	7.6 7.7	7.7	23.6 22.8	23.2	74.3 74.1	74.2	5.1 5.1	5.1	5.1	2.9 3.1	3.0		3.0 3.0	3.0	
16-Aug-17	Cloudy	Moderate	15:01		Surface	1.2	29.5 29.5	29.5	7.8 7.8	7.8	18.5 18.6	18.6	84.0 85.8	84.9	5.8 5.9	5.8	5.6	2.8 2.8	2.8		4.5 4.8	4.7	
				34.1	Middle	17.0	25.0 24.9	25.0	7.7 7.7	7.7	34.9 35.0	34.9	77.1 76.4	76.8	5.3 5.3	5.3	5.0	8.4 8.3	8.4	6.5	7.4 7.7	7.6	9.0
					Bottom	33.1	25.1 24.9	25.0	7.7 7.7	7.7	35.0 35.2	35.1	73.5 72.3	72.9	5.0 4.9	4.9	4.9	8.0 8.4	8.2		15.7 14.0	14.9	
18-Aug-17	Sunny	Moderate	18:42		Surface	1.0	28.9 29.1	29.0	7.9 8.0	8.0	21.5 20.5	21.0	107.1 104.8	106.0	7.3 7.2	7.2	7.0	2.9 2.8	2.9		5.3 4.4	4.9	
				34.7	Middle	17.4	27.7 28.6	28.2	7.9 7.9	7.9	25.3 22.7	24.0	97.7 100.0	98.9	6.7 6.8	6.7	7.0	3.2 3.1	3.2	3.1	4.4 4.1	4.3	4.5
					Bottom	33.7	27.3 27.5	27.4	7.9 7.9	7.9	27.2 26.7	27.0	96.1 96.0	96.1	6.6 6.6	6.6	6.6	3.4 3.3	3.4		4.6 4.4	4.5	
21-Aug-17	Sunny	Moderate	4:56		Surface	1.0	28.3 27.7	28.0	7.9 7.9	7.9	23.2 26.2	24.7	93.6 88.8	91.2	6.4 6.0	6.2	6.1	3.5 3.6	3.6		4.6 4.9	4.8	
				35.0	Middle	17.5	26.7 26.7	26.7	7.9 7.9	7.9	28.3 28.4	28.4	87.1 88.4	87.8	5.9 6.0	5.9	0.1	3.7 3.7	3.7	3.7	5.3 5.7	5.5	6.0
					Bottom	34.0	26.5 26.4	26.5	7.9 7.8	7.9	30.5 30.2	30.4	85.1 85.6	85.4	5.8 5.8	5.8	5.8	3.7 3.8	3.8		6.9 8.4	7.7	

## Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-		-	-	-		-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	7:51		Surface	1.0	27.4 27.4	27.4	7.5 7.5	7.5	25.5 25.5	25.5	78.7 79.9	79.3	5.4 5.5	5.4	5.3	7.5 7.3	7.4		7.6 7.4	7.5	[
				35.2	Middle	17.6	26.3 26.3	26.3	7.5 7.5	7.5	30.3 30.4	30.3	76.8 76.3	76.6	5.2 5.2	5.2	5.5	8.0 8.2	8.1	8.4	8.5 7.6	8.1	8.4
					Bottom	34.2	25.9 26.0	25.9	7.5 7.5	7.5	32.2 32.1	32.2	74.4 74.7	74.6	5.1 5.1	5.1	5.1	9.7 9.9	9.8		9.3 9.7	9.5	
28-Aug-17	Rainy	Moderate	10:07		Surface	1.0	26.7 26.7	26.7	7.5 7.5	7.5	25.5 25.5	25.5	82.4 82.4	82.4	5.7 5.7	5.7	5.6	5.2 5.1	5.2		6.7 7.9	7.3	
				35.2	Middle	17.6	26.4 26.3	26.3	7.4 7.4	7.4	30.1 30.1	30.1	78.5 79.1	78.8	5.4 5.4	5.4	5.6	6.8 6.8	6.8	6.2	7.5 8.1	7.8	7.6
					Bottom	34.2	26.0 26.0	26.0	7.4 7.4	7.4	31.9 31.8	31.8	80.2 81.4	80.8	5.5 5.5	5.5	5.5	6.8 6.7	6.8		7.5 7.6	7.6	
30-Aug-17	Fine	Moderate	16:26		Surface	1.1	28.0 28.0	28.0	7.7 7.7	7.7	19.8 19.8	19.8	80.8 81.1	81.0	5.6 5.7	5.7	5.4	3.1 3.0	3.1		5.4 4.4	4.9	
				35.8	Middle	17.9	26.0 26.0	26.0	7.7 7.7	7.7	32.5 32.6	32.6	75.7 76.0	75.9	5.1 5.1	5.1	5.4	3.3 3.4	3.4	3.3	4.1 4.6	4.4	4.7
					Bottom	34.8	25.5 25.6	25.6	7.6 7.6	7.6	34.6 34.5	34.5	73.5 74.3	73.9	4.9 5.0	5.0	5.0	3.5 3.7	3.6		4.2 5.2	4.7	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	oling	Tempera	ature (°C)	p	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:26		Surface	1.1	30.2 30.2	30.2	8.5 8.5	8.5	18.7 18.7	18.7	126.0 119.6	122.8	8.6 8.1	8.3	0.4	6.2 6.0	6.1		7.1 6.1	6.6	1
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	6.0	-	-	8.3
					Bottom	2.3	30.2 30.1	30.1	8.5 8.5	8.5	19.1 19.5	19.3	123.8 115.5	119.7	8.4 7.8	8.1	8.1	5.8 6.1	6.0		10.0 9.8	9.9	ł
4-Aug-17	Fine	Moderate	12:08		Surface	1.1	29.4 29.3	29.3	8.3 8.3	8.3	19.7 19.7	19.7	87.1 85.6	86.4	6.0 5.9	5.9		5.6 5.5	5.6		6.4 6.6	6.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	5.6	-	-	7.1
					Bottom	2.2	29.1 29.3	29.2	8.3 8.3	8.3	20.3 22.7	21.5	89.0 87.1	88.1	6.1 5.9	6.0	6.0	5.7 5.7	5.7		7.9 7.4	7.7	
7-Aug-17	Sunny	Moderate	11:46		Surface	1.1	29.7 29.7	29.7	8.2 8.2	8.2	20.8 20.8	20.8	83.4 80.8	82.1	5.7 5.5	5.6		7.6 7.7	7.7		9.5 9.8	9.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	7.7	-	-	9.5
					Bottom	2.4	29.7 29.7	29.7	8.2 8.2	8.2	21.1 20.9	21.0	82.0 88.0	85.0	5.6 6.0	5.8	5.8	7.7 7.7	7.7		9.3 9.2	9.3	
9-Aug-17	Cloudy	Moderate	12:41		Surface	1.0	29.5 29.5	29.5	8.2 8.2	8.2	21.8 21.9	21.8	91.6 84.3	88.0	6.2 5.7	5.9		11.4 11.2	11.3		10.2 11.8	11.0	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	11.4	-	-	11.1
					Bottom	2.4	29.5 29.5	29.5	8.2 8.2	8.2	21.9 21.9	21.9	84.3 85.6	85.0	5.7 5.8	5.7	5.7	11.4 11.4	11.4		11.0 11.2	11.1	
11-Aug-17	Cloudy	Moderate	14:09		Surface	1.1	29.4 29.4	29.4	8.1 8.1	8.1	20.0 20.0	20.0	80.6 82.0	81.3	5.5 5.6	5.6	5.6	8.8 8.9	8.9		7.9 7.8	7.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	8.7	-	-	8.4
					Bottom	2.3	29.3 29.3	29.3	8.1 8.1	8.1	20.1 20.1	20.1	81.1 84.2	82.7	5.6 5.8	5.7	5.7	8.6 8.5	8.6		9.2 8.5	8.9	
14-Aug-17	Sunny	Moderate	16:10		Surface	1.0	30.1 30.1	30.1	8.2 8.2	8.2	20.7 20.8	20.7	95.6 95.1	95.4	6.4 6.4	6.4	6.4	3.9 4.1	4.0		5.8 6.0	5.9	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	4.0	-	-	7.3
					Bottom	2.2	30.1 30.1	30.1	8.2 8.2	8.2	20.8 20.7	20.7	95.3 95.9	95.6	6.4 6.5	6.4	6.4	4.0 3.8	3.9		8.0 9.2	8.6	L
16-Aug-17	Cloudy	Moderate	8:50		Surface	1.1	29.9 29.9	29.9	8.3 8.3	8.3	19.6 19.7	19.6	99.6 99.6	99.6	6.8 6.8	6.8	6.8	4.3 4.1	4.2		6.5 5.3	5.9	1
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	5.1	-	-	6.3
					Bottom	2.2	29.9 29.8	29.8	8.2 8.2	8.2	20.9 21.1	21.0	99.8 100.0	99.9	6.7 6.8	6.8	6.8	5.8 6.1	6.0		6.7 6.7	6.7	
18-Aug-17	Sunny	Moderate	11:06		Surface	1.1	30.6 30.7	30.6	8.4 8.5	8.5	19.2 19.6	19.4	121.3 130.5	125.9	8.2 8.8	8.5	8.5	1.9 2.1	2.0		4.0 5.1	4.6	
				3.1	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	2.0	-	-	4.8
					Bottom	2.1	29.9 29.3	29.6	8.5 8.4	8.4	20.4 23.0	21.7	116.4 108.7	112.6	7.8 7.3	7.6	7.6	1.9 2.1	2.0		4.7 5.5	5.1	
21-Aug-17	Sunny	Moderate	11:14		Surface	1.0	29.2 29.3	29.3	8.4 8.4	8.4	22.1 21.9	22.0	100.9 102.2	101.6	6.8 6.9	6.9	6.9	4.3 4.2	4.3		6.6 6.2	6.4	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-	4.3	-	-	5.8
					Bottom	2.3	29.5 29.2	29.4	8.4 8.4	8.4	21.6 22.2	21.9	101.0 100.3	100.7	6.9 6.8	6.8	6.8	4.4 4.3	4.4		5.2 5.2	5.2	ł

## Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	٦	urbidity(NTL	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	<u>-</u>	-	-	-
					Bottom	I	-	-		-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	14:14		Surface	1.1	28.2 28.2	28.2	8.1 8.1	8.1	24.9 24.7	24.8	82.0 85.9	84.0	5.6 5.8	5.7	5.7	8.4 8.5	8.5		7.7 7.2	7.5	
				3.4	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.7	0.0 0.0	-	8.5	-	-	7.5
					Bottom	2.4	28.3 28.1	28.2	8.1 8.1	8.1	24.8 25.1	24.9	83.4 80.9	82.2	5.7 5.5	5.6	5.6	8.5 8.5	8.5		7.2 7.9	7.6	
28-Aug-17	Rainy	Moderate	16:10		Surface	1.2	26.6 26.6	26.6	8.1 8.1	8.1	23.9 24.0	24.0	92.7 96.3	94.5	6.5 6.8	6.6	6.6	4.0 4.1	4.1		5.6 5.3	5.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.1	-	-	7.1
					Bottom	2.2	26.5 26.5	26.5	8.1 8.1	8.1	24.2 24.3	24.3	89.9 90.9	90.4	6.3 6.4	6.3	6.3	4.2 4.0	4.1		7.8 9.6	8.7	
30-Aug-17	Fine	Moderate	7:47		Surface	1.0	28.1 28.0	28.0	8.0 8.0	8.0	18.6 19.6	19.1	86.2 84.0	85.1	6.0 5.9	6.0	6.0	2.6 2.6	2.6		3.4 3.9	3.7	
				3.1	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	2.7	-	-	4.1
					Bottom	2.1	28.0 27.8	27.9	8.0 8.0	8.0	21.4 20.7	21.1	83.5 84.5	84.0	5.8 6.0	5.9	5.9	2.8 2.8	2.8		5.5 3.7	4.6	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Г	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	15:34		Surface	1.1	30.0 30.0	30.0	8.6 8.5	8.6	19.2 19.2	19.2	129.3 127.3	128.3	8.8 8.7	8.7	8.7	5.5 5.5	5.5		8.0 8.4	8.2	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	5.5	-	-	10.0
					Bottom	2.3	30.0 30.0	30.0	8.5 8.6	8.5	19.4 19.2	19.3	118.9 123.7	121.3	8.1 8.4	8.2	8.2	5.5 5.6	5.6		12.1 11.5	11.8	
4-Aug-17	Fine	Moderate	17:14		Surface	1.1	29.4 29.4	29.4	8.3 8.3	8.3	20.1 20.0	20.0	85.8 88.1	87.0	5.9 6.0	6.0	6.0	6.2 6.4	6.3		5.7 5.6	5.7	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	6.0	-	-	6.5	-	-	6.7
					Bottom	2.4	29.2 29.3	29.2	8.3 8.3	8.3	21.4 21.2	21.3	85.7 87.4	86.6	5.8 6.0	5.9	5.9	6.8 6.5	6.7		7.7 7.7	7.7	
7-Aug-17	Sunny	Moderate	6:41		Surface	1.1	29.7 29.7	29.7	8.2 8.2	8.2	20.2 20.3	20.2	79.9 80.2	80.1	5.4 5.5	5.4	5.4	7.4 7.1	7.3		9.0 8.8	8.9	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	5.4	-	-	7.3	-	-	9.6
					Bottom	2.4	29.7 29.7	29.7	8.2 8.2	8.2	20.7 20.6	20.7	79.8 80.0	79.9	5.4 5.4	5.4	5.4	7.3 7.2	7.3		10.2 10.5	10.4	
9-Aug-17	Cloudy	Moderate	8:05		Surface	1.0	29.8 29.8	29.8	8.3 8.3	8.3	21.4 21.5	21.4	95.6 95.8	95.7	6.5 6.5	6.5	6.5	6.8 6.9	6.9		3.6 3.6	3.6	
				3.6	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	6.9	-	-	2.9
					Bottom	2.6	29.7 29.7	29.7	8.3 8.3	8.3	21.6 21.6	21.6	94.0 95.6	94.8	6.3 6.5	6.4	6.4	6.8 6.9	6.9		2.3 2.2	2.3	
11-Aug-17	Cloudy	Moderate	9:24		Surface	1.1	29.4 29.4	29.4	8.1 8.1	8.1	21.1 21.1	21.1	80.1 80.5	80.3	5.5 5.5	5.5	5.5	5.4 5.5	5.5		6.0 5.5	5.8	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.5	-	-	5.5
					Bottom	2.4	29.4 29.4	29.4	8.1 8.1	8.1	21.4 21.5	21.5	80.2 80.5	80.4	5.5 5.5	5.5	5.5	5.6 5.5	5.6		5.6 5.0	5.3	
14-Aug-17	Sunny	Moderate	12:21		Surface	1.1	29.8 29.8	29.8	8.1 8.2	8.2	23.0 22.9	22.9	92.2 93.0	92.6	6.2 6.2	6.2	6.2	6.2 6.1	6.2		8.0 7.9	8.0	
				3.3	Middle	•	-	-		-	-	-	-	-		-	0.2	-	-	6.2	-	-	8.9
					Bottom	2.3	29.8 29.8	29.8	8.2 8.2	8.2	23.0 22.9	22.9	91.8 92.7	92.3	6.1 6.2	6.2	6.2	6.2 6.2	6.2		10.1 9.5	9.8	
16-Aug-17	Cloudy	Moderate	13:16		Surface	1.0	30.0 30.0	30.0	8.4 8.3	8.3	18.4 18.7	18.6	100.7 104.1	102.4	6.9 7.1	7.0	7.0	5.3 5.1	5.2		4.0 4.2	4.1	
				3.2	Middle	-	-	-		-	-	-	-	-		-	7.0	-	-	6.2	-	-	3.9
					Bottom	2.2	30.0 30.0	30.0	8.3 8.4	8.4	19.7 19.3	19.5	102.0 98.9	100.5	6.9 6.7	6.8	6.8	7.0 7.2	7.1		3.4 3.9	3.7	
18-Aug-17	Sunny	Moderate	16:10		Surface	1.0	31.0 31.0	31.0	8.7 8.7	8.7	17.8 17.8	17.8	176.1 173.7	174.9	11.9 11.7	11.8	11.8	3.5 3.6	3.6		5.8 7.0	6.4	
				3.1	Middle	-	-	-	-	-	-	-	-	-		-	11.0	-	-	3.6	-	-	5.9
					Bottom	2.1	30.8 30.8	30.8	8.7 8.7	8.7	18.0 18.1	18.1	171.4 175.6	173.5	11.6 11.9	11.7	11.7	3.7 3.6	3.7		5.7 5.2	5.5	
21-Aug-17	Sunny	Moderate	6:39		Surface	1.0	29.5 29.5	29.5	8.4 8.4	8.4	21.3 21.0	21.2	108.0 103.6	105.8	7.3 7.0	7.2	7.2	4.5 4.8	4.7		2.6 4.0	3.3	
				3.6	Middle	-	-	-	-	-	-	-	-	-		-		-	-	4.7	-	-	3.2
					Bottom	2.6	29.2 29.7	29.4	8.4 8.4	8.4	22.3 22.1	22.2	102.2 106.3	104.3	6.9 7.2	7.0	7.0	4.8 4.7	4.8		3.6 2.7	3.2	

## Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (I	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	=	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	9:31		Surface	1.0	27.7 27.6	27.6	8.1 8.1	8.1	26.8 27.1	27.0	84.1 80.1	82.1	5.7 5.4	5.6	5.6	6.4 6.5	6.5		7.6 6.9	7.3	
				3.5	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.0	0.0 0.0	-	6.4	-	-	7.7
					Bottom	2.5	27.5 27.6	27.5	8.1 8.1	8.1	28.0 27.8	27.9	81.1 79.2	80.2	5.5 5.4	5.4	5.4	6.5 6.2	6.4		7.5 8.6	8.1	
28-Aug-17	Rainy	Moderate	12:00		Surface	1.0	26.5 26.5	26.5	8.1 8.1	8.1	24.8 24.8	24.8	85.1 88.0	86.6	5.9 6.1	6.0	6.0	7.4 7.2	7.3		6.6 5.4	6.0	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.3	-	-	7.0
					Bottom	2.1	26.5 26.5	26.5	8.1 8.1	8.1	26.2 25.9	26.1	85.1 84.1	84.6	6.0 5.9	5.9	5.9	7.2 7.5	7.4	<u> </u>	7.6 8.4	8.0	
30-Aug-17	Fine	Moderate	13:39		Surface	1.0	29.3 29.4	29.3	8.1 8.1	8.1	18.3 18.3	18.3	96.6 98.3	97.5	6.7 6.8	6.7	6.7	2.3 2.2	2.3		5.5 4.5	5.0	
				3.0	Middle	-		-	-	-	-	-	-	-	-	-	0.7	-	-	2.3	-	-	5.7
					Bottom	2.0	29.0 28.7	28.9	8.1 8.1	8.1	19.2 19.5	19.3	96.8 96.0	96.4	6.7 6.7	6.7	6.7	2.2 2.3	2.3	<u> </u>	7.0 5.7	6.4	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:12		Surface	1.0	30.1 30.1	30.1	8.5 8.5	8.5	18.2 18.4	18.3	118.9 119.9	119.4	8.1 8.2	8.1		7.1 7.4	7.3		6.5 7.2	6.9	
				3.6	Middle	-	-	-	-	-	-	-		-	:	-	8.2		-	7.3		-	7.8
					Bottom	2.6	30.0 30.0	30.0	8.5 8.5	8.5	18.6 18.4	18.5	116.9 116.0	116.5	8.0 7.9	8.0	8.0	7.4 7.2	7.3		8.3 9.1	8.7	
4-Aug-17	Fine	Moderate	11:53		Surface	1.1	29.2 29.3	29.3	8.2 8.2	8.2	19.9 19.9	19.9	77.2 80.9	79.1	5.4 5.7	5.5		8.5 8.1	8.3		7.5	8.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	8.4	-	-	8.8
					Bottom	2.7	29.3 29.0	29.1	8.2 8.1	8.2	21.4 22.2	21.8	78.3 74.5	76.4	5.5 5.2	5.4	5.4	8.5 8.3	8.4		9.3 10.0	9.7	
7-Aug-17	Sunny	Moderate	12:03		Surface	1.1	30.1 30.1	30.1	8.3 8.3	8.3	20.7 20.7	20.7	92.5 91.6	92.1	6.2 6.2	6.2		5.8 5.9	5.9		6.7 7.3	7.0	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	6.2	-	-	5.8	-	-	8.4
					Bottom	2.7	30.0 29.9	29.9	8.3 8.3	8.3	20.8 20.9	20.8	91.8 90.8	91.3	6.2 6.1	6.2	6.2	5.8 5.8	5.8		9.9 9.7	9.8	
9-Aug-17	Cloudy	Moderate	12:54		Surface	1.1	29.8 29.4	29.6	8.3 8.2	8.3	21.3 21.9	21.6	96.4 89.8	93.1	6.5 6.1	6.3		5.4 5.5	5.5		3.2 3.3	3.3	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	5.5	-	-	4.1
					Bottom	2.5	29.5 29.4	29.4	8.2 8.2	8.2	21.7 22.1	21.9	86.9 86.9	86.9	5.9 5.9	5.9	5.9	5.4 5.6	5.5		5.6 4.3	5.0	
11-Aug-17	Cloudy	Moderate	14:23		Surface	1.0	29.6 29.6	29.6	8.1 8.1	8.1	20.6 20.5	20.5	84.7 86.4	85.6	5.8 5.9	5.8	5.8	7.4 7.0	7.2		5.1 5.0	5.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.3	-	-	6.2
					Bottom	2.7	29.6 29.6	29.6	8.1 8.1	8.1	20.9 20.7	20.8	89.0 85.6	87.3	6.0 5.8	5.9	5.9	7.5 7.2	7.4		7.0 7.6	7.3	
14-Aug-17	Sunny	Moderate	16:25		Surface	1.1	30.2 30.3	30.2	8.2 8.2	8.2	20.2 20.2	20.2	97.3 97.8	97.6	6.6 6.6	6.6	6.6	6.7 6.1	6.4		8.8 7.8	8.3	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	6.5	-	-	9.2
					Bottom	2.7	30.3 30.1	30.2	8.2 8.3	8.2	20.2 20.3	20.2	96.8 96.7	96.8	6.5 6.5	6.5	6.5	6.5 6.5	6.5		9.9 10.2	10.1	
16-Aug-17	Cloudy	Moderate	8:34		Surface	1.0	29.7 29.7	29.7	8.2 8.2	8.2	18.7 18.8	18.8	95.8 97.8	96.8	6.6 6.6	6.6	6.6	3.7 4.1	3.9		4.8 4.7	4.8	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.2	-	-	4.5
					Bottom	2.3	29.6 29.6	29.6	8.2 8.2	8.2	21.3 21.8	21.6	93.2 94.7	94.0	6.4 6.4	6.4	6.4	4.3 4.6	4.5		4.2 4.1	4.2	
18-Aug-17	Sunny	Moderate	10:51		Surface	1.1	29.6 29.6	29.6	8.4 8.4	8.4	20.3 20.2	20.2	106.2 106.0	106.1	7.2 7.2	7.2	7.2	3.5 3.5	3.5		2.5 2.9	2.7	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	3.5	-	-	2.6
					Bottom	2.6	29.3 29.3	29.3	8.3 8.3	8.3	24.0 22.3	23.1	108.4 103.1	105.8	7.3 7.0	7.1	7.1	3.5 3.5	3.5		2.7 2.4	2.6	
21-Aug-17	Sunny	Moderate	11:28		Surface	1.1	29.8 29.8	29.8	8.5 8.5	8.5	20.8 20.9	20.9	122.3 120.2	121.3	8.3 8.1	8.2	8.2	5.1 4.8	5.0		7.8 7.5	7.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.0	-	-	8.8
					Bottom	2.4	29.7 29.8	29.7	8.5 8.5	8.5	21.2 20.9	21.1	119.4 121.3	120.4	8.1 8.2	8.1	8.1	5.0 5.1	5.1		10.5 9.3	9.9	

## Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	14:33		Surface	1.1	28.3 28.3	28.3	8.1 8.1	8.1	24.8 24.8	24.8	87.8 83.9	85.9	6.0 5.7	5.8	5.8	3.5 3.6	3.6		7.5 6.7	7.1	
				3.6	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.6	0.0 0.0	-	3.6	-	-	6.7
					Bottom	2.6	28.3 28.2	28.3	8.1 8.1	8.1	24.8 24.8	24.8	83.2 85.0	84.1	5.7 5.8	5.7	5.7	3.8 3.5	3.7		6.1 6.6	6.4	
28-Aug-17	Rainy	Moderate	16:29		Surface	1.1	26.5 26.5	26.5	8.1 8.1	8.1	24.2 24.1	24.2	92.6 90.6	91.6	6.5 6.4	6.4	6.4	2.3 2.3	2.3		5.9 5.9	5.9	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	2.4	-	-	6.7
					Bottom	2.4	26.6 26.5	26.5	8.1 8.1	8.1	24.7 24.4	24.6	92.0 94.1	93.1	6.4 6.6	6.5	6.5	2.6 2.5	2.6		7.9 6.9	7.4	
30-Aug-17	Fine	Moderate	7:30		Surface	1.0	28.1 28.0	28.1	8.0 8.0	8.0	21.0 20.8	20.9	85.7 83.1	84.4	5.9 5.8	5.8	5.9	3.3 3.2	3.3		4.0 3.6	3.8	
				3.5	Middle	-	-	-		-	-	-	-	-	-	-	5.9	-	-	3.4	-	-	3.9
					Bottom	2.5	28.0 27.8	27.9	8.0 7.9	8.0	22.1 22.2	22.2	82.4 83.9	83.2	5.8 5.8	5.8	5.8	3.5 3.5	3.5		4.0 3.9	4.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(NTl	U)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	15:48		Surface	1.0	30.0 30.0	30.0	8.5 8.5	8.5	19.2 19.2	19.2	119.0 117.1	118.1	8.1 8.0	8.0		9.4 9.2	9.3		8.5 8.3	8.4	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	8.0	-	-	9.4	-	-	9.1
					Bottom	2.7	29.9 30.0	30.0	8.5 8.5	8.5	19.4 19.4	19.4	111.3 115.0	113.2	7.6 7.8	7.7	7.7	9.5 9.3	9.4		10.3 9.1	9.7	
4-Aug-17	Fine	Moderate	17:30		Surface	1.1	29.4 29.4	29.4	8.3 8.3	8.3	20.1 20.3	20.2	91.5 89.5	90.5	6.3 6.1	6.2	6.2	8.4 8.1	8.3		8.7 8.3	8.5	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	8.4	-	-	9.8
					Bottom	2.5	29.4 29.3	29.3	8.3 8.3	8.3	20.5 20.9	20.7	89.1 89.7	89.4	6.1 6.1	6.1	6.1	8.4 8.5	8.5		10.5 11.7	11.1	
7-Aug-17	Sunny	Moderate	6:28		Surface	1.2	29.7 29.6	29.7	8.2 8.2	8.2	21.6 21.8	21.7	76.7 75.5	76.1	5.2 5.1	5.1	5.1	5.6 5.7	5.7		6.4 6.0	6.2	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	5.7	-	-	5.9
					Bottom	2.5	28.7 28.9	28.8	8.1 8.1	8.1	23.1 23.7	23.4	73.9 73.6	73.8	5.0 5.0	5.0	5.0	5.6 5.7	5.7		5.0 6.0	5.5	
9-Aug-17	Cloudy	Moderate	7:52		Surface	1.0	29.5 29.5	29.5	8.1 8.1	8.1	21.0 20.8	20.9	81.9 85.1	83.5	5.6 5.8	5.7	5.7	5.1 5.0	5.1		2.4 3.2	2.8	
				3.4	Middle	-	-	-		-	-	-		-	-	-	5.7	-	-	5.1	-	-	3.5
					Bottom	2.4	29.4 29.5	29.4	8.1 8.1	8.1	21.1 21.0	21.1	81.9 81.4	81.7	5.6 5.5	5.6	5.6	5.1 5.1	5.1		3.5 4.9	4.2	
11-Aug-17	Cloudy	Moderate	9:11		Surface	1.2	29.2 29.2	29.2	8.0 8.0	8.0	20.0 19.9	20.0	75.4 76.1	75.8	5.2 5.2	5.2	5.0	3.7 3.7	3.7		4.3 5.5	4.9	
				3.8	Middle	-	-	-		-	-	-		-	-	-	5.2	-	-	3.8	-	-	4.7
					Bottom	2.8	28.9 29.1	29.0	8.0 8.0	8.0	20.9 21.1	21.0	74.4 75.7	75.1	5.1 5.2	5.1	5.1	3.8 3.8	3.8		4.8 4.2	4.5	
14-Aug-17	Sunny	Moderate	12:08		Surface	1.1	29.7 29.7	29.7	8.1 8.1	8.1	21.2 21.3	21.3	84.9 84.8	84.9	5.7 5.7	5.7	5.7	2.7 2.8	2.8		3.1 4.6	3.9	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	2.8	-	-	3.8
					Bottom	2.6	29.6 29.7	29.6	8.1 8.1	8.1	21.7 21.5	21.6	84.6 84.7	84.7	5.7 5.7	5.7	5.7	2.8 2.7	2.8		3.9 3.4	3.7	
16-Aug-17	Cloudy	Moderate	13:33		Surface	1.0	29.9 29.9	29.9	8.3 8.3	8.3	18.8 18.8	18.8	107.6 107.4	107.5	7.3 7.3	7.3	7.3	4.1 3.7	3.9		2.9 3.4	3.2	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	4.3	-	-	3.2
					Bottom	2.3	30.0 29.9	29.9	8.3 8.3	8.3	19.5 19.5	19.5	107.4 107.5	107.5	7.3 7.3	7.3	7.3	4.7 4.8	4.8		2.8 3.5	3.2	
18-Aug-17	Sunny	Moderate	16:23		Surface	1.0	30.3 30.5	30.4	8.6 8.6	8.6	18.3 18.2	18.3	145.7 145.0	145.4	9.9 9.8	9.9	0.0	10.9 10.8	10.9		8.8 7.7	8.3	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	9.9	-	-	11.8	-	-	9.8
					Bottom	2.6	30.1 30.2	30.1	8.5 8.6	8.6	19.5 19.0	19.3	145.1 143.1	144.1	9.8 9.7	9.8	9.8	12.9 12.5	12.7		11.8 10.8	11.3	
21-Aug-17	Sunny	Moderate	6:26		Surface	1.0	29.8 29.8	29.8	8.5 8.5	8.5	20.8 20.7	20.8	119.0 126.8	122.9	8.1 8.1	8.1	0.4	4.4 4.3	4.4		4.5 4.5	4.5	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	4.4	-	-	5.4
					Bottom	2.4	29.2 29.7	29.5	8.4 8.5	8.4	23.2 20.9	22.0	117.9 115.4	116.7	7.4 7.8	7.6	7.6	4.4 4.4	4.4		6.7 6.0	6.4	

## Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ng	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-	-	-	-	-	-	-	-	-	-	=	-	-	=
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	9:11		Surface	1.1	27.6 27.5	27.6	8.1 8.1	8.1	26.2 26.9	26.6	76.7 76.7	76.7	5.2 5.2	5.2	5.2	5.4 5.4	5.4		8.5 9.5	9.0	
				3.8	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.2	0.0 0.0	-	5.4	-	-	9.0
					Bottom	2.8	27.4 27.4	27.4	8.1 8.1	8.1	28.3 28.5	28.4	76.5 76.4	76.5	5.2 5.2	5.2	5.2	5.4 5.5	5.5		9.7 8.3	9.0	
28-Aug-17	Rainy	Moderate	11:38		Surface	1.2	26.4 26.4	26.4	8.1 8.1	8.1	23.3 24.5	23.9	92.9 89.6	91.3	6.5 6.2	6.3	6.3	5.5 5.5	5.5		3.3 3.9	3.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	5.5	-	-	4.2
					Bottom	2.8	26.5 26.4	26.5	8.1 8.1	8.1	26.1 26.0	26.0	89.3 88.6	89.0	6.3 6.2	6.3	6.3	5.5 5.4	5.5		4.9 4.7	4.8	
30-Aug-17	Fine	Moderate	14:03		Surface	1.2	29.2 28.9	29.0	8.1 8.1	8.1	18.0 18.5	18.3	90.9 89.4	90.2	6.3 6.2	6.3	6.3	6.8 6.8	6.8		9.6 10.2	9.9	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	6.7	-	-	9.2
					Bottom	2.7	28.7 28.2	28.5	8.1 8.1	8.1	20.4 21.7	21.1	89.2 89.6	89.4	6.2 6.2	6.2	6.2	6.5 6.5	6.5	L	8.8 8.3	8.6	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS10(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ng	Tempera	ature (°C)	ĥ	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTU	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:34		Surface	1.0	29.6 29.7	29.7	7.9 7.9	7.9	16.5 16.4	16.4	80.2 79.6	79.9	5.6 5.5	5.6	5.5	5.3 5.3	5.3		5.9 6.7	6.3	
				10.9	Middle	5.5	28.9 29.1	29.0	7.8 7.8	7.8	19.5 20.7	20.1	78.4 75.1	76.8	5.6 5.2	5.4	5.5	5.5 5.4	5.5	5.6	5.3 5.7	5.5	6.6
					Bottom	9.9	28.6 28.5	28.5	7.8 7.8	7.8	25.0 24.0	24.5	75.8 75.0	75.4	5.3 5.1	5.2	5.2	6.3 6.0	6.2		8.2 7.5	7.9	
4-Aug-17	Fine	Moderate	10:57		Surface	1.0	28.9 28.8	28.8	8.1 8.1	8.1	20.1 20.1	20.1	81.4 79.9	80.7	6.0 5.7	5.9		6.9 6.8	6.9		4.4 4.9	4.7	
				11.1	Middle	5.6	28.3 28.5	28.4	8.0 8.0	8.0	25.9 25.9	25.9	75.6 80.3	78.0	5.6 5.8	5.7	5.8	7.5 8.1	7.8	7.9	3.9 4.1	4.0	4.5
					Bottom	10.1	28.5 28.2	28.4	8.0 8.0	8.0	26.2 26.5	26.3	76.3 72.8	74.6	5.5 5.3	5.4	5.4	9.2 8.8	9.0		4.3 5.2	4.8	
7-Aug-17	Sunny	Moderate	12:30		Surface	1.0	29.4 29.3	29.3	7.9 7.9	7.9	18.9 19.1	19.0	73.5 73.6	73.6	5.4 5.4	5.4	5.4	4.8 4.9	4.9		6.3 6.9	6.6	
				10.8	Middle	5.4	28.6 28.7	28.7	7.9 7.9	7.9	23.8 23.6	23.7	74.3 74.0	74.2	5.4 5.3	5.3	5.4	4.6 4.4	4.5	4.5	6.9 5.8	6.4	7.0
					Bottom	9.8	28.3 28.6	28.4	7.9 7.9	7.9	25.1 24.2	24.6	73.9 74.3	74.1	5.3 5.3	5.3	5.3	4.2 4.3	4.3		7.6 8.3	8.0	
9-Aug-17	Cloudy	Moderate	13:47		Surface	1.0	29.5 29.4	29.5	8.0 8.0	8.0	20.7 20.8	20.8	81.5 81.2	81.4	5.5 5.5	5.5	5.5	11.3 11.1	11.2		3.8 5.4	4.6	
				12.2	Middle	6.1	29.2 29.5	29.4	8.0 8.0	8.0	21.1 20.7	20.9	80.2 80.6	80.4	5.5 5.5	5.5	0.0	11.5 11.4	11.5	11.4	5.8 5.1	5.5	5.5
					Bottom	11.2	29.4 29.3	29.4	8.0 8.0	8.0	20.8 21.2	21.0	78.8 79.3	79.1	5.4 5.4	5.4	5.4	11.7 11.6	11.7		6.5 6.2	6.4	
11-Aug-17	Cloudy	Moderate	14:43		Surface	1.0	29.2 29.2	29.2	8.0 8.0	8.0	21.2 21.3	21.2	80.6 81.1	80.9	5.9 5.9	5.9	5.8	7.2 6.6	6.9		6.8 6.9	6.9	
				10.9	Middle	5.5	28.6 28.7	28.6	7.9 7.9	7.9	22.6 22.5	22.5	79.2 79.6	79.4	5.7 5.7	5.7		9.9 9.3	9.6	8.8	8.6 7.6	8.1	8.0
					Bottom	9.9	28.6 28.6	28.6	7.9 7.9	7.9	22.8 22.7	22.8	79.8 79.8	79.8	5.7 5.7	5.7	5.7	9.8 10.0	9.9		8.2 9.6	8.9	
14-Aug-17	Sunny	Moderate	16:54		Surface	1.1	29.7 29.6	29.7	7.8 7.8	7.8	17.4 17.3	17.3	84.4 85.2	84.8	5.8 5.8	5.8	5.8	4.1 4.2	4.2		4.7 3.1	3.9	
				12.2	Middle	6.1	29.2 29.3	29.3	7.7 7.8	7.8	18.9 18.3	18.6	83.0 83.2	83.1	5.7 5.8	5.7		4.3 4.2	4.3	4.3	4.3 4.7	4.5	4.8
					Bottom	11.2	29.3 29.2	29.2	7.7	7.8	20.6 20.4	20.5	83.9 82.2	83.1	5.7 5.7	5.7	5.7	4.6 4.5	4.6		6.2 5.8	6.0	
16-Aug-17	Cloudy	Moderate	7:28		Surface	1.1	29.3 29.4	29.4	7.7	7.7	15.6 14.8	15.2	80.7 82.5	81.6	5.7 5.8	5.7	5.4	3.4 3.5	3.5		5.3 5.9	5.6	
				11.0	Middle	5.5	28.4 28.5 26.7	28.4	7.6 7.6 7.5	7.6	23.7 24.2 28.9	24.0	75.1 74.1 72.3	74.6	5.0 5.0 4.9	5.0		3.7 3.6 3.8	3.7	3.6	4.6 5.4 5.9	5.0	5.4
18-Aug-17	Sunny	Moderate	9:57		Bottom	10.0	20.7 27.5 29.5	27.1	7.5	7.5	20.9 29.6 16.0	29.3	70.1	71.2	4.9	4.9	4.9	3.8 3.8 4.1	3.8		5.4 2.8	5.7	
18-Aug-17	Sunny	woderate	9.57		Surface	1.0	29.3 27.8 29.1	28.6	7.7	7.7	19.5 17.3	17.8	84.2 82.1	85.1	5.9 5.6	5.9	5.8	4.1	4.2		2.8 4.8	2.8	
				12.1	Middle	6.1	29.1 28.1 29.7	28.6	7.7	7.7	17.3	17.2	84.4 80.9	83.3	5.0 5.9 5.6	5.8		4.4 4.5 4.8	4.5	4.5	4.8 6.0 5.7	5.4	4.5
21-Aug-17	Sunny	Moderate	12:16			11.1	23.7 27.9 29.6	28.8	7.7	7.7	23.1 24.0 18.7	23.6	81.4 83.7	81.2	5.6 5.8	5.6	5.6	4.0	4.8		5.0 4.3	5.4	
21-Aug-17	Suriny	wouldtate	12.10		Surface	1.0	29.6 29.5 28.1	29.6	7.9 7.9 7.9	7.9	18.7 18.8 22.9	18.7	83.7 84.1 78.3	83.9	5.8 5.4	5.8	5.6	4.5 4.4 5.4	4.5		4.3 4.1 3.6	4.2	
				10.6	Middle	5.3	28.1 28.1 27.9	28.1	7.9 7.9 7.9	7.9	23.1 24.2	23.0	77.1	77.7	5.4 5.3 5.5	5.3		5.4 5.9	5.4	5.2	5.0 5.1 7.0	4.4	5.4
					Bottom	9.6	27.9	27.9	7.9 7.9	7.9	24.2	24.2	79.9 78.5	79.2	5.5 5.4	5.4	5.4	5.9	5.9		8.2	7.6	

## Water Quality Monitoring Results at IS10(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	15:14		Surface	1.1	28.3 28.3	28.3	7.6 7.6	7.6	22.3 22.4	22.4	77.1 77.7	77.4	5.3 5.3	5.3	5.0	8.6 8.8	8.7		6.8 6.4	6.6	
				10.8	Middle	5.4	27.6 27.6	27.6	7.7 7.6	7.7	24.7 24.8	24.8	75.0 74.5	74.8	5.2 5.1	5.1	5.2	9.5 9.3	9.4	9.4	8.7 8.1	8.4	8.1
					Bottom	9.8	27.1 27.0	27.0	7.7 7.7	7.7	27.5 27.4	27.5	73.8 74.3	74.1	5.1 5.1	5.1	5.1	10.1 9.9	10.0		9.7 8.7	9.2	
28-Aug-17	Rainy	Moderate	16:58		Surface	1.1	27.4 27.4	27.4	7.5 7.5	7.5	18.0 18.0	18.0	80.8 80.3	80.6	5.8 5.7	5.8	5.0	6.3 6.1	6.2		5.3 5.2	5.3	
				10.4	Middle	5.2	26.7 26.7	26.7	7.4 7.5	7.4	25.1 25.0	25.0	79.2 78.6	78.9	5.5 5.5	5.5	5.6	9.8 9.6	9.7	8.1	5.0 5.8	5.4	5.4
					Bottom	9.4	26.5 26.5	26.5	7.4 7.4	7.4	28.3 28.3	28.3	78.5 78.1	78.3	5.4 5.4	5.4	5.4	8.6 8.4	8.5		5.5 5.5	5.5	
30-Aug-17	Fine	Moderate	6:50		Surface	1.0	27.9 27.9	27.9	7.6 7.6	7.6	13.9 13.9	13.9	75.9 75.3	75.6	5.5 5.5	5.5	5.3	6.8 6.7	6.8		7.5 6.6	7.1	
				10.6	Middle	5.3	26.7 26.8	26.7	7.5 7.5	7.5	24.8 24.8	24.8	74.0 73.5	73.8	5.2 5.1	5.1	0.0	5.4 5.6	5.5	6.1	6.5 6.3	6.4	6.6
					Bottom	9.6	25.9 25.9	25.9	7.4 7.4	7.4	31.9 31.9	31.9	72.5 72.9	72.7	4.9 5.0	4.9	4.9	6.1 6.0	6.1		5.3 7.1	6.2	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS10(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:10		Surface	1.0	29.8 29.8	29.8	8.1 8.1	8.1	14.6 14.7	14.6	102.3 102.2	102.3	7.2 7.2	7.2	7.4	7.2 7.1	7.2		7.4 7.5	7.5	
				11.1	Middle	5.5	29.7 29.8	29.7	8.1 8.1	8.1	17.7 17.7	17.7	100.0 103.3	101.7	6.9 7.1	7.0	7.1	6.8 6.4	6.6	6.8	6.9 8.2	7.6	7.5
					Bottom	10.1	29.7 29.5	29.6	8.0 8.0	8.0	19.2 19.2	19.2	101.1 98.0	99.6	6.9 6.7	6.8	6.8	7.0	6.8		7.9	7.5	
4-Aug-17	Fine	Moderate	17:57		Surface	1.0	28.9 29.0	28.9	8.0 8.0	8.0	17.7	17.9	80.0 78.9	79.5	5.5 5.6	5.5		7.8 7.5	7.7		4.4 5.1	4.8	
				10.9	Middle	5.5	28.3 28.2	28.3	7.9 7.9	7.9	24.4	24.4	77.6	77.8	5.4 5.5	5.4	5.5	8.0 7.9	8.0	8.1	5.9 5.9	5.9	5.6
					Bottom	9.9	27.8 28.3	28.1	7.9 7.9	7.9	27.4 26.6	27.0	72.9	73.9	5.1 5.2	5.1	5.1	8.6 8.9	8.8		6.1 5.9	6.0	
7-Aug-17	Sunny	Moderate	6:10		Surface	1.0	29.3 28.9	29.1	7.9 7.9 7.9	7.9	18.8 19.7	19.3	74.6	74.4	5.3 5.2	5.3		6.5 6.3	6.4		9.0 9.2	9.1	
				10.9	Middle	5.5	28.4 28.4	28.4	7.8 7.8	7.8	24.6	24.7	74.3	74.5	5.3 5.3	5.3	5.3	6.5 6.6	6.6	6.6	12.8 12.7	12.8	11.9
					Bottom	9.9	28.3 28.4	28.4	7.9	7.8	25.1	25.1	74.7	74.7	5.3 5.3	5.3	5.3	7.0	6.8		13.8	13.7	
9-Aug-17	Cloudy	Moderate	7:27		Surface	1.0	29.5 29.4	29.4	7.9 7.9 7.9	7.9	19.0 20.3	19.7	82.4 82.6	82.5	5.6 5.6	5.6		8.3 8.2	8.3		6.6 5.3	6.0	
				12.3	Middle	6.1	29.1 29.4	29.3	7.9 7.9	7.9	21.4 20.3	20.9	81.1 80.6	80.9	5.6 5.5	5.5	5.6	8.5 8.4	8.5	8.5	6.5 6.9	6.7	5.9
					Bottom	11.3	29.2	29.2	7.9 7.9	7.9	20.9 22.6	21.7	79.1 79.6	79.4	5.4 5.4	5.4	5.4	8.7 8.8	8.8		5.1 5.1	5.1	
11-Aug-17	Cloudy	Moderate	8:50		Surface	1.0	28.8 28.9	28.9	7.9 7.8	7.9	21.1 21.0	21.1	77.3 77.3	77.3	5.6 5.6	5.6		5.3 5.6	5.5		4.5 5.1	4.8	
				10.7	Middle	5.3	28.6 28.5	28.5	7.9 7.9	7.9	21.6 21.7	21.6	76.0 77.2	76.6	5.5 5.5	5.5	5.5	5.8 5.5	5.7	6.1	7.3	6.8	6.2
					Bottom	9.7	28.3 28.2	28.3	7.9	7.9	24.7 24.8	24.8	78.8 76.8	77.8	5.7 5.5	5.6	5.6	7.2	7.1		6.2 7.9	7.1	
14-Aug-17	Sunny	Moderate	11:34		Surface	1.1	29.5 29.5	29.5	7.9 7.9	7.9	17.7 17.4	17.6	81.7 82.5	82.1	5.7 5.7	5.7		3.7 3.8	3.8		3.2 3.4	3.3	
				12.2	Middle	6.1	29.1 29.1	29.1	7.9 7.9	7.9	20.1 20.1	20.1	80.2 81.5	80.9	5.5 5.5	5.5	5.6	3.9 4.1	4.0	4.0	4.4 3.9	4.2	4.1
					Bottom	11.2	28.8 28.8	28.8	7.9 7.8	7.9	22.9 23.3	23.1	77.1 78.3	77.7	5.3 5.4	5.3	5.3	4.2 4.3	4.3		5.2 4.6	4.9	
16-Aug-17	Cloudy	Moderate	14:07		Surface	1.1	29.5 29.1	29.3	7.8 7.7	7.7	17.0 19.1	18.1	89.7 86.0	87.9	6.2 5.9	6.1	5.7	3.3 3.3	3.3		3.5 4.0	3.8	
				12.7	Middle	6.4	28.2 28.1	28.2	7.7 7.6	7.6	25.3 24.8	25.0	75.8 77.3	76.6	5.2 5.3	5.2	5.7	6.3 6.1	6.2	6.7	5.4 4.4	4.9	5.5
					Bottom	11.7	26.0 26.0	26.0	7.6 7.6	7.6	32.6 32.3	32.4	70.7 71.3	71.0	4.8 4.9	4.8	4.8	10.4 10.8	10.6		8.4 7.0	7.7	
18-Aug-17	Sunny	Moderate	17:31		Surface	1.1	30.3 30.4	30.3	8.0 8.0	8.0	14.5 13.7	14.1	112.4 115.7	114.1	7.8 8.1	7.9	7.8	3.6 3.5	3.6		3.0 2.8	2.9	
				12.2	Middle	6.1	30.1 30.1	30.1	8.1 8.0	8.0	14.5 15.3	14.9	110.4 110.0	110.2	7.6 7.6	7.6	1.0	3.8 3.8	3.8	3.8	3.7 3.3	3.5	3.0
					Bottom	11.2	29.6 28.7	29.2	8.0 8.0	8.0	19.5 22.2	20.8	105.7 108.5	107.1	7.3 7.4	7.4	7.4	4.0 4.0	4.0		2.2 3.0	2.6	
21-Aug-17	Sunny	Moderate	6:09		Surface	1.0	28.8 29.0	28.9	7.9 7.9	7.9	19.9 19.7	19.8	83.0 84.1	83.6	5.7 5.8	5.8	5.6	6.1 6.5	6.3		7.7 8.2	8.0	
				11.1	Middle	5.6	27.8 27.8	27.8	7.9 7.9	7.9	23.5 24.9	24.2	80.5 79.5	80.0	5.6 5.4	5.5	5.0	9.0 9.6	9.3	8.3	6.7 8.0	7.4	7.8
					Bottom	10.1	27.5 27.5	27.5	7.9 7.9	7.9	25.9 25.8	25.8	83.2 80.8	82.0	5.7 5.5	5.6	5.6	8.9 9.4	9.2		8.3 7.9	8.1	1

## Water Quality Monitoring Results at IS10(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	=
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:36		Surface	1.1	27.4 27.4	27.4	7.6 7.6	7.6	25.3 25.3	25.3	77.2 77.9	77.6	5.3 5.4	5.3	5.2	13.8 13.7	13.8		13.3 14.9	14.1	
				11.0	Middle	5.5	27.0 27.0	27.0	7.6 7.6	7.6	27.2 27.2	27.2	74.5 74.3	74.4	5.1 5.1	5.1	5.2	15.3 15.4	15.4	15.3	14.2 15.9	15.1	14.6
					Bottom	10.0	27.0 26.9	26.9	7.6 7.6	7.6	27.4 27.4	27.4	75.1 75.0	75.1	5.1 5.1	5.1	5.1	16.6 16.9	16.8		15.1 14.1	14.6	
28-Aug-17	Rainy	Moderate	10:54		Surface	1.1	27.2 27.2	27.2	7.6 7.6	7.6	20.0 20.1	20.1	84.1 83.7	83.9	6.0 5.9	6.0	5.8	5.9 5.6	5.8		8.0 6.9	7.5	
				10.8	Middle	5.4	26.6 26.6	26.6	7.5 7.5	7.5	25.2 25.2	25.2	80.3 81.8	81.1	5.6 5.7	5.6	5.0	7.0 6.8	6.9	6.8	8.4 10.2	9.3	8.5
					Bottom	9.8	26.3 26.3	26.3	7.5 7.5	7.5	29.0 29.0	29.0	79.9 80.0	80.0	5.5 5.5	5.5	5.5	7.7 7.5	7.6		8.2 9.1	8.7	
30-Aug-17	Fine	Moderate	15:20		Surface	1.1	28.9 28.9	28.9	7.6 7.6	7.6	13.4 13.5	13.4	80.0 82.2	81.1	5.7 5.9	5.8	5.6	5.5 5.6	5.6		6.8 7.1	7.0	
				10.8	Middle	5.4	26.8 26.8	26.8	7.5 7.5	7.5	26.0 26.0	26.0	76.7 76.3	76.5	5.3 5.3	5.3	5.0	7.5 7.5	7.5	7.1	6.3 7.3	6.8	6.8
					Bottom	9.8	26.0 26.0	26.0	7.4 7.5	7.5	31.5 31.5	31.5	74.6 74.4	74.5	5.1 5.1	5.1	5.1	8.3 8.3	8.3		6.0 7.1	6.6	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:26		Surface	1.0	29.7 29.5	29.6	7.8 7.8	7.8	16.6 16.5	16.5	93.0 84.7	88.9	6.3 5.9	6.1		3.3 3.3	3.3		4.5 5.9	5.2	
				10.6	Middle	5.3	29.2 29.1	29.1	7.8	7.8	20.0	20.0	81.7 85.2	83.5	5.7 5.9	5.8	5.9	3.0 3.1	3.1	3.2	4.2	4.3	4.9
					Bottom	9.6	29.1 29.3	29.2	7.8	7.8	22.3 22.1	22.2	83.2 78.5	80.9	5.7 5.4	5.5	5.5	3.2 3.0	3.1		5.1 5.4	5.3	
4-Aug-17	Fine	Moderate	10:48		Surface	1.0	28.7 28.7	28.7	8.0 8.0	8.0	19.5 19.6	19.6	80.4 79.2	79.8	5.8	5.8		7.7	7.9		4.6	4.6	
				10.6	Middle	5.3	28.7 28.2 28.1	28.1	7.9 7.9 7.9	7.9	25.6 25.8	25.7	79.2 75.3 71.8	73.6	5.7 5.4 5.3	5.4	5.6	8.0 8.5 8.3	8.4	8.8	4.5 4.5 5.5	5.0	5.8
					Bottom	9.6	28.3 27.9	28.1	7.9	7.9	26.7 27.1	26.9	70.3	70.4	5.2 5.1	5.2	5.2	10.0 10.5	10.3		7.1 8.6	7.9	
7-Aug-17	Sunny	Moderate	12:39		Surface	1.0	29.3	29.3	7.9	7.9	18.8	19.9	74.3 74.3	74.3	5.4	5.4		6.6	6.7		6.9	7.2	
				10.3	Middle	5.2	29.3 27.8 27.7	27.7	7.9 7.9 7.9	7.9	21.0 27.3 26.8	27.1	74.3 74.1 74.6	74.4	5.4 5.3 5.4	5.3	5.4	6.7 7.4 7.2	7.3	7.1	7.4 6.9 6.5	6.7	6.8
					Bottom	9.3	27.6 27.8	27.7	7.9 7.9 7.9	7.9	28.0 27.5	27.8	74.5	74.7	5.4 5.3	5.4	5.4	7.2 7.4	7.3		6.0 6.8	6.4	
9-Aug-17	Cloudy	Moderate	13:53		Surface	1.1	29.5 29.5	29.5	7.9 8.0	8.0	20.7 20.7	20.7	88.5 88.7	88.6	6.0 6.0	6.0		11.7 11.8	11.8		5.7 5.5	5.6	
				10.5	Middle	5.3	29.3 29.2 29.4	29.3	7.9	8.0	20.7 20.8 20.9	20.8	85.5 84.2	84.9	5.8 5.7	5.8	5.9	12.0	12.1	12.1	5.4 4.5	5.0	5.7
					Bottom	9.5	29.3 29.4	29.3	8.0 8.0	8.0	21.1	21.4	80.1 80.4	80.3	5.5 5.5	5.5	5.5	12.4	12.4		7.0	6.6	
11-Aug-17	Cloudy	Moderate	14:55		Surface	1.0	29.2 29.2 29.4	29.3	8.0 8.0	8.0	21.0 20.9	21.0	78.1 77.3	77.7	5.7 5.6	5.6		5.7	5.8		6.3 7.3	6.8	
				10.6	Middle	5.3	28.5 28.6	28.6	8.0 7.9	7.9	23.1 23.1	23.1	75.3 76.2	75.8	5.4 5.5	5.5	5.6	9.0 9.0	9.0	7.8	8.8 7.5	8.2	7.6
					Bottom	9.6	28.8 28.5	28.6	7.9 8.0	8.0	23.2 23.4	23.3	77.3	76.9	5.6 5.5	5.5	5.5	8.3 8.6	8.5		7.6 7.8	7.7	
14-Aug-17	Sunny	Moderate	17:06		Surface	1.1	29.5 29.7	29.6	7.8 7.8	7.8	17.3 17.5	17.4	87.4 89.1	88.3	6.0 6.1	6.0		3.3 3.2	3.3		3.5 3.1	3.3	
				10.7	Middle	5.3	29.5 29.4	29.4	7.8	7.8	18.8 18.6	18.7	85.9 86.6	86.3	6.0 6.0	6.0	6.0	3.5 3.6	3.6	3.5	3.7 3.4	3.6	3.7
					Bottom	9.7	29.3 29.3	29.3	7.8 7.7	7.8	20.0 20.2	20.1	85.7 86.1	85.9	5.9 5.9	5.9	5.9	3.8 3.7	3.8		3.7 4.5	4.1	
16-Aug-17	Cloudy	Moderate	7:17		Surface	1.1	29.6 29.5	29.5	7.7 7.7	7.7	13.9 14.5	14.2	86.5 85.4	86.0	6.1 6.0	6.1		2.7 2.7	2.7		4.7 3.9	4.3	
				10.8	Middle	5.4	29.3 29.2	29.3	7.7 7.7	7.7	17.3 17.0	17.2	77.2 79.1	78.2	5.4 5.5	5.4	5.8	3.6 3.5	3.6	3.4	4.0 4.9	4.5	4.4
					Bottom	9.8	28.5 28.4	28.5	7.6 7.6	7.6	22.0 25.0	23.5	75.1 73.9	74.5	5.2 5.0	5.1	5.1	3.8 3.9	3.9		4.3 4.7	4.5	
18-Aug-17	Sunny	Moderate	9:41		Surface	1.1	29.7 29.7	29.7	7.7 7.7	7.7	15.2 15.0	15.1	87.7 85.7	86.7	6.1 6.0	6.1	5.0	3.2 3.1	3.2		5.2 5.1	5.2	
				10.8	Middle	5.4	29.4 29.4	29.4	7.7 7.7	7.7	16.2 15.4	15.8	81.3 81.7	81.5	5.6 5.7	5.7	5.9	3.5 3.4	3.5	3.5	4.1 4.3	4.2	4.9
					Bottom	9.8	28.9 28.2	28.5	7.7 7.6	7.7	21.8 23.4	22.6	76.2 77.5	76.9	5.4 5.4	5.4	5.4	3.8 3.7	3.8		5.4 5.0	5.2	
21-Aug-17	Sunny	Moderate	12:25		Surface	1.0	29.3 29.1	29.2	8.0 8.0	8.0	18.9 19.7	19.3	84.1 83.2	83.7	5.8 5.7	5.8	5.6	4.2 4.4	4.3		4.3 5.7	5.0	
				10.5	Middle	5.3	28.1 28.1	28.1	7.9 7.9	7.9	22.9 23.0	22.9	80.1 78.6	79.4	5.5 5.4	5.5	5.0	5.4 5.1	5.3	5.1	8.6 8.0	8.3	7.2
					Bottom	9.5	28.0 28.0	28.0	7.9	7.9	24.2 24.1	24.1	82.0 80.6	81.3	5.6 5.5	5.6	5.6	5.9 5.6	5.8		8.7 7.9	8.3	

## Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplin	ıg	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	15:21		Surface	1.1	27.9 28.0	28.0	7.6 7.6	7.6	22.6 22.7	22.7	77.0 76.6	76.8	5.3 5.3	5.3	5.3	8.8 8.9	8.9		6.4 6.6	6.5	
				10.4	Middle	5.2	27.7 27.7	27.7	7.6 7.6	7.6	24.8 24.8	24.8	77.2 77.4	77.3	5.3 5.3	5.3	5.5	10.2 9.8	10.0	10.2	7.5 6.3	6.9	6.8
					Bottom	9.4	27.4 27.4	27.4	7.7 7.7	7.7	25.7 25.8	25.8	77.2 76.6	76.9	5.3 5.2	5.3	5.3	11.5 11.8	11.7		6.8 7.3	7.1	
28-Aug-17	Rainy	Moderate	17:06		Surface	1.0	27.4 27.5	27.5	7.5 7.5	7.5	18.7 18.6	18.7	78.8 78.0	78.4	5.6 5.6	5.6	5.6	6.2 6.5	6.4		7.0 6.9	7.0	
				10.6	Middle	5.3	27.2 27.2	27.2	7.5 7.5	7.5	20.6 20.7	20.6	78.2 78.8	78.5	5.5 5.6	5.6	5.0	7.5 7.8	7.7	7.4	6.3 6.8	6.6	6.4
					Bottom	9.6	26.4 26.4	26.4	7.5 7.5	7.5	28.9 28.9	28.9	79.0 79.1	79.1	5.4 5.4	5.4	5.4	8.0 8.1	8.1		5.6 5.8	5.7	
30-Aug-17	Fine	Moderate	6:40		Surface	1.0	28.1 28.2	28.1	7.6 7.6	7.6	14.2 14.1	14.1	76.6 76.1	76.4	5.5 5.5	5.5	5.4	6.1 6.1	6.1		5.6 6.7	6.2	
				10.4	Middle	5.2	27.8 27.3	27.5	7.6 7.5	7.6	22.6 22.7	22.6	73.3 74.0	73.7	5.2 5.2	5.2	3.4	5.7 5.1	5.4	6.0	6.8 7.5	7.2	6.8
					Bottom	9.4	26.0 25.9	26.0	7.5 7.5	7.5	31.5 31.5	31.5	70.9 71.2	71.1	4.8 4.8	4.8	4.8	6.3 6.6	6.5		6.6 7.3	7.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:20		Surface	1.0	29.7 29.7	29.7	8.1 8.1	8.1	17.6 17.6	17.6	102.2 100.6	101.4	7.0 6.9	7.0	6.8	6.2 6.1	6.2		4.4 4.6	4.5	
				10.6	Middle	5.3	29.4 29.4	29.4	8.0 8.0	8.0	19.0 18.9	19.0	97.3 98.0	97.7	6.7 6.8	6.7	0.0	6.4 6.6	6.5	6.4	5.7 5.0	5.4	5.2
					Bottom	9.6	29.6 29.4	29.5	8.0 8.0	8.0	20.4 21.1	20.7	92.3 97.4	94.9	6.4 6.6	6.5	6.5	6.3 6.5	6.4		5.4 5.9	5.7	
4-Aug-17	Fine	Moderate	18:05		Surface	1.0	29.3 29.3	29.3	8.0 8.0	8.0	16.6 17.2	16.9	93.2 90.6	91.9	6.5 6.3	6.4		7.8 7.3	7.6		5.6 4.8	5.2	
				10.6	Middle	5.3	28.4 28.5	28.5	7.9 7.9	7.9	23.4 23.6	23.5	89.2 89.3	89.3	6.3 6.3	6.3	6.4	8.9 8.6	8.8	9.2	5.9 5.0	5.5	5.5
					Bottom	9.6	28.4 28.3	28.3	7.9	7.9	24.0 24.3	24.1	84.2 80.7	82.5	5.8 5.6	5.7	5.7	11.5 11.2	11.4		6.0 5.5	5.8	
7-Aug-17	Sunny	Moderate	6:01		Surface	1.0	29.3 29.3	29.3	7.8 7.8	7.8	21.1 21.1	21.1	73.4 74.8	74.1	5.2 5.3	5.2		5.9 5.7	5.8		5.5 6.9	6.2	
				10.5	Middle	5.3	28.6 28.7	28.7	7.8 7.8	7.8	23.0 23.8	23.4	74.0 74.4	74.2	5.2 5.3	5.3	5.3	7.0	6.9	6.4	8.3 8.4	8.4	9.4
					Bottom	9.5	28.0 27.6	27.8	7.8	7.8	28.2 28.4	28.3	74.3 74.5	74.4	5.3 5.3	5.3	5.3	6.2 6.6	6.4		13.2 14.0	13.6	
9-Aug-17	Cloudy	Moderate	7:15		Surface	1.0	29.0 29.1	29.0	7.9 7.9	7.9	22.4 21.7	22.0	76.6 76.2	76.4	5.2 5.2	5.2		6.4 6.3	6.4		5.1 5.4	5.3	
				10.7	Middle	5.3	29.0 28.9	29.0	7.9	7.9	22.5 22.7	22.6	75.7 75.4	75.6	5.2 5.1	5.1	5.2	6.6 6.5	6.6	6.6	6.7 6.8	6.8	6.0
					Bottom	9.7	28.9 29.0	29.0	7.9 7.9	7.9	23.0 22.5	22.7	75.3 75.4	75.4	5.1 5.1	5.1	5.1	6.8 6.9	6.9		6.4 5.4	5.9	
11-Aug-17	Cloudy	Moderate	8:41		Surface	1.0	28.9 28.7	28.8	7.8 7.8	7.8	20.6 20.3	20.4	75.3 74.1	74.7	5.4 5.3	5.4	5.4	12.3 13.1	12.7		4.7 3.3	4.0	
				10.5	Middle	5.2	27.9 28.1	28.0	7.8 7.8	7.8	25.7 25.1	25.4	74.0 73.8	73.9	5.3 5.3	5.3	5.4	15.5 15.7	15.6	14.5	5.0 4.4	4.7	5.7
					Bottom	9.5	27.9 28.4	28.1	7.8 7.8	7.8	25.8 25.2	25.5	75.2 74.5	74.9	5.4 5.3	5.4	5.4	14.9 15.3	15.1		8.0 8.6	8.3	
14-Aug-17	Sunny	Moderate	11:24		Surface	1.0	29.4 29.6	29.5	7.8 7.9	7.8	19.7 16.5	18.1	85.9 87.7	86.8	6.0 6.1	6.0	5.9	2.9 3.1	3.0		6.0 5.3	5.7	
				10.7	Middle	5.4	29.6 29.4	29.5	7.8 7.8	7.8	16.9 18.6	17.7	84.5 85.5	85.0	5.8 5.9	5.8	5.9	3.1 3.1	3.1	3.1	5.8 5.6	5.7	5.7
					Bottom	9.7	29.2 29.5	29.3	7.9 7.8	7.8	20.1 18.8	19.4	83.5 83.6	83.6	5.7 5.8	5.8	5.8	3.3 3.3	3.3		5.9 5.4	5.7	
16-Aug-17	Cloudy	Moderate	14:18		Surface	1.1	29.7 29.7	29.7	7.8 7.8	7.8	15.8 15.6	15.7	95.7 94.9	95.3	6.7 6.6	6.6	6.0	2.6 2.6	2.6		3.4 2.7	3.1	
				12.1	Middle	6.0	28.2 28.3	28.2	7.7 7.7	7.7	23.5 24.6	24.0	75.9 77.5	76.7	5.2 5.3	5.3	0.0	7.4 7.5	7.5	10.7	3.6 4.3	4.0	7.1
					Bottom	11.1	26.5 26.2	26.4	7.6 7.6	7.6	30.6 31.1	30.9	71.8 70.8	71.3	5.0 4.8	4.9	4.9	21.5 22.8	22.2		13.7 15.1	14.4	
18-Aug-17	Sunny	Moderate	17:42		Surface	1.1	30.3 30.4	30.4	8.0 8.0	8.0	14.2 13.8	14.0	102.6 102.0	102.3	7.1 7.1	7.1	7.0	3.5 3.6	3.6		4.3 3.3	3.8	
				10.9	Middle	5.4	29.6 29.7	29.6	7.9 8.0	8.0	17.2 16.3	16.8	100.7 99.7	100.2	6.9 6.9	6.9		3.7 3.8	3.8	3.8	3.5 3.7	3.6	3.7
					Bottom	9.9	29.3 28.8	29.1	7.9 7.9	7.9	19.0 20.2	19.6	97.5 96.7	97.1	6.8 6.7	6.7	6.7	3.9 4.0	4.0		3.8 3.8	3.8	
21-Aug-17	Sunny	Moderate	6:01		Surface	1.0	29.0 28.8	28.9	8.0 8.0	8.0	19.6 19.7	19.6	88.9 88.5	88.7	6.1 6.0	6.1	6.0	4.8 5.1	5.0		5.7 5.4	5.6	
				10.6	Middle	5.3	28.0 28.0	28.0	7.9 7.9	7.9	24.1 24.3	24.2	85.6 87.2	86.4	5.9 6.0	5.9	0.0	5.7 6.0	5.9	5.7	5.5 4.4	5.0	5.9
					Bottom	9.6	28.4 27.8	28.1	7.9 7.9	7.9	24.1 24.7	24.4	82.5 83.7	83.1	5.7 5.7	5.7	5.7	6.0 6.3	6.2		7.5 7.0	7.3	

## Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:29		Surface	1.0	27.6 27.6	27.6	7.6 7.6	7.6	24.5 24.5	24.5	76.6 75.6	76.1	5.3 5.2	5.2	5.2	12.8 13.0	12.9		15.9 15.0	15.5	
				10.6	Middle	5.3	27.4 27.4	27.4	7.6 7.6	7.6	24.8 24.8	24.8	76.0 76.2	76.1	5.2 5.2	5.2	5.2	14.5 14.8	14.7	14.9	16.3 17.1	16.7	16.1
					Bottom	9.6	27.2 27.2	27.2	7.6 7.6	7.6	26.1 26.3	26.2	78.0 78.1	78.1	5.3 5.4	5.3	5.3	17.3 16.8	17.1	<u> </u>	16.0 16.2	16.1	
28-Aug-17	Rainy	Moderate	10:48		Surface	1.0	27.1 27.2	27.1	7.5 7.5	7.5	19.9 19.9	19.9	83.6 84.7	84.2	6.0 6.0	6.0	5.9	5.5 5.6	5.6		7.0 8.6	7.8	
				10.6	Middle	5.3	26.8 26.8	26.8	7.4 7.5	7.5	23.2 23.2	23.2	82.0 83.0	82.5	5.8 5.8	5.8	5.8	6.8 6.5	6.7	6.6	7.8 9.3	8.6	8.6
					Bottom	9.6	26.3 26.4	26.3	7.5 7.5	7.5	28.8 28.8	28.8	80.9 80.2	80.6	5.6 5.5	5.5	5.5	7.7 7.3	7.5	<u> </u>	10.2 8.6	9.4	
30-Aug-17	Fine	Moderate	15:29		Surface	1.1	28.8 28.9	28.9	7.6 7.6	7.6	14.0 14.1	14.1	84.4 84.3	84.4	6.0 6.0	6.0	5.7	5.2 5.3	5.3		5.8 4.6	5.2	
				10.8	Middle	5.4	26.8 26.9	26.9	7.5 7.5	7.5	25.6 25.6	25.6	76.6 76.1	76.4	5.3 5.3	5.3	5.7	6.1 5.9	6.0	6.1	6.4 4.7	5.6	5.5
					Bottom	9.8	26.0 25.9	26.0	7.5 7.4	7.5	31.8 31.8	31.8	75.4 75.7	75.6	5.1 5.1	5.1	5.1	6.9 7.2	7.1		4.6 6.6	5.6	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:49		Surface	1.0	30.2 30.1	30.1	8.4 8.4	8.4	18.3 18.3	18.3	107.1 109.0	108.1	7.3 7.4	7.4		6.0 6.2	6.1		4.4 5.1	4.8	
				6.2	Middle	3.1	29.7 29.8	29.8	8.3 8.3	8.3	19.4 19.4	19.4	103.7 99.7	101.7	7.1 6.8	6.9	7.2	6.1 6.2	6.2	6.1	5.4 5.3	5.4	5.6
					Bottom	5.2	29.7 29.4	29.6	8.4 8.2	8.3	20.5	20.9	88.6 86.4	87.5	6.0 5.9	6.0	6.0	6.2 6.0	6.1		6.4 6.8	6.6	
4-Aug-17	Fine	Moderate	11:28		Surface	1.0	29.0 29.2	29.1	8.2 8.2	8.2	20.6 20.4	20.5	76.7 75.3	76.0	5.3 5.3	5.3		11.4 11.5	11.5		5.0 6.5	5.8	
				6.1	Middle	3.1	28.8 28.7	28.7	8.2 8.2	8.2	22.0 22.2	22.1	72.5	73.3	5.0 5.2	5.1	5.2	11.2 11.2	11.2	11.3	5.4 5.4	5.4	6.1
					Bottom	5.1	28.2 28.6	28.4	8.1 8.1	8.1	25.6 25.7	25.7	70.7	72.1	5.0 5.2	5.1	5.1	11.1	11.3		6.6 7.4	7.0	
7-Aug-17	Sunny	Moderate	12:26		Surface	1.1	29.1 29.5	29.3	8.2 8.2	8.2	22.7 22.4	22.5	77.8	79.1	5.3 5.4	5.3		4.5	4.5		11.3 11.2	11.3	
				6.0	Middle	3.0	28.6 29.0	28.8	8.2 8.2	8.2	23.7	23.7	74.9 74.5	74.7	5.1 5.0	5.1	5.2	4.4	4.4	4.4	13.6 12.5	13.1	12.3
					Bottom	5.0	28.4 28.3	28.3	8.2 8.2	8.2	25.9 25.9	25.9	73.2	72.7	5.0 4.9	4.9	4.9	4.3	4.4		12.0	12.5	
9-Aug-17	Cloudy	Moderate	13:22		Surface	1.1	29.6 29.4	29.5	8.2 8.2	8.2	21.3 21.5	21.4	81.3 79.1	80.2	5.5 5.4	5.4		7.1	7.1		4.6	4.2	
				7.0	Middle	3.5	28.8 28.8	28.8	8.1 8.2	8.2	22.6 22.7	22.6	76.2	76.7	5.2 5.2	5.2	5.3	7.1	7.1	7.1	6.2 5.4	5.8	5.3
					Bottom	6.0	28.0 28.0	28.0	8.1 8.2	8.2	25.6 25.5	25.6	74.2 74.6	74.4	5.1 5.1	5.1	5.1	7.2 7.1	7.2		5.0 6.6	5.8	
11-Aug-17	Cloudy	Moderate	14:46		Surface	1.1	29.6 29.6	29.6	8.1 8.1	8.1	21.0 21.1	21.0	82.4 80.3	81.4	5.6 5.5	5.5	5.5	4.6 4.5	4.6		4.7 5.4	5.1	
				6.2	Middle	3.1	29.4 29.3	29.4	8.1 8.1	8.1	21.2 21.1	21.1	79.8 80.5	80.2	5.4 5.5	5.4	5.5	4.4 4.4	4.4	4.5	8.4 8.7	8.6	7.4
					Bottom	5.2	29.5 28.9	29.2	8.1 8.1	8.1	21.2 22.2	21.7	79.3 79.9	79.6	5.4 5.4	5.4	5.4	4.4 4.4	4.4		8.4 8.6	8.5	
14-Aug-17	Sunny	Moderate	16:49		Surface	1.1	29.5 29.8	29.6	8.2 8.2	8.2	20.6 20.5	20.6	87.0 81.7	84.4	5.9 5.5	5.7	5.6	2.0 2.2	2.1		6.4 6.9	6.7	
				6.1	Middle	3.1	28.9 28.8	28.8	8.2 8.2	8.2	21.8 21.8	21.8	83.6 80.1	81.9	5.7 5.4	5.6	5.0	2.2 2.2	2.2	2.2	5.5 6.4	6.0	6.4
					Bottom	5.1	28.4 28.4	28.4	8.1 8.2	8.2	24.9 24.7	24.8	78.1 82.4	80.3	5.4 5.6	5.5	5.5	2.2 2.1	2.2		6.6 6.6	6.6	<u> </u>
16-Aug-17	Cloudy	Moderate	8:05		Surface	1.0	29.7 29.7	29.7	8.2 8.2	8.2	17.7 17.6	17.7	91.5 92.2	91.9	6.3 6.4	6.3	6.2	2.9 2.8	2.9		4.2 3.8	4.0	
				6.2	Middle	3.1	29.8 29.7	29.8	8.2 8.2	8.2	20.0 19.4	19.7	90.2 87.8	89.0	6.1 6.0	6.1	0.2	3.8 3.6	3.7	3.5	5.6 6.4	6.0	5.4
					Bottom	5.2	29.8 29.2	29.5	8.2 8.1	8.1	21.8 21.8	21.8	90.9 87.9	89.4	6.1 6.0	6.1	6.1	4.0 3.6	3.8		6.1 6.5	6.3	<u> </u>
18-Aug-17	Sunny	Moderate	10:28		Surface	1.0	29.9 30.2	30.1	8.3 8.3	8.3	19.9 19.6	19.7	98.6 100.4	99.5	6.7 6.8	6.7	6.2	6.6 6.6	6.6		3.0 2.4	2.7	1
				6.1	Middle	3.0	29.1 29.2	29.2	8.2 8.2	8.2	21.7 21.4	21.5	81.1 84.7	82.9	5.5 5.8	5.6	-	6.5 6.5	6.5	6.6	6.8 6.6	6.7	5.0
					Bottom	5.1	28.0 27.4	27.7	8.2 8.1	8.2	26.3 28.3	27.3	80.6 76.4	78.5	5.5 5.2	5.3	5.3	6.7 6.4	6.6		5.8 5.2	5.5	<u> </u>
21-Aug-17	Sunny	Moderate	11:46		Surface	1.0	29.1 29.0	29.0	8.4 8.4	8.4	22.0 22.8	22.4	90.8 92.4	91.6	6.2 6.3	6.2	5.9	5.0 4.9	5.0		9.4 8.5	9.0	l
				7.1	Middle	3.5	28.1 28.1	28.1	8.3 8.3	8.3	25.3 25.3	25.3	82.5 82.4	82.5	5.6 5.6	5.6		4.9 5.0	5.0	5.0	12.0 12.0	12.0	10.9
					Bottom	6.1	26.5 26.6	26.5	8.3 8.3	8.3	31.2 31.1	31.1	77.9 82.0	80.0	5.3 5.6	5.4	5.4	5.3 5.0	5.2		11.5 11.9	11.7	<u> </u>

## Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	15:04		Surface	1.1	27.4 27.6	27.5	8.1 8.1	8.1	27.2 26.5	26.8	76.6 80.5	78.6	5.2 5.5	5.3	5.2	7.1 7.0	7.1		6.0 5.2	5.6	
				6.1	Middle	3.0	27.2 27.2	27.2	8.1 8.1	8.1	27.7 27.7	27.7	78.4 75.1	76.8	5.3 5.1	5.2	5.3	7.1 7.1	7.1	7.1	11.3 11.4	11.4	9.8
					Bottom	5.1	26.9 27.3	27.1	8.1 8.1	8.1	29.0 28.8	28.9	74.8 74.2	74.5	5.1 5.1	5.1	5.1	7.4 7.0	7.2		12.2 12.6	12.4	L
28-Aug-17	Rainy	Moderate	16:57		Surface	1.1	26.7 26.7	26.7	8.1 8.1	8.1	24.2 24.3	24.2	89.2 83.8	86.5	6.2 5.8	6.0	5.0	6.2 6.1	6.2		6.5 6.3	6.4	
				6.1	Middle	3.1	26.6 26.6	26.6	8.1 8.1	8.1	24.6 25.3	25.0	83.5 83.6	83.6	5.8 5.8	5.8	5.9	6.3 6.2	6.3	6.2	8.4 8.2	8.3	7.3
					Bottom	5.1	26.5 26.6	26.6	8.1 8.1	8.1	27.1 26.6	26.8	83.2 82.3	82.8	5.8 5.8	5.8	5.8	6.2 6.4	6.3		7.1 7.4	7.3	
30-Aug-17	Fine	Moderate	7:01		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	20.1 20.0	20.0	80.4 84.9	82.7	5.6 6.0	5.8	5.7	3.7 3.8	3.8		5.4 6.2	5.8	
				5.9	Middle	2.9	27.7 27.7	27.7	8.0 8.0	8.0	20.7 21.0	20.9	79.9 81.8	80.9	5.5 5.7	5.6	5.7	3.9 4.1	4.0	4.0	4.9 5.7	5.3	5.6
					Bottom	4.9	27.1 27.5	27.3	8.0 8.0	8.0	22.5 24.2	23.3	81.1 79.1	80.1	5.7 5.5	5.6	5.6	4.1 4.1	4.1		5.2 5.9	5.6	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	iration (%)	Dissol	/ed Oxygen	(mg/L)	Т	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:16		Surface	1.1	29.9 29.9	29.9	8.4 8.4	8.4	18.5 18.5	18.5	106.8 106.0	106.4	7.3 7.3	7.3	7.2	7.2 7.0	7.1		4.6 3.6	4.1	
				6.3	Middle	3.2	29.8 29.8	29.8	8.4 8.3	8.4	19.5 19.5	19.5	103.8 103.3	103.6	7.1 7.1	7.1	1.2	8.2 8.5	8.4	8.0	8.3 7.7	8.0	6.7
					Bottom	5.3	29.8 29.7	29.7	8.4 8.3	8.4	19.9 20.0	19.9	96.7 96.6	96.7	6.6 6.6	6.6	6.6	8.4 8.5	8.5		8.9 7.2	8.1	
4-Aug-17	Fine	Moderate	17:56		Surface	1.2	29.1 29.1	29.1	8.2 8.2	8.2	21.1 20.6	20.8	76.2 82.9	79.6	5.2 5.6	5.4		6.4 6.5	6.5		4.2 5.5	4.9	
				6.3	Middle	3.1	28.7 28.8	28.7	8.2 8.2	8.2	21.8 22.3	22.1	76.1 74.9	75.5	5.2 5.1	5.2	5.3	6.6 6.5	6.6	6.5	6.0 5.0	5.5	5.5
					Bottom	5.3	28.5 29.0	28.8	8.2 8.2	8.2	23.8 23.4	23.6	75.8 73.5	74.7	5.2 5.0	5.1	5.1	6.5 6.6	6.6		5.7 6.5	6.1	
7-Aug-17	Sunny	Moderate	6:06		Surface	1.1	28.7 28.7	28.7	8.1 8.1	8.1	24.0 23.9	23.9	74.4 74.9	74.7	5.1 5.2	5.1		7.6 7.8	7.7		9.8 9.6	9.7	
				6.3	Middle	3.2	27.9 28.3	28.1	8.1 8.1	8.1	26.5 25.7	26.1	73.3 73.2	73.3	5.0 5.0	5.0	5.1	8.6 8.6	8.6	8.3	13.8 12.4	13.1	12.2
					Bottom	5.3	28.1 27.6	27.8	8.1 8.1	8.1	27.2 27.8	27.5	72.9 72.6	72.8	5.0 5.0	5.0	5.0	8.5 8.6	8.6		13.9 13.4	13.7	
9-Aug-17	Cloudy	Moderate	7:30		Surface	1.1	29.4 29.4	29.4	8.1 8.1	8.1	20.4 20.3	20.3	81.0 80.6	80.8	5.5 5.5	5.5	5.4	4.4 4.5	4.5		3.4 3.8	3.6	
				7.1	Middle	3.5	28.7 28.7	28.7	8.1 8.1	8.1	23.4 23.5	23.5	77.5 78.7	78.1	5.3 5.3	5.3	5.4	4.5 4.6	4.6	4.5	4.6 3.1	3.9	4.0
					Bottom	6.1	28.4 28.3	28.4	8.1 8.1	8.1	24.7 25.0	24.9	73.2 74.8	74.0	5.0 5.1	5.0	5.0	4.6 4.5	4.6		5.5 3.7	4.6	
11-Aug-17	Cloudy	Moderate	8:46		Surface	1.2	28.9 28.9	28.9	8.0 8.0	8.0	21.3 21.1	21.2	77.4 78.3	77.9	5.4 5.5	5.4	5.4	3.7 3.5	3.6		5.2 6.6	5.9	
				6.1	Middle	3.0	28.8 28.8	28.8	8.0 8.0	8.0	21.5 21.5	21.5	77.7 76.9	77.3	5.4 5.4	5.4	5.4	3.7 3.6	3.7	3.6	6.7 5.0	5.9	5.9
					Bottom	5.1	28.9 28.7	28.8	8.0 8.0	8.0	21.6 21.8	21.7	77.6 76.8	77.2	5.4 5.4	5.4	5.4	3.6 3.7	3.7		6.2 5.7	6.0	
14-Aug-17	Sunny	Moderate	11:46		Surface	1.2	29.3 29.6	29.4	8.1 8.1	8.1	21.3 21.3	21.3	82.3 79.6	81.0	5.6 5.4	5.5	5.4	4.6 4.7	4.7		4.6 3.0	3.8	
				6.2	Middle	3.1	28.9 28.8	28.9	8.1 8.1	8.1	23.1 23.8	23.5	78.6 79.0	78.8	5.3 5.4	5.3	5.4	4.6 4.8	4.7	4.7	5.4 4.5	5.0	4.6
					Bottom	5.2	28.9 28.7	28.8	8.1 8.1	8.1	24.2 24.1	24.1	77.4 78.5	78.0	5.3 5.3	5.3	5.3	4.9 4.8	4.9		5.2 4.8	5.0	
16-Aug-17	Cloudy	Moderate	14:09		Surface	1.0	29.8 29.6	29.7	8.3 8.2	8.3	19.2 19.2	19.2	93.5 91.1	92.3	6.4 6.2	6.3	6.2	2.9 3.2	3.1		3.7 3.0	3.4	
				6.2	Middle	3.1	29.1 29.1	29.1	8.2 8.2	8.2	21.3 20.9	21.1	90.9 89.9	90.4	6.1 6.1	6.1	0.2	5.5 5.8	5.7	5.1	2.4 2.6	2.5	2.9
					Bottom	5.2	28.5 28.9	28.7	8.2 8.2	8.2	24.0 23.9	23.9	87.0 88.1	87.6	6.0 6.0	6.0	6.0	6.6 6.3	6.5		3.5 2.2	2.9	
18-Aug-17	Sunny	Moderate	16:48		Surface	1.2	29.8 30.0	29.9	8.4 8.4	8.4	17.9 17.6	17.8	110.0 104.6	107.3	7.4 7.2	7.3	7.1	6.4 6.2	6.3		4.7 3.4	4.1	
				6.0	Middle	3.0	28.9 28.9	28.9	8.3 8.3	8.3	21.5 21.5	21.5	108.3 94.4	101.4	7.4 6.4	6.9	7.1	8.4 8.5	8.5	7.9	5.2 5.9	5.6	5.2
					Bottom	5.0	27.9 27.8	27.9	8.3 8.2	8.3	27.5 27.8	27.6	100.3 88.6	94.5	6.9 6.1	6.5	6.5	8.7 8.9	8.8		6.9 5.1	6.0	<u> </u>
21-Aug-17	Sunny	Moderate	6:07		Surface	1.0	28.6 28.7	28.7	8.3 8.3	8.3	23.3 23.1	23.2	86.5 85.9	86.2	5.9 5.8	5.9	5.7	2.8 2.9	2.9		7.7 6.5	7.1	
				7.1	Middle	3.5	27.5 27.5	27.5	8.3 8.3	8.3	26.4 26.9	26.6	78.2 81.7	80.0	5.3 5.6	5.4	5.7	3.1 3.0	3.1	3.0	10.5 9.8	10.2	9.2
					Bottom	6.1	26.5 26.5	26.5	8.3 8.3	8.3	30.9 30.9	30.9	78.6 75.7	77.2	5.3 5.1	5.2	5.2	3.0 3.1	3.1		10.6 10.3	10.5	

## Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:40		Surface	1.1	27.7 27.7	27.7	8.1 8.1	8.1	26.0 26.1	26.0	77.6 81.7	79.7	5.3 5.5	5.4	5.4	5.8 5.8	5.8		7.6 8.6	8.1	
				6.0	Middle	3.0	27.6 27.6	27.6	8.1 8.1	8.1	26.2 26.2	26.2	80.0 77.5	78.8	5.5 5.3	5.4	5.4	5.7 5.9	5.8	5.8	11.2 10.0	10.6	9.5
					Bottom	5.0	27.5 27.4	27.4	8.1 8.1	8.1	27.6 27.5	27.6	77.2 79.0	78.1	5.3 5.4	5.3	5.3	5.9 5.8	5.9		9.7 9.6	9.7	
28-Aug-17	Rainy	Moderate	11:00		Surface	1.1	26.6 26.6	26.6	8.1 8.1	8.1	25.7 25.8	25.7	91.2 83.7	87.5	6.3 5.8	6.0	5.9	9.6 9.3	9.5		5.7 4.8	5.3	
				6.0	Middle	3.0	26.6 26.6	26.6	8.1 8.1	8.1	26.4 26.4	26.4	86.6 82.3	84.5	6.0 5.7	5.9	5.9	11.1 11.3	11.2	10.7	7.2 6.8	7.0	7.0
					Bottom	5.0	26.6 26.6	26.6	8.1 8.1	8.1	27.1 27.2	27.1	82.2 85.0	83.6	5.7 5.9	5.8	5.8	11.5 11.2	11.4		9.4 8.2	8.8	
30-Aug-17	Fine	Moderate	14:35		Surface	1.1	28.1 29.0	28.5	8.0 8.0	8.0	19.6 19.0	19.3	78.6 78.8	78.7	5.5 5.5	5.5	5.4	11.4 11.1	11.3		3.4 3.7	3.6	
				6.1	Middle	3.0	27.4 27.4	27.4	8.0 8.0	8.0	23.2 23.1	23.1	78.8 77.9	78.4	5.4 5.4	5.4	5.4	11.3 11.4	11.4	11.3	2.8 4.1	3.5	3.8
					Bottom	5.1	27.3 27.2	27.2	8.0 8.0	8.0	25.5 25.6	25.5	76.2 76.0	76.1	5.3 5.3	5.3	5.3	11.5 11.2	11.4		5.0 3.7	4.4	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	k	Η	Salin	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:36		Surface	1.1	30.1 30.1	30.1	8.5 8.4	8.5	18.8 18.8	18.8	91.9 92.1	92.0	6.2 6.3	6.2		8.6 8.8	8.7		8.7 9.3	9.0	
				8.3	Middle	4.1	29.0 29.4	29.2	8.3 8.3	8.3	26.4 23.1	24.7	91.4 91.1	91.3	6.0 6.0	6.0	6.1	11.4	11.6	10.6	8.4 8.8	8.6	8.5
					Bottom	7.3	28.7	28.7	8.3 8.3	8.3	29.0 29.2	29.1	81.1 75.1	78.1	5.5 5.0	5.2	5.2	11.5 11.5	11.5		7.8	8.0	
4-Aug-17	Fine	Moderate	12:18		Surface	1.0	29.0	28.9	8.2	8.2	19.2	19.3	77.8	77.9	5.4	5.4		8.6	8.5		6.8	7.5	
				8.1	Middle	4.1	28.9 28.2	28.2	8.2 8.2	8.2	19.4 27.1	27.4	77.9	77.3	5.4 5.4	5.4	5.4	8.4 8.8	8.8	8.7	8.1 9.1	8.4	7.9
					Bottom	7.1	28.1 28.1	28.1	8.1 8.1	8.2	27.7 28.7	28.8	77.5	73.3	5.4 5.1	5.0	5.0	8.8 8.8	8.9		7.7	7.8	
7-Aug-17	Sunny	Moderate	11:41		Surface	1.1	28.0 29.7	29.7	8.2 8.2	8.2	28.9 20.3	20.2	73.1	77.2	5.0 5.3	5.3		8.9 8.5	8.6		8.0 8.9	9.3	
				8.8	Middle	4.4	29.7 29.5	29.4	8.1 8.1	8.1	20.1 22.1	22.1	77.0	76.7	5.2 5.1	5.1	5.2	8.6 8.5	8.6	8.5	9.6 9.5	9.7	9.3
					Bottom	7.8	29.3 28.7	29.1	8.1 8.1	8.1	22.2 24.7	24.6	76.9 71.1	72.3	5.1 4.8	4.9	4.9	8.6 8.5	8.5		9.8 8.4	9.0	
9-Aug-17	Cloudy	Moderate	12:36		Surface	1.1	29.5 29.4	29.4	8.1 8.1	8.1	24.4 21.3	21.3	73.4 82.9	82.7	5.0 5.6	5.6		8.5 8.7	8.7		9.6 7.7	8.0	
				9.1	Middle	4.5	29.5 29.4	29.4	8.1 8.1	8.1	21.3 21.4	21.4	82.4 82.0	81.6	5.6 5.6	5.5	5.6	8.6 8.7	8.7	8.7	8.2 7.3	7.9	8.6
					Bottom	8.1	29.4 29.4	29.4	8.1 8.1	8.1	21.4 21.9	21.8	81.1 81.1	81.3	5.5 5.5	5.5	5.5	8.6 8.8	8.9		8.4 9.8	10.1	
11-Aug-17	Cloudy	Moderate	13:59		Surface	1.1	29.4 29.4	29.4	8.1 8.2	8.1	21.8 18.7	18.8	81.5 82.9	82.0	5.5 5.7	5.7		8.9 10.7	10.5		10.4 8.2	8.0	
				8.7	Middle	4.3	29.4 29.2	29.3	8.1 8.1	8.2	18.9 19.2	19.0	81.0 80.7	81.2	5.6 5.6	5.6	5.6	10.3 10.4	10.3	10.4	7.8 7.9	7.9	8.3
				-	Bottom	7.7	29.3 29.2	29.2	8.2 8.2	8.2	18.8 19.0	19.2	81.7 81.0	80.4	5.6 5.6	5.5	5.5	10.1 10.2	10.4		7.8 8.5	9.1	
14-Aug-17	Sunny	Moderate	16:01		Surface	1.1	29.2 30.3	30.3	8.1 8.2	8.2	19.3 18.5	18.7	79.8 88.6	87.4	5.5 6.1	6.0		10.5 4.9	4.9		9.7 6.6	6.5	
				8.5	Middle	4.3	30.2 29.6	29.6	8.2 8.2	8.2	18.9 20.0	19.9	86.2 83.4	86.1	5.9 5.7	5.9	5.9	4.9 7.2	7.1	7.4	6.4 6.4	6.6	6.9
					Bottom	7.5	29.6 29.1	29.0	8.2 8.3	8.2	19.7 20.7	21.0	88.7 83.7	82.7	6.0 5.7	5.6	5.6	7.0	10.1		6.7 7.4	7.8	
16-Aug-17	Cloudy	Moderate	8:59		Surface	1.0	28.9 29.8	29.7	8.2 8.2	8.2	21.3 19.2	19.4	81.7 85.0	83.6	5.6 5.7	5.6	0.0	10.1 3.9	3.8		8.1 3.9	3.2	
				8.4	Middle	4.2	29.7 27.9	27.9	8.2 8.1	8.2	19.5 26.8	26.3	82.1 81.3	82.2	5.6 5.5	5.6	5.6	3.7 4.4	4.3	4.7	2.4 3.8	3.3	3.2
				0.4	Bottom	7.4	27.9 27.3	27.3	8.2 8.2	8.2	25.8 30.3	29.9	83.1 73.9	73.9	5.7 5.0	5.0	5.0	4.1 6.2	6.2	4.7	2.8 3.5	3.3	0.2
18-Aug-17	Sunny	Moderate	11:18		Surface	1.1	27.3 30.1	29.9	8.2 8.3	8.4	29.5 19.6	20.0	73.8 89.3	89.9	5.0 6.1	6.1	0.0	6.1 7.4	7.5		3.0 3.2	2.7	
				8.3	Middle	4.1	29.8 26.4	29.9	8.4 8.2	8.2	20.4 30.8	30.8	90.5 82.2	80.7	6.1 5.5	5.4	5.8	7.5 7.6	7.6	7.5	2.2 5.2	5.1	4.3
				0.5	Bottom	7.3	26.5 26.3	26.3	8.2 8.2	8.2	30.7 32.1	30.8	79.1 74.5	72.4	5.3 5.1	4.9	4.9	7.5 7.6	7.6	1.5	5.0 5.3	5.1	4.5
21-Aug-17	Sunny	Moderate	11:08			1.1	26.3 28.9	20.3	8.2 8.3	8.3	32.1 22.1	22.1	70.3 87.6	87.3	4.8 6.0		4.3	7.6	1		4.8 7.6		
Ŭ	-				Surface		29.0 28.4		8.3 8.3		22.1 23.8		86.9 85.6	-	5.9 5.8	5.9	5.9	4.8 5.1	4.9	5.0	7.7	7.7	7 5
				9.0	Middle	4.5	28.7 27.7	28.5	8.3 8.3	8.3	23.0 27.5	23.4	87.6 81.7	86.6	5.9 5.6	5.8		4.9 5.1	5.0	5.0	7.0 7.6	7.5	7.5
					Bottom	8.0	27.7	27.7	8.3	8.3	27.5	27.5	85.2	83.5	5.8	5.7	5.7	5.0	5.1		6.9	7.3	1

## Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	1	urbidity(NTl	J)	Suspe	ended Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-	-	-	-	<u>-</u>	-	-	=
					Bottom	-	-	-		-		-		-	-	-	-	-	-		-	-	l
25-Aug-17	Sunny	Moderate	14:04		Surface	1.1	27.6 27.6	27.6	8.1 8.0	8.1	24.7 24.7	24.7	81.7 77.2	79.5	5.6 5.3	5.5	5.4	15.4 15.2	15.3		17.8 18.4	18.1	
				8.4	Middle	4.2	27.5 27.5	27.5	8.0 8.1	8.1	24.9 24.9	24.9	76.4 79.0	77.7	5.3 5.4	5.3	5.4	15.5 15.6	15.6	15.4	17.2 18.0	17.6	17.8
					Bottom	7.4	27.5 27.5	27.5	8.1 8.1	8.1	25.0 25.0	25.0	76.3 78.1	77.2	5.3 5.4	5.3	5.3	15.7 15.2	15.5		17.4 17.9	17.7	
28-Aug-17	Rainy	Moderate	16:00		Surface	1.1	26.3 26.3	26.3	8.1 8.1	8.1	25.4 25.3	25.4	84.1 79.2	81.7	5.8 5.5	5.6	5.6	6.9 6.9	6.9		7.1 6.8	7.0	
				8.6	Middle	4.3	26.3 26.3	26.3	8.0 8.1	8.1	26.5 26.5	26.5	77.9 80.3	79.1	5.5 5.6	5.5	5.0	6.8 6.8	6.8	6.8	5.6 5.4	5.5	8.0
					Bottom	7.6	26.2 26.3	26.3	8.0 8.0	8.0	27.9 27.8	27.8	79.8 77.6	78.7	5.6 5.4	5.5	5.5	6.8 6.8	6.8		10.9 12.3	11.6	
30-Aug-17	Fine	Moderate	7:55		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	19.2 19.2	19.2	80.1 77.4	78.8	5.5 5.4	5.5	5.4	8.4 8.5	8.5		3.2 2.4	2.8	
				8.4	Middle	4.2	26.2 26.4	26.3	8.0 8.0	8.0	28.6 28.6	28.6	77.1 78.1	77.6	5.3 5.5	5.4	5.4	8.6 8.5	8.6	8.6	2.5 3.2	2.9	3.0
					Bottom	7.4	26.1 26.2	26.1	8.0 8.0	8.0	29.5 29.5	29.5	76.9 75.7	76.3	5.3 5.2	5.2	5.2	8.5 8.8	8.7		3.1 3.8	3.5	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ъН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	۲	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	15:27		Surface	1.1	30.1 30.1	30.1	8.5 8.6	8.6	19.5 19.3	19.4	121.5 119.9	120.7	8.3 8.1	8.2	7.0	7.5 7.6	7.6		7.0 7.1	7.1	
				8.4	Middle	4.2	29.7 29.8	29.7	8.5 8.4	8.5	19.4 20.4	19.9	108.5 100.1	104.3	7.1 6.8	6.9	7.6	8.5 8.8	8.7	8.3	9.5 8.8	9.2	9.0
					Bottom	7.4	29.2 29.2	29.2	8.4 8.4	8.4	26.4 27.1	26.8	94.9 98.1	96.5	6.4 6.5	6.5	6.5	8.8 8.5	8.7		11.6 9.9	10.8	
4-Aug-17	Fine	Moderate	17:01		Surface	1.1	29.4 29.4	29.4	8.3 8.3	8.3	20.2 20.1	20.1	88.5 83.4	86.0	5.9 5.6	5.7		9.4 9.5	9.5		6.7 5.6	6.2	
				8.6	Middle	4.3	29.0 29.2	29.1	8.2 8.2	8.2	23.5 21.0	22.3	79.5 84.5	82.0	5.4 5.8	5.6	5.7	10.4 10.3	10.4	10.1	6.3 6.9	6.6	6.3
					Bottom	7.6	29.0 29.0	29.0	8.2 8.2	8.2	25.8 25.9	25.9	74.2	75.9	5.0 5.3	5.2	5.2	10.5 10.2	10.4		5.8 6.6	6.2	
7-Aug-17	Sunny	Moderate	6:49		Surface	1.1	29.7 29.7	29.7	8.2 8.2	8.2	20.1 20.2	20.2	75.2 75.1	75.2	5.1 5.1	5.1		8.3 8.4	8.4		9.4 7.8	8.6	
				9.0	Middle	4.5	29.3 29.6	29.4	8.1 8.1	8.1	21.8 22.0	21.9	74.7	74.6	5.0 5.0	5.0	5.1	8.5 8.5	8.5	8.5	12.2 11.2	11.7	11.8
					Bottom	8.0	29.5 29.0	29.2	8.1 8.1	8.1	25.6 25.1	25.4	71.8 73.4	72.6	4.9 4.9	4.9	4.9	8.6 8.5	8.6		15.5 14.7	15.1	1
9-Aug-17	Cloudy	Moderate	8:14		Surface	1.1	29.6 29.6	29.6	8.2 8.2	8.2	21.8 21.8	21.8	89.1 86.2	87.7	6.0 5.8	5.9		8.0 8.0	8.0		6.8 6.1	6.5	
				9.1	Middle	4.5	29.6 29.6	29.6	8.2 8.2	8.2	22.1 22.0	22.0	83.4 85.9	84.7	5.6 5.8	5.7	5.8	8.1 8.1	8.1	8.1	7.5 6.3	6.9	7.4
					Bottom	8.1	29.6 29.6	29.6	8.2 8.2	8.2	22.0 22.1	22.0	84.9 82.9	83.9	5.7 5.6	5.7	5.7	8.2 8.1	8.2		9.4 8.4	8.9	
11-Aug-17	Cloudy	Moderate	9:35		Surface	1.1	29.2 29.2	29.2	8.1 8.1	8.1	21.8 21.7	21.8	77.6 82.8	80.2	5.3 5.6	5.5	5.4	7.5 8.8	8.2		7.3 8.7	8.0	
				8.7	Middle	4.4	29.0 29.1	29.1	8.0 8.1	8.1	22.2 22.0	22.1	77.0 79.3	78.2	5.2 5.4	5.3	5.4	7.4 8.9	8.2	8.3	8.7 7.0	7.9	7.7
					Bottom	7.7	29.0 29.0	29.0	8.0 8.1	8.1	22.5 22.5	22.5	76.4 79.1	77.8	5.2 5.4	5.3	5.3	8.7 8.6	8.7		7.3 7.1	7.2	
14-Aug-17	Sunny	Moderate	12:28		Surface	1.1	29.7 29.6	29.6	8.1 8.1	8.1	22.9 23.2	23.0	84.1 84.2	84.2	5.6 5.6	5.6	5.6	5.8 5.8	5.8		4.9 5.6	5.3	
				8.7	Middle	4.3	29.1 29.2	29.1	8.1 8.1	8.1	23.8 23.8	23.8	83.3 82.6	83.0	5.6 5.5	5.6	0.0	6.6 6.5	6.6	6.3	6.6 6.5	6.6	6.1
					Bottom	7.7	28.9 29.3	29.1	8.1 8.1	8.1	25.0 25.1	25.0	81.0 81.6	81.3	5.5 5.5	5.5	5.5	6.5 6.5	6.5		6.2 6.9	6.6	
16-Aug-17	Cloudy	Moderate	13:05		Surface	1.0	29.8 29.8	29.8	8.3 8.3	8.3	17.7 17.6	17.6	97.0 96.9	97.0	6.6 6.7	6.6	6.6	4.7 5.0	4.9		4.9 3.8	4.4	
				8.3	Middle	4.1	29.1 29.1	29.1	8.3 8.3	8.3	20.7 20.0	20.3	95.0 96.5	95.8	6.5 6.6	6.6		6.9 7.2	7.1	6.6	4.9 3.0	4.0	3.9
					Bottom	7.3	29.4 28.9	29.2	8.3 8.3	8.3	22.3 21.9	22.1	90.5 90.3	90.4	6.2 6.2	6.2	6.2	7.8 7.7	7.8		3.0 3.5	3.3	
18-Aug-17	Sunny	Moderate	16:00		Surface	1.1	30.9 31.0	30.9	8.6 8.5	8.5	16.8 17.1	16.9	141.2 142.0	141.6	9.6 9.6	9.6	8.9	6.2 6.1	6.2		8.2 8.1	8.2	_
				8.4	Middle	4.2	30.3 29.8	30.1	8.5 8.4	8.5	17.4 18.1	17.7	122.7 117.1	119.9	8.4 8.0	8.2		6.4 6.4	6.4	6.4	8.7 7.3	8.0	8.7
	-				Bottom	7.4	29.0 28.9	29.0	8.4 8.4	8.4	20.7 20.7	20.7	114.0 111.7	112.9	7.8 7.7	7.7	7.7	6.5 6.6	6.6		10.6 9.3	10.0	
21-Aug-17	Sunny	Moderate	6:48		Surface	1.1	29.0 29.0	29.0	8.3 8.3	8.3	22.1 22.1	22.1	87.7 88.6	88.2	6.0 6.0	6.0	5.9	4.8 5.0	4.9		4.8 5.8	5.3	_
				9.0	Middle	4.5	28.5 28.3	28.4	8.3 8.3	8.3	24.3 23.8	24.1	84.5 84.6	84.6	5.7 5.7	5.7		5.0 4.8	4.9	5.0	5.4 6.1	5.8	6.2
					Bottom	8.0	27.9 27.8	27.8	8.3 8.3	8.3	27.3 27.1	27.2	82.4 80.9	81.7	5.6 5.5	5.6	5.6	5.1 5.0	5.1		7.7 7.1	7.4	

## Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Temper	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	9:40		Surface	1.2	27.5 27.5	27.5	8.1 8.1	8.1	27.7 27.8	27.7	82.0 78.8	80.4	5.5 5.3	5.4	5.4	7.3 7.4	7.4		8.1 7.9	8.0	
				8.7	Middle	4.4	27.5 27.4	27.4	8.1 8.1	8.1	28.0 28.1	28.1	78.3 80.3	79.3	5.3 5.4	5.4	5.4	7.4 7.5	7.5	7.4	9.0 10.8	9.9	9.4
					Bottom	7.7	27.4 27.4	27.4	8.1 8.1	8.1	28.0 28.3	28.2	78.3 79.7	79.0	5.3 5.4	5.3	5.3	7.2 7.4	7.3		11.0 9.8	10.4	
28-Aug-17	Rainy	Moderate	12:08		Surface	1.1	26.4 26.4	26.4	8.1 8.1	8.1	24.6 24.4	24.5	82.0 81.3	81.7	5.7 5.6	5.7	5.6	5.8 5.4	5.6		6.3 5.0	5.7	
				8.6	Middle	4.3	26.4 26.4	26.4	8.1 8.1	8.1	26.3 26.7	26.5	81.3 78.0	79.7	5.7 5.5	5.6	5.0	5.8 5.7	5.8	5.7	5.4 4.3	4.9	5.0
					Bottom	7.6	26.3 26.4	26.4	8.1 8.1	8.1	27.9 28.1	28.0	78.8 77.7	78.3	5.5 5.4	5.4	5.4	5.8 5.6	5.7		4.2 4.9	4.6	
30-Aug-17	Fine	Moderate	13:28		Surface	1.1	28.4 28.5	28.4	8.0 8.0	8.0	18.7 18.7	18.7	79.2 80.2	79.7	5.6 5.6	5.6	5.5	7.7 7.3	7.5		4.1 6.0	5.1	
				8.4	Middle	4.2	27.7 27.6	27.6	8.0 8.0	8.0	21.6 22.2	21.9	79.5 77.3	78.4	5.5 5.3	5.4	5.5	7.3 7.3	7.3	7.4	6.0 5.6	5.8	6.3
					Bottom	7.4	26.2 26.3	26.3	8.0 7.9	8.0	28.9 28.8	28.8	75.7 76.7	76.2	5.3 5.4	5.3	5.3	7.4 7.5	7.5		7.8 8.0	7.9	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ĥ	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:18		Surface	1.1	30.1 30.1	30.1	8.5 8.5	8.5	18.4 18.4	18.4	121.6 120.6	121.1	8.3 8.2	8.3		5.5 5.5	5.5		5.8 5.0	5.4	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	5.6	-	-	6.6
					Bottom	2.3	30.0 30.0	30.0	8.5 8.5	8.5	18.7 18.8	18.7	121.7 119.5	120.6	8.3 8.2	8.2	8.2	5.8 5.5	5.7		7.4 8.3	7.9	
4-Aug-17	Fine	Moderate	12:00		Surface	1.1	29.4 29.3	29.3	8.2 8.2	8.2	19.9 19.9	19.9	79.9 77.0	78.5	5.5 5.3	5.4		5.8 5.7	5.8		7.6 8.0	7.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.8		-	8.3
					Bottom	2.2	29.2 29.3	29.2	8.2 8.2	8.2	20.0 19.9	20.0	73.6 74.2	73.9	5.1 5.1	5.1	5.1	5.9 5.7	5.8		8.2 9.3	8.8	
7-Aug-17	Sunny	Moderate	11:54		Surface	1.0	29.7 29.7	29.7	8.2 8.2	8.2	20.8 20.8	20.8	79.6 79.5	79.6	5.4 5.4	5.4	5.4	7.4 7.4	7.4		13.2 12.2	12.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	7.5	-	-	12.8
					Bottom	2.3	29.7 29.6	29.7	8.2 8.2	8.2	21.0 21.2	21.1	79.6 79.7	79.7	5.4 5.4	5.4	5.4	7.6 7.6	7.6		12.0 13.6	12.8	
9-Aug-17	Cloudy	Moderate	12:48		Surface	1.0	29.7 29.5	29.6	8.2 8.2	8.2	21.4 21.7	21.5	96.4 94.2	95.3	6.5 6.4	6.4	6.5	5.5 5.4	5.5		5.0 3.9	4.5	
				3.5	Middle	-	-	-	• •	-		-		-	-	-	0.0	-	-	5.5	-	-	4.0
					Bottom	2.5	29.6 29.6	29.6	8.2 8.2	8.2	21.7 21.5	21.6	91.7 94.0	92.9	6.2 6.4	6.3	6.3	5.6 5.5	5.6		3.4 3.8	3.6	
11-Aug-17	Cloudy	Moderate	14:15		Surface	1.1	29.4 29.4	29.4	8.1 8.1	8.1	20.2 20.2	20.2	79.2 78.9	79.1	5.4 5.4	5.4	5.4	9.0 9.1	9.1		7.8 8.9	8.4	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	9.1	-	-	8.4
	-				Bottom	2.4	29.4 29.3	29.3	8.1 8.1	8.1	20.3 20.3	20.3	79.0 78.8	78.9	5.4 5.4	5.4	5.4	9.3 9.1	9.2		9.0 8.0	8.5	
14-Aug-17	Sunny	Moderate	16:16		Surface	1.0	30.1 30.1	30.1	8.2 8.2	8.2	20.7 20.7	20.7	95.8 96.7	96.3	6.5 6.5	6.5	6.5	4.5 4.2	4.4		6.7 6.7	6.7	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	4.4	-	-	6.6
					Bottom	2.1	30.1 30.1	30.1	8.2 8.2	8.2	20.8 20.7	20.7	95.1 96.2	95.7	6.4 6.5	6.4	6.4	4.4 4.3	4.4		6.4 6.7	6.6	
16-Aug-17	Cloudy	Moderate	8:43		Surface	1.0	29.7 29.9	29.8	8.2 8.2	8.2	20.6 19.8	20.2	88.9 89.8	89.4	6.0 6.1	6.1	6.1	6.2 6.0	6.1		4.6 5.2	4.9	
				3.3	Middle	-	- 29.7	-	8.2	-	- 22.3	-	- - 88.9	-	-	-		- - 6.9	-	6.6		-	5.2
40 4	Current	Madagata	40.50		Bottom	2.3	29.7 29.5 29.5	29.6	8.2 8.4	8.2	22.2	22.2	89.9	89.4	6.0 6.1	6.0	6.0	7.3	7.1		5.8 5.3 2.5	5.6	
18-Aug-17	Sunny	Moderate	10:58		Surface	1.0	29.5 29.6	29.6	8.4 8.4	8.4	20.3 20.2	20.2	110.3 109.4	109.9	7.5 7.4	7.5	7.5	2.2 2.1	2.2		2.5 3.9	3.2	
				3.2	Middle	-	29.2	-	- 8.3	-	21.4	-	97.0	-	6.6	-		3.3	-	2.7	3.5	-	3.6
21-Aug-17	Sunny	Moderate	11:21		Bottom	2.2	29.2 29.4 29.8	29.3	8.3 8.5	8.3	21.4 22.2 20.9	21.8	97.0 106.2 120.6	101.6	7.2 8.2	6.9	6.9	3.3 3.2 5.1	3.3		4.3 5.0	3.9	
21-Aug-17	Suriny	woderate	11.21		Surface	1.1	29.8	29.8	8.5 8.5 -	8.5	20.9	20.9	120.6	119.3	8.2 8.0	8.1	8.1	5.0	5.1		5.0 6.3	5.7	
				3.3	Middle	-	29.8	-	8.5	-	21.2	-	- 119.0	-	8.0	-		5.2	-	5.1	7.4	-	6.6
					Bottom	2.3	29.7	29.7	8.5	8.5	22.4	21.8	117.2	118.1	7.9	8.0	8.0	5.2	5.2		7.7	7.6	

## Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	14:25		Surface	1.1	28.4 28.2	28.3	8.1 8.1	8.1	24.6 24.6	24.6	78.6 82.3	80.5	5.3 5.6	5.5	5.5	6.6 6.4	6.5		3.3 4.6	4.0	
				3.3	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.5	0.0 0.0	-	6.5	-	-	4.3
					Bottom	2.3	27.7 27.9	27.8	8.1 8.1	8.1	25.8 25.7	25.7	79.6 78.1	78.9	5.4 5.3	5.4	5.4	6.5 6.5	6.5		5.1 4.0	4.6	
28-Aug-17	Rainy	Moderate	16:20		Surface	1.1	26.6 26.6	26.6	8.1 8.1	8.1	24.0 23.9	23.9	88.9 88.8	88.9	6.3 6.2	6.3	6.3	2.2 2.1	2.2		3.9 3.7	3.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	2.2	-	-	4.7
					Bottom	2.2	26.6 26.6	26.6	8.1 8.1	8.1	24.2 24.1	24.1	89.7 88.8	89.3	6.2 6.2	6.2	6.2	2.2 2.3	2.3		5.1 6.0	5.6	L
30-Aug-17	Fine	Moderate	7:39		Surface	1.0	28.0 28.1	28.1	8.0 8.0	8.0	19.0 19.2	19.1	83.9 81.6	82.8	5.9 5.7	5.8	5.8	2.4 2.3	2.4		2.7 3.7	3.2	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	2.4	-	-	2.8
					Bottom	2.1	28.1 27.7	27.9	8.0 8.0	8.0	20.6 20.9	20.8	81.3 82.0	81.7	5.7 5.8	5.7	5.7	2.5 2.5	2.5		2.1 2.5	2.3	<u> </u>

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Г	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	15:42		Surface	1.0	30.1 30.1	30.1	8.6 8.5	8.6	19.3 19.3	19.3	131.5 129.6	130.6	8.9 8.8	8.9		5.5 5.6	5.6		6.3 6.0	6.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	5.6		-	7.2
					Bottom	2.2	30.1 30.1	30.1	8.5 8.5	8.5	19.7 19.4	19.6	129.0 129.9	129.5	8.7 8.8	8.8	8.8	5.6 5.7	5.7		8.1 8.3	8.2	
4-Aug-17	Fine	Moderate	17:22		Surface	1.2	29.5 29.5	29.5	8.4 8.3	8.3	20.0 20.1	20.1	95.2 91.2	93.2	6.5 6.2	6.4		5.6 5.8	5.7		7.0 8.2	7.6	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	5.8	-	-	7.7
					Bottom	2.4	29.2 29.4	29.3	8.3 8.3	8.3	20.5 20.1	20.3	90.6 93.6	92.1	6.2 6.4	6.3	6.3	5.8 5.8	5.8		7.2 8.4	7.8	1
7-Aug-17	Sunny	Moderate	6:35		Surface	1.1	29.7 29.7	29.7	8.2 8.2	8.2	20.2 20.5	20.4	81.8 80.7	81.3	5.5 5.5	5.5		7.4 7.3	7.4		7.6 7.6	7.6	
				3.4	Middle	-	-	-	-	-	-	-		-	-	-	5.5	-	-	7.4	-	-	8.7
					Bottom	2.4	29.7 29.6	29.7	8.2 8.2	8.2	20.7 21.0	20.8	80.3 80.8	80.6	5.5 5.5	5.5	5.5	7.3 7.5	7.4		10.2 9.2	9.7	
9-Aug-17	Cloudy	Moderate	7:56		Surface	1.0	29.4 29.4	29.4	8.1 8.1	8.1	21.3 21.3	21.3	76.8 76.8	76.8	5.2 5.2	5.2	5.0	5.1 5.0	5.1		3.4 4.3	3.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	5.1	-	-	3.9
					Bottom	2.3	29.4 29.4	29.4	8.1 8.1	8.1	21.3 21.4	21.3	76.8 76.6	76.7	5.2 5.2	5.2	5.2	5.1 5.2	5.2		4.0 3.9	4.0	
11-Aug-17	Cloudy	Moderate	9:17		Surface	1.0	29.4 29.4	29.4	8.1 8.1	8.1	21.1 21.0	21.1	84.2 89.7	87.0	5.7 6.1	5.9	5.0	5.7 5.9	5.8		8.8 7.7	8.3	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	5.8	-	-	9.2
					Bottom	2.3	29.4 29.4	29.4	8.1 8.1	8.1	21.6 21.4	21.5	86.2 82.6	84.4	5.9 5.6	5.7	5.7	5.8 5.8	5.8		10.7 9.6	10.2	
14-Aug-17	Sunny	Moderate	12:15		Surface	1.2	29.9 29.8	29.8	8.2 8.2	8.2	22.7 22.6	22.6	93.5 95.6	94.6	6.3 6.4	6.3	6.3	5.8 5.8	5.8		5.7 5.7	5.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	5.8	-	-	6.9
					Bottom	2.3	29.8 29.7	29.8	8.2 8.2	8.2	22.6 22.4	22.5	93.5 93.9	93.7	6.3 6.3	6.3	6.3	5.9 5.8	5.9		8.3 7.7	8.0	
16-Aug-17	Cloudy	Moderate	13:24		Surface	1.0	29.9 29.9	29.9	8.3 8.3	8.3	18.5 18.5	18.5	105.2 106.8	106.0	7.2 7.3	7.2	7.3	3.5 3.3	3.4		4.0 2.9	3.5	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	3.8	-	-	3.0
					Bottom	2.3	29.9 30.0	29.9	8.3 8.3	8.3	19.3 19.1	19.2	106.0 104.5	105.3	7.2 7.1	7.2	7.2	4.0 4.4	4.2		2.5 2.7	2.6	
18-Aug-17	Sunny	Moderate	16:15		Surface	1.0	30.9 30.9	30.9	8.7 8.7	8.7	18.0 18.0	18.0	177.9 174.8	176.4	12.0 11.8	11.9	11.0	3.4 3.5	3.5		5.0 5.8	5.4	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	11.9	-	-	3.5	-	-	6.2
					Bottom	2.1	30.7 30.8	30.7	8.7 8.7	8.7	18.3 18.2	18.2	175.0 176.5	175.8	11.8 11.9	11.9	11.9	3.5 3.5	3.5		7.5 6.5	7.0	
21-Aug-17	Sunny	Moderate	6:31		Surface	1.0	29.7 29.7	29.7	8.5 8.5	8.5	21.1 21.0	21.0	122.0 121.5	121.8	8.3 8.2	8.2	8.2	4.3 4.5	4.4		5.4 6.3	5.9	
				3.4	Middle	-	-	-	-	-		-	-	-	-	-	0.2	-	-	4.4	-	-	5.9
					Bottom	2.4	29.7 29.7	29.7	8.5 8.5	8.5	21.1 21.0	21.1	121.2 121.2	121.2	8.2 8.2	8.2	8.2	4.4 4.5	4.5		6.4 5.6	6.0	1

## Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	9:23		Surface	1.0	27.6 27.6	27.6	8.1 8.1	8.1	28.0 28.0	28.0	82.9 85.7	84.3	5.6 5.8	5.7	5.7	4.5 4.4	4.5		9.2 8.6	8.9	
				3.5	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.7	0.0 0.0	-	4.5	-	-	9.0
					Bottom	2.5	27.6 27.5	27.5	8.1 8.1	8.1	28.1 28.2	28.1	81.8 83.9	82.9	5.5 5.7	5.6	5.6	4.4 4.5	4.5		9.5 8.8	9.2	
28-Aug-17	Rainy	Moderate	11:49		Surface	1.1	26.5 26.5	26.5	8.1 8.1	8.1	24.9 25.0	25.0	88.1 90.1	89.1	6.2 6.3	6.2	6.2	3.8 3.8	3.8		6.9 7.4	7.2	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	3.8	-	-	7.2
					Bottom	2.4	26.4 26.5	26.4	8.1 8.1	8.1	25.1 25.0	25.1	88.8 86.9	87.9	6.2 6.1	6.1	6.1	3.8 3.8	3.8		8.0 6.6	7.3	
30-Aug-17	Fine	Moderate	13:51		Surface	1.1	29.3 28.9	29.1	8.1 8.1	8.1	19.0 19.9	19.4	98.2 93.2	95.7	6.8 6.4	6.6	6.6	2.6 2.5	2.6		3.1 4.3	3.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.5	-	-	3.7
					Bottom	2.3	28.8 28.2	28.5	8.1 8.1	8.1	20.5 21.5	21.0	98.1 91.1	94.6	6.8 6.3	6.5	6.5	2.4 2.5	2.5		4.3 2.9	3.6	L

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	Ł	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:56		Surface	1.1	30.1 30.1	30.1	8.5 8.5	8.5	18.1 18.3	18.2	119.9 121.0	120.5	8.2 8.3	8.2		7.4 7.5	7.5		2.1 3.9	3.0	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	7.5	-	-	3.3
					Bottom	3.0	30.0 30.1	30.1	8.5 8.5	8.5	19.5 19.1	19.3	122.9 121.4	122.2	8.3 8.3	8.3	8.3	7.5	7.5		3.7 3.3	3.5	
4-Aug-17	Fine	Moderate	11:37		Surface	1.1	29.3 29.3	29.3	8.2 8.2	8.2	19.7 20.0	19.8	72.4 76.0	74.2	5.1 5.3	5.2		10.5 10.4	10.5		4.1 5.3	4.7	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	10.5		-	5.5
					Bottom	2.9	28.8 29.2	29.0	8.1 8.2	8.2	23.4 23.7	23.5	71.0 75.1	73.1	4.9 5.3	5.1	5.1	10.4 10.5	10.5		5.6 6.9	6.3	
7-Aug-17	Sunny	Moderate	12:16		Surface	1.2	30.1 30.1	30.1	8.3 8.3	8.3	20.8 20.8	20.8	92.6 93.1	92.9	6.2 6.3	6.3	6.3	5.4 5.4	5.4		9.2 8.1	8.7	
				4.1	Middle	-	-	-		-		-		-	-	-	0.3	-	-	5.5	-	-	8.8
					Bottom	3.1	30.0 29.8	29.9	8.3 8.3	8.3	21.0 21.1	21.0	93.2 92.3	92.8	6.3 6.2	6.3	6.3	5.6 5.4	5.5		8.9 8.8	8.9	
9-Aug-17	Cloudy	Moderate	13:06		Surface	1.1	29.7 29.7	29.7	8.2 8.2	8.2	21.0 20.9	21.0	93.8 94.1	94.0	6.4 6.4	6.4	6.4	4.7 4.7	4.7		4.3 4.8	4.6	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	4.8	-	-	5.1
					Bottom	2.4	29.7 29.7	29.7	8.2 8.2	8.2	21.0 21.1	21.0	94.1 93.2	93.7	6.4 6.3	6.3	6.3	4.8 4.9	4.9		5.3 6.0	5.7	I
11-Aug-17	Cloudy	Moderate	14:39		Surface	1.2	29.8 29.8	29.8	8.1 8.1	8.1	20.1 20.1	20.1	84.7 84.5	84.6	5.8 5.7	5.7	5.8	5.5 5.8	5.7		4.6 4.4	4.5	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.7	-	-	5.6
					Bottom	3.2	29.6 29.8	29.7	8.1 8.1	8.1	21.0 20.5	20.7	84.1 84.5	84.3	5.7 5.7	5.7	5.7	5.8 5.8	5.8		6.3 7.0	6.7	
14-Aug-17	Sunny	Moderate	16:41		Surface	1.1	30.4 30.3	30.4	8.2 8.2	8.2	20.3 20.3	20.3	98.7 96.5	97.6	6.6 6.5	6.6	6.6	5.5 5.6	5.6		8.5 9.3	8.9	
				3.7	Middle	-	30.3	-	-	-	20.4	-	97.4	-	-	-		-	-	5.6	9.2	-	8.9
					Bottom	2.7	29.9	30.1	8.2 8.2	8.2	20.7	20.5	95.8	96.6	6.6 6.5	6.5	6.5	5.6 5.6	5.6		8.6	8.9	I
16-Aug-17	Cloudy	Moderate	8:17		Surface	1.0	29.9 29.9	29.9	8.2 8.2	8.2	20.2 19.9	20.0	101.0 100.0	100.5	6.8 6.8	6.8	6.8	9.8 10.5	10.2		5.3 5.2	5.3	
				3.7	Middle	-	- 29.8	-	- 8.2	-	20.8	-	- - 97.0	-	- - 6.6	-		- - 11.2	-	10.8	8.1	-	7.1
19 Aug 17	Suppy	Moderate	10:35		Bottom	2.7	29.8 29.4	29.8	8.2 8.4	8.2	20.8 20.9 20.6	20.8	97.6 97.6 112.1	97.3	6.6	6.6	6.6	11.2 11.8 2.4	11.5		9.9 1.7	9.0	
18-Aug-17	Sunny	woderate	10:35		Surface	1.2	29.4 29.6	29.5	8.4 8.4	8.4	20.6	20.4	112.1	111.9	7.7 7.6	7.6	7.6	2.4	2.4		1.7	1.8	
				4.0	Middle	-	29.2	-	- 8.4	-	23.3	-	- 107.9	-	7.3	-		- 2.5	-	2.4	1.4	-	1.7
21-Aug-17	Sunny	Moderate	11:38		Bottom	3.0	29.2 29.3 29.7	29.3	8.4 8.5	8.4	23.3 24.4 21.2	23.8	107.9 114.3 122.3	111.1	7.6	7.5	7.5	2.3 2.3 3.9	2.4		1.4 1.8 7.0	1.6	
21-Aug-17	Gunny	moderate	11.50		Surface	1.1	29.7	29.7	8.5 -	8.5	21.2	21.2	122.3	120.5	8.0 -	8.1	8.1	4.0	4.0		8.1	7.6	
				3.4	Middle	-	29.8	-	8.5	-	21.8	-	120.9	-	8.1	-		4.1	-	4.0	7.5	-	7.6
					Bottom	2.4	29.8	29.6	8.5 8.5	8.5	21.8	22.0	116.8	118.9	7.9	8.0	8.0	4.1	4.1		7.9	7.7	L

## Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	1	Furbidity(NTL	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-	-	-	-	=	-	-	=
					Bottom	-	-	-		-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	14:54		Surface	1.0	28.1 28.0	28.0	8.1 8.1	8.1	25.4 25.4	25.4	80.9 83.6	82.3	5.5 5.7	5.6	5.6	4.7 4.5	4.6		4.9 6.6	5.8	
				3.7	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.0	0.0 0.0	-	4.6	-	-	5.7
					Bottom	2.7	28.0 27.8	27.9	8.1 8.1	8.1	25.8 26.3	26.0	80.4 81.7	81.1	5.5 5.6	5.5	5.5	4.6 4.5	4.6		5.7 5.5	5.6	
28-Aug-17	Rainy	Moderate	16:49		Surface	1.1	26.7 26.7	26.7	8.1 8.1	8.1	24.9 24.8	24.9	92.0 85.6	88.8	6.4 5.9	6.2	6.2	7.8 7.9	7.9		14.5 15.1	14.8	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	7.8	-	-	16.2
					Bottom	2.9	26.7 26.6	26.6	8.0 8.0	8.0	25.6 26.0	25.8	84.5 87.3	85.9	5.9 6.1	6.0	6.0	7.8 7.8	7.8		18.0 17.1	17.6	
30-Aug-17	Fine	Moderate	7:11		Surface	1.1	27.9 27.9	27.9	8.0 8.0	8.0	18.6 18.8	18.7	85.7 82.2	84.0	6.0 5.8	5.9	5.9	3.6 3.5	3.6		3.6 4.8	4.2	
				4.0	Middle	-	-	-		-	-	-	-	-	-	-	5.9	-	-	3.5	-	-	4.1
					Bottom	3.0	27.3 27.8	27.6	8.0 8.0	8.0	21.9 21.5	21.7	83.2 81.7	82.5	5.9 5.7	5.8	5.8	3.5 3.5	3.5		4.0 3.9	4.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(NT	U)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:08		Surface	1.1	30.0 30.0	30.0	8.5 8.5	8.5	19.4 19.4	19.4	119.4 119.6	119.5	8.1 8.1	8.1		8.4 8.9	8.7		5.7 6.9	6.3	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	8.7	-	-	8.6
					Bottom	3.0	30.0 29.9	30.0	8.5 8.5	8.5	19.6 19.7	19.6	119.0 118.2	118.6	8.1 8.0	8.1	8.1	8.5 8.9	8.7		11.8 10.1	11.0	
4-Aug-17	Fine	Moderate	17:47		Surface	1.1	29.4 29.4	29.4	8.3 8.3	8.3	20.2 20.1	20.1	81.0 81.9	81.5	5.5 5.6	5.6		7.1	7.3		7.4 8.1	7.8	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	7.4	-	-	8.8
					Bottom	3.2	29.0 29.4	29.2	8.2 8.3	8.2	22.3 21.8	22.0	78.2 80.7	79.5	5.4 5.5	5.4	5.4	7.5 7.5	7.5		10.6 9.1	9.9	
7-Aug-17	Sunny	Moderate	6:13		Surface	1.1	29.7 29.7	29.7	8.2 8.1	8.2	21.2 21.2	21.2	75.8 75.1	75.5	5.1 5.0	5.1		5.5 5.7	5.6		7.3 6.5	6.9	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	5.5	-	-	8.7
					Bottom	3.1	29.5 28.9	29.2	8.1 8.1	8.1	23.5 22.8	23.1	72.9 71.7	72.3	4.9 4.9	4.9	4.9	5.3 5.6	5.5		10.8 10.0	10.4	
9-Aug-17	Cloudy	Moderate	7:39		Surface	1.1	29.5 29.5	29.5	8.1 8.1	8.1	20.5 20.8	20.6	80.5 80.2	80.4	5.5 5.5	5.5		5.1 5.0	5.1		4.8 4.9	4.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.1	-	-	4.1
					Bottom	2.3	29.5 29.5	29.5	8.1 8.1	8.1	20.6 20.4	20.5	79.4 80.3	79.9	5.4 5.5	5.4	5.4	5.0 5.2	5.1		3.4 3.3	3.4	
11-Aug-17	Cloudy	Moderate	8:53		Surface	1.2	29.3 29.1	29.2	8.0 8.0	8.0	19.6 19.8	19.7	79.7 79.0	79.4	5.5 5.4	5.4	E 4	3.7 3.7	3.7		3.5 3.0	3.3	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	3.8	-	-	3.2
					Bottom	3.2	29.0 29.2	29.1	8.0 8.0	8.0	20.5 21.7	21.1	79.4 77.7	78.6	5.5 5.4	5.4	5.4	3.8 3.8	3.8		3.0 3.4	3.2	
14-Aug-17	Sunny	Moderate	11:51		Surface	1.2	29.5 29.6	29.6	8.1 8.1	8.1	21.1 21.2	21.2	86.6 84.4	85.5	5.9 5.7	5.8	5.8	8.4 8.4	8.4		2.9 4.1	3.5	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	8.4	-	-	3.7
					Bottom	3.4	29.5 29.4	29.5	8.1 8.1	8.1	22.2 22.2	22.2	83.7 84.7	84.2	5.7 5.8	5.7	5.7	8.1 8.5	8.3		3.2 4.4	3.8	
16-Aug-17	Cloudy	Moderate	13:51		Surface	1.0	29.9 29.8	29.9	8.3 8.3	8.3	17.6 17.7	17.6	103.0 102.7	102.9	7.1 7.1	7.1	7.1	2.2 2.4	2.3		3.4 3.7	3.6	
				3.8	Middle	1	-	-		-		-		-	-	-	7.1	-	-	2.5	-	-	3.2
					Bottom	2.8	29.8 29.8	29.8	8.3 8.3	8.3	18.9 18.9	18.9	102.7 102.9	102.8	7.0 7.0	7.0	7.0	2.8 2.6	2.7		3.7 2.1	2.9	
18-Aug-17	Sunny	Moderate	16:39		Surface	1.2	30.0 30.0	30.0	8.4 8.4	8.4	17.7 17.6	17.7	113.8 117.0	115.4	7.8 8.0	7.9	7.9	12.6 12.4	12.5		17.4 16.3	16.9	
				3.9	Middle	-	-	-		-		-	-	-	-	-	7.5	-	-	12.4	-	-	17.3
					Bottom	2.9	29.9 29.9	29.9	8.4 8.4	8.4	18.7 19.4	19.1	109.4 115.0	112.2	7.5 7.8	7.7	7.7	12.2 12.5	12.4		17.5 17.8	17.7	
21-Aug-17	Sunny	Moderate	6:15		Surface	1.1	29.8 29.9	29.8	8.5 8.5	8.5	20.8 20.6	20.7	118.9 116.4	117.7	8.0 7.9	8.0	8.0	4.3 3.9	4.1		6.1 5.7	5.9	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.1	-	-	5.9
					Bottom	2.5	29.7 29.8	29.8	8.4 8.5	8.4	20.6 20.9	20.7	107.0 117.8	112.4	7.3 8.0	7.6	7.6	4.0 4.3	4.2		6.4 5.2	5.8	

## Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	=	-	-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:49		Surface	1.2	27.7 27.7	27.7	8.1 8.1	8.1	25.7 25.7	25.7	78.8 82.9	80.9	5.3 5.6	5.5	5.5	9.6 9.5	9.6		10.8 10.8	10.8	
				4.1	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.5	0.0 0.0	-	9.6	-	-	10.6
					Bottom	3.1	27.6 27.5	27.6	8.1 8.1	8.1	26.9 26.8	26.8	78.3 80.4	79.4	5.3 5.5	5.4	5.4	9.7 9.5	9.6		10.1 10.6	10.4	
28-Aug-17	Rainy	Moderate	11:10		Surface	1.1	26.7 26.7	26.7	8.1 8.1	8.1	24.7 24.8	24.7	90.7 86.4	88.6	6.3 6.0	6.1	6.2	11.2 11.4	11.3		12.3 13.0	12.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	11.5	-	-	13.4
					Bottom	3.1	26.7 26.7	26.7	8.1 8.1	8.1	25.4 25.8	25.6	85.3 87.4	86.4	6.0 6.1	6.0	6.0	12.0 11.2	11.6		14.6 13.6	14.1	
30-Aug-17	Fine	Moderate	14:26		Surface	1.0	28.8 29.1	28.9	8.0 8.0	8.0	18.3 18.0	18.1	83.9 84.2	84.1	5.9 5.9	5.9	5.9	9.0 9.0	9.0		6.7 6.2	6.5	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	9.6	-	-	6.3
					Bottom	2.8	28.6 28.1	28.3	8.0 8.0	8.0	20.1 21.3	20.7	83.7 84.1	83.9	5.8 5.8	5.8	5.8	10.2 10.1	10.2		6.0 6.4	6.2	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	k	Η	Salin	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:42		Surface	1.1	29.8 29.9	29.9	8.3 8.3	8.3	17.4 17.4	17.4	78.3 82.4	80.4	5.4 5.7	5.5	- 4	3.8 3.9	3.9		5.4 6.1	5.8	
				10.5	Middle	5.2	29.1 29.3	29.2	8.2 8.2	8.2	21.7 21.9	21.8	76.5 79.8	78.2	5.1 5.3	5.2	5.4	4.5 4.7	4.6	4.4	5.2 5.4	5.3	5.2
					Bottom	9.5	26.8 26.8	26.8	8.2 8.1	8.1	33.0 33.1	33.0	70.3	70.6	4.8	4.8	4.8	4.8	4.9		4.1	4.7	
4-Aug-17	Fine	Moderate	11:21		Surface	1.1	29.1 29.0	29.0	8.2 8.2	8.2	20.2 20.4	20.3	78.3 77.2	77.8	5.6 5.4	5.5		5.1 5.3	5.2		3.6 3.2	3.4	
				10.1	Middle	5.1	28.6 28.5	28.6	8.1 8.1	8.1	25.0 24.9	25.0	73.5 74.6	74.1	5.2 5.3	5.3	5.4	6.5 6.4	6.5	6.1	3.1 4.6	3.9	4.4
					Bottom	9.1	28.0 28.0	28.0	8.1 8.1	8.1	28.7 28.6	28.6	70.6	71.0	5.0 5.0	5.0	5.0	6.5 6.5	6.5		6.1 6.0	6.1	
7-Aug-17	Sunny	Moderate	12:31		Surface	1.0	29.4 29.4	29.4	8.2 8.2	8.2	20.0 20.2 20.0	20.1	78.5 78.9	78.7	5.4 5.4	5.4		6.6 6.3	6.5		8.6 7.1	7.9	
				10.2	Middle	5.1	28.5 28.3	28.4	8.1 8.1	8.1	24.5 24.7	24.6	78.2 77.4	77.8	5.4 5.3	5.3	5.4	6.2 6.5	6.4	6.4	8.5 7.4	8.0	10.0
					Bottom	9.2	27.6 28.1	27.9	8.1 8.1	8.1	28.2 27.3	27.7	74.5 74.5	74.5	5.1 5.1	5.1	5.1	6.5 6.4	6.5		14.2 14.3	14.3	
9-Aug-17	Cloudy	Moderate	13:26		Surface	1.1	29.7 29.5	29.6	8.2 8.2	8.2	21.4 21.5	21.4	80.1 77.7	78.9	5.4 5.3	5.3		6.7 6.7	6.7		6.8 7.0	6.9	
				11.2	Middle	5.6	29.4 29.3	29.3	8.2 8.2	8.2	21.6 21.7	21.7	74.1 76.3	75.2	5.0 5.2	5.1	5.2	6.8 6.9	6.9	6.9	8.2 7.3	7.8	7.3
					Bottom	10.2	27.6	27.7	8.1 8.1	8.1	27.5 27.3	27.4	71.4	71.6	4.9 4.9	4.9	4.9	7.0	7.1		7.3	7.3	
11-Aug-17	Cloudy	Moderate	14:54		Surface	1.1	29.6 29.5	29.5	8.1 8.1	8.1	21.2 21.2	21.2	80.8 78.1	79.5	5.6 5.4	5.5	<b>5</b> 4	5.0 4.9	5.0		6.7 7.6	7.2	i
				10.8	Middle	5.4	27.9 28.0	27.9	8.1 8.1	8.1	23.1 23.0	23.0	77.7 75.9	76.8	5.4 5.3	5.3	5.4	5.1 4.9	5.0	5.0	7.7 8.6	8.2	7.9
					Bottom	9.8	27.3 27.6	27.5	8.0 8.0	8.0	26.8 26.5	26.6	71.9 74.1	73.0	5.0 5.2	5.1	5.1	5.1 5.1	5.1		7.6 8.9	8.3	
14-Aug-17	Sunny	Moderate	16:56		Surface	1.2	30.0 29.9	29.9	8.2 8.2	8.2	18.8 19.6	19.2	90.7 84.6	87.7	6.2 5.8	6.0	5.9	2.2 2.3	2.3		3.7 4.6	4.2	
				10.2	Middle	5.1	29.6 29.9	29.7	8.1 8.2	8.2	20.7 20.0	20.4	84.2 90.4	87.3	5.7 6.1	5.9	5.9	2.2 2.1	2.2	2.2	3.1 4.5	3.8	5.5
					Bottom	9.2	29.7 27.6	28.6	8.2 8.1	8.1	27.2 27.3	27.3	89.7 77.9	83.8	6.1 5.3	5.7	5.7	2.1 2.2	2.2		7.5 9.3	8.4	
16-Aug-17	Cloudy	Moderate	7:48		Surface	1.0	29.7 29.7	29.7	8.2 8.2	8.2	17.2 18.6	17.9	91.8 89.3	90.6	6.2 6.0	6.1	6.1	3.1 3.4	3.3		5.9 5.3	5.6	
				10.8	Middle	5.4	29.3 29.2	29.3	8.1 8.2	8.2	22.0 21.8	21.9	87.3 89.6	88.5	6.0 6.2	6.1	0.1	4.0 3.7	3.9	3.5	4.0 4.6	4.3	5.6
					Bottom	9.8	28.9 29.3	29.1	8.2 8.1	8.2	22.8 23.0	22.9	88.0 84.2	86.1	6.0 5.7	5.8	5.8	3.3 3.4	3.4		6.7 7.3	7.0	
18-Aug-17	Sunny	Moderate	10:22		Surface	1.1	29.6 29.7	29.7	8.3 8.3	8.3	17.2 16.7	17.0	92.1 85.3	88.7	6.4 5.9	6.1	5.7	2.3 2.3	2.3		3.7 4.9	4.3	
				10.2	Middle	5.1	27.9 28.1	28.0	8.2 8.2	8.2	25.4 24.9	25.2	79.6 76.5	78.1	5.4 5.2	5.3	0.1	4.1 4.5	4.3	3.6	4.8 5.4	5.1	5.1
					Bottom	9.2	26.3 26.2	26.3	8.2 8.2	8.2	30.7 30.8	30.7	74.5 73.6	74.1	5.1 5.0	5.0	5.0	4.1 4.5	4.3		6.4 5.6	6.0	
21-Aug-17	Sunny	Moderate	11:55		Surface	1.1	28.8 28.9	28.8	8.3 8.3	8.3	22.4 22.4	22.4	82.0 84.0	83.0	5.6 5.7	5.7	5.4	5.1 5.2	5.2		7.5 8.9	8.2	
				11.2	Middle	5.6	27.5 26.8	27.2	8.3 8.3	8.3	27.2 29.1	28.1	74.9 76.6	75.8	5.1 5.2	5.1	0.7	5.3 5.3	5.3	5.3	7.1 7.8	7.5	8.7
					Bottom	10.2	26.5 26.6	26.5	8.3 8.3	8.3	31.3 31.0	31.2	72.5 75.1	73.8	4.9 5.1	5.0	5.0	5.3 5.3	5.3		9.8 11.0	10.4	

## Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	15:11		Surface	1.1	28.1 28.1	28.1	8.1 8.1	8.1	24.2 24.6	24.4	79.1 84.4	81.8	5.4 5.8	5.6	5.5	5.7 5.7	5.7		9.2 8.4	8.8	
				9.7	Middle	4.8	27.8 28.1	27.9	8.1 8.1	8.1	25.3 24.9	25.1	78.9 81.7	80.3	5.4 5.6	5.5	5.5	5.6 5.6	5.6	5.7	7.8 8.9	8.4	8.7
					Bottom	8.7	27.8 27.7	27.8	8.1 8.1	8.1	25.6 27.3	26.4	81.0 78.6	79.8	5.5 5.3	5.4	5.4	5.7 5.8	5.8		9.0 9.1	9.1	
28-Aug-17	Rainy	Moderate	17:06		Surface	1.2	27.2 27.2	27.2	8.1 8.1	8.1	18.9 20.1	19.5	79.1 79.7	79.4	5.7 5.7	5.7	5.5	6.4 6.5	6.5		5.5 6.5	6.0	
				9.9	Middle	4.9	26.6 26.7	26.7	8.1 8.1	8.1	25.9 25.9	25.9	77.6 79.6	78.6	5.4 5.5	5.4	5.5	6.5 6.5	6.5	6.5	6.1 4.8	5.5	6.1
					Bottom	8.9	26.5 26.7	26.6	8.0 8.0	8.0	27.5 27.3	27.4	77.5 78.9	78.2	5.3 5.5	5.4	5.4	6.5 6.5	6.5		6.0 7.4	6.7	
30-Aug-17	Fine	Moderate	6:54		Surface	1.0	27.7 27.7	27.7	8.1 8.1	8.1	19.2 18.7	18.9	77.3 75.7	76.5	5.5 5.4	5.4	5.3	3.0 3.1	3.1		6.4 5.6	6.0	
				10.0	Middle	5.0	26.8 27.1	26.9	8.0 8.0	8.0	22.7 22.8	22.8	73.1 76.8	75.0	5.1 5.3	5.2	5.5	3.5 3.5	3.5	3.3	5.7 6.9	6.3	6.0
					Bottom	9.0	26.2 26.2	26.2	8.0 8.0	8.0	29.8 29.6	29.7	75.2 72.9	74.1	5.3 5.0	5.1	5.1	3.5 3.4	3.5		6.1 5.0	5.6	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ŀ	ъН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	۲	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:21		Surface	1.1	29.9 29.9	29.9	8.3 8.3	8.3	18.2 18.3	18.2	92.2 92.3	92.3	6.3 6.3	6.3	6.2	5.1 5.2	5.2		4.6 5.9	5.3	
				10.3	Middle	5.2	29.7 29.2	29.5	8.3 8.3	8.3	19.2 19.4	19.3	90.1 90.4	90.3	6.0 6.0	6.0	0.2	7.3 7.1	7.2	6.5	4.7 5.9	5.3	5.7
					Bottom	9.3	28.3 28.9	28.6	8.2 8.2	8.2	28.5 27.0	27.7	82.7 81.7	82.2	5.7 5.6	5.6	5.6	7.2 7.3	7.3		6.0 7.3	6.7	
4-Aug-17	Fine	Moderate	18:02		Surface	1.1	28.9 29.0	29.0	8.2 8.2	8.2	21.1 21.2	21.1	73.8 81.3	77.6	5.2 5.6	5.4		5.4 5.7	5.6		4.3 4.4	4.4	1
				10.3	Middle	5.2	28.4 28.1	28.3	8.2 8.1	8.2	23.5 23.9	23.7	77.5	75.8	5.5 5.2	5.3	5.4	5.5 5.5	5.5	5.6	5.5 4.7	5.1	4.6
					Bottom	9.3	28.0 28.3	28.2	8.1 8.1	8.1	27.5 27.4	27.4	69.7 74.1	71.9	5.0 5.2	5.1	5.1	5.6 5.6	5.6		4.2 4.5	4.4	
7-Aug-17	Sunny	Moderate	5:59		Surface	1.1	28.6 28.6	28.6	8.1 8.1	8.1	24.3 24.0	24.1	74.3 76.5	75.4	5.1 5.2	5.2		5.6 5.4	5.5		10.3 9.0	9.7	1
				10.5	Middle	5.2	27.5 27.5	27.5	8.1 8.1	8.1	27.9 28.0	27.9	73.0 73.6	73.3	5.0 5.1	5.1	5.1	5.5 5.5	5.5	5.5	9.6 10.6	10.1	10.6
					Bottom	9.5	27.5 26.7	27.1	8.1 8.1	8.1	30.1 30.9	30.5	72.0 71.5	71.8	4.9 4.9	4.9	4.9	5.6 5.6	5.6		12.3 11.8	12.1	
9-Aug-17	Cloudy	Moderate	7:23		Surface	1.0	29.3 29.3	29.3	8.1 8.1	8.1	21.1 21.1	21.1	75.6 77.4	76.5	5.2 5.3	5.2	5.2	4.3 4.2	4.3		2.7 3.2	3.0	
				11.1	Middle	5.5	28.4 28.2	28.3	8.1 8.1	8.1	24.6 25.1	24.8	74.8 77.4	76.1	5.1 5.2	5.2	5.2	4.4 4.2	4.3	4.3	2.1 3.4	2.8	3.1
					Bottom	10.1	27.0 27.1	27.1	8.1 8.1	8.1	29.3 29.0	29.1	74.5 73.0	73.8	5.1 4.9	5.0	5.0	4.4 4.5	4.5		3.8 3.1	3.5	
11-Aug-17	Cloudy	Moderate	8:39		Surface	1.1	28.9 28.8	28.8	8.0 8.0	8.0	21.0 21.1	21.0	75.3 75.8	75.6	5.3 5.2	5.3	5.2	6.4 6.4	6.4		4.6 5.5	5.1	
				10.8	Middle	5.4	28.3 28.4	28.3	8.0 8.0	8.0	22.4 22.3	22.3	75.0 74.5	74.8	5.2 5.2	5.2	5.2	6.5 6.5	6.5	6.5	4.2 5.4	4.8	5.0
					Bottom	9.8	28.4 27.9	28.1	8.0 8.0	8.0	25.5 25.8	25.6	73.9 72.6	73.3	5.2 5.1	5.1	5.1	6.4 6.5	6.5		5.7 4.6	5.2	
14-Aug-17	Sunny	Moderate	11:39		Surface	1.2	29.4 29.4	29.4	8.1 8.1	8.1	20.7 21.0	20.8	80.1 78.1	79.1	5.5 5.3	5.4	5.3	2.2 2.4	2.3		2.7 3.2	3.0	
				10.4	Middle	5.2	28.8 28.8	28.8	8.1 8.1	8.1	23.2 23.3	23.2	77.2 79.1	78.2	5.2 5.4	5.3	0.0	2.7 2.7	2.7	2.6	5.8 4.7	5.3	4.6
					Bottom	9.4	28.1 28.0	28.1	8.1 8.1	8.1	27.6 24.9	26.3	75.3 77.2	76.3	5.1 5.2	5.2	5.2	2.7 2.7	2.7		5.4 5.8	5.6	
16-Aug-17	Cloudy	Moderate	14:26		Surface	1.0	29.6 29.6	29.6	8.2 8.3	8.2	19.3 19.4	19.4	96.2 95.0	95.6	6.5 6.5	6.5	6.4	1.7 1.8	1.8		2.7 2.4	2.6	
				10.5	Middle	5.3	29.0 28.5	28.8	8.2 8.2	8.2	21.6 21.8	21.7	91.8 90.7	91.3	6.3 6.2	6.2	-	2.1 2.1	2.1	2.1	2.4 3.0	2.7	2.8
					Bottom	9.5	29.0 28.1	28.6	8.2 8.2	8.2	23.3 25.2	24.2	84.0 87.6	85.8	5.8 6.0	5.9	5.9	2.3 2.4	2.4		3.3 2.8	3.1	
18-Aug-17	Sunny	Moderate	16:55		Surface	1.2	29.7 29.5	29.6	8.4 8.4	8.4	19.6 20.0	19.8	114.4 112.4	113.4	7.8 7.7	7.7	7.0	2.3 2.3	2.3		8.4 9.2	8.8	
				10.9	Middle	5.4	28.6 28.7	28.7	8.3 8.3	8.3	22.4 22.5	22.5	93.0 91.6	92.3	6.4 6.2	6.3		2.6 2.6	2.6	2.9	9.6 9.2	9.4	8.8
					Bottom	9.9	28.3 27.1	27.7	8.3 8.2	8.3	22.7 28.3	25.5	89.9 87.4	88.7	6.2 6.0	6.1	6.1	3.7 3.9	3.8		8.6 8.0	8.3	
21-Aug-17	Sunny	Moderate	5:58		Surface	1.1	29.2 29.0	29.1	8.3 8.3	8.3	21.1 22.2	21.6	90.7 89.5	90.1	6.2 6.1	6.1	5.7	3.7 3.6	3.7		7.4 6.9	7.2	1
				11.1	Middle	5.5	26.3 26.4	26.4	8.3 8.3	8.3	30.7 30.7	30.7	82.5 75.5	79.0	5.6 5.1	5.3		3.8 3.7	3.8	3.8	7.4 7.2	7.3	7.1
					Bottom	10.1	25.9 26.0	26.0	8.3 8.3	8.3	32.8 32.5	32.6	74.2 78.4	76.3	5.0 5.3	5.2	5.2	3.9 3.8	3.9		7.4 6.1	6.8	

## Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-		-	-	-		-		-	-		-	-	
25-Aug-17	Sunny	Moderate	8:33		Surface	1.1	27.5 27.5	27.5	8.1 8.1	8.1	26.6 27.1	26.9	75.2 78.2	76.7	5.1 5.3	5.2	5.2	15.9 16.3	16.1		7.2 7.6	7.4	
				10.0	Middle	5.0	27.3 27.2	27.2	8.1 8.1	8.1	28.0 28.7	28.4	74.9 76.2	75.6	5.1 5.2	5.1	5.2	15.5 15.6	15.6	15.7	9.1 10.1	9.6	8.7
					Bottom	9.0	27.0 27.1	27.0	8.1 8.1	8.1	29.5 29.4	29.5	76.1 74.2	75.2	5.1 5.0	5.1	5.1	15.5 15.4	15.5		8.8 9.1	9.0	
28-Aug-17	Rainy	Moderate	10:52		Surface	1.2	26.8 26.8	26.8	8.1 8.1	8.1	23.3 22.9	23.1	83.9 90.5	87.2	5.9 6.2	6.0	6.0	4.4 4.5	4.5		6.6 6.3	6.5	
				10.1	Middle	5.1	26.6 26.6	26.6	8.1 8.1	8.1	25.8 25.9	25.8	85.8 83.6	84.7	6.0 5.8	5.9	0.0	4.8 4.9	4.9	4.7	5.9 5.9	5.9	6.6
					Bottom	9.1	26.5 26.5	26.5	8.0 8.1	8.1	27.7 27.6	27.7	82.4 85.7	84.1	5.7 6.0	5.8	5.8	4.8 4.8	4.8		7.4 7.3	7.4	
30-Aug-17	Fine	Moderate	14:42		Surface	1.2	28.8 28.9	28.8	8.1 8.1	8.1	18.9 18.7	18.8	79.0 79.3	79.2	5.5 5.5	5.5	5.3	3.5 3.5	3.5		8.1 6.3	7.2	
				10.4	Middle	5.2	27.1 27.1	27.1	8.0 8.0	8.0	24.6 25.2	24.9	72.7 77.1	74.9	5.0 5.3	5.1	5.5	3.3 3.2	3.3	3.6	7.2 8.4	7.8	7.4
					Bottom	9.4	26.6 26.6	26.6	8.0 8.0	8.0	28.7 29.1	28.9	72.2 74.5	73.4	5.0 5.2	5.1	5.1	4.1 4.0	4.1		6.9 7.7	7.3	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	۲	urbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-		-	-	
				1.3	Middle	0.6	30.3 30.3	30.3	8.5 8.5	8.5	19.0 19.0	19.0	127.0 129.6	128.3	8.6 8.8	8.7	0.7	5.8 5.8	5.8	5.8	12.9 11.3	12.1	12.1
					Bottom	-		-		-		-	-	-	-	-	•	-	-		-	-	
4-Aug-17	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-		-	-	
				1.3	Middle	0.7	29.1 29.4	29.2	8.2 8.3	8.2	19.0 19.1	19.1	78.9 78.8	78.9	5.6 5.6	5.6	0.0	7.5 7.5	7.5	7.5	6.4 6.2	6.3	6.3
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
7-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.5	Middle	0.8	29.7 29.7	29.7	8.2 8.2	8.2	20.3 20.2	20.3	80.6 81.0	80.8	5.5 5.5	5.5	5.5	7.6 7.6	7.6	7.6	9.5 8.6	9.1	9.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
9-Aug-17	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-		-	-	
				1.6	Middle	0.8	29.5 29.5	29.5	8.1 8.0	8.0	21.3 21.3	21.3	84.8 87.1	86.0	5.8 5.9	5.8	5.8	8.6 8.7	8.7	8.7	8.6 8.6	8.6	8.6
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
11-Aug-17	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-		-	-	
				1.4	Middle	0.7	29.5 29.5	29.5	8.2 8.2	8.2	18.0 17.8	17.9	86.6 88.5	87.6	6.0 6.1	6.1	6.1	6.4 6.4	6.4	6.4	10.0 8.7	9.4	9.4
					Bottom	-	-	-		-		-	-	-	-	-	-	-	-		-	-	
14-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				1.3	Middle	0.7	30.5 30.4	30.5	8.3 8.3	8.3	17.7 17.7	17.7	98.1 95.4	96.8	6.7 6.5	6.6	0.0	3.7 3.8	3.8	3.8	4.7 5.2	5.0	5.0
					Bottom	-		-		-		-	-	-	-	-	-	-	-		-	-	
16-Aug-17	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				1.5	Middle	0.8	29.7 29.7	29.7	8.2 8.2	8.2	20.1 20.1	20.1	96.5 95.8	96.2	6.6 6.5	6.5	0.0	2.4 2.6	2.5	2.5	5.4 4.3	4.9	4.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
18-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-		-	-	
				1.3	Middle	0.7	29.4 30.1	29.7	8.4 8.4	8.4	20.2 19.9	20.0	112.0 116.4	114.2	7.7 7.9	7.8	7.0	2.4 2.2	2.3	2.3	5.1 6.2	5.7	5.7
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
21-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-		-	-	
				1.7	Middle	0.9	29.1 29.1	29.1	8.3 8.3	8.3	22.2 22.3	22.2	95.0 95.2	95.1	6.5 6.5	6.5	0.0	5.2 4.8	5.0	5.0	6.6 7.5	7.1	7.1
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	

## Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	red Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	0:00		Surface	-	0.0 0.0	0.0	-	-	0.0 0.0	0.0	0.0 0.0	-	0.0 0.0	-	5.9	0.0 0.0	0.0		-	-	
				1.3	Middle	0.7	27.9 27.9	27.9	8.2 8.2	8.2	21.7 22.1	21.9	87.1 83.1	85.1	6.1 5.8	5.9	5.5	8.5 8.5	8.5	8.5	9.0 9.1	9.1	9.1
					Bottom	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	-	0.0 0.0	-		-	-	
28-Aug-17	Rainy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-		-	-	
				1.1	Middle	0.6	26.3 26.3	26.3	8.0 8.1	8.1	21.9 22.4	22.2	93.6 88.8	91.2	6.7 6.3	6.5	0.5	6.5 6.5	6.5	6.5	9.9 10.5	10.2	10.2
					Bottom	-	-	-	-	-	-	-		-		-	-	-	-		-	-	
30-Aug-17	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-		-	-	
				1.1	Middle	0.6	27.7 27.9	27.8	8.0 8.0	8.0	19.0 19.2	19.1	84.6 84.7	84.7	6.0 6.0	6.0	0.0	2.6 2.5	2.6	2.6	3.8 2.4	3.1	3.1
					Bottom	-	-	-	-	-	-	-		-		-	-	-	-		-	-	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ł	ъH	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxyger	(mg/L)	٦	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	-		Surface	-	-	-		-	-	-		-	-	-	8.8	-	-		-	-	
				1.2	Middle	0.6	30.1 30.1	30.1	8.5 8.5	8.5	19.0 18.8	18.9	134.7 123.6	129.2	9.2 8.4	8.8	0.0	4.6 4.6	4.6	4.6	9.1 7.9	8.5	8.5
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
4-Aug-17	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				1.6	Middle	0.8	29.5 29.5	29.5	8.2 8.3	8.2	20.3 20.4	20.4	95.8 96.2	96.0	6.5 6.6	6.5	0.0	7.5 7.4	7.5	7.5	11.5 10.9	11.2	11.2
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
7-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-		-	-	
				1.3	Middle	0.6	29.7 29.7	29.7	8.2 8.2	8.2	19.7 19.8	19.8	84.1 86.0	85.1	5.7 5.9	5.8	5.6	7.3 7.3	7.3	7.3	13.6 12.6	13.1	13.1
					Bottom	-	-	-		-	-	-		-	-	-	•	-	-		-	-	
9-Aug-17	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-		-	-	
				1.7	Middle	0.9	29.6 29.6	29.6	8.2 8.2	8.2	21.8 21.8	21.8	87.1 87.2	87.2	5.9 5.9	5.9	5.8	8.2 8.0	8.1	8.1	8.0 9.7	8.9	8.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
11-Aug-17	Cloudy	Moderate	-		Surface	-	-	-		-	-	-		-	-	-	5.4	-	-		-	-	
				1.3	Middle	0.7	29.3 29.3	29.3	8.1 8.1	8.1	21.7 21.7	21.7	79.2 79.3	79.3	5.4 5.4	5.4	0.4	7.6 7.3	7.5	7.5	11.9 10.7	11.3	11.3
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
14-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-		-	-	
				1.3	Middle	0.7	29.8 29.8	29.8	8.1 8.1	8.1	23.0 23.0	23.0	90.4 89.7	90.1	6.0 6.0	6.0		2.9 3.0	3.0	3.0	5.8 6.8	6.3	6.3
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>	-	-	
16-Aug-17	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-		-	-	
				1.6	Middle	0.8	29.9 29.9	29.9	8.5 8.5	8.5	16.7 16.8	16.7	102.9 103.9	103.4	7.1 7.2	7.1		3.6 3.4	3.5	3.5	3.5 3.2	3.4	3.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
18-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	9.8	-	-		-	-	_
				1.4	Middle	0.7	31.1 31.1	31.1	8.7 8.7	8.7	15.6 15.8	15.7	143.3 142.8	143.1	9.8 9.7	9.8		3.7 3.6	3.7	3.7	9.0 7.2	8.1	8.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>	-	-	
21-Aug-17	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-		-	-	
				1.7	Middle	0.8	29.0 29.0	29.0	8.3 8.3	8.3	22.4 22.4	22.4	94.2 94.4	94.3	6.4 6.4	6.4		4.8 5.0	4.9	4.9	7.6 8.1	7.9	7.9
					Bottom	-	-	-		-	-	-		-	-	-	•	-	-		-	-	

## Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Temper	ature (°C)	F	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	L.
25-Aug-17	Sunny	Moderate	0:00		Surface	-	0.0 0.0	0.0	-	-	0.0 0.0	0.0	0.0 0.0	-	0.0 0.0	-	5.5	0.0 0.0	0.0		-	-	
				1.2	Middle	0.6	27.5 27.5	27.5	8.1 8.1	8.1	27.7 27.7	27.7	82.0 79.5	80.8	5.6 5.4	5.5	5.5	10.4 10.5	10.5	10.5	15.6 15.2	15.4	15.4
					Bottom	-	0.0 0.0	-		-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	-	0.0 0.0	-		-	-	
28-Aug-17	Rainy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-		-	-	
				1.4	Middle	0.7	26.4 26.4	26.4	8.1 8.1	8.1	24.0 23.8	23.9	82.6 83.4	83.0	5.8 5.9	5.8	5.0	6.8 6.9	6.9	6.9	6.9 5.5	6.2	6.2
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
30-Aug-17	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				1.3	Middle	0.7	28.9 28.9	28.9	8.1 8.2	8.2	16.5 16.2	16.3	93.7 92.5	93.1	6.6 6.5	6.6	0.0	2.6 2.7	2.7	2.7	6.6 7.2	6.9	6.9
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:01		Surface	1.1	30.1 30.1	30.1	8.5 8.5	8.5	18.1 18.2	18.2	122.9 124.1	123.5	8.4 8.5	8.4		6.2 6.5	6.4		2.3 3.8	3.1	1
				3.7	Middle	-	-	-	-	-	-	-		-		-	8.4		-	6.4		-	3.6
					Bottom	2.7	30.1 30.1	30.1	8.5 8.5	8.5	19.0 18.8	18.9	123.0 122.6	122.8	8.4 8.3	8.4	8.4	6.5 6.5	6.5		3.9 4.4	4.2	
4-Aug-17	Fine	Moderate	11:41		Surface	1.1	29.3 29.3	29.3	8.2 8.2	8.2	19.7 20.2	20.0	74.5 77.9	76.2	5.2 5.5	5.3		10.9 10.8	10.9		6.6 6.9	6.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	10.8	-	-	7.4
					Bottom	2.6	29.2 29.1	29.2	8.2 8.2	8.2	23.1 23.2	23.1	77.7 73.9	75.8	5.4 5.1	5.2	5.2	10.7 10.8	10.8		7.2 8.7	8.0	
7-Aug-17	Sunny	Moderate	12:10		Surface	1.1	30.2 30.2	30.2	8.3 8.3	8.3	20.7 20.7	20.7	94.0 93.6	93.8	6.3 6.3	6.3		5.6 5.5	5.6		9.4 8.3	8.9	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	5.6	-	-	8.6
					Bottom	2.8	29.9 29.9	29.9	8.3 8.3	8.3	20.9 20.9	20.9	93.8 93.7	93.8	6.3 6.3	6.3	6.3	5.7 5.6	5.7		8.7 8.1	8.4	
9-Aug-17	Cloudy	Moderate	13:01		Surface	1.0	29.8 29.8	29.8	8.3 8.3	8.3	20.8 20.8	20.8	95.5 95.7	95.6	6.5 6.5	6.5	0.5	4.7 4.8	4.8		5.3 5.4	5.4	i
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	4.8	-	-	5.5
					Bottom	2.4	29.8 29.6	29.7	8.3 8.3	8.3	20.8 21.2	21.0	95.6 95.1	95.4	6.5 6.4	6.5	6.5	5.0 4.8	4.9		6.2 5.0	5.6	
11-Aug-17	Cloudy	Moderate	14:33		Surface	1.1	29.8 29.8	29.8	8.1 8.1	8.1	20.1 20.1	20.1	84.0 83.7	83.9	5.7 5.7	5.7	5.7	6.2 6.4	6.3		5.6 5.0	5.3	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	6.4	-	-	5.9
					Bottom	2.8	29.6 29.6	29.6	8.1 8.1	8.1	20.8 20.9	20.9	83.9 83.8	83.9	5.7 5.7	5.7	5.7	6.4 6.4	6.4		6.1 6.8	6.5	
14-Aug-17	Sunny	Moderate	16:33		Surface	1.1	30.3 30.4	30.4	8.2 8.2	8.2	20.3 20.2	20.2	99.4 99.7	99.6	6.7 6.7	6.7	6.7	5.2 5.1	5.2		7.8 8.3	8.1	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	5.2	-	-	8.8
					Bottom	2.8	30.3 30.2	30.3	8.2 8.2	8.2	20.3 20.4	20.3	99.2 98.9	99.1	6.7 6.7	6.7	6.7	5.2 5.2	5.2		10.0 9.2	9.6	
16-Aug-17	Cloudy	Moderate	8:26		Surface	1.1	29.8 29.8	29.8	8.2 8.2	8.2	20.4 20.2	20.3	89.5 90.4	90.0	6.1 6.1	6.1	6.1	10.5 10.6	10.6		9.0 8.1	8.6	
				3.5	Middle	•	-	-		-	-	-	-	-	-	-	0.1	-	-	11.3	-	-	9.4
					Bottom	2.5	29.6 29.6	29.6	8.2 8.2	8.2	20.7 20.8	20.7	89.7 88.2	89.0	6.1 6.0	6.0	6.0	11.8 12.2	12.0		10.0 10.3	10.2	
18-Aug-17	Sunny	Moderate	10:42		Surface	1.1	29.5 29.5	29.5	8.4 8.4	8.4	20.6 20.6	20.6	117.7 115.2	116.5	8.0 7.8	7.9	7.9	2.3 2.3	2.3		1.8 1.8	1.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	1.3	-	-	2.4	-	-	3.9
					Bottom	2.7	29.4 29.0	29.2	8.4 8.4	8.4	22.3 22.8	22.6	116.3 116.1	116.2	7.9 7.9	7.9	7.9	2.4 2.4	2.4		5.2 6.6	5.9	<u> </u>
21-Aug-17	Sunny	Moderate	11:32		Surface	1.0	29.9 29.9	29.9	8.5 8.5	8.5	21.1 21.1	21.1	117.6 124.4	121.0	7.9 8.4	8.2	8.2	4.2 4.0	4.1		6.5 5.7	6.1	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	0.2	-	-	4.2	-	-	6.6
					Bottom	2.4	29.7 29.8	29.8	8.5 8.5	8.5	21.5 21.1	21.3	124.4 120.6	122.5	7.9 8.1	8.0	8.0	4.2 4.2	4.2		7.0 7.0	7.0	1

## Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-		-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	14:45		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	25.2 25.2	25.2	88.9 83.8	86.4	6.0 5.7	5.9	5.9	6.1 6.4	6.3		6.2 7.1	6.7	
				3.7	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.9	0.0 0.0	-	6.2	-	-	6.8
					Bottom	2.7	28.0 27.9	27.9	8.1 8.1	8.1	25.9 26.0	25.9	82.4 84.9	83.7	5.6 5.8	5.7	5.7	6.1 6.2	6.2		7.2 6.5	6.9	
28-Aug-17	Rainy	Moderate	16:43		Surface	1.1	26.7 26.7	26.7	8.0 8.0	8.0	25.6 24.9	25.3	79.8 86.4	83.1	5.5 6.0	5.8	5.8	13.2 12.2	12.7		5.5 6.6	6.1	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	12.7	-	-	5.7
					Bottom	2.6	26.7 26.7	26.7	8.0 8.0	8.0	25.9 26.0	25.9	78.2 82.0	80.1	5.4 5.7	5.6	5.6	13.3 12.2	12.8		5.2 5.4	5.3	
30-Aug-17	Fine	Moderate	7:17		Surface	1.0	27.8 28.0	27.9	8.0 7.9	7.9	18.1 18.6	18.4	76.3 81.7	79.0	5.4 5.7	5.6	5.6	7.8 7.7	7.8		3.7 5.0	4.4	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	7.7	-	-	4.6
					Bottom	2.7	27.6 27.8	27.7	7.9 7.9	7.9	21.1 20.9	21.0	70.2 69.2	69.7	4.9 4.9	4.9	4.9	7.7 7.7	7.7		4.4 5.3	4.9	<u> </u>

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	٦	urbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:01		Surface	1.0	30.0 30.0	30.0	8.5 8.5	8.5	19.3 19.3	19.3	120.5 121.0	120.8	8.2 8.2	8.2	8.2	8.4 8.5	8.5		7.0 7.9	7.5	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	8.5	-	-	8.2
					Bottom	2.7	29.9 30.0	30.0	8.5 8.5	8.5	19.6 19.6	19.6	119.7 119.8	119.8	8.1 8.2	8.1	8.1	8.5 8.7	8.6		9.3 8.5	8.9	
4-Aug-17	Fine	Moderate	17:40		Surface	1.0	29.5 29.5	29.5	8.3 8.3	8.3	20.1 20.1	20.1	91.0 89.1	90.1	6.2 6.0	6.1	6.1	7.4 7.9	7.7		10.0 8.4	9.2	
				3.8	Middle	-	-	-	-	-		-		-	-	-	6.1	-	-	7.8	-	-	10.7
					Bottom	2.8	29.4 29.4	29.4	8.3 8.3	8.3	21.4 20.9	21.2	88.0 89.1	88.6	6.0 6.1	6.0	6.0	7.9 7.8	7.9		12.4 11.8	12.1	
7-Aug-17	Sunny	Moderate	6:18		Surface	1.1	29.6 29.6	29.6	8.2 8.2	8.2	21.9 21.6	21.7	74.6 75.0	74.8	5.0 5.1	5.1	5.1	5.2 5.2	5.2		5.9 6.4	6.2	
				3.7	Middle	-	-	-	-	-		-		-	-	-	5.1	-	-	5.2	-	-	8.0
					Bottom	2.7	29.4 28.6	29.0	8.1 8.1	8.1	23.3 23.8	23.6	74.9 73.4	74.2	5.0 5.0	5.0	5.0	5.2 5.2	5.2		10.0 9.8	9.9	
9-Aug-17	Cloudy	Moderate	7:45		Surface	1.1	29.5 29.5	29.5	8.1 8.1	8.1	20.6 20.5	20.6	75.9 79.3	77.6	5.2 5.4	5.3	5.3	5.1 5.2	5.2		3.6 3.6	3.6	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.2	-	-	4.6
					Bottom	2.5	29.5 29.4	29.4	8.1 8.1	8.1	20.6 21.1	20.9	76.7 74.9	75.8	5.2 5.1	5.2	5.2	5.2 5.1	5.2		6.0 5.1	5.6	
11-Aug-17	Cloudy	Moderate	8:59		Surface	1.1	29.2 29.2	29.2	8.0 8.0	8.0	19.9 19.9	19.9	77.5 76.0	76.8	5.3 5.2	5.3	5.3	3.4 3.2	3.3		3.1 4.3	3.7	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	3.3	-	-	4.7
					Bottom	2.8	28.8 29.2	29.0	8.0 8.0	8.0	20.4 20.0	20.2	75.1 76.7	75.9	5.2 5.3	5.2	5.2	3.3 3.3	3.3		6.2 5.2	5.7	
14-Aug-17	Sunny	Moderate	11:58		Surface	1.0	29.7 29.7	29.7	8.1 8.1	8.1	21.2 21.1	21.1	83.8 82.5	83.2	5.7 5.6	5.6	5.6	4.5 4.6	4.6		5.0 4.5	4.8	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	4.6	-	-	4.9
					Bottom	2.8	29.4 29.6	29.5	8.1 8.1	8.1	22.1 21.6	21.8	82.4 83.2	82.8	5.6 5.6	5.6	5.6	4.6 4.5	4.6		5.0 4.9	5.0	
16-Aug-17	Cloudy	Moderate	13:42		Surface	1.0	30.0 29.9	29.9	8.3 8.3	8.3	17.3 17.5	17.4	104.0 104.0	104.0	7.2 7.2	7.2	7.2	1.4 1.6	1.5		2.8 2.4	2.6	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	1.7	-	-	2.7
					Bottom	2.3	29.8 29.9	29.9	8.3 8.3	8.3	17.9 17.7	17.8	102.1 103.9	103.0	7.0 7.2	7.1	7.1	2.1 1.8	2.0		2.1 3.5	2.8	
18-Aug-17	Sunny	Moderate	16:32		Surface	1.1	30.3 30.3	30.3	8.5 8.5	8.5	16.9 17.1	17.0	123.1 123.9	123.5	8.4 8.5	8.5	0.5	6.3 6.5	6.4		7.2 7.9	7.6	
				3.4	Middle	-	-	-	-	-		-		-	-	-	8.5	-	-	6.5	-	-	8.3
					Bottom	2.4	30.3 30.3	30.3	8.5 8.5	8.5	17.0 16.9	16.9	120.3 115.3	117.8	8.3 7.9	8.1	8.1	6.5 6.5	6.5		8.6 9.4	9.0	
21-Aug-17	Sunny	Moderate	6:20		Surface	1.1	29.7 29.7	29.7	8.5 8.5	8.5	21.2 21.0	21.1	120.2 121.2	120.7	8.1 8.2	8.2	8.2	4.1 4.0	4.1		6.2 6.4	6.3	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	4.1	-	-	6.0
					Bottom	2.5	29.6 29.8	29.7	8.5 8.5	8.5	21.3 21.1	21.2	119.6 119.8	119.7	8.1 8.1	8.1	8.1	4.1 4.2	4.2	1	5.2 6.0	5.6	1

## Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	=
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:57		Surface	1.1	27.6 27.6	27.6	8.1 8.1	8.1	26.2 26.2	26.2	82.6 88.1	85.4	5.6 6.0	5.8	5.8	6.5 6.3	6.4		10.4 9.3	9.9	
				3.7	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.0	0.0 0.0	-	6.5	-	-	9.7
					Bottom	2.7	27.4 27.5	27.4	8.1 8.1	8.1	28.3 28.4	28.3	84.5 81.2	82.9	5.8 5.5	5.6	5.6	6.5 6.7	6.6		9.5 9.6	9.6	
28-Aug-17	Rainy	Moderate	11:24		Surface	1.1	26.8 26.8	26.8	8.1 8.1	8.1	24.0 24.1	24.1	88.2 92.5	90.4	6.2 6.5	6.3	6.3	5.2 5.3	5.3		10.7 9.2	10.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	5.3	-	-	10.7
					Bottom	2.7	26.8 26.8	26.8	8.1 8.1	8.1	23.8 23.9	23.9	89.5 87.6	88.6	6.3 6.1	6.2	6.2	5.3 5.4	5.4		11.8 11.1	11.5	
30-Aug-17	Fine	Moderate	14:16		Surface	1.0	28.8 28.7	28.7	8.0 8.0	8.0	16.8 17.1	17.0	77.6 76.8	77.2	5.5 5.4	5.4	5.4	11.1 11.3	11.2		8.4 7.9	8.2	
				3.7	Middle	-		-	-	-	-	-	-	-	-	-	5.4	-	-	11.3	-	-	8.1
					Bottom	2.7	28.1 27.9	28.0	8.0 8.0	8.0	21.4 21.1	21.2	76.2 78.0	77.1	5.3 5.4	5.4	5.4	11.4 11.2	11.3		7.2 8.7	8.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR5(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:42		Surface	1.0	29.8 29.9	29.8	7.9 8.0	7.9	16.4 16.4	16.4	85.3 88.9	87.1	5.9 6.2	6.0		5.5 5.5	5.5		7.7 7.4	7.6	
				7.8	Middle	3.9	29.4 29.2	29.3	7.9 7.8	7.9	17.2	17.2	83.7 84.5	84.1	5.6 5.7	5.7	5.9	5.7 5.7	5.7	5.8	7.5 7.5	7.5	7.1
					Bottom	6.8	28.9 29.2	29.0	7.8	7.8	24.4	24.1	75.7 77.9	76.8	5.3 5.4	5.3	5.3	6.1 6.0	6.1		6.2 6.2	6.2	
4-Aug-17	Fine	Moderate	11:07		Surface	0.9	28.9 28.9	28.9	8.1 8.1	8.1	20.1 20.1 20.1	20.1	80.7 78.9	79.8	5.9 5.8	5.8		7.6	7.8		3.2 4.2	3.7	
				7.5	Middle	3.7	28.5 28.4	28.5	8.1 8.0	8.0	20.1 21.2 21.6	21.4	72.0 73.6	72.8	5.2 5.3	5.3	5.6	10.8	10.5	9.6	5.0 5.4	5.2	5.0
					Bottom	6.5	28.2	28.2	8.0 8.0	8.0	26.5 26.6	26.5	70.5 69.7	70.1	5.2 5.2	5.2	5.2	10.2 10.2 10.7	10.5		6.3 5.8	6.1	
7-Aug-17	Sunny	Moderate	12:21		Surface	0.9	29.5 29.4	29.4	7.9 7.9 7.9	7.9	18.7 19.0	18.9	75.3 74.3	74.8	5.4 5.4	5.4		5.0 4.8	4.9		5.1 4.9	5.0	
				7.6	Middle	3.8	28.7 28.8	28.7	7.9 7.9	7.9	23.0 22.8	22.9	74.7 75.5	75.1	5.4 5.5	5.4	5.4	4.6	4.7	4.6	7.1	7.1	6.5
					Bottom	6.6	28.7 28.5	28.6	7.9	7.9	25.3 25.9	25.6	76.6 75.0	75.8	5.4 5.4	5.4	5.4	4.4	4.3		7.8	7.5	
9-Aug-17	Cloudy	Moderate	13:34		Surface	1.0	29.4 29.6	29.5	8.0 8.0	8.0	20.8 20.7	20.7	83.5 83.1	83.3	5.7 5.7	5.7		10.6 10.6	10.6		5.9 6.7	6.3	
				8.6	Middle	4.3	29.5 29.4	29.4	8.0 8.0	8.0	20.7 20.8	20.8	81.7 81.5	81.6	5.6 5.5	5.5	5.6	10.8	10.9	10.9	6.9 6.5	6.7	6.6
					Bottom	7.6	29.3 29.3	29.3	8.0 8.0	8.0	20.9 20.9	20.9	80.5 79.9	80.2	5.5 5.4	5.5	5.5	11.2 11.0	11.1		6.3 7.3	6.8	
11-Aug-17	Cloudy	Moderate	14:37		Surface	1.0	29.2 29.1	29.2	8.0 8.0	8.0	21.4 21.3	21.3	81.5 82.4	82.0	5.9 5.9	5.9	5.0	5.9 6.2	6.1		3.3 2.7	3.0	
				7.2	Middle	3.6	28.7 28.7	28.7	7.9 7.9	7.9	22.5 22.5	22.5	79.8 80.7	80.3	5.8 5.8	5.8	5.9	9.3 9.2	9.3	8.3	6.6 5.4	6.0	6.3
					Bottom	6.2	28.7 28.6	28.6	7.9 7.9	7.9	22.5 22.9	22.7	81.5 79.3	80.4	5.9 5.7	5.8	5.8	9.2 9.7	9.5		10.3 9.3	9.8	
14-Aug-17	Sunny	Moderate	16:42		Surface	1.1	29.7 29.4	29.6	7.8 7.8	7.8	17.7 17.9	17.8	84.8 85.4	85.1	5.8 5.9	5.8	5.8	4.3 4.2	4.3		4.9 4.4	4.7	
				8.7	Middle	4.3	29.3 29.3	29.3	7.8 7.8	7.8	18.7 18.9	18.8	83.7 84.8	84.3	5.8 5.9	5.8	5.0	4.5 4.4	4.5	4.5	4.2 3.4	3.8	4.2
					Bottom	7.7	29.2 29.3	29.3	7.8 7.8	7.8	20.3 20.4	20.3	83.5 83.9	83.7	5.8 5.8	5.8	5.8	4.7 4.6	4.7		3.6 4.9	4.3	
16-Aug-17	Cloudy	Moderate	7:41		Surface	1.1	29.3 29.3	29.3	7.7 7.7	7.7	15.8 15.6	15.7	78.7 77.7	78.2	5.5 5.5	5.5	5.3	3.1 3.1	3.1		4.3 4.0	4.2	
				8.2	Middle	4.1	28.6 28.9	28.8	7.6 7.6	7.6	21.9 21.6	21.8	74.9 74.3	74.6	5.1 5.1	5.1	0.0	3.2 3.4	3.3	3.2	5.3 5.0	5.2	4.7
					Bottom	7.2	28.3 28.3	28.3	7.6 7.6	7.6	24.3 24.4	24.3	71.6 73.7	72.7	4.9 5.0	5.0	5.0	3.3 3.3	3.3		4.5 5.1	4.8	
18-Aug-17	Sunny	Moderate	10:10		Surface	1.0	29.8 30.0	29.9	7.8 7.8	7.8	14.1 12.9	13.5	90.6 91.2	90.9	6.4 6.4	6.4	6.3	3.6 3.4	3.5		3.7 3.6	3.7	
				8.7	Middle	4.3	29.5 29.4	29.4	7.8 7.8	7.8	15.2 16.2	15.7	90.1 88.2	89.2	6.3 6.2	6.2		3.7 3.8	3.8	3.7	2.7 3.5	3.1	3.1
					Bottom	7.7	29.3 28.4	28.9	7.7 7.7	7.7	20.7 22.6	21.7	82.1 83.5	82.8	5.7 5.7	5.7	5.7	3.9 3.9	3.9		2.2 3.1	2.7	
21-Aug-17	Sunny	Moderate	12:06		Surface	1.0	29.6 29.6	29.6	7.9 7.9	7.9	18.6 18.4	18.5	89.1 85.3	87.2	6.1 5.9	6.0	5.7	3.6 3.9	3.8		3.5 3.6	3.6	
				8.2	Middle	4.1	28.5 28.3	28.4	7.9 7.9	7.9	21.2 22.2	21.7	78.9 78.7	78.8	5.5 5.4	5.4	-	5.0 5.3	5.2	4.7	4.7 4.7	4.7	5.0
					Bottom	7.2	28.0 28.1	28.1	7.9 7.9	7.9	23.3 22.2	22.8	79.3 77.7	78.5	5.5 5.4	5.4	5.4	5.5 5.1	5.3		6.9 6.6	6.8	

## Water Quality Monitoring Results at SR5(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	iration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-	-	-		-		-	-	-	-	-	-		-	-	L
25-Aug-17	Sunny	Moderate	15:06		Surface	1.1	28.4 28.4	28.4	7.7 7.6	7.6	22.4 22.4	22.4	78.8 79.6	79.2	5.4 5.5	5.4	5.4	8.8 8.6	8.7		8.9 8.0	8.5	
				8.0	Middle	4.0	27.5 27.5	27.5	7.6 7.7	7.7	24.8 24.7	24.8	77.5 77.7	77.6	5.3 5.3	5.3	5.4	9.6 9.7	9.7	9.8	8.6 8.1	8.4	9.0
					Bottom	7.0	27.4 27.4	27.4	7.7 7.7	7.7	26.0 26.0	26.0	81.0 80.9	81.0	5.5 5.5	5.5	5.5	10.9 11.4	11.2		9.7 10.5	10.1	
28-Aug-17	Rainy	Moderate	16:50		Surface	1.1	27.4 27.4	27.4	7.4 7.4	7.4	19.2 19.2	19.2	78.4 78.0	78.2	5.6 5.5	5.6	5.5	5.6 5.8	5.7		5.6 4.5	5.1	
				8.0	Middle	4.0	27.2 27.1	27.1	7.4 7.4	7.4	22.5 22.5	22.5	77.7 78.4	78.1	5.5 5.5	5.5	5.5	6.3 6.4	6.4	6.5	5.6 5.1	5.4	5.5
					Bottom	7.0	26.7 26.7	26.7	7.4 7.4	7.4	27.8 27.8	27.8	77.7 77.5	77.6	5.3 5.4	5.4	5.4	7.6 7.2	7.4		6.6 5.5	6.1	
30-Aug-17	Fine	Moderate	7:01		Surface	1.1	28.0 28.0	28.0	7.5 7.5	7.5	15.4 15.4	15.4	76.4 76.1	76.3	5.5 5.5	5.5	5.3	5.1 5.3	5.2		5.1 5.7	5.4	
				8.2	Middle	4.1	27.0 27.0	27.0	7.4 7.4	7.4	23.2 23.4	23.3	73.4 73.1	73.3	5.1 5.1	5.1	5.5	5.3 5.2	5.3	5.4	5.1 4.6	4.9	5.7
					Bottom	7.2	26.4 26.4	26.4	7.4 7.4	7.4	27.9 28.0	28.0	69.9 69.5	69.7	4.8 4.8	4.8	4.8	5.5 5.7	5.6		5.6 8.3	7.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR5(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	Ü)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:03		Surface	1.0	29.8 29.8	29.8	8.1 8.1	8.1	14.3 14.4	14.3	98.8 100.3	99.6	6.8 7.0	6.9	6.8	8.2 8.4	8.3		6.6 7.6	7.1	
				7.6	Middle	3.8	29.6 29.7	29.7	8.0 8.1	8.1	16.4 16.7	16.5	96.1 98.3	97.2	6.7 6.8	6.8	0.0	8.7 8.4	8.6	9.1	6.3 6.0	6.2	6.9
					Bottom	6.6	29.4 28.8	29.1	8.0 8.0	8.0	20.1 20.0	20.0	90.9 89.8	90.4	6.3 6.2	6.3	6.3	10.8 10.3	10.6		7.8 7.3	7.6	
4-Aug-17	Fine	Moderate	17:48		Surface	1.1	29.2 29.1	29.1	7.9 8.0	8.0	16.6 16.8	16.7	86.6 81.2	83.9	6.1 5.8	6.0		8.7 8.6	8.7		5.8 4.2	5.0	
				7.8	Middle	3.9	28.6 28.5	28.6	7.9 7.9 7.9	7.9	21.2 21.2	21.2	78.8 80.5	79.7	5.4 5.5	5.5	5.7	9.3 9.0	9.2	9.2	6.8 5.5	6.2	6.2
					Bottom	6.8	27.9 28.1	28.0	7.9	7.9	27.5 27.0	27.3	77.3 76.2	76.8	5.4 5.3	5.4	5.4	9.5 10.2	9.9		6.7 7.9	7.3	
7-Aug-17	Sunny	Moderate	6:19		Surface	1.0	29.3 29.1	29.2	7.9	7.9	18.9 19.7	19.3	74.9 75.3	75.1	5.3 5.4	5.4		5.7	5.5		8.7 8.3	8.5	
				8.0	Middle	4.0	28.5 28.5	28.5	7.8	7.8	23.8 24.1	23.9	74.9 75.0	75.0	5.4 5.4	5.4	5.4	5.4 5.6	5.5	5.6	11.4 10.2	10.8	9.9
					Bottom	7.0	28.4 28.6	28.5	7.8	7.8	24.8	24.7	73.8	74.4	5.3 5.4	5.3	5.3	5.6 5.8	5.7		10.2 10.2 10.4	10.3	
9-Aug-17	Cloudy	Moderate	7:40		Surface	1.0	29.4 29.4	29.4	7.9 7.9 7.9	7.9	20.2 20.2 20.4	20.3	79.8	80.0	5.5 5.5	5.5		7.4	7.4		5.5 6.6	6.1	
				8.7	Middle	4.3	29.0 29.3	29.1	7.8	7.9	20.4 21.0 20.7	20.8	78.6 78.1	78.4	5.3 5.3	5.3	5.4	7.5	7.6	7.6	5.3 5.5	5.4	5.7
					Bottom	7.7	29.1 29.2	29.1	7.8	7.9	22.7 21.3	22.0	76.2	75.7	5.2 5.1	5.2	5.2	7.9	7.9		5.7 5.4	5.6	
11-Aug-17	Cloudy	Moderate	8:58		Surface	1.0	28.9	28.9	7.8	7.9	21.0	21.1	78.4	78.2	5.7 5.7	5.7		4.6	4.7		5.5 4.6	5.1	
				7.7	Middle	3.8	28.8 28.8	28.8	7.8	7.9	21.2	21.2	76.5 76.8	76.7	5.5 5.6	5.6	5.6	4.6	4.5	4.5	7.4	6.9	7.0
					Bottom	6.7	28.8 28.8	28.8	7.8	7.9	21.4 21.4	21.4	76.4 76.8	76.6	5.5 5.5	5.5	5.5	4.6	4.4		9.6 8.5	9.1	
14-Aug-17	Sunny	Moderate	11:47		Surface	1.0	29.6 29.5	29.5	7.9	7.9	17.1	17.1	84.5 84.2	84.4	5.8 5.8	5.8		3.3 3.2	3.3		3.7 4.5	4.1	
				8.8	Middle	4.4	29.2 29.2 29.2	29.2	7.9	7.9	19.4	19.7	83.7 84.2	84.0	5.8 5.7	5.8	5.8	3.4 3.6	3.5	3.5	3.0 4.9	4.0	4.1
					Bottom	7.8	29.2 28.8	29.0	7.8	7.9	22.5 22.2	22.4	81.5 81.4	81.5	5.6 5.6	5.6	5.6	3.8 3.7	3.8		4.6	4.4	
16-Aug-17	Cloudy	Moderate	13:57		Surface	1.1	29.7 29.7	29.7	7.8	7.8	15.8 15.7	15.8	92.6 93.2	92.9	6.5 6.5	6.5		3.1 2.9	3.0		3.3 4.9	4.1	
				9.9	Middle	4.9	29.1 29.1	29.1	7.7	7.7	21.7	21.9	74.7 79.5	77.1	5.1 5.4	5.2	5.9	4.5	4.6	4.0	3.1	3.1	6.8
					Bottom	8.9	26.4 26.4	26.4	7.6	7.6	30.7 30.8	30.8	73.0 72.3	72.7	4.9	4.9	4.9	4.5	4.6		12.3 13.9	13.1	
18-Aug-17	Sunny	Moderate	17:17		Surface	1.1	30.5 30.5	30.5	8.0 8.0	8.0	13.9 13.6	13.7	111.2 111.6	111.4	7.9	7.8		3.2 3.1	3.2		3.3	3.2	
				8.8	Middle	4.4	30.3 30.3	30.3	8.0 8.0	8.0	14.8 14.1	14.4	110.7 110.0	110.4	7.7	7.7	7.8	3.5 3.6	3.6	3.5	2.8	2.6	3.0
					Bottom	7.8	30.3 30.0	30.2	8.0 8.0	8.0	15.7	17.2	105.8	107.4	7.3	7.4	7.4	3.6 3.8	3.7		3.4	3.1	1
21-Aug-17	Sunny	Moderate	6:19		Surface	1.0	28.8 28.6	28.7	7.9	7.9	19.8 19.9	19.8	82.0 81.6	81.8	5.7 5.7	5.7		6.7 6.2	6.5		5.9 7.0	6.5	
				7.8	Middle	3.9	28.4 28.1	28.2	7.9 7.9 7.9	7.9	22.1 22.4	22.3	80.2 79.0	79.6	5.5 5.5	5.5	5.6	7.2 7.5	7.4	7.0	6.4 6.9	6.7	6.7
					Bottom	6.8	27.4	27.8	7.9	7.9	26.3	25.4	80.1	80.4	5.5	5.5	5.5	7.4	7.2		6.5	7.0	1
						2.0	28.3		7.9		24.5		80.7		5.5	2.0	2.10	7.0			7.4		1

## Water Quality Monitoring Results at SR5(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-		-		-	-	-	-	-	-	<u>-</u>	-	-	=
					Bottom		-	-	-	-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:45		Surface	1.1	27.2 27.3	27.2	7.6 7.6	7.6	26.1 26.1	26.1	76.3 75.7	76.0	5.2 5.2	5.2	5.2	12.5 12.4	12.5		21.2 21.1	21.2	
				8.2	Middle	4.1	27.2 27.2	27.2	7.6 7.6	7.6	26.3 26.4	26.4	75.6 74.8	75.2	5.2 5.1	5.2	5.2	13.8 13.8	13.8	13.5	20.2 20.7	20.5	20.2
					Bottom	7.2	27.1 27.1	27.1	7.6 7.6	7.6	26.7 26.7	26.7	76.3 75.6	76.0	5.2 5.2	5.2	5.2	14.2 14.3	14.3		19.3 18.7	19.0	
28-Aug-17	Rainy	Moderate	11:03		Surface	1.1	27.1 27.0	27.1	7.5 7.6	7.6	22.1 22.2	22.1	81.4 81.7	81.6	5.7 5.8	5.7	5.6	5.9 5.8	5.9		9.3 7.9	8.6	
				8.2	Middle	4.1	26.7 26.7	26.7	7.5 7.6	7.5	25.7 25.8	25.8	78.8 79.4	79.1	5.5 5.5	5.5	5.0	6.5 6.7	6.6	6.5	8.8 7.5	8.2	8.2
					Bottom	7.2	26.6 26.6	26.6	7.5 7.5	7.5	28.2 28.2	28.2	78.4 79.3	78.9	5.4 5.4	5.4	5.4	7.1 7.2	7.2		7.7 7.9	7.8	
30-Aug-17	Fine	Moderate	15:09		Surface	1.1	29.8 29.8	29.8	7.5 7.5	7.5	12.0 12.0	12.0	84.9 84.1	84.5	6.0 6.0	6.0	5.7	5.6 5.9	5.8		9.1 7.8	8.5	
				8.4	Middle	4.2	27.5 27.5	27.5	7.5 7.4	7.5	21.0 21.0	21.0	75.8 75.7	75.8	5.3 5.3	5.3	5.7	4.3 4.1	4.2	5.1	8.7 8.6	8.7	8.5
					Bottom	7.4	26.4 26.5	26.5	7.4 7.4	7.4	27.7 27.8	27.8	72.5 73.3	72.9	5.0 5.0	5.0	5.0	5.5 5.4	5.5		8.4 8.6	8.5	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	ъН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	10:40		Surface	1.0	29.9 29.9	29.9	8.0 8.0	8.0	15.7 15.8	15.7	94.8 92.4	93.6	6.6 6.4	6.5	6.5	4.7 4.7	4.7		6.8 5.5	6.2	1
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	4.6	-	-	6.9
					Bottom	2.9	29.8 29.9	29.9	8.0 8.0	8.0	16.5 16.2	16.4	91.5 94.5	93.0	6.3 6.6	6.4	6.4	4.4 4.5	4.5		7.8 7.4	7.6	
4-Aug-17	Fine	Moderate	12:04		Surface	1.0	29.1 29.1	29.1	8.0 8.0	8.0	18.8 18.7	18.8	98.8 98.6	98.7	6.9 6.9	6.9		3.4 3.6	3.5		5.0 3.9	4.5	
				3.8	Middle	-	-	-	-	-		-		-	-	-	6.9	-	-	3.5	-	-	5.6
					Bottom	2.8	29.1 29.1	29.1	8.0 8.1	8.0	19.2 19.2	19.2	98.8 97.8	98.3	6.9 6.8	6.9	6.9	3.4 3.7	3.6		7.0 6.5	6.8	
7-Aug-17	Sunny	Moderate	11:24		Surface	1.0	29.4 29.3	29.4	7.9 8.0	7.9	19.0 19.3	19.2	74.6 73.6	74.1	5.4 5.3	5.4	5.4	6.0 5.9	6.0		8.1 9.6	8.9	
				4.3	Middle	-	-	-	-	-		-	-	-	-	-	5.4	-	-	5.9	-	-	8.8
					Bottom	3.3	29.4 29.3	29.3	8.0 7.9	8.0	19.8 19.6	19.7	73.4 73.9	73.7	5.3 5.3	5.3	5.3	5.6 6.1	5.9		9.1 8.3	8.7	
9-Aug-17	Cloudy	Moderate	12:30		Surface	1.0	29.3 29.2	29.3	8.0 8.0	8.0	21.0 21.0	21.0	83.7 83.1	83.4	5.7 5.7	5.7	5.7	10.2 10.3	10.3		8.6 7.8	8.2	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	10.4	-	-	8.3
					Bottom	3.1	29.2 29.1	29.1	8.0 8.0	8.0	21.2 21.6	21.4	82.5 82.3	82.4	5.6 5.6	5.6	5.6	10.5 10.6	10.6		8.2 8.5	8.4	
11-Aug-17	Cloudy	Moderate	13:37		Surface	1.0	29.5 29.5	29.5	8.0 8.0	8.0	19.9 19.8	19.8	83.0 83.2	83.1	6.0 6.0	6.0	6.0	5.1 5.1	5.1		3.9 3.3	3.6	
				3.9	Middle	-	-	-	-	-		-		-	-	-	0.0	-	-	5.2	-	-	3.4
					Bottom	2.9	29.3 29.3	29.3	8.0 8.0	8.0	20.9 20.8	20.9	82.1 82.5	82.3	5.9 5.9	5.9	5.9	5.3 5.1	5.2		3.1 3.1	3.1	
14-Aug-17	Sunny	Moderate	15:41		Surface	1.0	29.7 29.8	29.7	7.8 7.9	7.9	17.8 18.0	17.9	88.8 89.9	89.4	6.1 6.2	6.1	6.1	4.2 4.2	4.2		8.0 7.1	7.6	
				4.0	Middle	-	-	-	-	-		-		-	-	-	0.1	-	-	4.4	-	-	8.1
					Bottom	3.0	29.5 29.6	29.5	7.8 7.9	7.9	19.1 19.0	19.0	88.6 88.1	88.4	6.1 6.1	6.1	6.1	4.6 4.5	4.6		8.9 8.5	8.7	
16-Aug-17	Cloudy	Moderate	8:50		Surface	1.1	29.1 29.1	29.1	7.7 7.7	7.7	17.4 18.4	17.9	77.7 78.4	78.1	5.4 5.4	5.4	5.4	3.2 3.0	3.1		4.1 5.1	4.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	3.2	-	-	4.3
					Bottom	3.2	29.0 29.1	29.0	7.7 7.7	7.7	20.0 20.0	20.0	77.9 78.4	78.2	5.4 5.4	5.4	5.4	3.3 3.3	3.3		4.0 4.1	4.1	
18-Aug-17	Sunny	Moderate	11:11		Surface	1.1	29.8 29.7	29.7	7.8 7.8	7.8	15.3 15.3	15.3	87.0 87.8	87.4	6.0 6.0	6.0	6.0	3.2 3.1	3.2		5.2 5.2	5.2	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.5	-	-	5.6
					Bottom	3.1	27.8 27.9	27.8	7.7 7.7	7.7	24.7 24.4	24.6	86.0 86.0	86.0	5.9 5.7	5.8	5.8	3.8 3.8	3.8		6.4 5.5	6.0	
21-Aug-17	Sunny	Moderate	11:08		Surface	1.0	29.0 29.3	29.1	7.9 7.9	7.9	18.9 18.8	18.8	88.2 87.8	88.0	6.1 6.1	6.1	6.1	4.2 3.7	4.0		5.6 5.1	5.4	<u>ך                                    </u>
				4.1	Middle	-	-	-	-	-		-		-	-	-	0.1	-	-	4.0	-	-	7.1
					Bottom	3.1	28.7 28.8	28.8	8.0 7.9	7.9	20.5 20.6	20.5	85.1 85.7	85.4	5.9 5.9	5.9	5.9	4.1 3.9	4.0		8.4 9.3	8.9	

## Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	1
25-Aug-17	Sunny	Moderate	14:17		Surface	1.0	28.1 28.1	28.1	7.7 7.7	7.7	24.0 24.0	24.0	77.8 77.9	77.9	5.3 5.3	5.3	5.3	5.7 5.9	5.8		5.9 7.3	6.6	
				3.8	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.5	0.0 0.0	-	6.4	-	-	8.2
					Bottom	2.8	26.6 26.6	26.6	7.6 7.6	7.6	27.8 27.9	27.9	79.2 78.7	79.0	5.4 5.4	5.4	5.4	7.2 6.8	7.0		9.8 9.9	9.9	
28-Aug-17	Rainy	Moderate	16:01		Surface	1.0	27.4 27.4	27.4	7.2 7.3	7.3	16.2 16.3	16.2	85.3 84.0	84.7	6.2 6.1	6.1	6.1	5.0 5.3	5.2		2.3 4.1	3.2	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	5.3	-	-	3.9
					Bottom	2.8	27.1 27.1	27.1	7.2 7.3	7.3	19.7 19.7	19.7	82.2 83.3	82.8	5.9 5.9	5.9	5.9	5.4 5.6	5.5		3.8 5.2	4.5	L
30-Aug-17	Fine	Moderate	7:58		Surface	1.0	28.0 28.0	28.0	7.5 7.4	7.5	10.0 10.0	10.0	74.8 74.7	74.8	5.5 5.5	5.5	5.5	6.6 6.3	6.5		8.8 8.9	8.9	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.5	-	-	8.9
					Bottom	2.8	26.6 26.6	26.6	7.4 7.4	7.4	25.9 25.9	25.9	74.5 74.3	74.4	5.2 5.2	5.2	5.2	4.4 4.6	4.5		8.6 9.3	9.0	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	ended Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	15:03		Surface	1.0	29.8 29.8	29.8	8.0 8.0	8.0	14.4 14.4	14.4	100.9 99.2	100.1	7.1 7.0	7.0	7.0	7.3 7.5	7.4		8.7 8.9	8.8	
				4.0	Middle	-	-	-		-	-	-		-	-	-	7.0	-	-	7.1	-	-	9.0
					Bottom	3.0	29.8 29.8	29.8	8.1 8.0	8.1	15.5 17.0	16.2	98.4 100.0	99.2	6.9 6.9	6.9	6.9	6.9 6.7	6.8		9.4 9.1	9.3	
4-Aug-17	Fine	Moderate	16:50		Surface	1.0	29.2 29.1	29.1	7.9 7.9	7.9	17.4 17.2	17.3	93.0 94.1	93.6	6.6 6.7	6.6	6.6	4.7 4.7	4.7		6.3 5.2	5.8	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.7	-	-	5.7
					Bottom	2.9	28.9 29.0	28.9	7.9 7.9	7.9	20.6 20.7	20.7	97.7 92.5	95.1	6.8 6.5	6.6	6.6	4.7 4.8	4.8		5.1 6.2	5.7	
7-Aug-17	Sunny	Moderate	7:16		Surface	1.0	29.4 29.4	29.4	7.9 7.9	7.9	19.0 18.8	18.9	74.9 74.9	74.9	5.4 5.4	5.4	5.4	5.7 6.0	5.9		8.9 7.3	8.1	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.8	-	-	8.7
					Bottom	3.1	29.2 29.4	29.3	7.9 7.9	7.9	19.8 19.7	19.7	74.5 74.8	74.7	5.3 5.4	5.4	5.4	5.5 5.9	5.7		8.6 9.8	9.2	
9-Aug-17	Cloudy	Moderate	8:44		Surface	1.1	29.1 29.2	29.2	7.9 7.9	7.9	20.6 20.6	20.6	75.4 75.5	75.5	5.2 5.1	5.1	5.1	8.4 8.5	8.5		7.4 7.9	7.7	
				4.2	Middle	-	-	-		-	-	-	-	-	-	-	5.1	-	-	8.6	-	-	7.2
					Bottom	3.2	28.8 29.2	29.0	7.9 7.9	7.9	22.9 22.7	22.8	74.9 74.8	74.9	5.1 5.1	5.1	5.1	8.7 8.6	8.7		7.0 6.3	6.7	
11-Aug-17	Cloudy	Moderate	9:57		Surface	1.0	28.8 28.8	28.8	7.8 7.9	7.9	21.8 21.8	21.8	76.6 76.4	76.5	5.6 5.6	5.6	5.6	5.1 4.7	4.9		5.6 4.3	5.0	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	5.5	-	-	5.1
					Bottom	3.2	28.7 28.8	28.7	7.9 7.8	7.9	22.0 21.9	22.0	75.9 76.3	76.1	5.5 5.5	5.5	5.5	6.3 6.0	6.2		5.1 5.5	5.3	
14-Aug-17	Sunny	Moderate	12:47		Surface	1.0	29.5 29.5	29.5	7.9 7.9	7.9	17.1 16.7	16.9	86.1 86.2	86.2	5.9 5.9	5.9	5.9	3.5 3.6	3.6		2.7 3.4	3.1	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	3.7	-	-	3.6
					Bottom	3.1	28.9 29.4	29.2	7.9 7.9	7.9	22.0 20.5	21.2	84.8 84.5	84.7	5.9 5.9	5.9	5.9	3.8 3.8	3.8		4.4 3.7	4.1	
16-Aug-17	Cloudy	Moderate	12:50		Surface	1.1	28.8 28.6	28.7	7.5 7.5	7.5	20.5 21.0	20.8	72.7 75.5	74.1	5.0 5.2	5.1	5.1	4.1 4.0	4.1		5.0 5.9	5.5	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	4.2	-	-	5.6
					Bottom	3.2	28.5 28.2	28.3	7.5 7.5	7.5	23.1 23.8	23.4	71.9 70.2	71.1	5.0 4.8	4.9	4.9	4.4 4.2	4.3		5.8 5.7	5.8	
18-Aug-17	Sunny	Moderate	16:22		Surface	1.1	29.4 30.0	29.7	7.9 7.9	7.9	19.6 15.8	17.7	103.4 101.7	102.6	7.1 7.1	7.1	7.4	4.8 4.7	4.8		4.6 5.3	5.0	
				4.2	Middle	-	-	-		-	-	-	-	-	-	-	7.1	-	-	5.0	-	-	5.0
					Bottom	3.2	30.4 28.3	29.3	8.0 7.9	7.9	22.9 23.8	23.4	96.9 94.7	95.8	6.7 6.5	6.6	6.6	5.2 5.1	5.2		4.8 5.4	5.1	
21-Aug-17	Sunny	Moderate	7:12		Surface	0.9	28.8 28.7	28.8	7.9 7.9	7.9	20.1 20.5	20.3	88.2 87.8	88.0	6.1 6.1	6.1	6.4	4.8 4.9	4.9		3.9 4.6	4.3	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	4.8	-	-	4.2
					Bottom	3.3	28.5 28.8	28.6	7.9 7.9	7.9	21.9 21.5	21.7	88.2 88.0	88.1	6.1 6.0	6.0	6.0	4.7 4.7	4.7		3.6 4.8	4.2	

## Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	Т	Turbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	9:36		Surface	1.0	27.8 27.7	27.8	7.6 7.6	7.6	22.4 22.4	22.4	75.4 75.2	75.3	5.2 5.2	5.2	5.2	10.1 10.3	10.2		7.3 7.6	7.5	
				4.0	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.2	0.0 0.0	-	11.2	-	-	7.7
					Bottom	3.0	27.4 27.4	27.4	7.6 7.7	7.7	25.6 25.6	25.6	79.5 79.4	79.5	5.4 5.5	5.4	5.4	12.0 12.3	12.2		7.5 8.5	8.0	
28-Aug-17	Rainy	Moderate	11:51		Surface	1.1	27.4 27.4	27.4	7.5 7.5	7.5	19.3 19.3	19.3	80.3 80.3	80.3	5.7 5.7	5.7	5.7	8.4 8.3	8.4		9.0 9.7	9.4	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	8.9	-	-	9.0
					Bottom	3.1	27.2 27.2	27.2	7.4 7.4	7.4	21.1 21.2	21.2	80.6 80.7	80.7	5.7 5.7	5.7	5.7	9.2 9.6	9.4		8.3 8.9	8.6	
30-Aug-17	Fine	Moderate	14:12		Surface	1.0	28.5 28.6	28.5	7.2 7.2	7.2	13.7 13.8	13.7	77.1 77.7	77.4	5.5 5.6	5.6	5.6	6.3 6.1	6.2		7.5 7.6	7.6	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	5.6	-	-	5.9	-	-	8.2
					Bottom	2.7	27.9 27.9	27.9	7.1 7.1	7.1	17.6 17.6	17.6	76.3 75.8	76.1	5.4 5.4	5.4	5.4	5.5 5.6	5.6		8.4 9.1	8.8	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	ъН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	9:17		Surface	1.0	29.9 29.9	29.9	7.9 7.8	7.9	16.3 16.3	16.3	98.3 98.1	98.2	6.8 6.8	6.8	6.8	4.3 4.4	4.4		3.0 4.9	4.0	
				3.9	Middle	-	-	-		-		-		-	-	-	0.0	-	-	4.3	-	-	5.5
					Bottom	2.9	29.8 29.8	29.8	7.8 7.9	7.9	16.7 16.6	16.6	97.0 98.0	97.5	6.7 6.8	6.8	6.8	4.2 4.3	4.3		6.4 7.5	7.0	
4-Aug-17	Fine	Moderate	10:39		Surface	1.1	28.9 28.9	28.9	8.0 8.0	8.0	19.6 19.7	19.6	82.5 89.1	85.8	5.7 6.1	5.9	5.9	5.7 5.9	5.8		6.2 6.8	6.5	
				4.2	Middle	-	-	-	-	-		-		-	-	-	5.9	-	-	6.3	-	-	6.5
					Bottom	3.2	28.7 28.8	28.7	7.9 8.0	8.0	22.5 21.9	22.2	77.0 75.3	76.2	5.3 5.2	5.2	5.2	6.6 7.0	6.8		7.2 5.9	6.6	
7-Aug-17	Sunny	Moderate	12:46		Surface	1.0	29.3 29.1	29.2	7.9 7.9	7.9	20.7 21.2	21.0	74.3 74.1	74.2	5.4 5.4	5.4	5.4	6.2 6.7	6.5		7.4 6.1	6.8	
				4.2	Middle	-	-	-		-		-	-	-	-	-	5.4	-	-	6.4	-	-	6.6
					Bottom	3.2	28.5 29.1	28.8	7.9 7.9	7.9	25.3 24.9	25.1	74.5 74.1	74.3	5.4 5.4	5.4	5.4	6.3 6.5	6.4		6.2 6.7	6.5	
9-Aug-17	Cloudy	Moderate	14:10		Surface	1.1	29.1 29.4	29.3	7.9 8.0	8.0	21.0 20.7	20.8	80.9 79.7	80.3	5.5 5.4	5.5	5.5	11.2 11.3	11.3		8.6 7.7	8.2	
				4.1	Middle	-	-	-	-	-		-	-	-	-	-	5.5	-	-	11.4	-	-	8.2
					Bottom	3.1	29.0 29.4	29.2	8.0 7.9	8.0	22.3 20.8	21.6	78.9 78.3	78.6	5.4 5.4	5.4	5.4	11.4 11.5	11.5		8.0 8.3	8.2	
11-Aug-17	Cloudy	Moderate	15:02		Surface	1.1	29.4 29.2	29.3	8.0 8.0	8.0	20.9 21.0	21.0	79.9 77.6	78.8	5.8 5.7	5.7	5.7	4.4 4.7	4.6		7.2 7.4	7.3	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	4.7	-	-	7.5
					Bottom	3.3	29.3 28.9	29.1	8.0 8.0	8.0	21.3 22.1	21.7	78.2 76.8	77.5	5.6 5.6	5.6	5.6	4.6 5.0	4.8		8.3 7.1	7.7	
14-Aug-17	Sunny	Moderate	17:19		Surface	1.1	30.0 29.6	29.8	7.8 7.8	7.8	17.2 17.7	17.5	90.4 87.8	89.1	6.2 6.0	6.1	6.1	3.1 2.9	3.0		4.6 4.8	4.7	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.2	-	-	4.8
					Bottom	3.0	29.4 29.7	29.5	7.8 7.7	7.8	19.6 20.1	19.8	85.7 85.3	85.5	5.9 5.9	5.9	5.9	3.5 3.4	3.5		5.5 4.2	4.9	
16-Aug-17	Cloudy	Moderate	7:06		Surface	1.1	29.5 29.5	29.5	7.7 7.7	7.7	15.3 15.1	15.2	91.4 91.3	91.4	6.4 6.4	6.4	6.4	2.3 2.3	2.3		4.1 4.0	4.1	
				4.2	Middle	-	-	-		-	-	-	-	-	-	-	0.4	-	-	2.2	-	-	4.3
					Bottom	3.2	29.5 29.5	29.5	7.7 7.7	7.7	16.0 16.0	16.0	90.3 91.0	90.7	6.3 6.4	6.3	6.3	2.0 2.2	2.1		4.7 4.2	4.5	
18-Aug-17	Sunny	Moderate	9:27		Surface	1.1	29.9 29.8	29.8	7.7 7.7	7.7	14.6 15.1	14.8	84.2 86.3	85.3	5.9 5.9	5.9	5.9	2.2 2.3	2.3		5.0 6.6	5.8	
				4.0	Middle	-	-	-	-	-		-	-	-	-	-	5.5	-	-	2.5	-	-	5.9
					Bottom	3.0	27.9 28.7	28.3	7.6 7.7	7.7	24.6 23.0	23.8	82.5 80.4	81.5	5.7 5.6	5.7	5.7	2.7 2.6	2.7		6.0 5.8	5.9	
21-Aug-17	Sunny	Moderate	12:31		Surface	1.0	29.3 29.1	29.2	8.0 8.0	8.0	19.3 19.4	19.4	88.8 89.2	89.0	6.1 6.2	6.1	6.1	3.4 3.7	3.6		5.6 5.1	5.4	 
				3.9	Middle	-	-	-	-	-		-		-	-	-	0.1	-	-	3.7	-	-	5.3
					Bottom	2.9	29.1 28.9	29.0	8.0 8.0	8.0	20.5 20.6	20.6	88.4 88.5	88.5	6.1 6.1	6.1	6.1	3.7 3.9	3.8		5.4 5.1	5.3	

## Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	15:29		Surface	1.0	28.1 28.1	28.1	7.6 7.6	7.6	23.2 23.2	23.2	76.9 77.2	77.1	5.3 5.3	5.3	5.3	8.5 8.7	8.6		7.4 6.5	7.0	
				4.0	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.5	0.0 0.0	-	9.0	-	-	7.1
					Bottom	3.0	27.4 27.4	27.4	7.7 7.7	7.7	25.8 25.7	25.8	80.4 80.3	80.4	5.5 5.5	5.5	5.5	9.6 9.3	9.5		7.4 7.2	7.3	
28-Aug-17	Rainy	Moderate	17:17		Surface	1.1	27.5 27.5	27.5	7.4 7.4	7.4	18.0 17.9	17.9	82.5 82.1	82.3	5.9 5.9	5.9	5.9	5.1 4.9	5.0		6.2 4.9	5.6	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	5.2	-	-	5.0
					Bottom	3.1	27.4 27.4	27.4	7.4 7.4	7.4	19.1 19.1	19.1	82.1 81.3	81.7	5.8 5.8	5.8	5.8	5.4 5.2	5.3		4.2 4.7	4.5	
30-Aug-17	Fine	Moderate	6:26		Surface	1.0	28.2 28.3	28.2	7.5 7.6	7.6	13.5 13.4	13.4	80.1 79.7	79.9	5.8 5.8	5.8	5.8	6.0 6.3	6.2		7.0 7.5	7.3	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	5.4	-	-	6.7
					Bottom	2.9	27.7 27.6	27.7	7.5 7.5	7.5	20.1 20.2	20.1	78.7 79.1	78.9	5.5 5.6	5.6	5.6	4.5 4.8	4.7		6.2 6.1	6.2	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

# Appendix J - Marine Water Quality Monitoring Results

## Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	16:28		Surface	1.0	29.8 29.8	29.8	8.1 8.1	8.1	17.6 17.5	17.5	109.1 111.1	110.1	7.5 7.7	7.6	7.6	5.9 6.1	6.0		8.8 7.3	8.1	
				4.1	Middle	-	-	-	-	-		-		-	-	-	7.0	-	-	6.1	-	-	7.8
					Bottom	3.1	29.8 29.8	29.8	8.1 8.1	8.1	17.7 17.7	17.7	107.2 110.1	108.7	7.4 7.6	7.5	7.5	6.2 6.0	6.1		7.0 7.9	7.5	
4-Aug-17	Fine	Moderate	18:12		Surface	1.0	29.2 29.3	29.2	8.0 8.0	8.0	16.7 17.0	16.8	91.9 93.4	92.7	6.5 6.6	6.6	6.6	6.3 6.2	6.3		4.3 4.9	4.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.5	-	-	4.5
					Bottom	3.2	29.2 29.1	29.1	7.9 7.9	7.9	19.2 20.5	19.9	93.2 92.1	92.7	6.5 6.4	6.5	6.5	6.8 6.6	6.7		4.0 4.7	4.4	
7-Aug-17	Sunny	Moderate	5:51		Surface	1.0	29.3 29.3	29.3	7.8 7.8	7.8	21.2 21.1	21.1	76.1 75.6	75.9	5.4 5.3	5.4	5.4	4.2 4.1	4.2		4.8 5.6	5.2	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	4.2	-	-	8.0
					Bottom	3.0	29.3 29.3	29.3	7.8 7.8	7.8	21.4 21.3	21.3	76.9 75.5	76.2	5.4 5.3	5.4	5.4	4.1 4.4	4.3		10.0 11.6	10.8	
9-Aug-17	Cloudy	Moderate	7:04		Surface	1.1	29.0 29.0	29.0	7.9 7.9	7.9	22.1 21.5	21.8	81.7 82.0	81.9	5.5 5.6	5.5	5.5	4.5 4.4	4.5		4.3 5.8	5.1	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.5	-	-	7.0
					Bottom	3.2	29.0 29.1	29.0	7.9 7.9	7.9	22.6 22.6	22.6	80.0 80.4	80.2	5.4 5.5	5.5	5.5	4.5 4.7	4.6		9.7 8.3	9.0	
11-Aug-17	Cloudy	Moderate	8:30		Surface	1.1	28.7 28.7	28.7	7.8 7.8	7.8	20.3 20.2	20.3	77.0 77.9	77.5	5.6 5.6	5.6	5.6	12.9 12.2	12.6		2.9 2.7	2.8	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	13.3	-	-	4.9
					Bottom	3.1	28.2 28.0	28.1	7.8 7.8	7.8	25.2 25.4	25.3	77.3 79.6	78.5	5.5 5.7	5.6	5.6	14.1 13.8	14.0		7.6 6.2	6.9	
14-Aug-17	Sunny	Moderate	11:12		Surface	1.1	29.3 29.1	29.2	7.8 7.8	7.8	20.1 20.3	20.2	82.7 83.0	82.9	5.7 5.7	5.7	5.7	3.1 3.2	3.2		3.5 4.4	4.0	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	3.3	-	-	4.1
					Bottom	3.1	29.1 29.2	29.2	7.9 7.8	7.8	20.3 20.1	20.2	82.4 82.7	82.6	5.7 5.7	5.7	5.7	3.4 3.3	3.4		3.8 4.5	4.2	
16-Aug-17	Cloudy	Moderate	14:26		Surface	1.0	29.0 29.0	29.0	7.7 7.7	7.7	19.6 19.8	19.7	82.0 82.0	82.0	5.7 5.7	5.7	5.7	5.3 5.2	5.3		3.5 3.9	3.7	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	5.4	-	-	5.6
					Bottom	3.5	28.1 28.0	28.0	7.7 7.7	7.7	23.2 25.3	24.3	74.2 78.9	76.6	5.1 5.4	5.2	5.2	5.7 5.5	5.6		7.9 6.9	7.4	
18-Aug-17	Sunny	Moderate	17:56		Surface	1.1	30.2 29.7	30.0	8.0 8.0	8.0	15.2 15.8	15.5	100.5 101.2	100.9	7.0 7.0	7.0	7.0	4.1 4.2	4.2		3.1 4.6	3.9	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	4.3	-	-	5.5
					Bottom	3.1	29.3 28.7	29.0	7.9 7.9	7.9	19.1 21.1	20.1	99.5 99.1	99.3	6.9 6.9	6.9	6.9	4.4 4.3	4.4		6.7 7.6	7.2	1
21-Aug-17	Sunny	Moderate	5:47		Surface	1.0	28.8 28.7	28.7	8.1 8.0	8.0	19.3 20.1	19.7	89.9 89.4	89.7	6.2 6.2	6.2		4.3	4.3		6.5 5.5	6.0	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	4.3	-	-	5.9
					Bottom	2.8	28.3 28.6	28.5	8.1 8.0	8.1	22.1 21.9	22.0	89.6 90.1	89.9	6.2 6.2	6.2	6.2	4.4	4.3		6.4 5.3	5.9	1

Remarks: \* DA: Depth-Averaged \*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

#### Appendix J - Marine Water Quality Monitoring Results

## Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	Т	urbidity(NTL	J)	Susper	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	8:20		Surface	1.0	27.9 27.9	27.9	7.5 7.6	7.6	22.9 22.9	22.9	77.1 76.0	76.6	5.3 5.3	5.3	5.3	6.6 6.3	6.5		7.4 8.9	8.2	
				4.2	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.5	0.0 0.0	-	6.9	-	-	8.3
					Bottom	3.2	27.1 27.0	27.1	7.6 7.5	7.5	26.9 26.9	26.9	76.0 76.1	76.1	5.2 5.2	5.2	5.2	7.2 7.5	7.4		8.4 8.5	8.5	
28-Aug-17	Rainy	Moderate	10:40		Surface	1.0	27.1 27.1	27.1	7.4 7.3	7.4	20.9 21.0	20.9	83.2 84.1	83.7	5.9 6.0	5.9	5.9	6.3 6.4	6.4		7.4 7.7	7.6	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	6.7	-	-	7.3
					Bottom	3.3	26.4 26.3	26.3	7.4 7.4	7.4	29.0 29.0	29.0	81.4 83.1	82.3	5.6 5.7	5.6	5.6	7.2 6.9	7.1		7.0 7.2	7.1	
30-Aug-17	Fine	Moderate	15:42		Surface	1.1	29.2 29.2	29.2	7.5 7.6	7.5	13.8 13.9	13.8	87.7 88.0	87.9	6.2 6.3	6.3	6.3	5.6 5.4	5.5		5.8 6.2	6.0	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	5.6	-	-	5.8
					Bottom	3.0	28.4 28.4	28.4	7.5 7.5	7.5	17.6 17.6	17.6	84.7 86.7	85.7	6.0 6.1	6.1	6.1	5.8 5.7	5.8		5.8 5.5	5.7	L

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	/ed Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	8:46		Surface	1.1	29.8 29.8	29.8	8.2 8.2	8.2	19.3 19.0	19.1	95.1 94.9	95.0	6.5 6.5	6.5	0.5	3.0 2.9	3.0		3.0 3.5	3.3	
				6.6	Middle	3.3	29.8 29.8	29.8	8.2 8.2	8.2	19.5 19.2	19.3	94.9 94.9	94.9	6.5 6.5	6.5	6.5	2.8 2.8	2.8	2.9	4.2 3.4	3.8	3.4
					Bottom	5.6	29.8 29.8	29.8	8.2 8.2	8.2	19.7 19.3	19.5	94.7 94.7	94.7	6.5 6.5	6.5	6.5	2.9	2.9		3.2	3.2	
4-Aug-17	Fine	Moderate	10:17		Surface	1.2	29.0 29.0	29.0	8.2 8.2	8.2	21.3 21.8	21.5	82.5 78.1	80.3	5.8 5.5	5.7		5.4 5.4	5.4		6.5 6.8	6.7	
				6.3	Middle	3.1	28.8 28.7	28.8	8.1 8.1	8.1	22.6 23.1	22.9	79.8 72.3	76.1	5.6 5.1	5.3	5.5	5.5 5.8	5.7	5.6	5.9 6.0	6.0	6.1
					Bottom	5.3	28.4 28.6	28.5	8.1 8.1	8.1	26.3 25.7	26.0	71.5	74.5	5.1 5.5	5.3	5.3	5.8 5.8	5.8		5.4 6.1	5.8	
7-Aug-17	Sunny	Moderate	13:37		Surface	1.0	29.5 29.6	29.5	8.2 8.2	8.2	20.3 20.6	20.5	74.9 74.9	74.9	5.2 5.2	5.2		5.3 5.3	5.3		8.8 9.4	9.1	
				6.6	Middle	3.3	29.3 29.3	29.3	8.1 8.1	8.1	21.7 21.4	21.5	74.3 73.4	73.9	5.1 5.0	5.0	5.1	6.3 6.6	6.5	6.1	10.9 9.1	10.0	9.7
					Bottom	5.6	29.3 29.2	29.3	8.1 8.1	8.1	23.5 23.4	23.4	72.7	72.5	5.0 4 9	4.9	4.9	6.4 6.6	6.5		10.0	10.0	
9-Aug-17	Cloudy	Moderate	14:12		Surface	1.0	29.1 29.1	29.1	8.1 8.1	8.1	22.2	22.2	74.3 74.6	74.5	5.1 5.1	5.1		5.5 5.7	5.6		5.3 5.8	5.6	
				6.4	Middle	3.2	29.1 29.0	29.0	8.1 8.1	8.1	22.5 22.5	22.5	74.2 74.1	74.2	5.0 5.0	5.0	5.1	5.6 5.7	5.7	5.7	6.4 5.1	5.8	5.7
					Bottom	5.4	29.0 29.0	29.0	8.1 8.1	8.1	22.6 22.6	22.6	73.9 74.0	74.0	5.0 5.0	5.0	5.0	5.8 5.6	5.7		5.5 5.8	5.7	
11-Aug-17	Cloudy	Moderate	15:51		Surface	1.1	29.6 29.5	29.5	8.1 8.1	8.1	21.4 21.4	21.4	75.7 76.7	76.2	5.1 5.2	5.2	<b>5</b> 4	5.4 5.2	5.3		2.6 3.5	3.1	
				6.8	Middle	3.4	29.2 29.4	29.3	8.1 8.1	8.1	21.6 21.5	21.5	76.2 73.8	75.0	5.1 5.0	5.1	5.1	5.2 5.2	5.2	5.3	2.8 3.8	3.3	3.2
					Bottom	5.8	29.4 28.2	28.8	8.1 8.1	8.1	22.4 23.2	22.8	75.5 71.4	73.5	5.1 4.9	5.0	5.0	5.3 5.2	5.3		3.4 2.9	3.2	
14-Aug-17	Sunny	Moderate	17:45		Surface	1.1	30.0 30.0	30.0	8.2 8.2	8.2	18.7 18.7	18.7	88.8 87.5	88.2	6.0 6.0	6.0	6.0	2.3 2.3	2.3		5.4 5.0	5.2	
				6.5	Middle	3.2	29.9 29.8	29.8	8.2 8.2	8.2	20.0 20.0	20.0	88.5 86.5	87.5	6.0 5.8	5.9	6.0	2.2 2.3	2.3	2.3	4.9 4.3	4.6	5.9
					Bottom	5.5	28.6 28.7	28.6	8.1 8.1	8.1	25.6 25.3	25.5	85.8 84.6	85.2	5.8 5.8	5.8	5.8	2.3 2.3	2.3		7.7 7.8	7.8	
16-Aug-17	Cloudy	Moderate	6:44		Surface	1.0	29.3 29.3	29.3	8.1 8.1	8.1	19.9 19.9	19.9	85.2 83.6	84.4	5.8 5.7	5.8	5.7	1.6 1.7	1.7		3.2 2.9	3.1	
				6.4	Middle	3.2	29.0 28.8	28.9	8.1 8.1	8.1	20.8 22.1	21.4	83.2 81.6	82.4	5.7 5.6	5.6	5.7	1.7 1.6	1.7	1.7	3.9 2.6	3.3	4.0
					Bottom	5.4	28.6 28.9	28.7	8.1 8.1	8.1	24.3 23.9	24.1	81.9 83.7	82.8	5.6 5.7	5.6	5.6	1.6 1.7	1.7		5.2 6.3	5.8	
18-Aug-17	Sunny	Moderate	9:21		Surface	1.0	28.9 29.2	29.0	8.2 8.2	8.2	20.2 19.7	19.9	91.0 94.6	92.8	6.3 6.5	6.4	6.2	2.2 2.1	2.2		4.4 4.3	4.4	
				6.6	Middle	3.3	28.2 28.6	28.4	8.2 8.2	8.2	22.1 21.6	21.8	87.1 89.7	88.4	6.0 6.2	6.1	0.2	2.4 2.4	2.4	2.4	5.1 4.9	5.0	5.8
					Bottom	5.6	27.9 27.6	27.7	8.2 8.2	8.2	26.2 26.2	26.2	89.0 86.4	87.7	6.0 5.9	6.0	6.0	2.5 2.6	2.6		8.3 7.9	8.1	I
21-Aug-17	Sunny	Moderate	12:42		Surface	1.1	29.4 29.4	29.4	8.4 8.4	8.4	21.5 21.5	21.5	105.7 104.8	105.3	7.2 7.1	7.1	7.1	3.4 3.2	3.3		6.2 6.5	6.4	
				6.3	Middle	3.2	29.0 28.8	28.9	8.4 8.4	8.4	22.5 22.7	22.6	103.5 103.8	103.7	7.0 7.0	7.0		3.5 3.2	3.4	3.4	7.6 7.4	7.5	7.0
					Bottom	5.3	28.7 28.3	28.5	8.4 8.4	8.4	24.5 25.2	24.8	103.0 101.6	102.3	7.0 6.9	7.0	7.0	3.5 3.4	3.5		7.5 6.6	7.1	1

Remarks: \* DA: Depth-Averaged \*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	l.
25-Aug-17	Sunny	Moderate	16:15		Surface	1.1	27.7 27.7	27.7	8.1 8.1	8.1	26.8 26.8	26.8	76.5 76.6	76.6	5.2 5.2	5.2	5.0	4.6 4.6	4.6		10.7 10.2	10.5	
				6.4	Middle	3.2	27.7 27.7	27.7	8.1 8.1	8.1	26.8 27.0	26.9	76.3 76.3	76.3	5.2 5.2	5.2	5.2	4.6 4.5	4.6	4.7	9.2 9.3	9.3	9.6
					Bottom	5.4	27.7 27.7	27.7	8.1 8.1	8.1	27.0 26.9	27.0	76.2 76.3	76.3	5.2 5.2	5.2	5.2	4.9 4.7	4.8		9.1 9.1	9.1	L
28-Aug-17	Rainy	Moderate	18:09		Surface	1.2	26.9 26.9	26.9	8.1 8.1	8.1	22.8 22.8	22.8	86.7 88.9	87.8	6.1 6.2	6.1	6.4	2.2 2.2	2.2		4.2 4.0	4.1	
				6.6	Middle	3.3	26.8 26.8	26.8	8.1 8.1	8.1	25.8 25.2	25.5	86.2 87.5	86.9	6.0 6.1	6.1	6.1	2.2 2.3	2.3	2.2	3.6 4.8	4.2	4.7
					Bottom	5.6	26.8 26.8	26.8	8.1 8.1	8.1	26.1 25.9	26.0	87.1 86.1	86.6	6.1 6.0	6.0	6.0	2.3 2.2	2.3		5.5 6.3	5.9	
30-Aug-17	Fine	Moderate	5:51		Surface	1.1	27.8 27.8	27.8	8.0 8.0	8.0	19.7 19.1	19.4	83.1 83.1	83.1	5.9 5.9	5.9	5.9	4.4 4.4	4.4		4.9 5.7	5.3	
				6.5	Middle	3.2	27.7 27.8	27.8	8.0 8.0	8.0	19.8 19.8	19.8	82.8 82.9	82.9	5.8 5.8	5.8	5.9	4.5 4.5	4.5	4.5	4.0 4.0	4.0	4.8
					Bottom	5.5	27.7 27.8	27.7	8.0 8.0	8.0	19.9 19.8	19.9	82.6 82.9	82.8	5.8 5.8	5.8	5.8	4.6 4.5	4.6		5.4 5.0	5.2	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Furbidity(NT	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	17:26		Surface	1.0	29.9 29.9	29.9	8.3 8.3	8.3	18.6 18.6	18.6	99.7 98.3	99.0	6.8 6.7	6.8	0.7	3.5 3.4	3.5		7.5 6.8	7.2	
				6.6	Middle	3.3	29.8 29.8	29.8	8.3 8.3	8.3	19.0 19.1	19.1	97.7 99.0	98.4	6.7 6.8	6.7	6.7	4.2 4.3	4.3	4.0	6.1 7.8	7.0	7.1
					Bottom	5.6	29.7 29.8	29.8	8.3 8.3	8.3	19.7 19.5	19.6	96.7 98.1	97.4	6.6 6.7	6.7	6.7	4.1	4.2		7.3	7.2	
4-Aug-17	Fine	Moderate	18:56		Surface	1.1	29.1 29.1	29.1	8.2 8.2	8.2	20.5 20.8	20.6	75.3 75.0	75.2	5.3 5.3	5.3		4.5	4.5		5.2 5.2	5.2	
				6.5	Middle	3.3	28.8 28.8	28.8	8.2 8.2	8.2	20.8 22.3 22.2	22.2	74.7	74.8	5.2 5.2	5.2	5.2	4.4	4.5	4.8	6.0 5.4	5.7	5.6
					Bottom	5.5	28.7 28.7	28.7	8.2 8.2	8.2	23.3 23.6	23.4	73.0	73.0	5.1 5.1	5.1	5.1	5.4 5.5	5.5		5.8 6.1	6.0	
7-Aug-17	Sunny	Moderate	5:16		Surface	1.1	29.3 28.6	28.9	8.1 8.1	8.1	23.2 23.7	23.4	78.2	78.5	5.4 5.4	5.4		3.0 2.9	3.0		7.3 6.0	6.7	
				6.4	Middle	3.2	27.8 28.3	28.0	8.1 8.1	8.1	27.4 26.5	26.9	79.3	77.4	5.4 5.2	5.3	5.3	3.1 3.1	3.1	3.1	8.0 7.0	7.5	7.6
					Bottom	5.4	27.1 27.6	27.4	8.1 8.1	8.1	30.7 30.0	30.3	74.6 77.6	76.1	5.1 5.3	5.2	5.2	3.3 3.1	3.2		9.1 8.2	8.7	
9-Aug-17	Cloudy	Moderate	6:38		Surface	1.0	28.7 28.8	28.7	8.1 8.1	8.1	23.6 23.6	23.6	76.1 74.9	75.5	5.2 5.1	5.1		3.7 3.5	3.6		2.5 2.3	2.4	
				6.4	Middle	3.2	28.3 28.5	28.4	8.1 8.1	8.1	24.5 25.4	24.9	74.5	74.5	5.0 5.0	5.0	5.1	3.8 4.0	3.9	3.8	3.4 3.4	3.4	3.8
					Bottom	5.4	27.0	27.1	8.0 8.0	8.0	29.5 29.6	29.5	73.8 73.8	73.8	5.0 5.0	5.0	5.0	3.9 4.0	4.0		6.2 5.2	5.7	
11-Aug-17	Cloudy	Moderate	7:51		Surface	1.0	28.7 28.7	28.7	8.0 8.0	8.0	21.9 21.9	21.9	77.3	76.8	5.4 5.4	5.4		3.8 3.8	3.8		5.5 6.3	5.9	
				6.7	Middle	3.3	28.3 28.5	28.4	7.9 7.9	7.9	24.9 23.8	24.4	75.2 73.9	74.6	5.3 5.2	5.2	5.3	3.9 3.9	3.9	3.9	5.0 5.7	5.4	5.6
					Bottom	5.7	27.2 27.2	27.2	7.9 7.9	7.9	29.4 29.2	29.3	72.6 71.4	72.0	5.1 5.0	5.1	5.1	3.9 3.8	3.9		5.8 5.4	5.6	
14-Aug-17	Sunny	Moderate	10:51		Surface	1.1	29.2 29.3	29.2	8.0 8.0	8.0	21.5 21.7	21.6	77.5 78.5	78.0	5.3 5.3	5.3	5.3	1.4 1.5	1.5		3.4 3.6	3.5	
				6.6	Middle	3.3	29.0 29.0	29.0	8.0 8.0	8.0	22.4 23.7	23.1	77.7 77.3	77.5	5.2 5.2	5.2	5.5	1.8 1.7	1.8	1.7	4.3 4.0	4.2	4.0
					Bottom	5.6	28.7 28.5	28.6	8.0 8.0	8.0	25.8 26.2	26.0	76.0 76.6	76.3	5.1 5.2	5.2	5.2	1.7 1.8	1.8		4.2 4.4	4.3	
16-Aug-17	Cloudy	Moderate	15:29		Surface	1.0	29.9 29.6	29.7	8.2 8.2	8.2	18.1 18.2	18.2	86.5 86.6	86.6	5.9 6.0	6.0	5.7	1.4 1.4	1.4		4.7 4.1	4.4	
				6.6	Middle	3.3	28.1 28.7	28.4	8.2 8.2	8.2	22.8 22.7	22.7	79.8 81.4	80.6	5.5 5.6	5.5	5.7	2.1 1.8	2.0	1.9	3.9 3.4	3.7	4.5
					Bottom	5.6	27.8 27.5	27.6	8.2 8.2	8.2	27.1 28.6	27.8	81.9 82.6	82.3	5.5 5.6	5.5	5.5	2.4 2.2	2.3		5.2 5.5	5.4	
18-Aug-17	Sunny	Moderate	17:51		Surface	1.1	29.5 29.5	29.5	8.4 8.4	8.4	19.9 20.0	19.9	114.7 117.6	116.2	7.8 8.0	7.9	7.8	2.3 2.4	2.4		6.2 5.3	5.8	
				6.4	Middle	3.2	28.7 28.8	28.8	8.3 8.4	8.4	21.2 21.2	21.2	111.5 115.6	113.6	7.6 7.8	7.7	7.0	2.1 2.2	2.2	2.3	5.5 6.6	6.1	5.7
					Bottom	5.4	28.8 28.2	28.5	8.4 8.3	8.4	24.0 24.3	24.1	110.8 106.1	108.5	7.6 7.3	7.5	7.5	2.4 2.3	2.4		5.6 4.7	5.2	
21-Aug-17	Sunny	Moderate	4:59		Surface	1.1	28.9 28.9	28.9	8.3 8.3	8.3	23.1 22.8	23.0	90.9 90.3	90.6	6.2 6.1	6.1	6.1	2.6 2.5	2.6		5.9 7.1	6.5	
				6.4	Middle	3.2	27.0 27.1	27.0	8.2 8.2	8.2	29.5 29.9	29.7	89.4 90.4	89.9	6.0 6.0	6.0	0.1	2.7 2.6	2.7	2.6	8.3 7.0	7.7	7.3
					Bottom	5.4	26.5 26.5	26.5	8.2 8.2	8.2	32.9 33.2	33.1	86.0 86.2	86.1	5.8 5.8	5.8	5.8	2.7 2.6	2.7		7.5 8.0	7.8	

Remarks: \* DA: Depth-Averaged \*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	7:47		Surface	1.1	27.3 27.4	27.4	8.0 8.0	8.0	28.0 27.6	27.8	80.0 74.8	77.4	5.4 5.1	5.2	5.2	5.9 5.6	5.8		6.9 6.4	6.7	
				6.6	Middle	3.3	27.0 26.9	27.0	8.0 8.0	8.0	29.1 29.7	29.4	77.5 74.5	76.0	5.3 5.0	5.1	5.2	6.3 6.1	6.2	6.1	6.6 6.9	6.8	7.0
					Bottom	5.6	26.5 26.8	26.7	8.0 8.0	8.0	32.9 30.7	31.8	74.1 77.5	75.8	5.0 5.3	5.1	5.1	6.4 6.1	6.3		7.5 7.5	7.5	
28-Aug-17	Rainy	Moderate	10:05		Surface	1.0	26.7 26.7	26.7	8.1 8.1	8.1	26.2 26.3	26.3	81.9 81.9	81.9	5.7 5.7	5.7	5.7	3.8 3.7	3.8		6.0 5.4	5.7	
				6.5	Middle	3.3	26.7 26.7	26.7	8.0 8.1	8.1	26.7 26.7	26.7	81.7 81.7	81.7	5.6 5.6	5.6	5.7	3.8 3.8	3.8	3.8	6.0 5.5	5.8	5.9
					Bottom	5.5	26.6 26.7	26.7	8.1 8.0	8.1	26.9 26.7	26.8	81.6 81.7	81.7	5.6 5.6	5.6	5.6	3.9 3.8	3.9		6.2 6.2	6.2	
30-Aug-17	Fine	Moderate	15:32		Surface	1.1	27.4 27.5	27.4	8.1 8.1	8.1	23.8 23.8	23.8	79.4 85.5	82.5	5.5 5.8	5.6	5.6	2.4 2.4	2.4		5.9 5.1	5.5	
				6.3	Middle	3.2	27.1 27.1	27.1	8.1 8.1	8.1	26.7 26.7	26.7	81.2 78.9	80.1	5.6 5.4	5.5	5.0	2.5 2.6	2.6	2.5	5.5 4.7	5.1	5.1
					Bottom	5.3	27.1 26.9	27.0	8.1 8.1	8.1	28.9 28.9	28.9	78.5 80.9	79.7	5.4 5.6	5.5	5.5	2.5 2.5	2.5		4.8 4.3	4.6	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	oling	Tempera	ature (°C)	þ	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	/ed Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	8:36		Surface	1.0	29.8 29.9	29.8	8.2 8.2	8.2	20.7 19.8	20.2	95.0 95.5	95.3	6.4 6.5	6.5	0.5	2.8 2.8	2.8		3.8 4.5	4.2	1
				5.1	Middle	-		-	-	-		-	-	-		-	6.5		-	2.8	-	-	4.7
					Bottom	4.1	29.8 29.8	29.8	8.2 8.2	8.2	20.5 21.3	20.9	95.0 95.2	95.1	6.4 6.4	6.4	6.4	2.8 2.9	2.9		4.8 5.7	5.3	
4-Aug-17	Fine	Moderate	10:06		Surface	1.1	29.0 29.0	29.0	8.2 8.2	8.2	22.5 23.4	23.0	77.3 77.8	77.6	5.4 5.3	5.3		5.0 5.2	5.1		3.7 4.8	4.3	i
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.3	-	-	4.6
					Bottom	4.2	28.5 28.6	28.6	8.1 8.1	8.1	27.7 27.1	27.4	76.2 76.4	76.3	5.3 5.2	5.3	5.3	5.4 5.5	5.5		5.5 4.2	4.9	l
7-Aug-17	Sunny	Moderate	13:47		Surface	1.2	29.5 29.5	29.5	8.1 8.2	8.2	20.9 20.9	20.9	74.7 74.2	74.5	5.1 5.1	5.1		5.1 5.1	5.1		6.1 6.6	6.4	i
				4.6	Middle	-		-	-	-	-	-	-	-	-	-	5.1	-	-	5.1	-	-	7.4
					Bottom	3.6	29.4 29.5	29.4	8.1 8.1	8.1	21.7 21.2	21.5	74.1 74.4	74.3	5.0 5.1	5.0	5.0	5.1 5.2	5.2		8.8 7.9	8.4	
9-Aug-17	Cloudy	Moderate	14:19		Surface	1.1	29.1 29.1	29.1	8.1 8.1	8.1	22.3 22.4	22.4	74.5 75.3	74.9	5.1 5.1	5.1	5.4	5.4 5.7	5.6		4.7 4.5	4.6	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	5.6	-	-	4.7
					Bottom	4.0	29.0 29.1	29.1	8.1 8.1	8.1	22.6 22.5	22.5	74.5 74.6	74.6	5.1 5.1	5.1	5.1	5.4 5.7	5.6		5.5 4.1	4.8	
11-Aug-17	Cloudy	Moderate	16:00		Surface	1.2	29.6 29.4	29.5	8.1 8.1	8.1	21.4 21.5	21.5	78.0 77.5	77.8	5.3 5.3	5.3	5.3	5.3 5.5	5.4		2.7 2.7	2.7	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.5	-	-	3.1
					Bottom	4.2	29.4 29.3	29.3	8.1 8.1	8.1	21.6 21.7	21.6	77.7 77.9	77.8	5.3 5.3	5.3	5.3	5.5 5.5	5.5		3.8 3.3	3.6	
14-Aug-17	Sunny	Moderate	17:57		Surface	1.1	30.0 30.0	30.0	8.2 8.2	8.2	18.7 18.7	18.7	91.1 90.8	91.0	6.2 6.2	6.2	6.2	2.3 2.3	2.3		4.6 4.4	4.5	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	2.3	-	-	4.9
					Bottom	3.9	29.9 30.0	29.9	8.2 8.2	8.2	20.2 20.2	20.2	90.1 90.8	90.5	6.1 6.2	6.1	6.1	2.3 2.3	2.3		5.4 5.1	5.3	
16-Aug-17	Cloudy	Moderate	6:31		Surface	1.0	29.2 29.1	29.1	8.1 8.1	8.1	22.0 21.2	21.6	91.8 95.9	93.9	6.2 6.4	6.3	6.3	1.5 1.4	1.5		3.8 4.9	4.4	
				5.2	Middle	-	-	-		-		-	-	-	-	-	0.5	-	-	1.5	-	-	4.7
					Bottom	4.2	28.9 28.9	28.9	8.1 8.1	8.1	26.7 25.1	25.9	87.4 88.7	88.1	6.0 5.9	6.0	6.0	1.6 1.5	1.6		4.9 5.1	5.0	I
18-Aug-17	Sunny	Moderate	9:11		Surface	1.1	28.7 28.8	28.8	8.2 8.2	8.2	20.8 21.0	20.9	91.8 90.3	91.1	6.3 6.2	6.3	6.3	2.5 2.5	2.5		5.8 6.4	6.1	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.5	-	-	6.3
					Bottom	4.1	28.3 28.0	28.1	8.2 8.2	8.2	25.2 25.0	25.1	90.9 88.2	89.6	6.2 6.0	6.1	6.1	2.4 2.5	2.5		6.2 6.8	6.5	
21-Aug-17	Sunny	Moderate	12:48		Surface	1.1	29.2 29.4	29.3	8.4 8.4	8.4	21.6 21.6	21.6	105.6 106.7	106.2	7.2 7.2	7.2	7.2	3.3 3.6	3.5		5.9 5.4	5.7	
				5.1	Middle	-	-	-		-		-	-	-	-	-	1.2	-	-	3.5	-	-	6.8
					Bottom	4.1	28.8 28.8	28.8	8.4 8.4	8.4	23.4 23.5	23.5	105.2 104.7	105.0	7.1 7.1	7.1	7.1	3.3 3.6	3.5		7.0 8.9	8.0	

Remarks: \* DA: Depth-Averaged \*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	1	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-	-	-	-	=	-	-	=
					Bottom	I	-	-		-		-		-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	16:21		Surface	1.1	27.7 27.6	27.6	8.1 8.1	8.1	27.1 27.1	27.1	81.3 88.5	84.9	5.5 6.0	5.7	5.8	5.4 5.5	5.5		9.2 8.4	8.8	
				5.3	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.0	0.0 0.0	-	5.5	-	-	9.1
					Bottom	4.3	27.6 27.6	27.6	8.1 8.1	8.1	27.2 27.3	27.3	79.7 83.3	81.5	5.4 5.6	5.5	5.5	5.4 5.5	5.5		9.1 9.5	9.3	
28-Aug-17	Rainy	Moderate	18:21		Surface	1.2	26.7 26.7	26.7	8.1 8.1	8.1	25.1 24.9	25.0	87.3 95.0	91.2	6.0 6.6	6.3	6.3	2.8 2.7	2.8		5.5 5.5	5.5	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	2.8	-	-	5.7
					Bottom	4.1	26.6 26.7	26.6	8.1 8.1	8.1	27.2 26.4	26.8	85.8 90.4	88.1	6.0 6.3	6.1	6.1	2.9 2.9	2.9		7.0 4.9	6.0	
30-Aug-17	Fine	Moderate	5:40		Surface	1.1	27.5 27.4	27.4	8.0 8.0	8.0	22.0 22.8	22.4	83.0 85.7	84.4	5.8 5.9	5.9	5.9	2.1 2.0	2.1		5.8 5.5	5.7	
				5.1	Middle	-	-	-		-	-	-	-	-	-	-	5.9	-	-	2.1	-	-	5.9
					Bottom	4.1	27.4 27.4	27.4	8.0 7.9	8.0	23.4 24.1	23.8	82.6 83.7	83.2	5.8 5.8	5.8	5.8	2.1 2.0	2.1		5.4 6.7	6.1	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

Remarks:

\* DA: Depth-Averaged

\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	L I	Furbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Aug-17	Cloudy	Moderate	17:36		Surface	1.1	29.9 29.9	29.9	8.3 8.3	8.3	18.6 18.6	18.6	102.2 100.7	101.5	7.0 6.9	6.9		3.3 3.0	3.2		5.5 4.9	5.2	
				5.0	Middle	-		-	-	-	-	-	-	-	-	-	6.9	-	-	3.2	-	-	5.9
					Bottom	4.0	29.9 29.8	29.8	8.3 8.3	8.3	18.8 19.1	19.0	101.6 100.0	100.8	6.9 6.8	6.9	6.9	3.2 3.1	3.2		6.2 7.1	6.7	
4-Aug-17	Fine	Moderate	19:05		Surface	1.1	29.2 29.0	29.1	8.2 8.2	8.2	20.8	20.9	77.2	76.5	5.4 5.3	5.4		5.7 5.3	5.5		4.6 5.9	5.3	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.5	-	-	5.5
					Bottom	4.0	28.6 28.9	28.8	8.2 8.2	8.2	23.3 22.4	22.9	76.3 76.0	76.2	5.3 5.3	5.3	5.3	5.3 5.5	5.4		5.9 5.7	5.8	
7-Aug-17	Sunny	Moderate	5:07		Surface	1.1	29.0 28.8	28.9	8.1 8.1	8.1	24.7 23.5	24.1	77.9	78.4	5.3 5.4	5.4		3.0 2.8	2.9		5.1 6.8	6.0	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	3.1	-	-	6.6
					Bottom	4.0	27.4 27.3	27.4	8.1 8.1	8.1	29.9 31.7	30.8	77.2 77.2	77.2	5.3 5.2	5.2	5.2	3.3 3.2	3.3		7.6 7.0	7.3	1
9-Aug-17	Cloudy	Moderate	6:31		Surface	1.1	28.6 28.8	28.7	8.1 8.1	8.1	24.2 25.1	24.6	75.7 81.2	78.5	5.1 5.4	5.2		3.6 3.8	3.7		3.5 4.0	3.8	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	3.8	-	-	3.8
					Bottom	4.2	28.1 28.0	28.0	8.1 8.1	8.1	30.5 27.8	29.2	74.9 75.5	75.2	5.0 5.1	5.1	5.1	3.9 3.8	3.9		4.1 3.6	3.9	1
11-Aug-17	Cloudy	Moderate	7:43		Surface	1.0	28.7 28.7	28.7	7.8 7.9	7.9	22.7 22.5	22.6	72.5 73.9	73.2	5.0 5.1	5.1	5.4	3.8 3.9	3.9		5.4 4.3	4.9	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	3.8	-	-	5.2
					Bottom	4.2	27.7 28.4	28.0	7.8 7.8	7.8	28.7 27.1	27.9	71.7 73.2	72.5	4.9 5.0	5.0	5.0	3.8 3.7	3.8		4.7 6.2	5.5	
14-Aug-17	Sunny	Moderate	10:43		Surface	1.1	29.3 29.1	29.2	8.0 8.0	8.0	22.7 22.4	22.6	78.9 78.4	78.7	5.3 5.3	5.3	5.2	2.1 2.1	2.1		2.6 3.1	2.9	
				5.1	Middle	-	-	-	-	-	-	-	-	-		-	5.3	-	-	2.1	-	-	2.8
					Bottom	4.1	28.8 28.6	28.7	8.0 8.0	8.0	25.4 26.9	26.1	78.6 78.7	78.7	5.3 5.3	5.3	5.3	2.2 2.1	2.2		2.3 3.3	2.8	
16-Aug-17	Cloudy	Moderate	15:42		Surface	1.0	29.8 29.9	29.8	8.3 8.3	8.3	18.2 18.3	18.3	88.9 92.2	90.6	6.1 6.3	6.2	6.0	1.4 1.3	1.4		2.4 3.3	2.9	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	1.7	-	-	3.0
					Bottom	4.3	28.3 28.3	28.3	8.2 8.2	8.2	26.3 25.1	25.7	90.1 88.0	89.1	6.1 6.0	6.0	6.0	2.0 2.1	2.1		2.6 3.8	3.2	
18-Aug-17	Sunny	Moderate	18:00		Surface	1.1	29.5 29.4	29.4	8.4 8.4	8.4	20.1 20.3	20.2	116.1 113.0	114.6	7.9 7.7	7.8	7.8	2.3 2.1	2.2		2.6 3.0	2.8	
				5.3	Middle	-	-	-	-	-	-	-	-	-		-	1.0	-	-	2.3	-	-	4.4
					Bottom	4.3	28.5 28.3	28.4	8.3 8.3	8.3	24.0 24.1	24.0	110.0 112.2	111.1	7.5 7.7	7.6	7.6	2.3 2.3	2.3		6.5 5.6	6.1	
21-Aug-17	Sunny	Moderate	4:53		Surface	1.0	28.9 28.9	28.9	8.3 8.3	8.3	23.9 24.5	24.2	92.9 92.4	92.7	6.3 6.2	6.2	6.2	2.6 2.4	2.5		4.5 4.0	4.3	
				5.3	Middle	-	-	-	-	-	-	-	-	-		-	0.2	-	-	2.6	-	-	4.3
					Bottom	4.3	26.6 26.5	26.5	8.2 8.2	8.2	34.1 36.0	35.1	91.9 98.9	95.4	6.1 6.0	6.0	6.0	2.6 2.8	2.7	1	4.7 4.1	4.4	1

Remarks: \* DA: Depth-Averaged \*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

## Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Aug-17 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	=	-	-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-17	Sunny	Moderate	7:32		Surface	1.1	26.0 26.0	26.0	7.8 7.8	7.8	37.0 37.6	37.3	74.7 78.7	76.7	5.1 5.3	5.2	5.2	9.9 9.5	9.7		13.3 13.9	13.6	
				5.3	Middle	-	0.0 0.0	-	-	-	0.0 0.0	-	0.0 0.0	-	0.0 0.0	-	5.2	0.0 0.0	-	9.7	-	-	13.4
					Bottom	4.3	25.8 26.0	25.9	7.8 7.8	7.8	37.7 37.3	37.5	75.6 74.2	74.9	5.1 5.1	5.1	5.1	9.8 9.6	9.7		13.0 13.3	13.2	
28-Aug-17	Rainy	Moderate	9:54		Surface	1.0	26.3 26.3	26.3	8.0 8.0	8.0	29.6 29.9	29.7	79.7 82.9	81.3	5.4 5.6	5.5	5.5	5.2 5.2	5.2		7.8 7.1	7.5	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.2	-	-	7.0
					Bottom	4.3	26.2 26.1	26.2	8.0 8.0	8.0	29.9 31.3	30.6	79.4 80.4	79.9	5.4 5.5	5.5	5.5	5.3 5.2	5.3		6.1 6.9	6.5	
30-Aug-17	Fine	Moderate	15:45		Surface	1.1	27.5 27.5	27.5	8.1 8.1	8.1	25.0 25.3	25.2	84.1 88.3	86.2	5.7 6.0	5.9	5.9	1.6 1.6	1.6		3.2 4.8	4.0	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	1.6	-	-	4.1
					Bottom	4.3	27.4 27.3	27.4	8.1 8.1	8.1	27.6 27.8	27.7	83.7 85.5	84.6	5.7 5.9	5.8	5.8	1.6 1.7	1.7		4.4 3.8	4.1	

#### Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

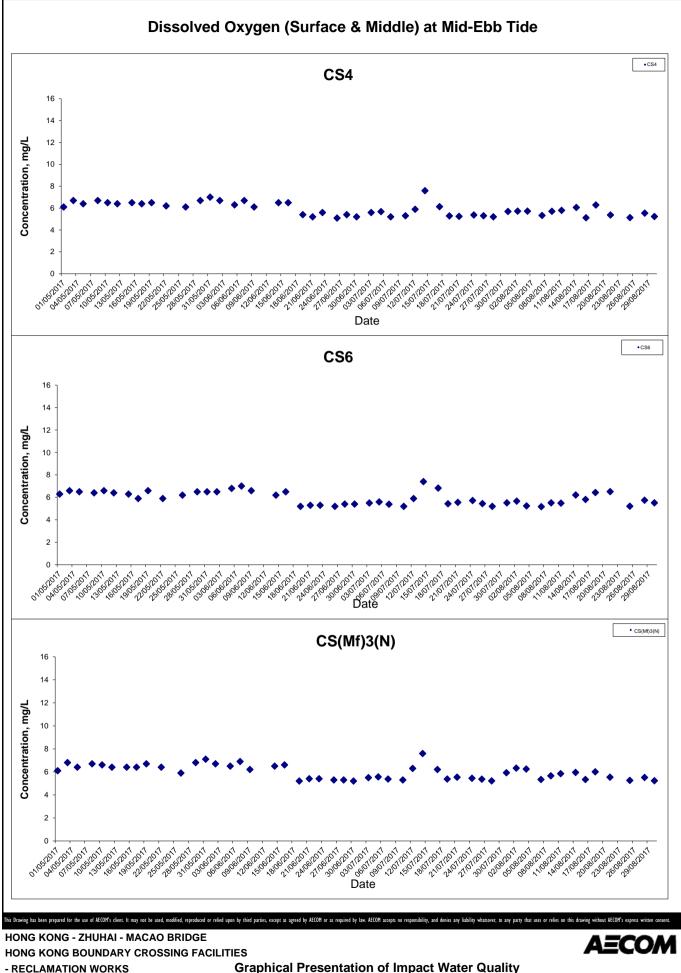
CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

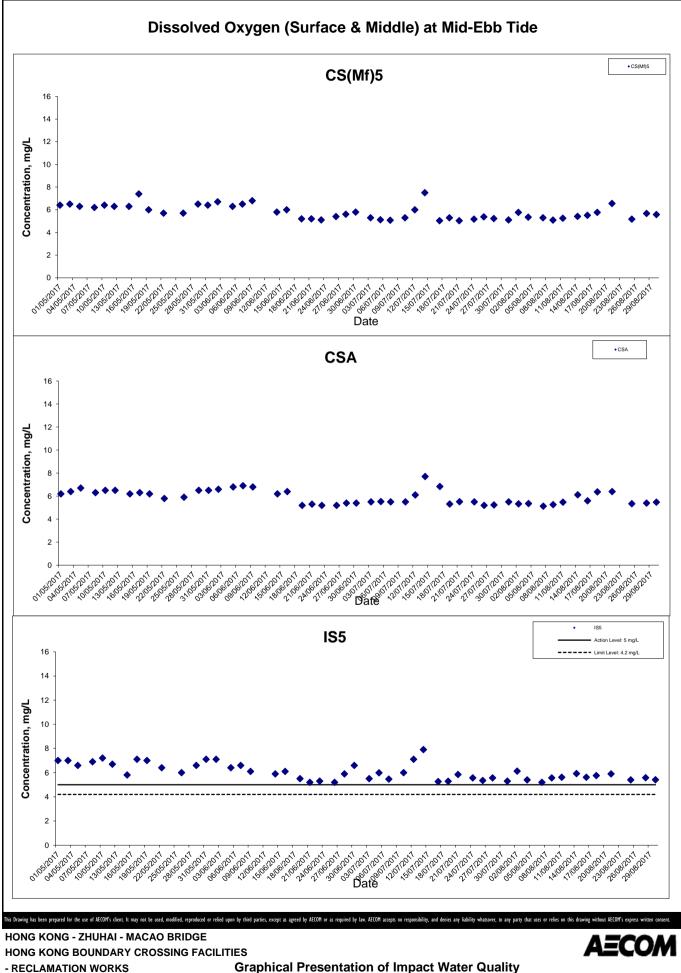
^ Due to Northeast Gale or Storm Signal No. 8 and Hurricane Signal No. 10 issued by HKO, impact water quality monitoring on 23 Aug 2017 was cancelled.

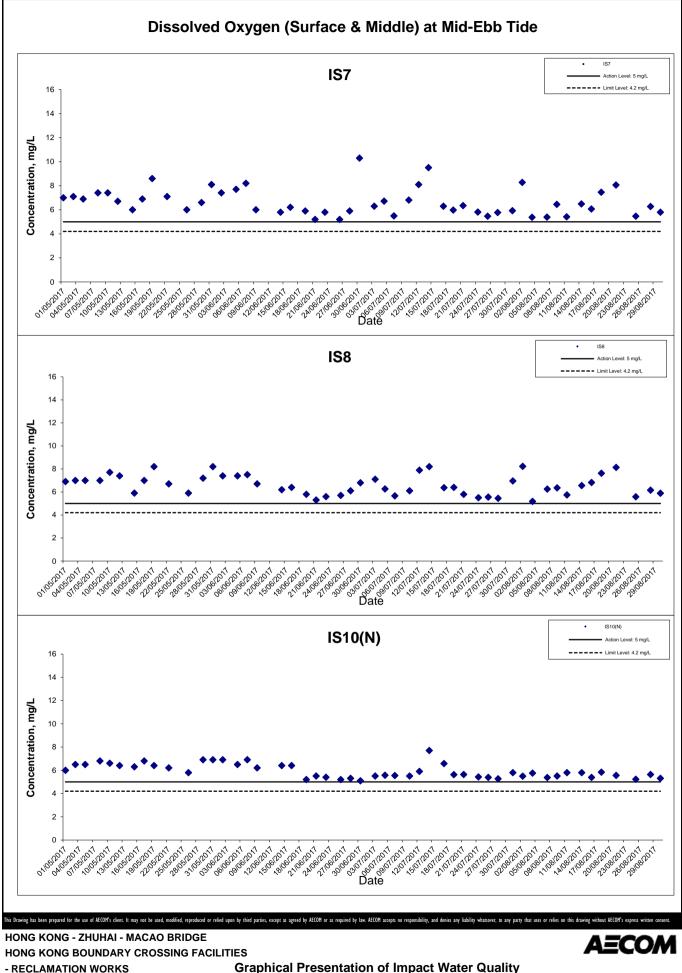
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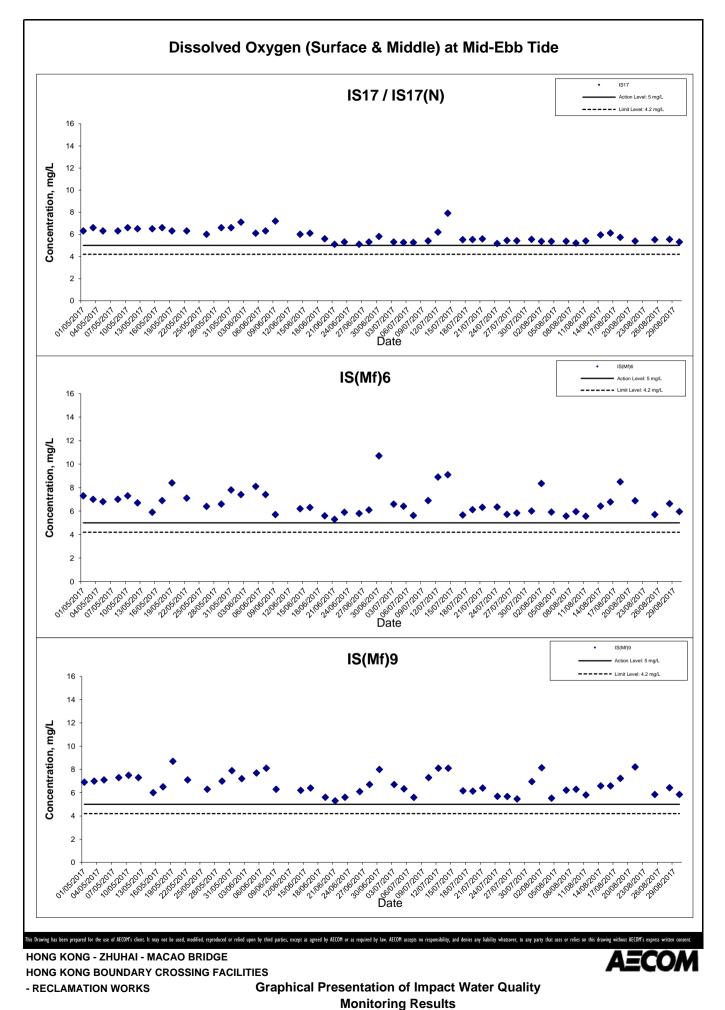
\* DA: Depth-Averaged

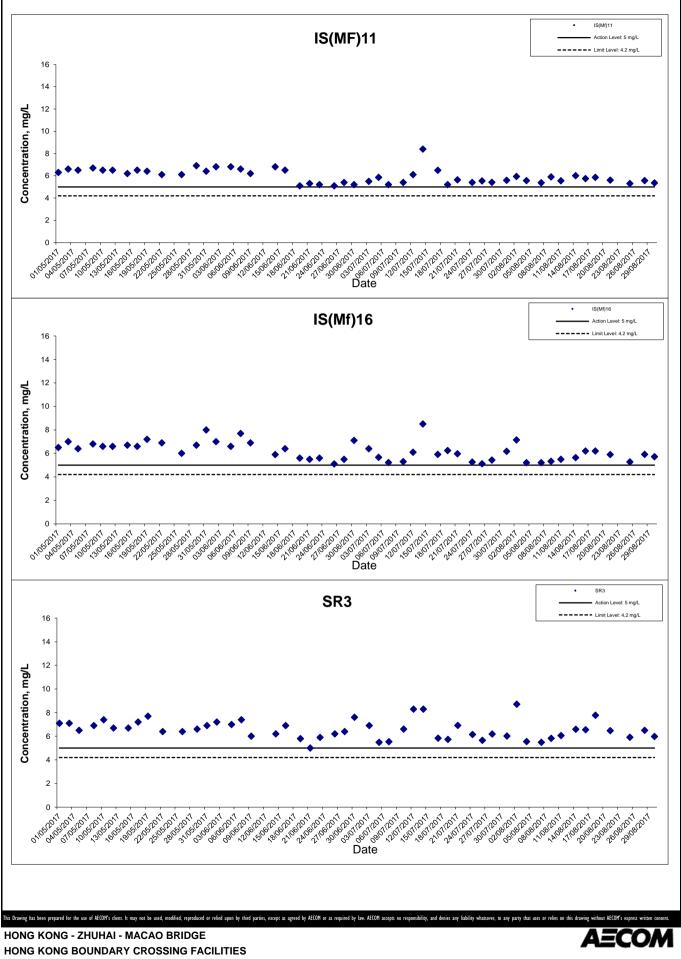
\*\* Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher



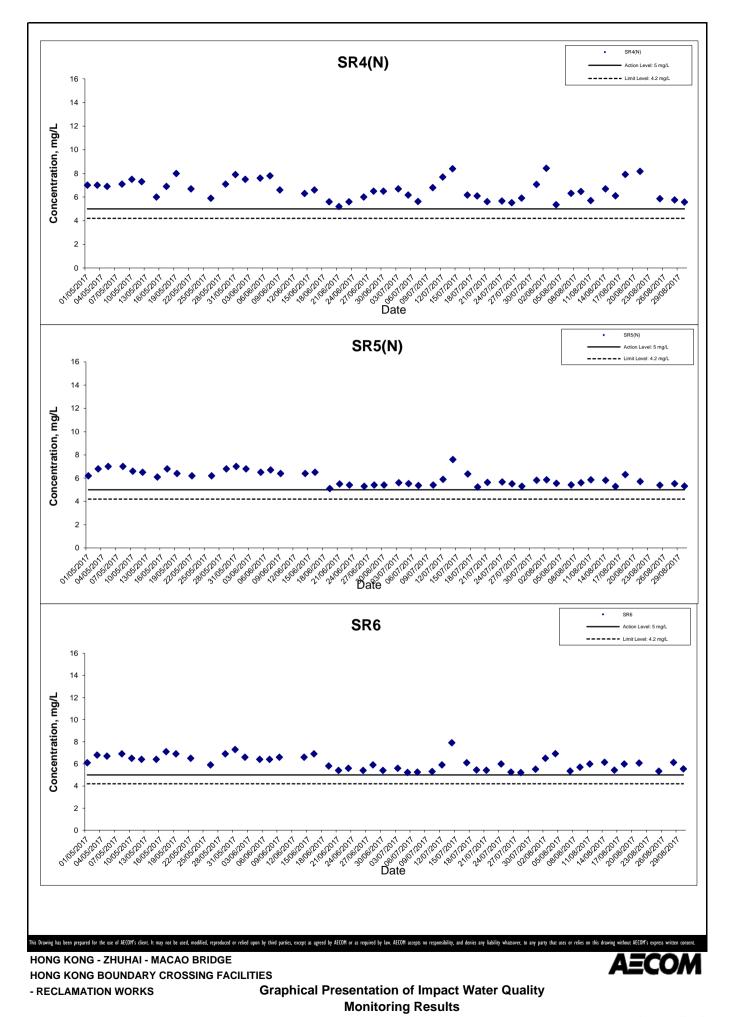


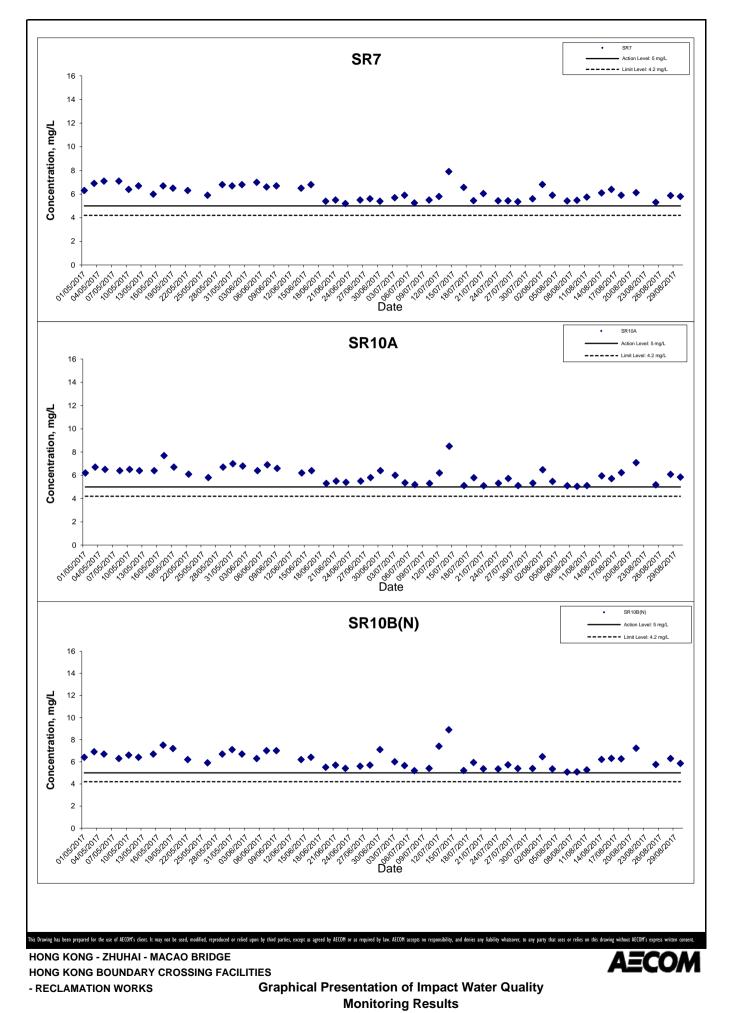




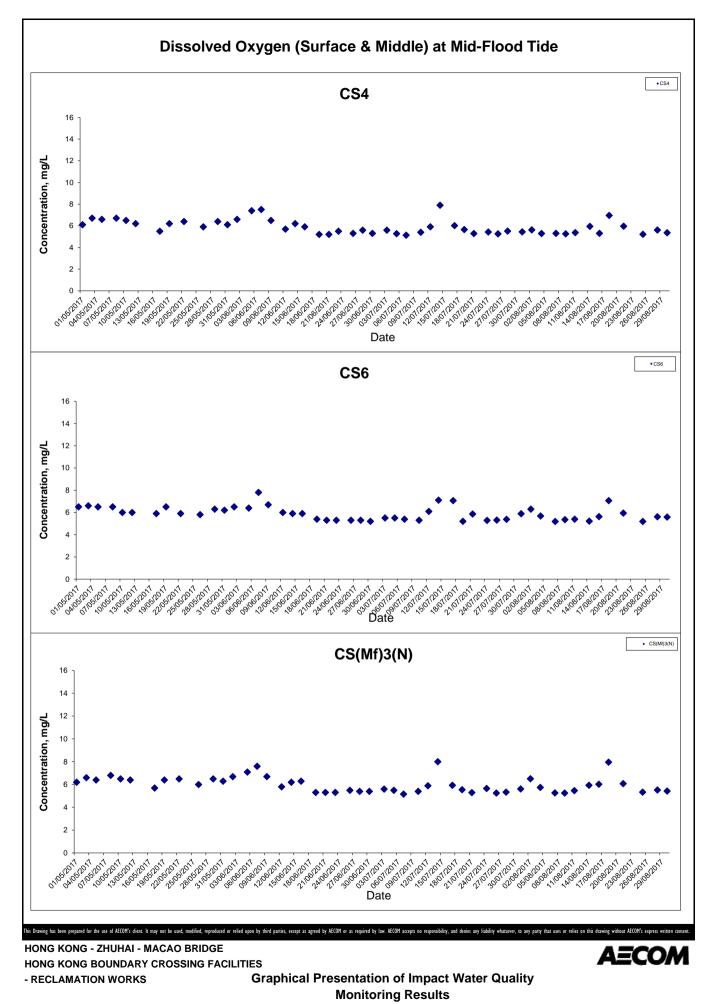


- RECLAMATION WORKS

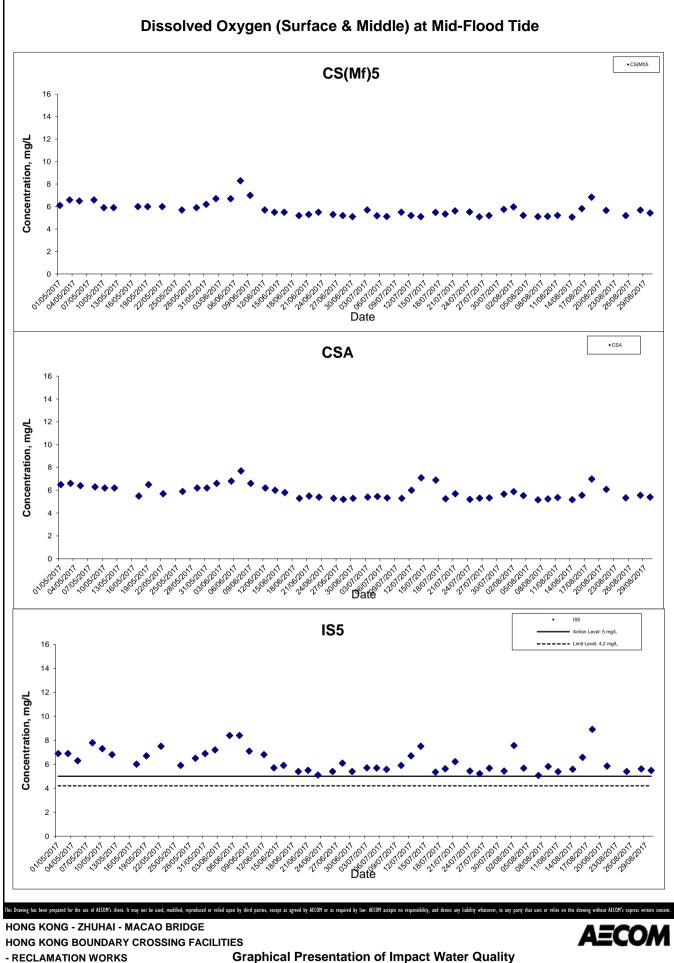


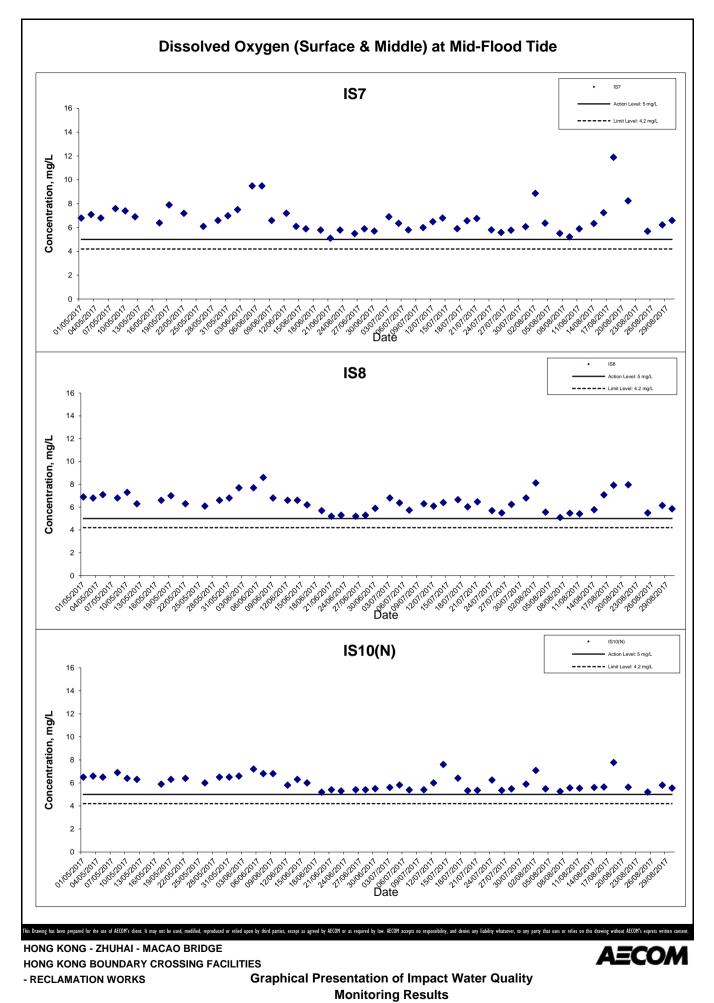


Appendix J

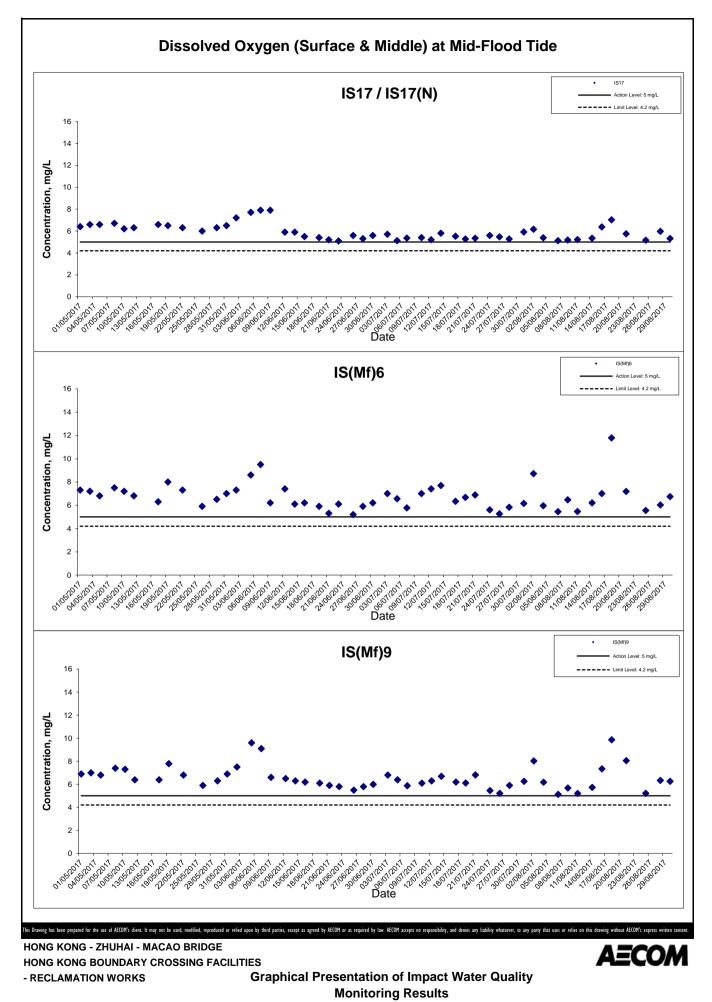


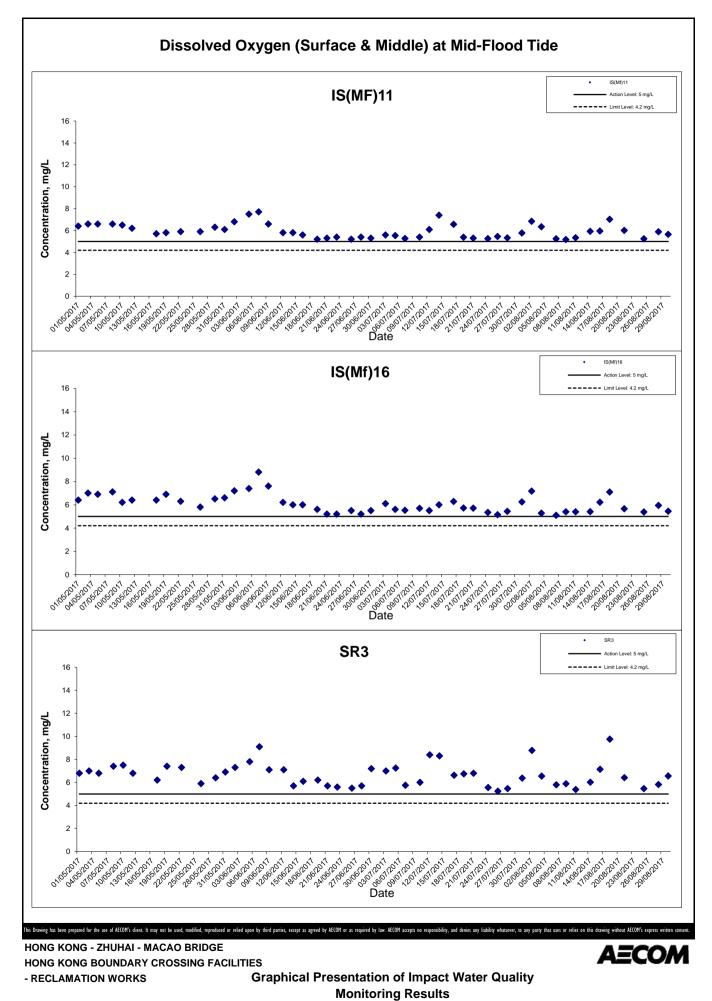
Appendix J

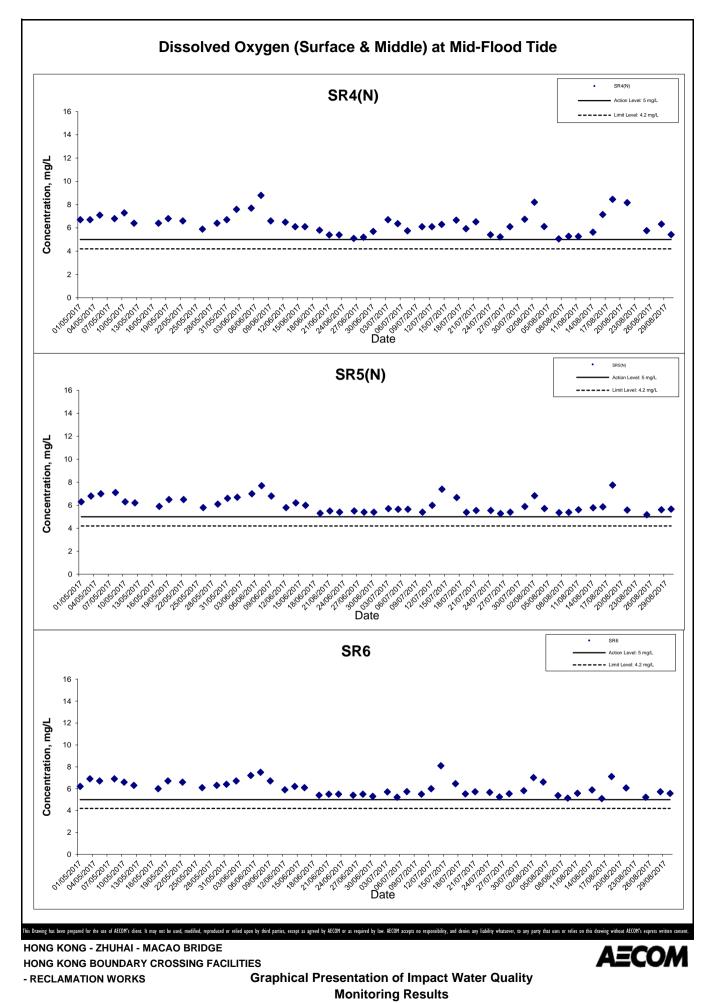


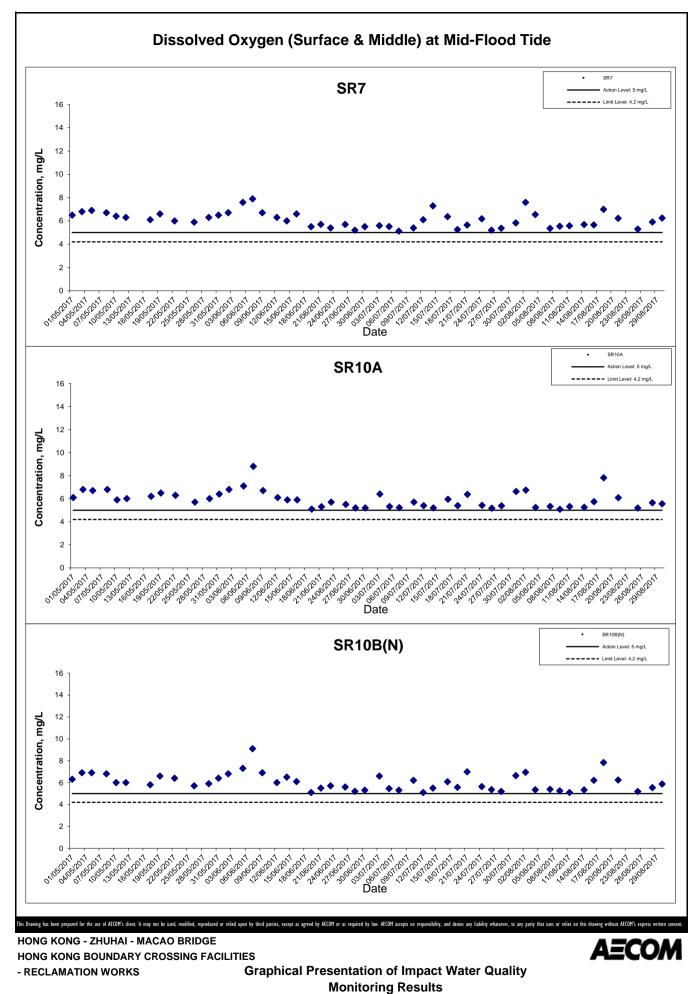


Appendix J



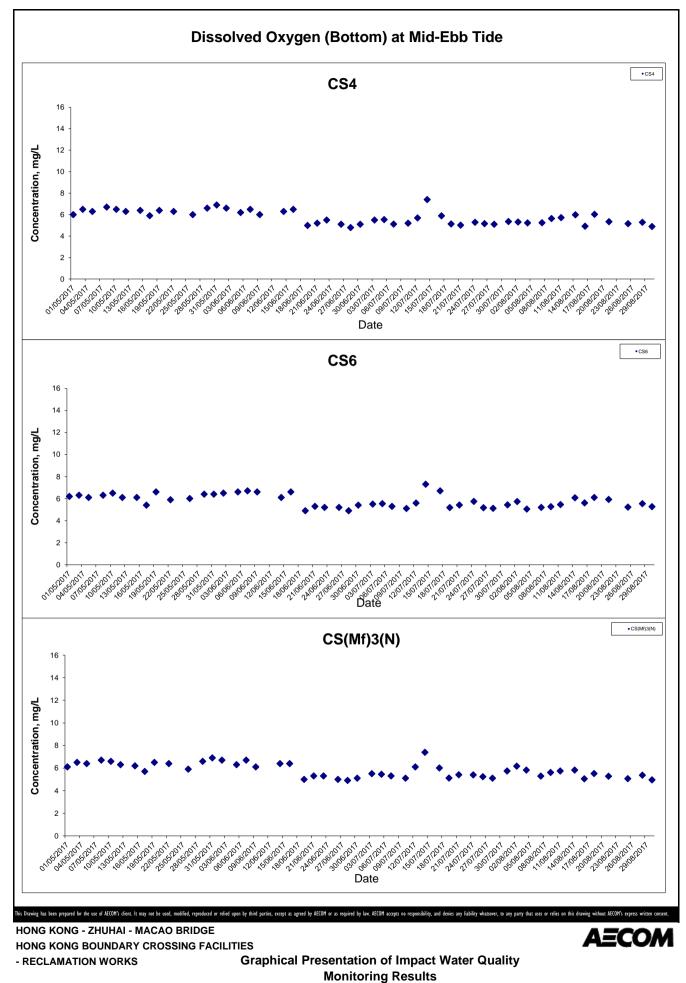




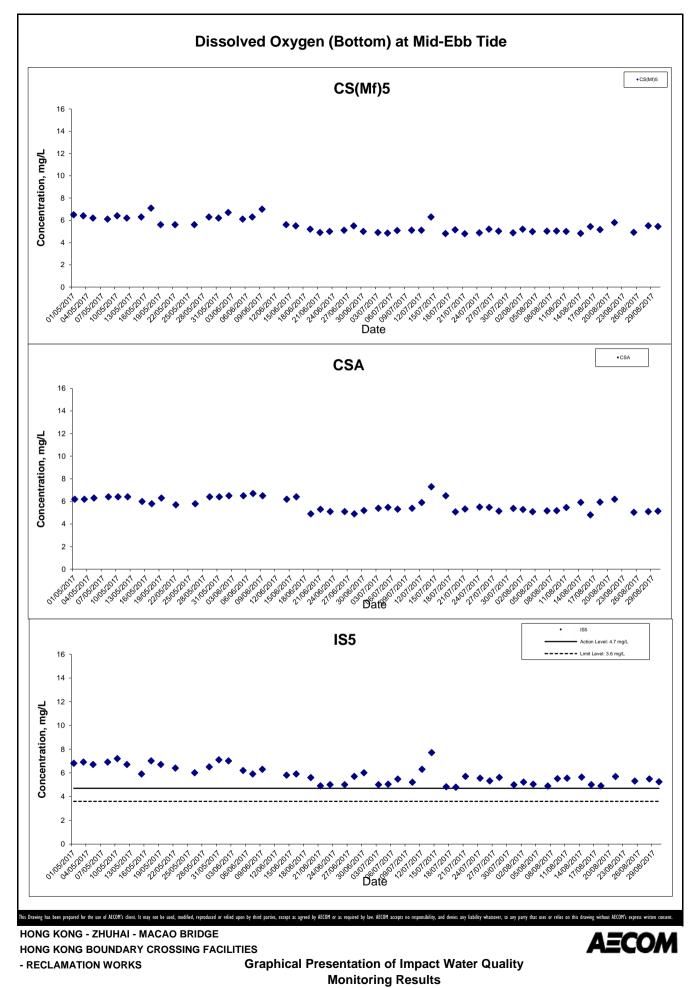


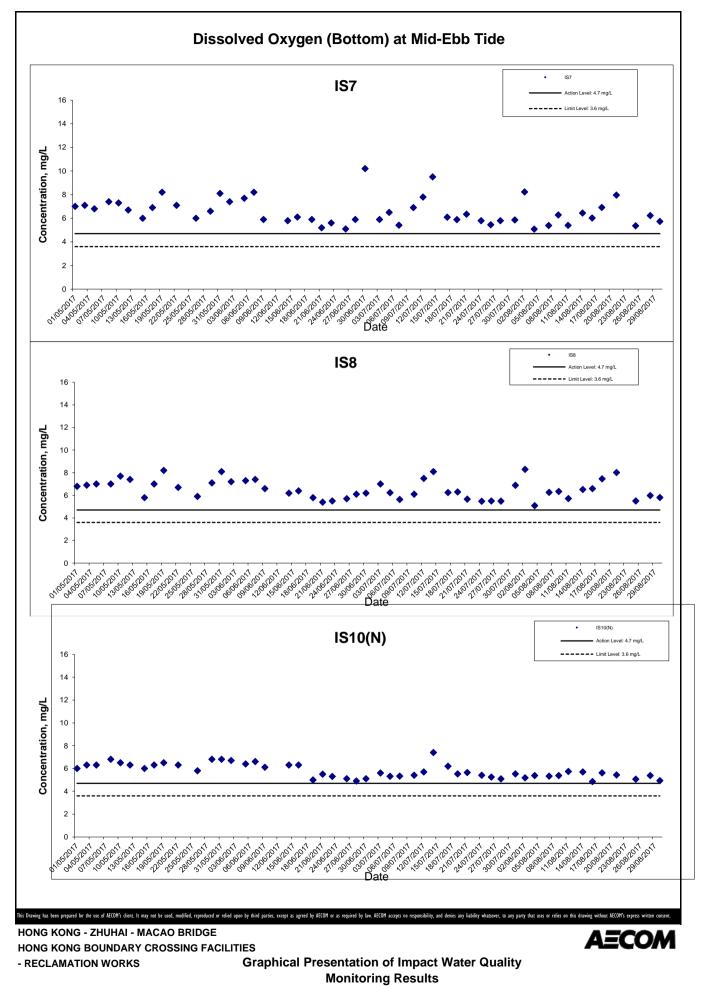
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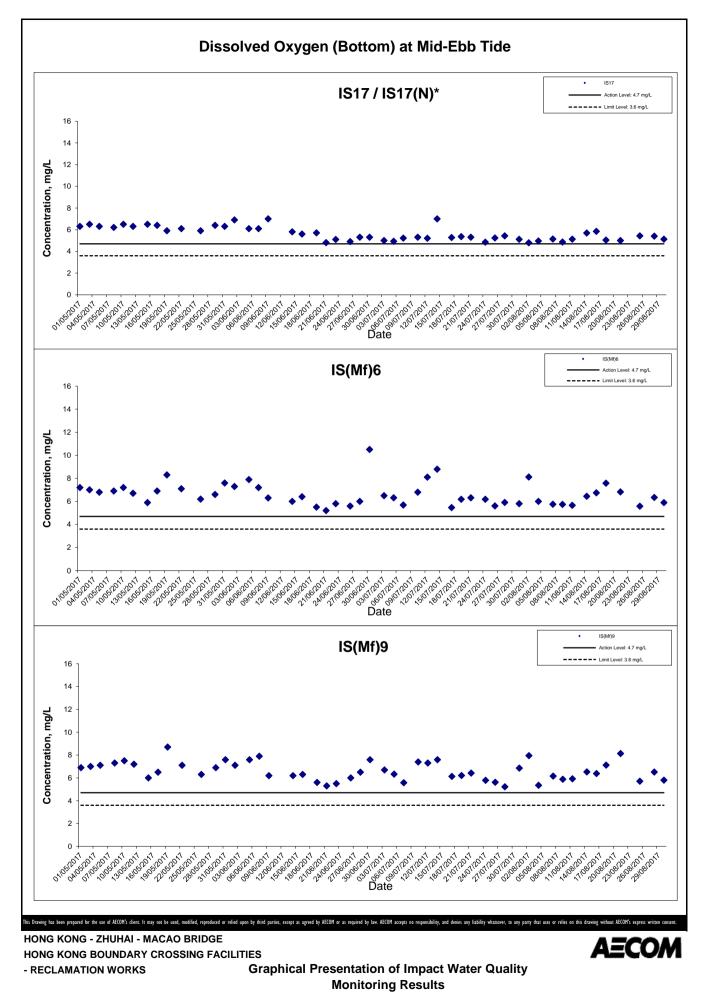
Project No.: 60249820

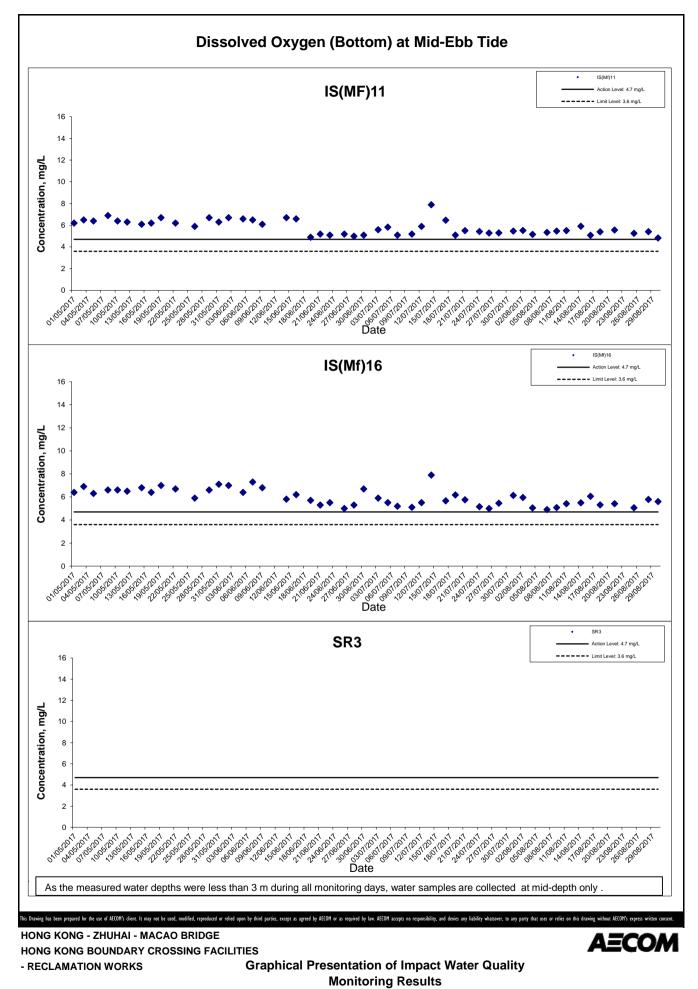


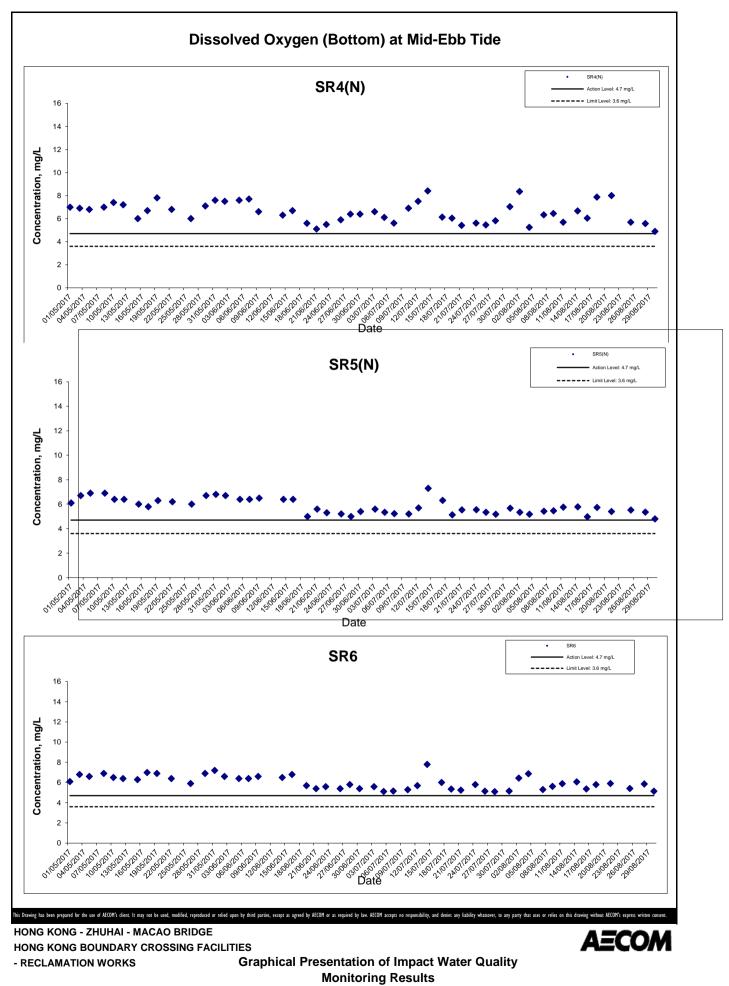
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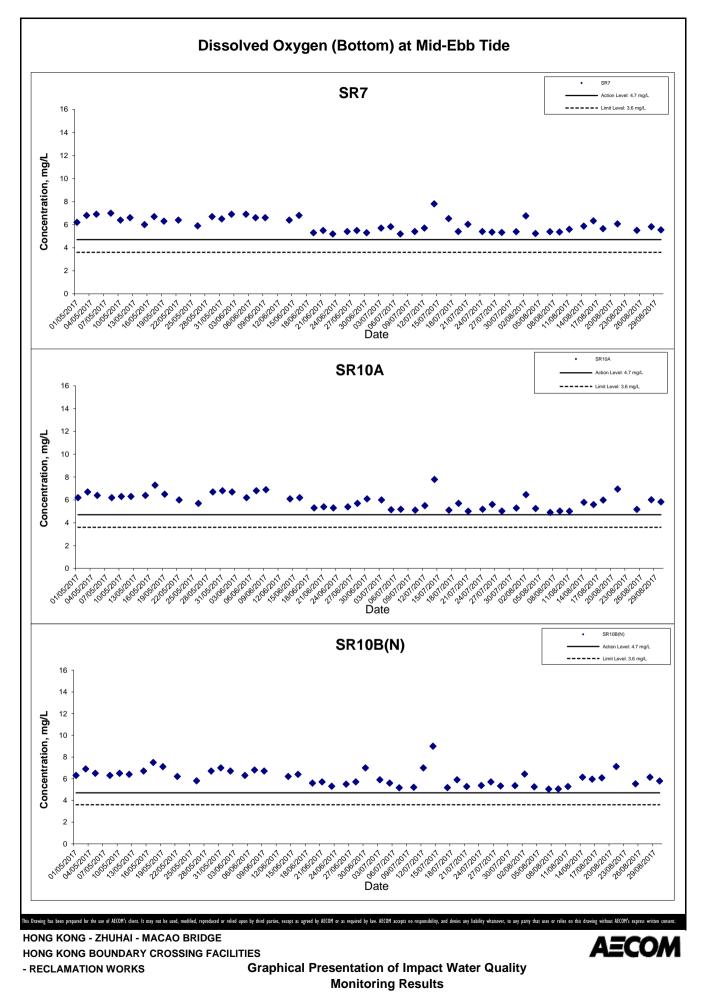


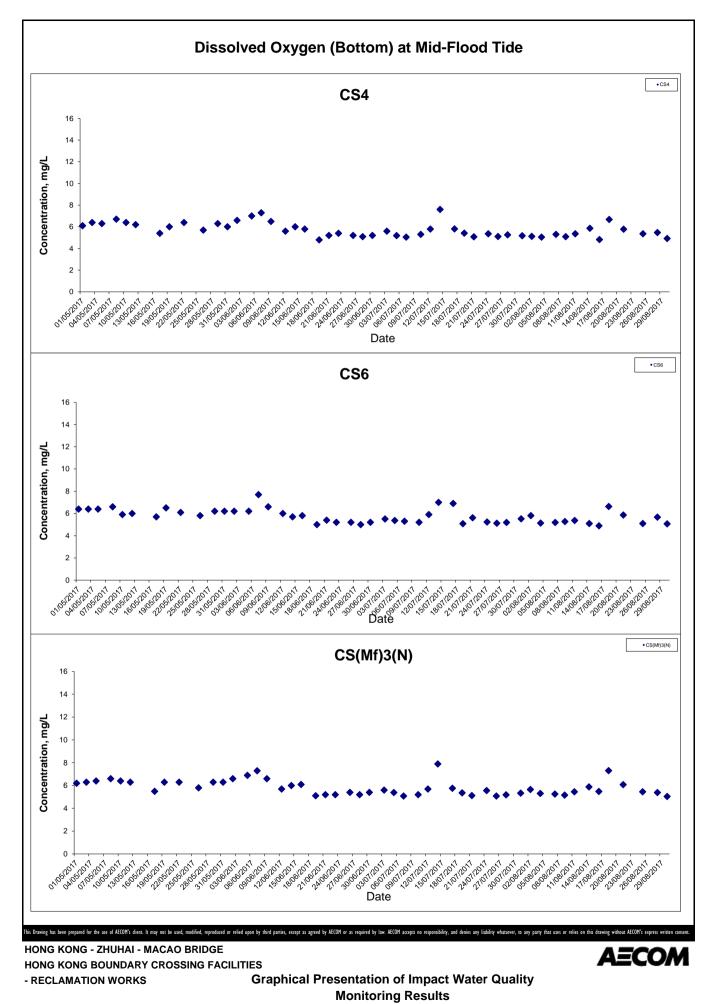




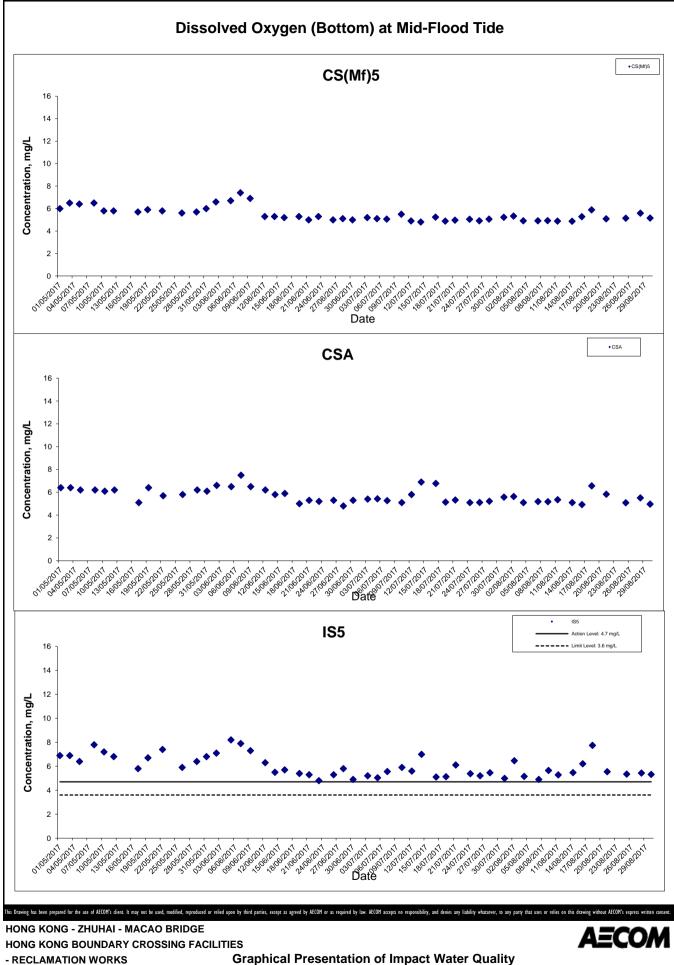


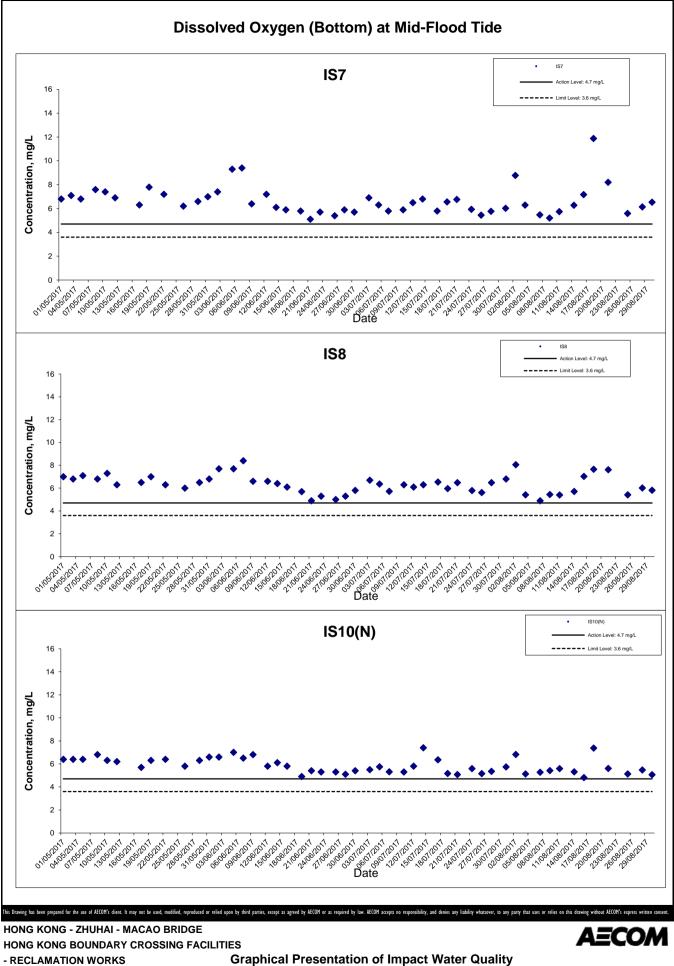




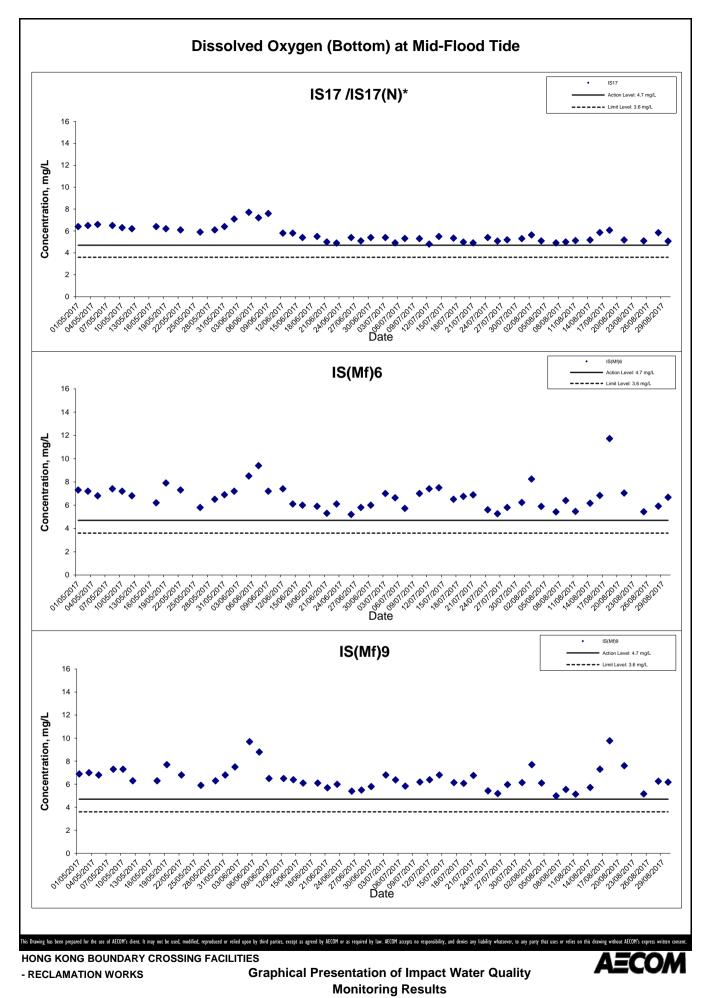


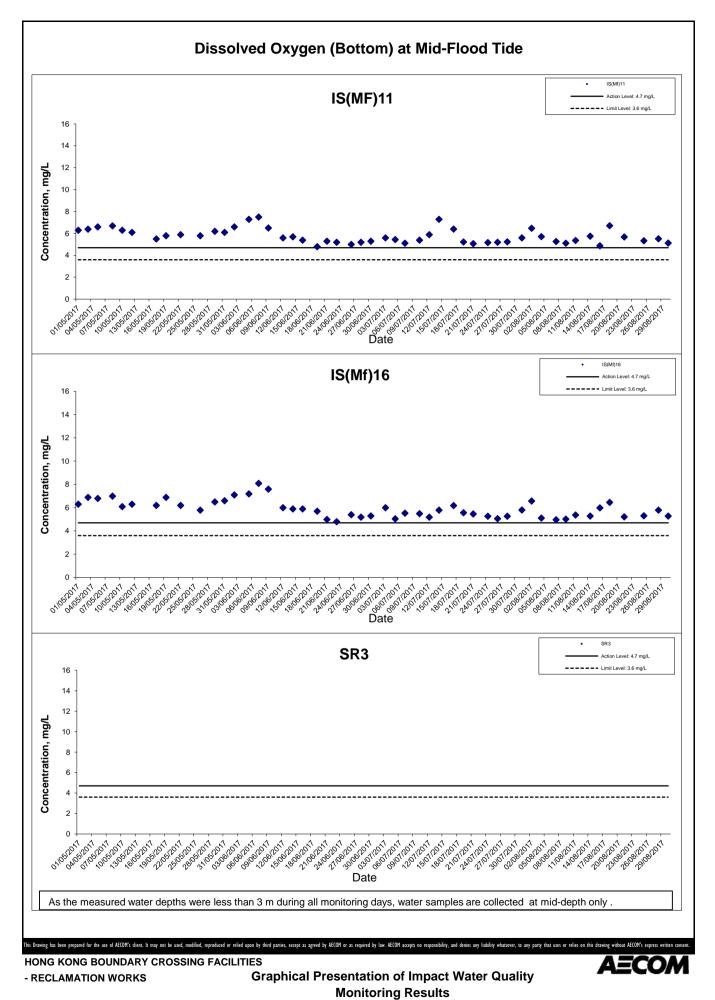
Appendix G

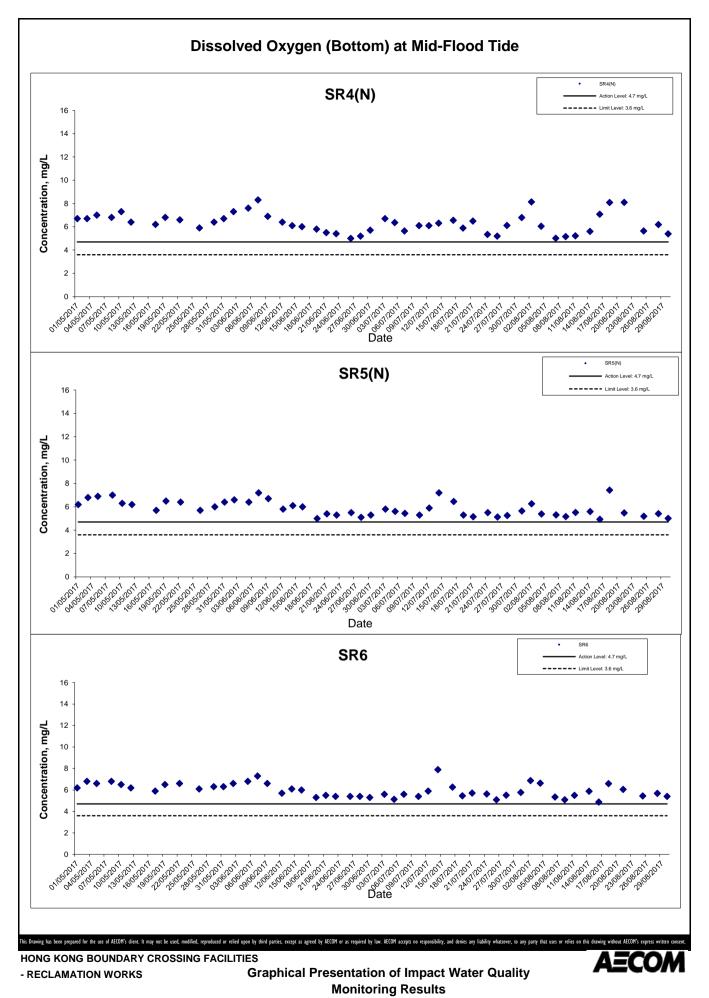




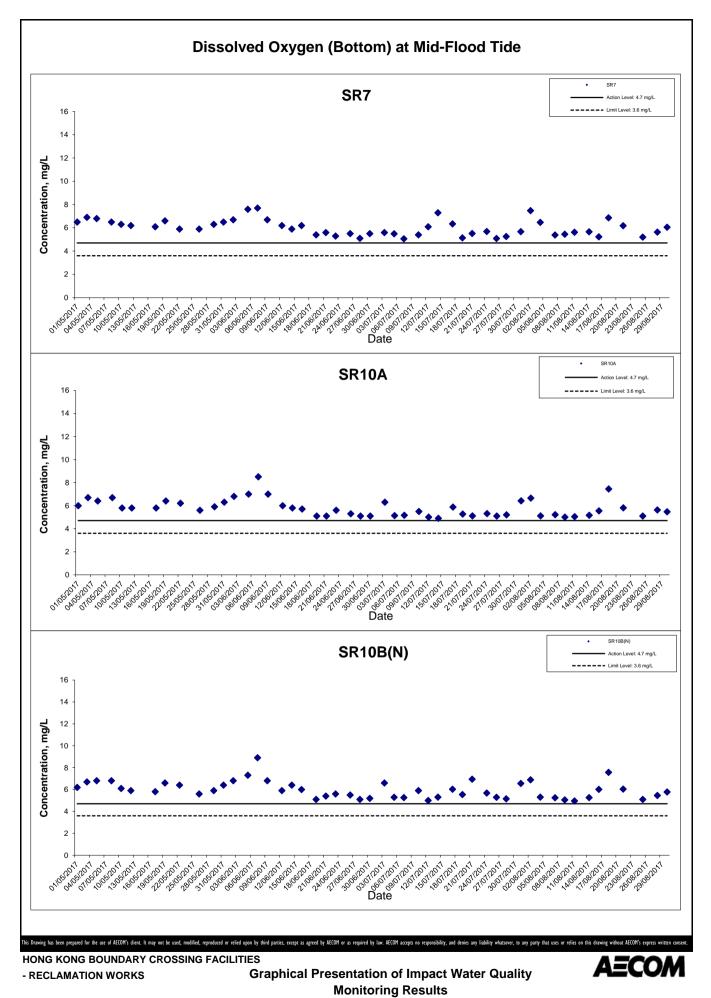
Monitoring Results



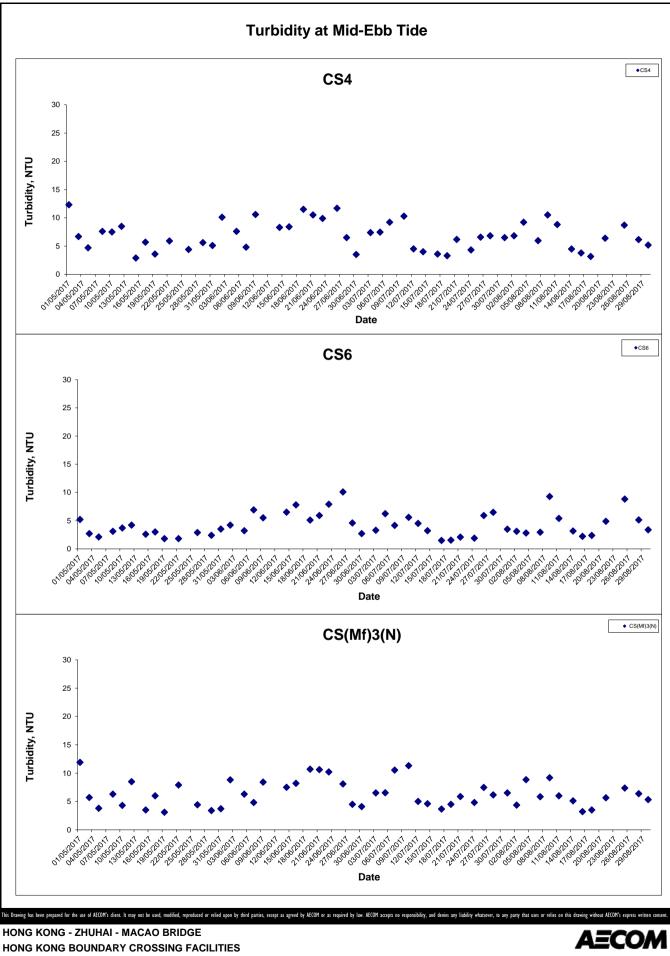




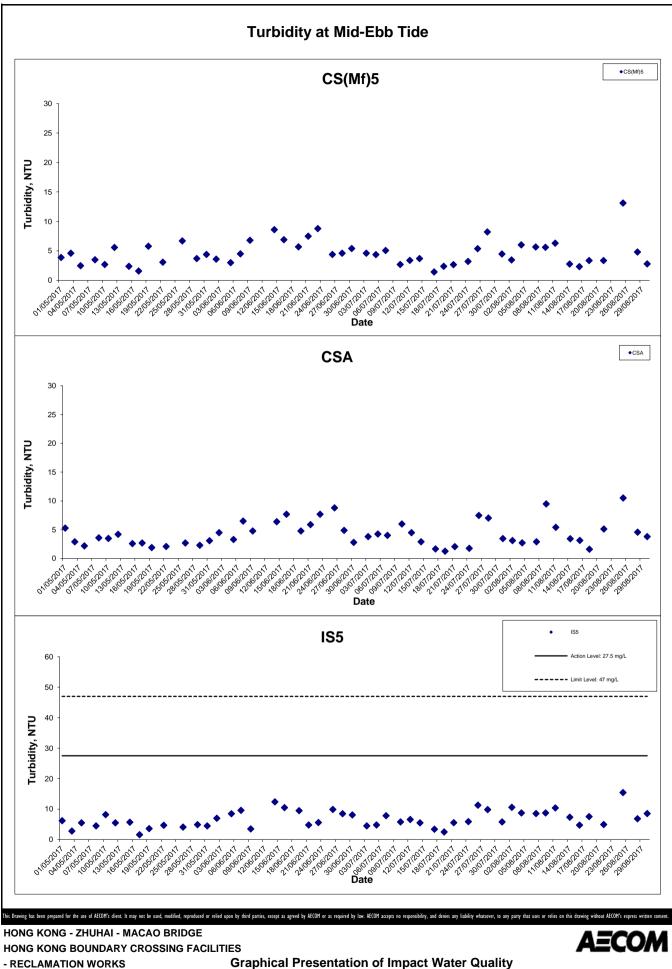
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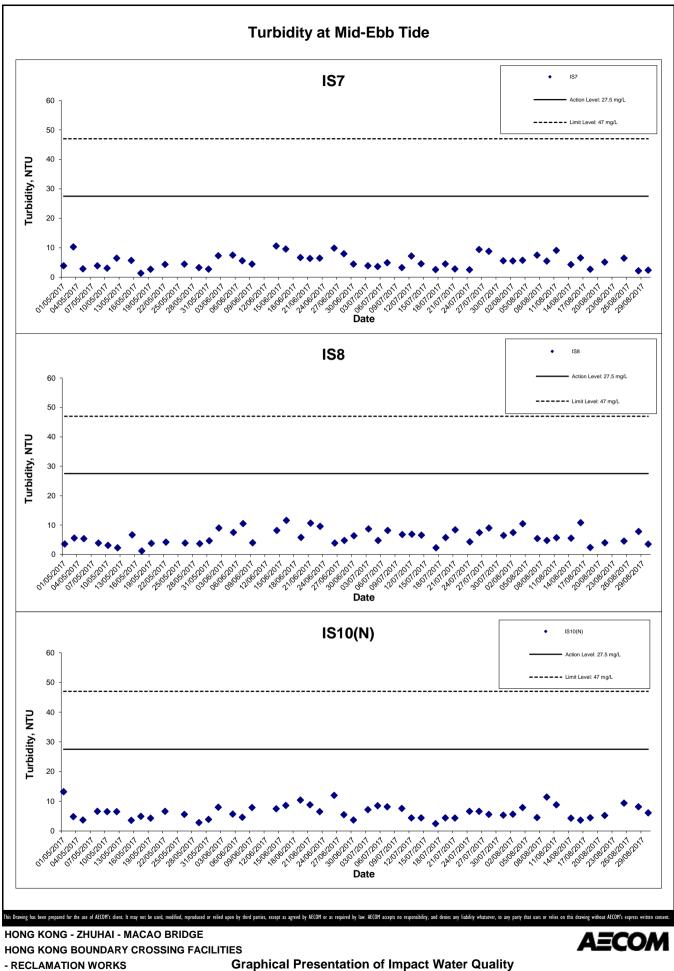


Project No.: 60249820 Date: Sep 2017

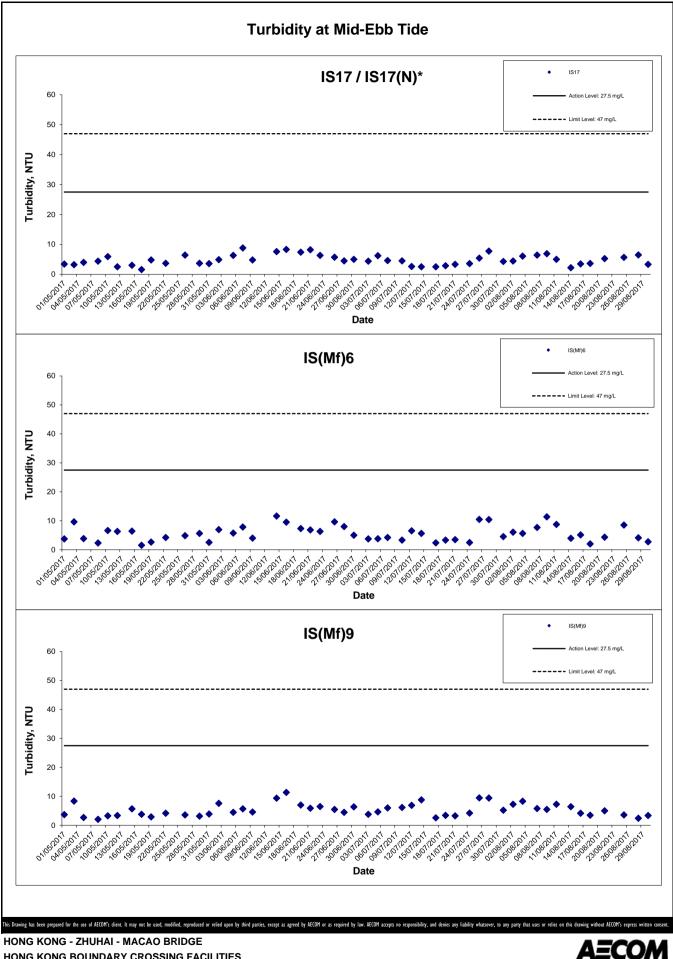


- RECLAMATION WORKS Graphical Presentation of Impact Water Quality Monitoring Results



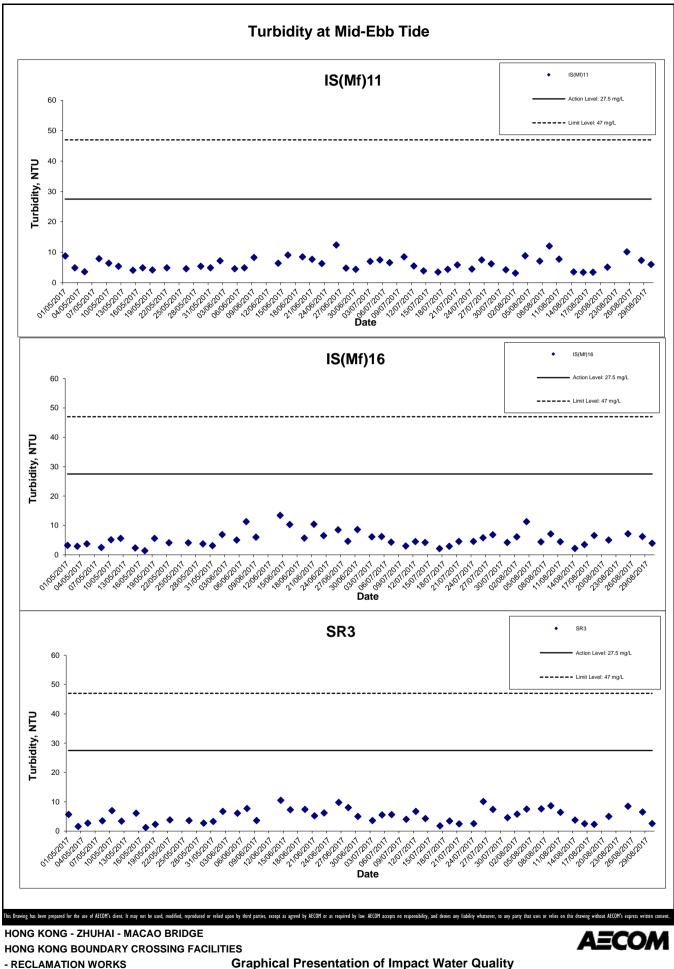


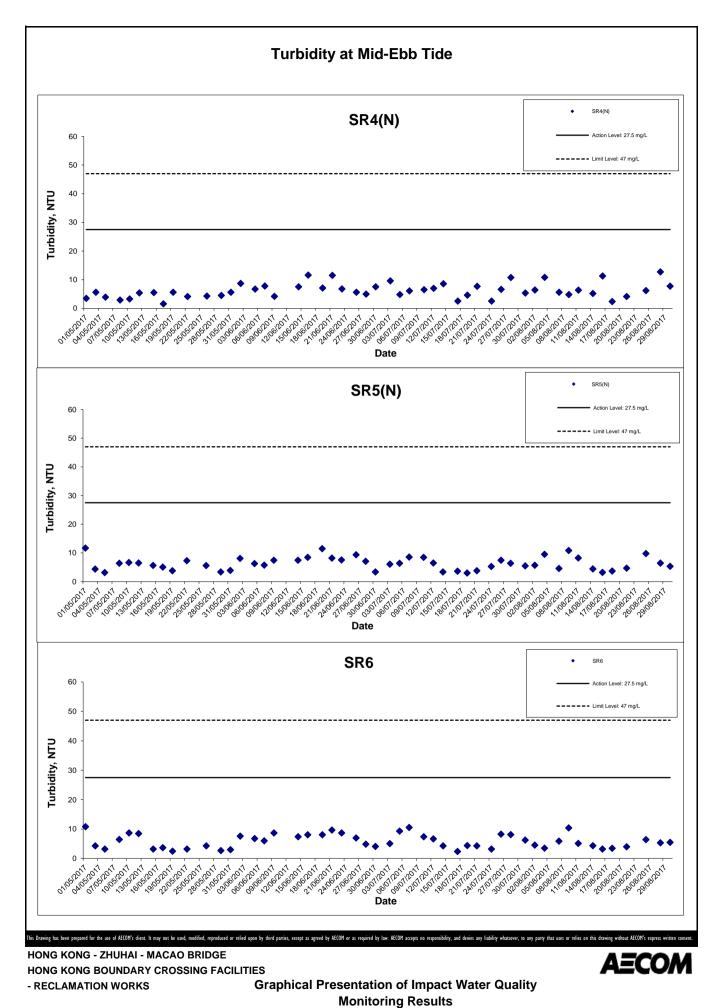
Monitoring Results

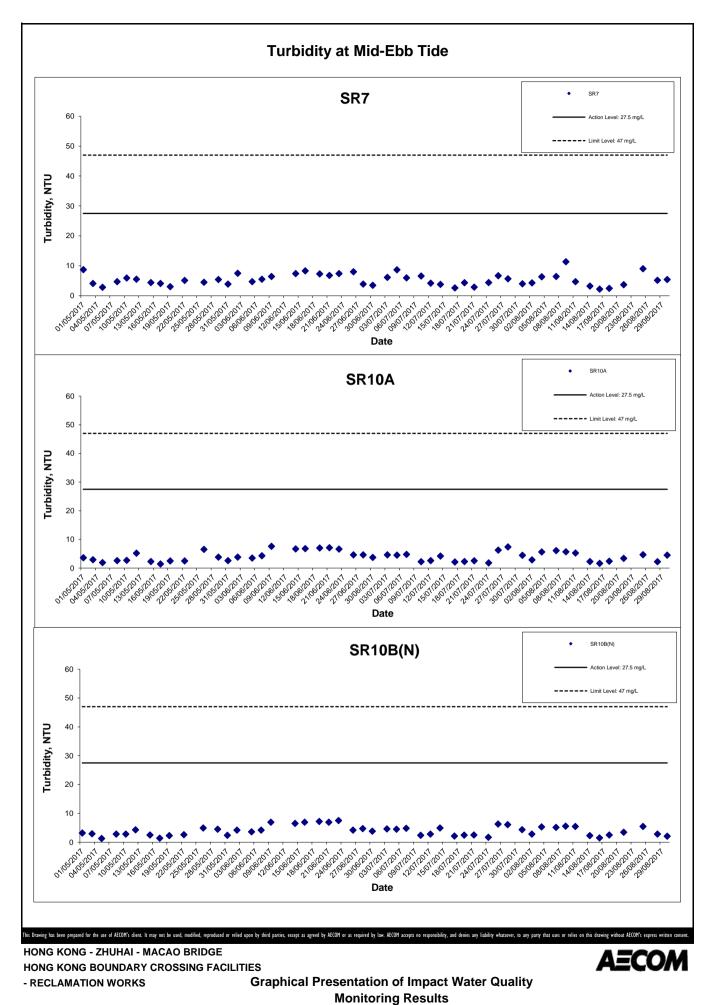


HONG KONG BOUNDARY CROSSING FACILITIES

**Graphical Presentation of Impact Water Quality Monitoring Results** 

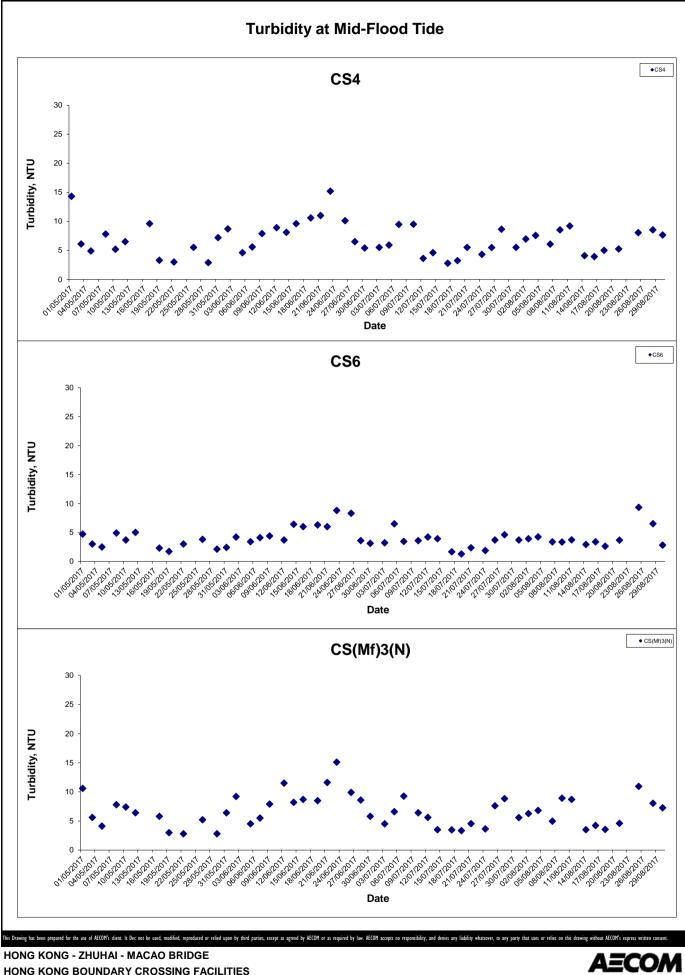




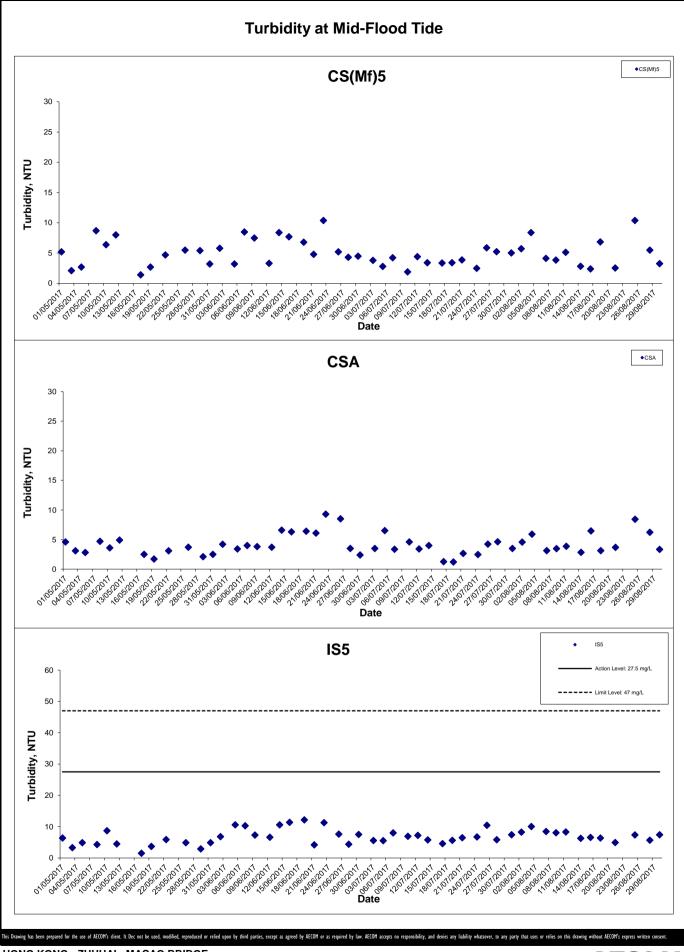


Project No.: 60249820 Date: Sep 2017

Appendix J

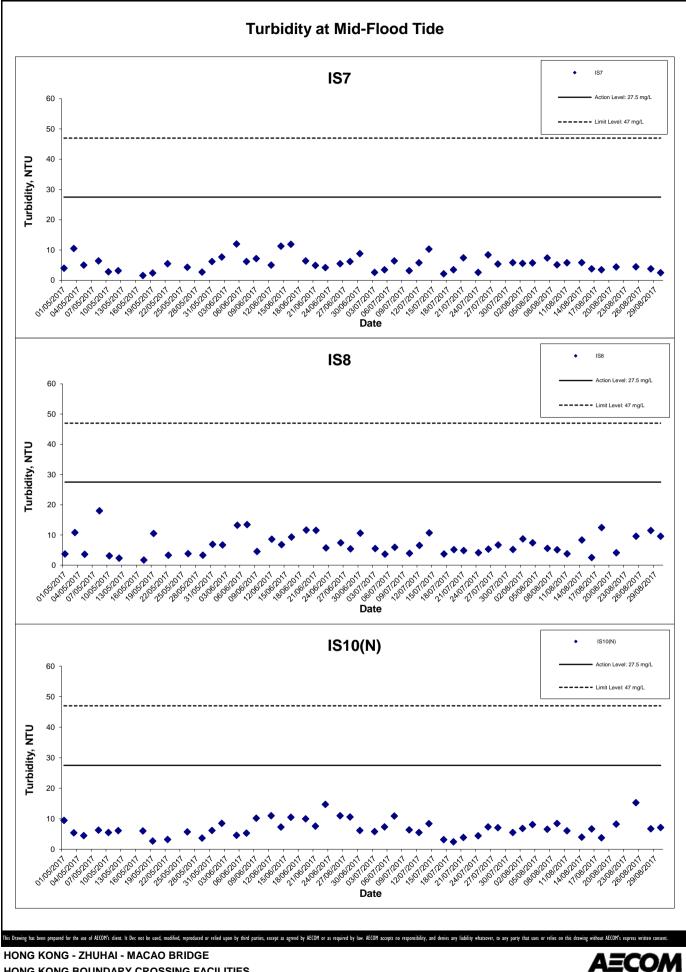


HONG KONG BOUNDARY CROSSING FACILITIES



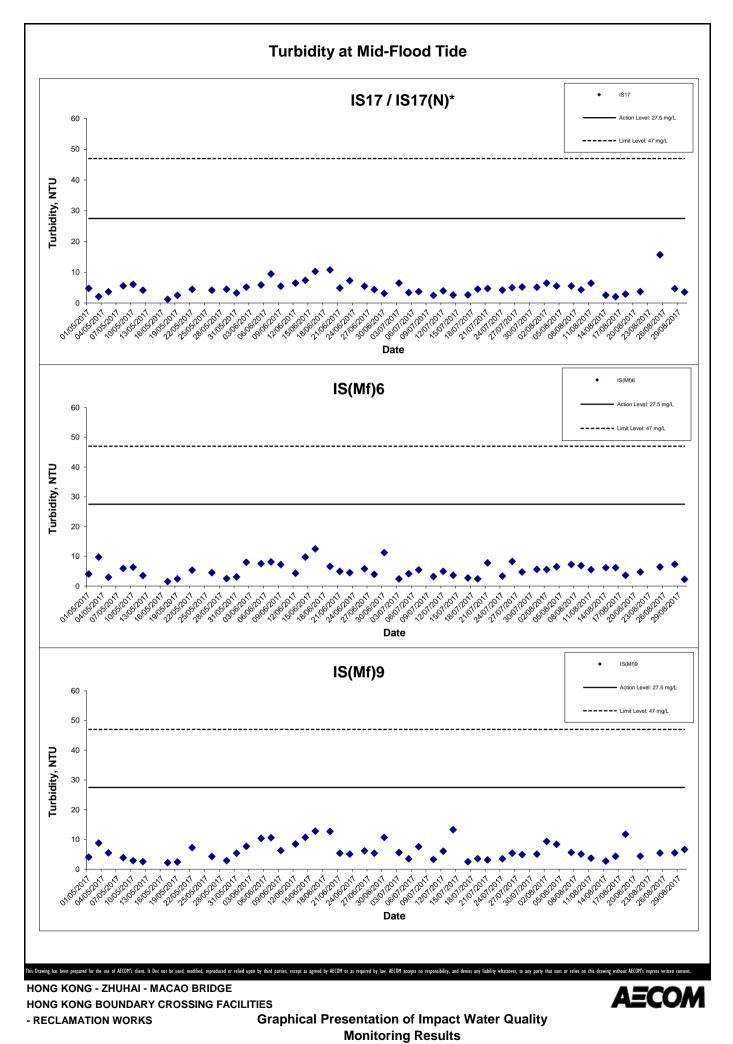
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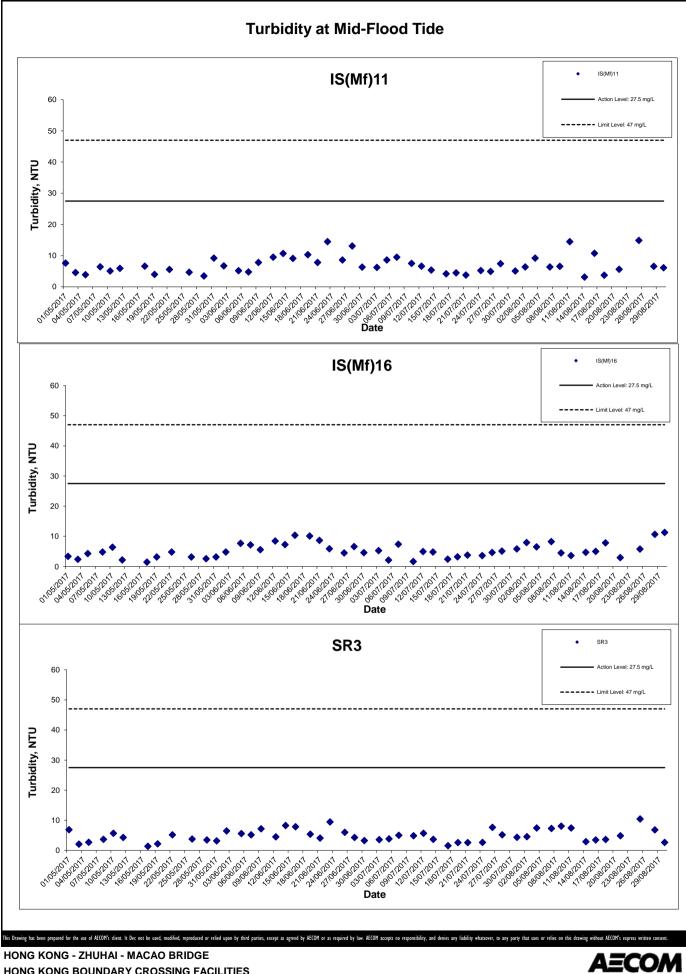
Graphical Presentation of Impact Water Quality Monitoring Results AECOM



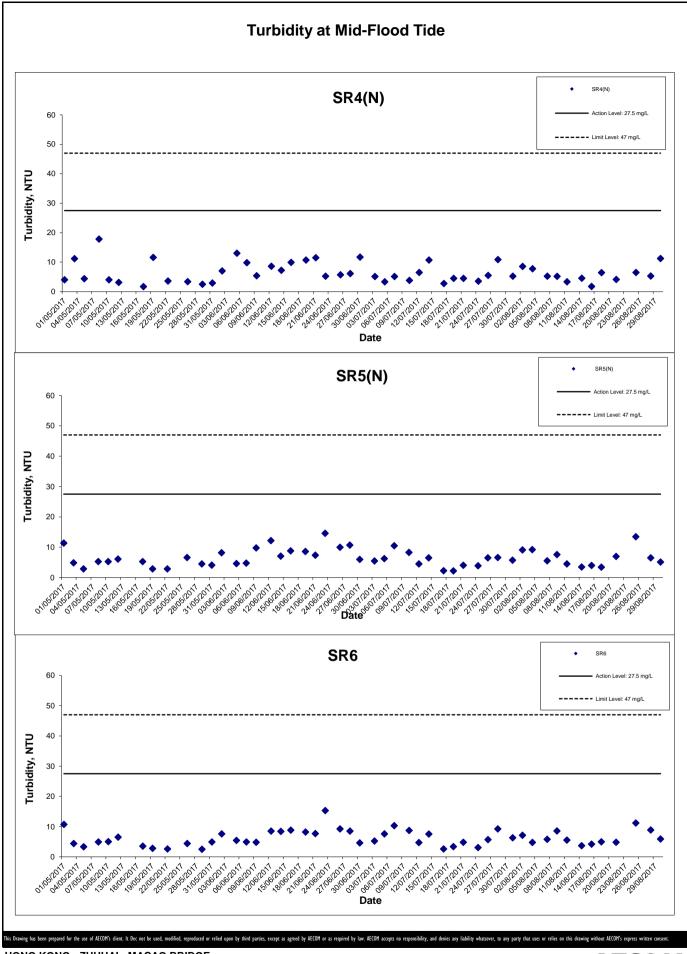
HONG KONG BOUNDARY CROSSING FACILITIES

**Graphical Presentation of Impact Water Quality Monitoring Results** 



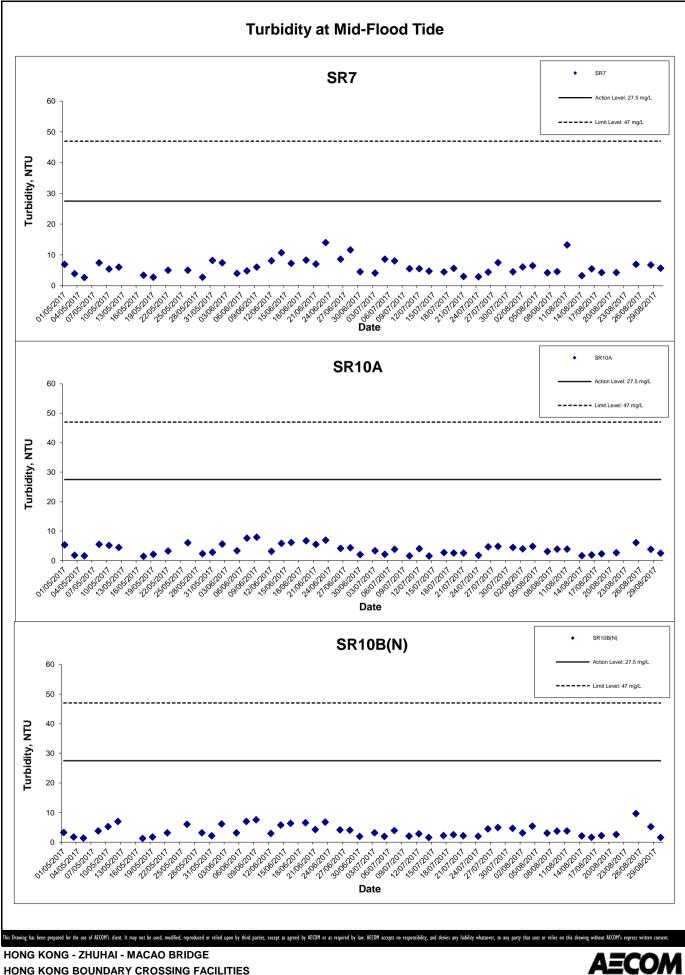


HONG KONG BOUNDARY CROSSING FACILITIES

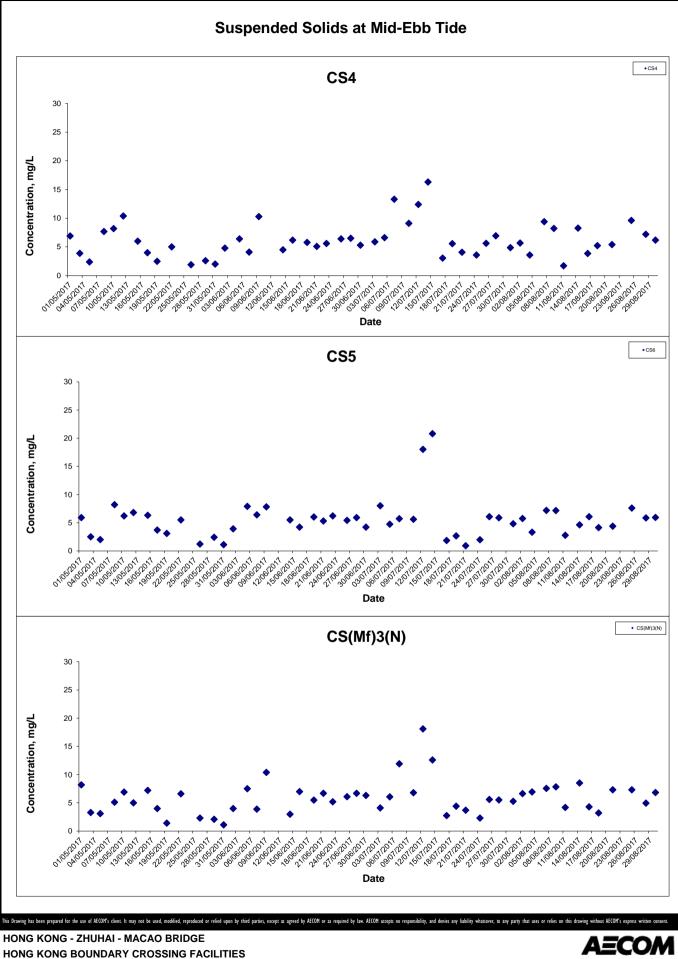


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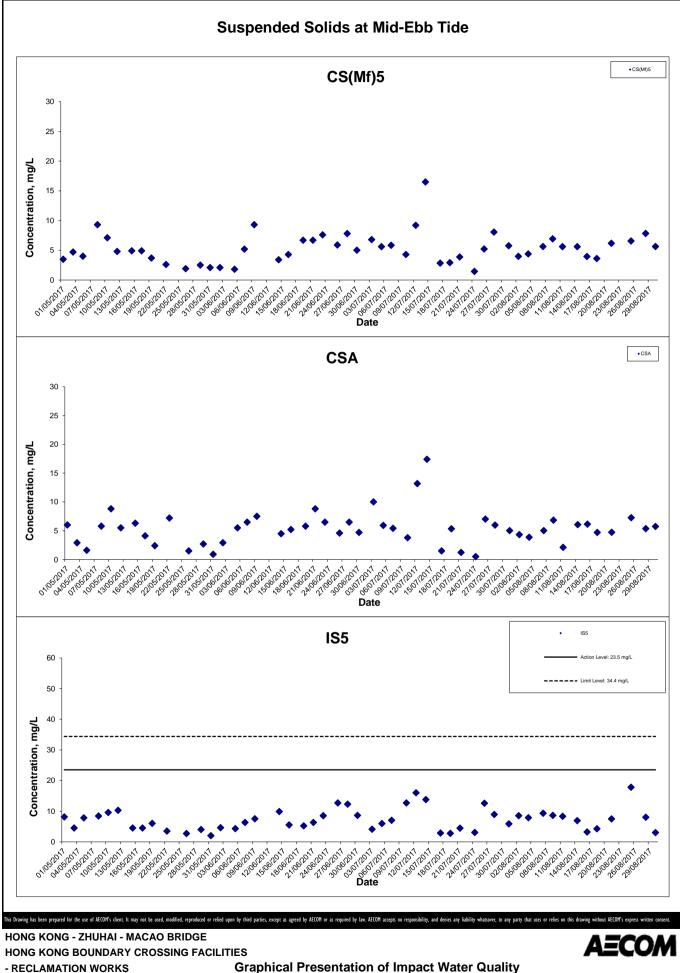
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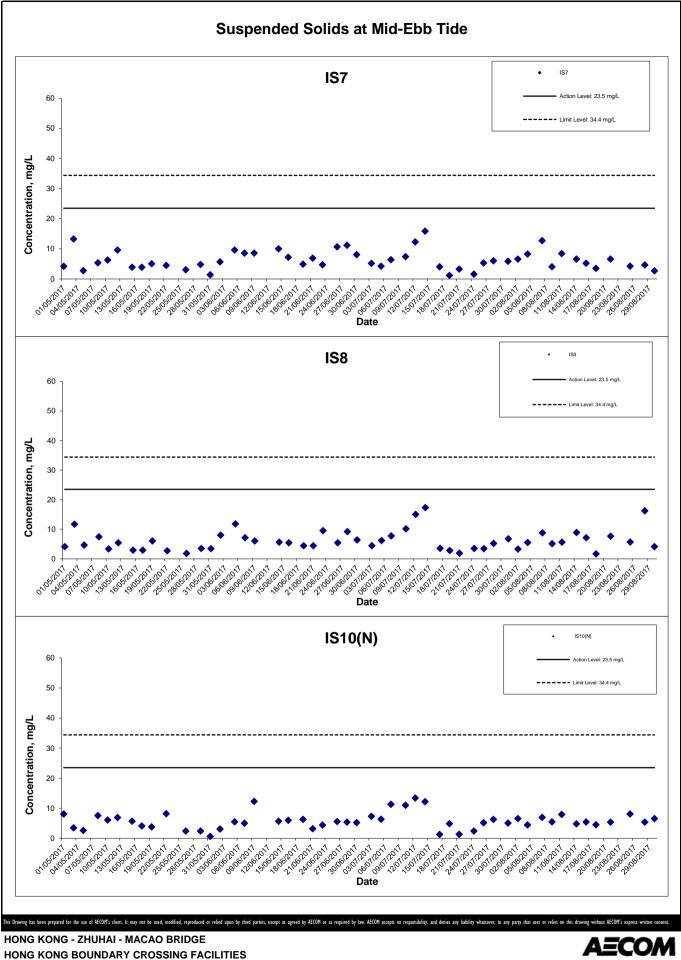


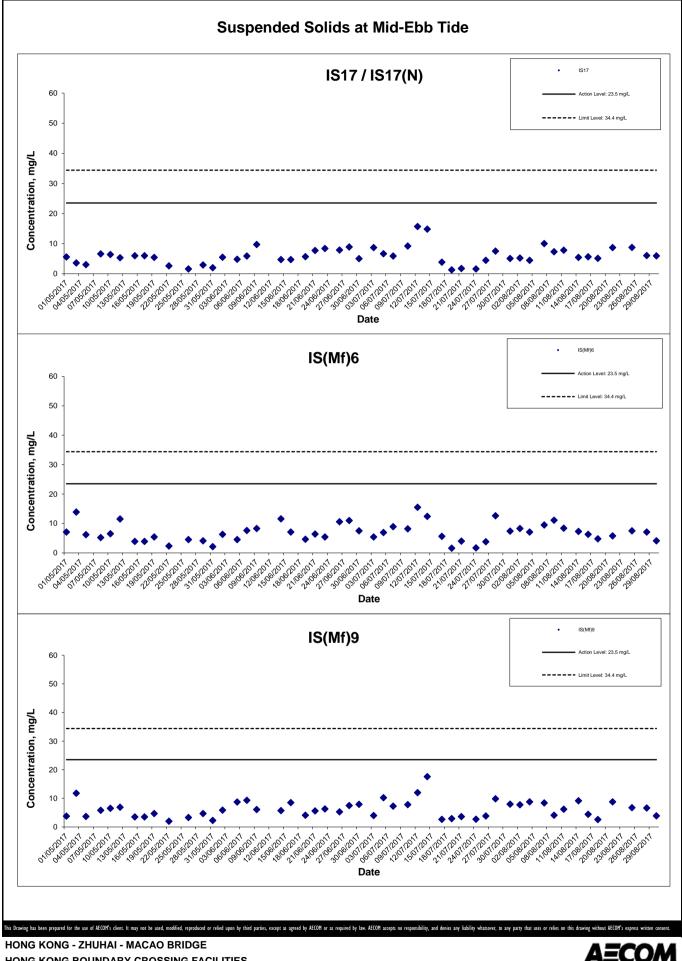
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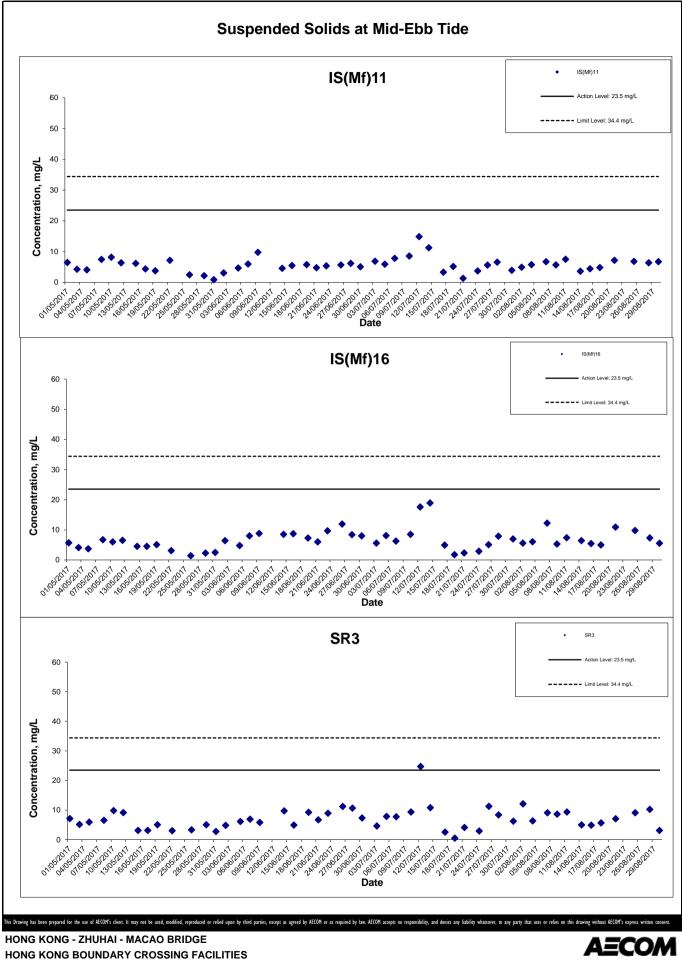
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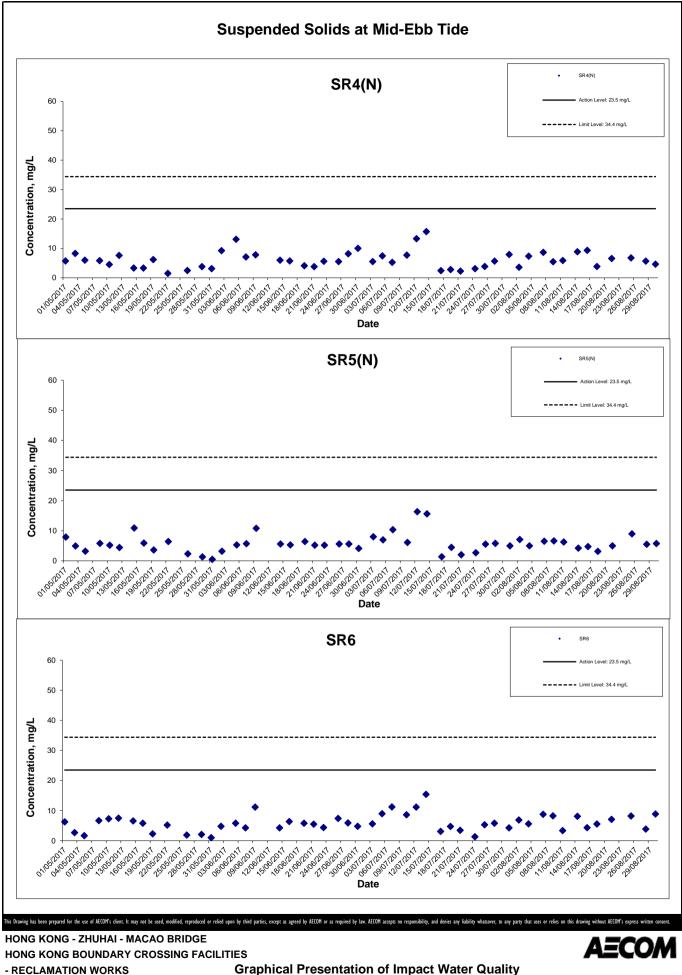


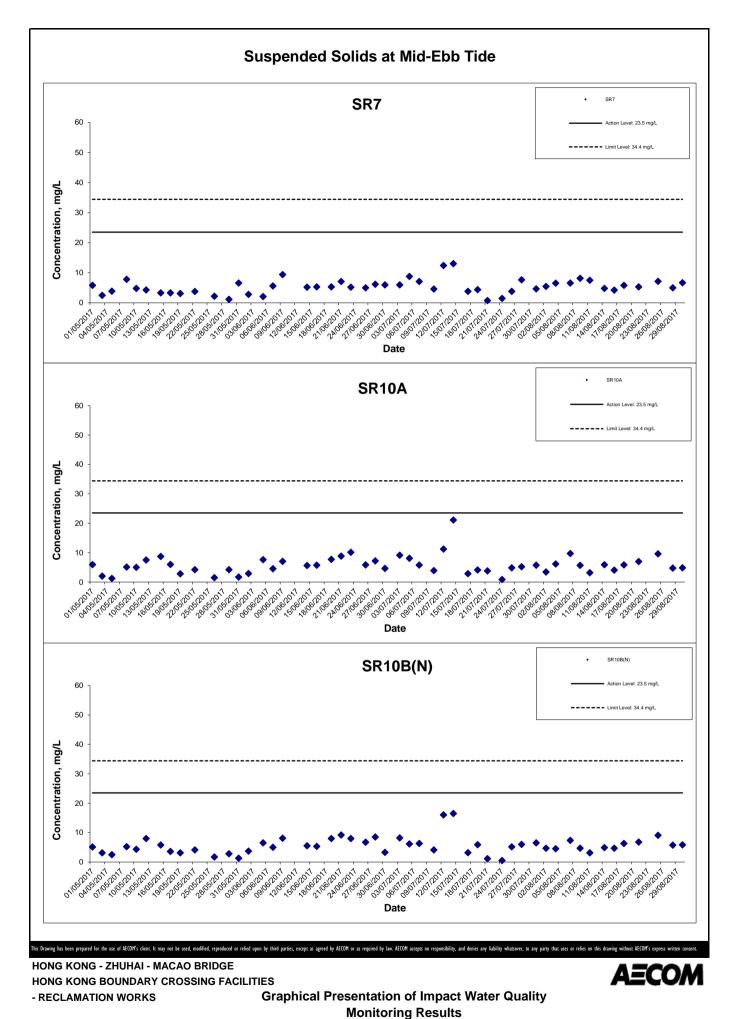




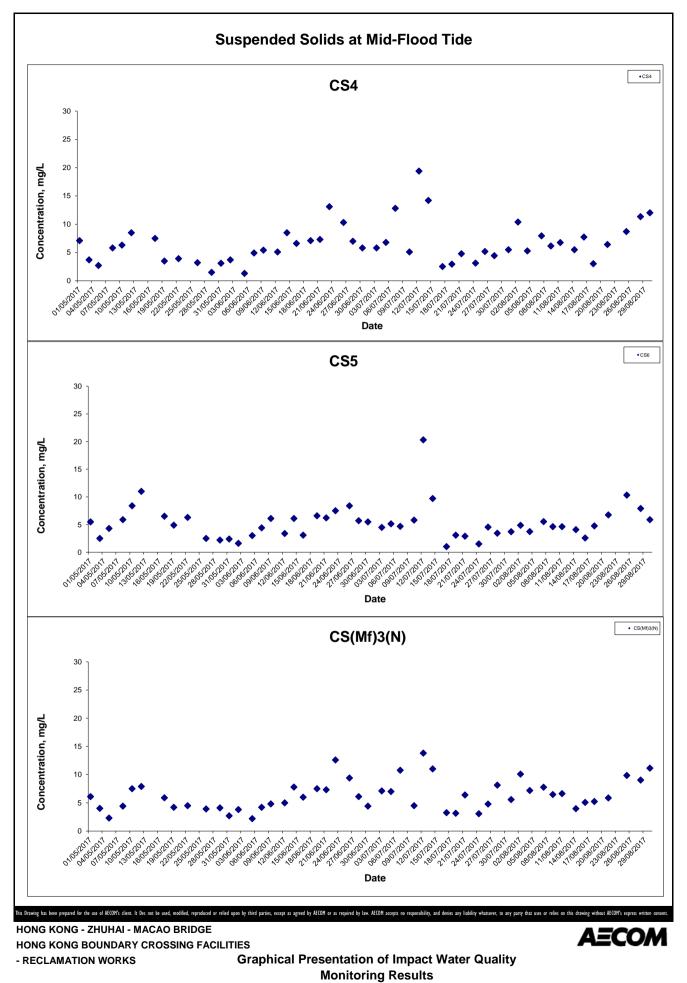
HONG KONG BOUNDARY CROSSING FACILITIES

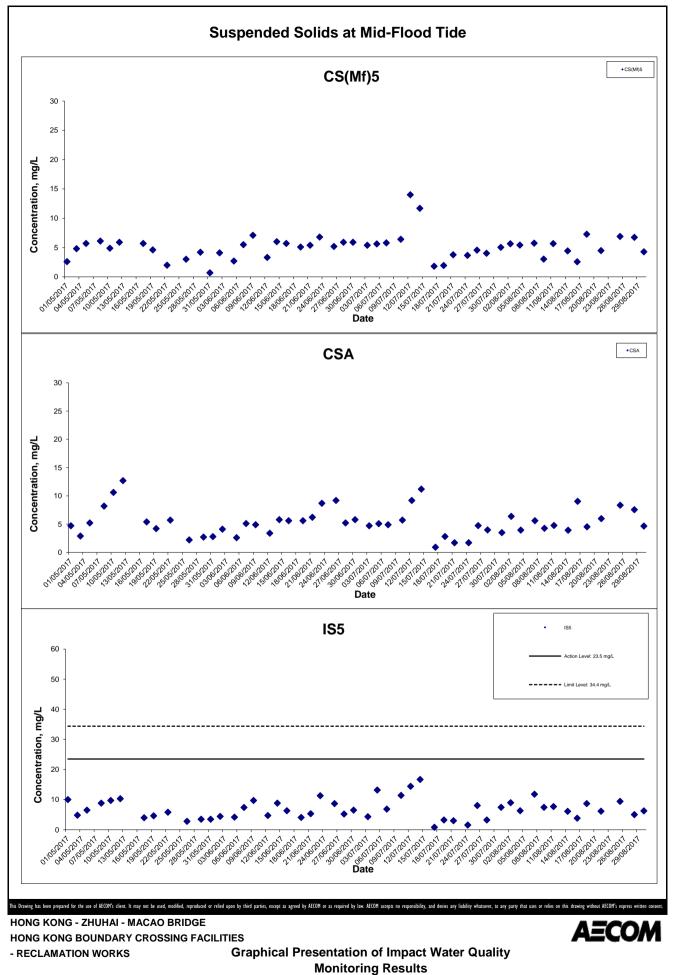


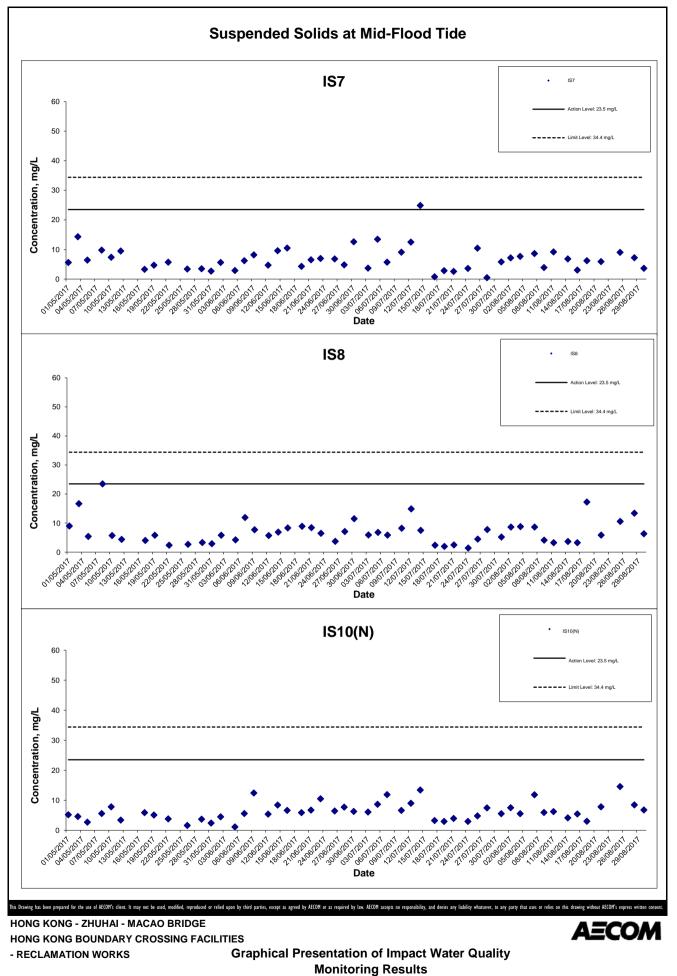


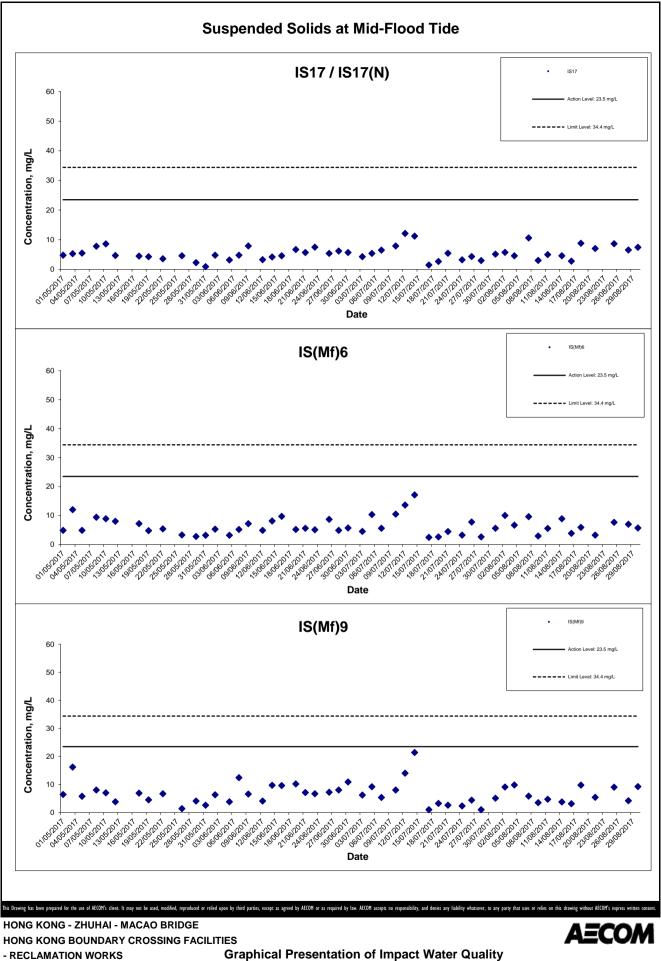


Project No.: 60249820 Date: Sep 2017

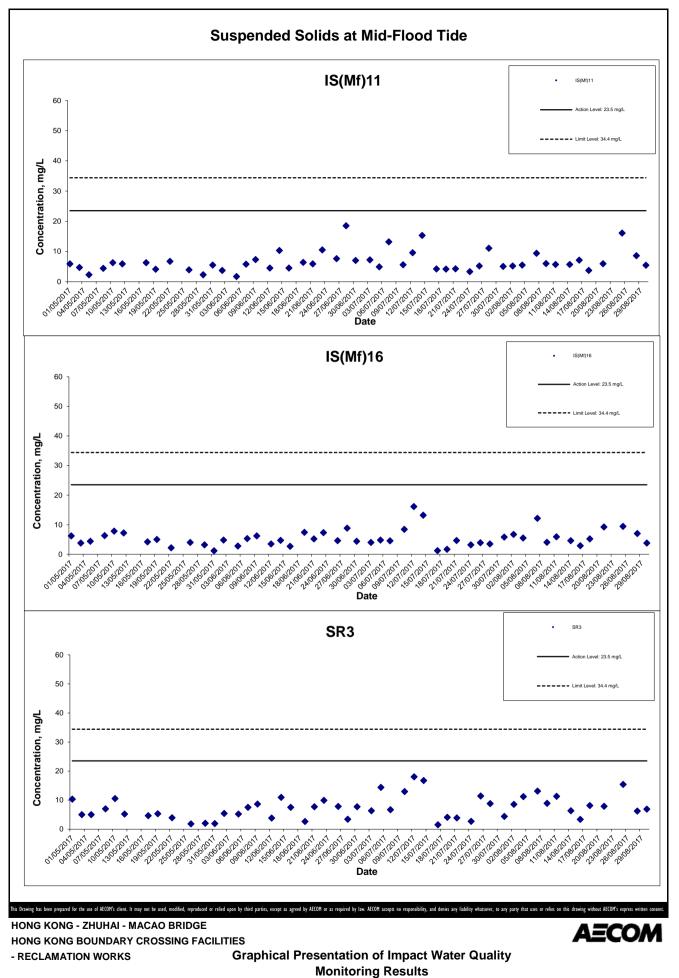


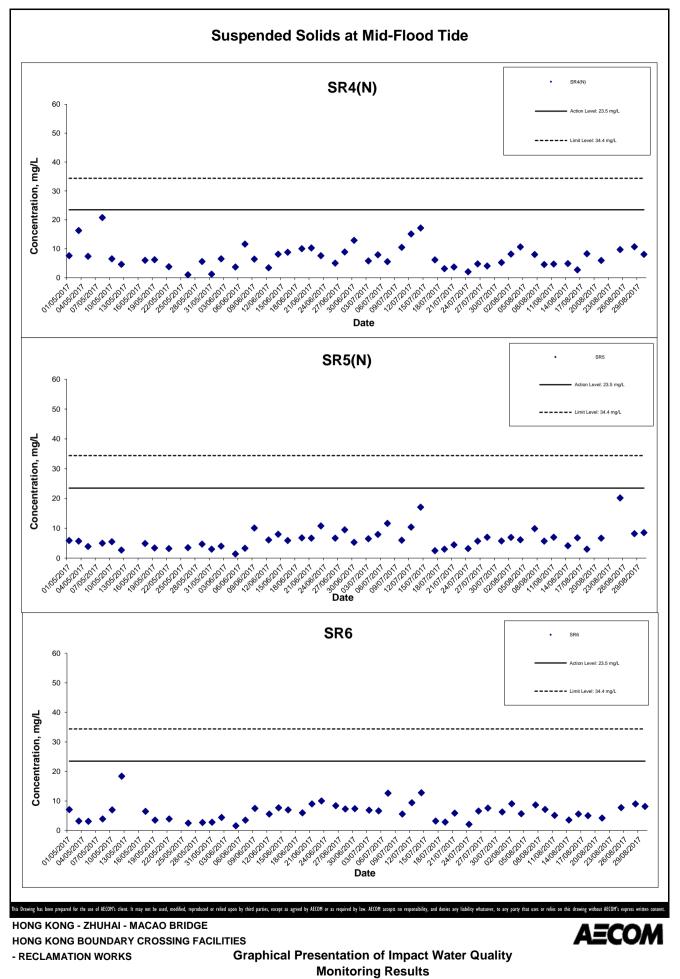


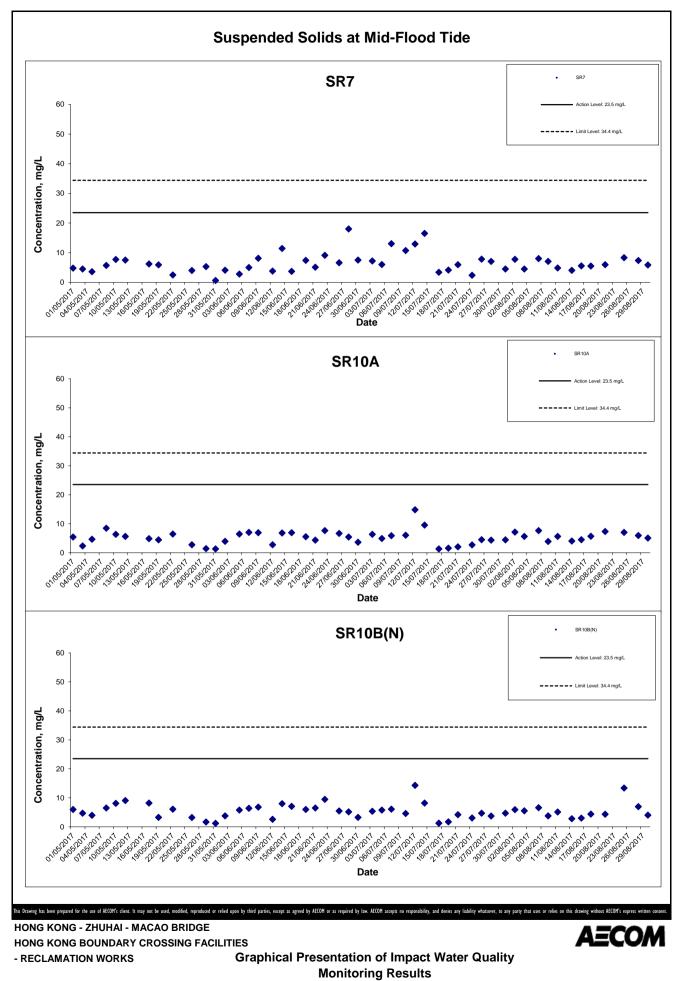




Monitoring Results







## Appendix K Impact Dolphin Monitoring Survey Sighting Summary

## Table 1 Impact Dolphin Monitoring Survey Sighting Table

Project	Contract	Date	Sighting No.	Time	Group Size	Area	Beaufort	PSD	Effort	Туре	Northing	Easting	Season	Boat Association
HKBCF	HY/2010/02	29-Aug-17	1424	09:28:00	7	WL*	1	N/A	Орр	Impact	814114	803396	Summer	No
HKBCF	HY/2010/02	29-Aug-17	1428	10:57:52	5	NWL	1	344	On	Impact	824577	804933	Summer	No
HKBCF	HY/2010/02	29-Aug-17	1429	12:05:00	1	NWL	1	45	On	Impact	829940	805726	Summer	No
HKBCF	HY/2010/02	29-Aug-17	1430	12:30:55	2	NWL	1	19	On	Impact	827016	805658	Summer	No

\*Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL.

KEY:

Sighting	Opp Opportunistic		
	On On effort		
PSD	Perpendicular Sighting Distance	NEL	North East Lantau
Group Size	Represents best estimate for group encountered	NWL	North West Lantau
PS = Purse Sein	e trawler (active)		
HT = Hang Traw	ler (not active but sorting fish and cleaning nets)		
GN = Gill Net			

## Annex I July 2017 Photo Identification Information

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 134		5/23/2016	1251	NWL
HZMB 132		5/23/2016	1244	NWL
HZMB 131		3/22/2016	1215	NWL
		7/25/2017	1413	NWL
HZMB 130		9/5/2016	1301	NWL
		2/4/2016	1199	NWL
		1/5/2017	1354	NWL
		1/5/2017	1353	NWL
		1/7/2016	1189	NWL
HZMB 129		10/22/2015	1156	NWL
		9/7/2015	1143	NWL
		8/25/2015	1138	NWL
HZMB 128		1/3/2015	1056	NWL
HZMB 127		1/3/2015	1056	NWL
		5/23/2016	1244	NWL
HZMB 126		2/23/2015	1068	NWL
		1/3/2015	1054	NWL
		5/23/2016	1249	NWL
HZMB 125		3/7/2016	1208	NWL
		10/13/2014	1019	NWL
HZMB 124		9/22/2014	1005	NWL
HZMB 123		8/25/2014	998	NWL
		10/22/2015	1156	NWL
HZMB 122		8/4/2014	989	NWL
		7/18/2016	1276	NWL
HZMB 121		7/14/2014	968	NWL

HZMB 120	5/31/2014	951	NWL
HZMB 119	4/19/2014	940	NWL
HZMB 118	1/6/2014	890	NWL
HZMB 117	6/17/2014	964	NWL
	1/6/2014	888	NWL
HZMB 116	8/25/2014	999	NWL
	7/14/2014	972	NWL
HZMB 115	7/14/2014	971	NWL
	12/26/2013	879	NWL
	12/26/2013	879	NWL
	1/5/2017	1351	NWL
	11/3/2016	1328	NWL
HZMB 114	6/6/2016	1261	NWL
	11/5/2015	1162	NWL
	10/24/2013	827	NWL
HZMB 113	10/24/2013	827	NWL
HZMB 112	10/15/2013	815	NWL
HZMB 111	10/15/2013	815	NWL
	1/18/2016	1193	NWL
HZMB 110	10/15/2013	812	NWL
	6/11/2015	1118	NWL
HZMB 108	8/30/2013	780	NEL
	7/28/2015	1126	NWL
	10/13/2014	1019	NWL
HZMB 107	5/31/2014	951	NWL
	8/21/2013	770	NWL
HZMB 106	8/21/2013	769	NWL
	5/31/2014	951	NWL
HZMB 105	7/8/2013	711	NWL
HZMB 104	7/8/2013	711	NWL

HZMB 103		7/8/2013	711	NWL
HZMB 102		7/8/2013	706	NWL
HZMB 101		7/8/2013	706	NWL
HZMB 100		7/8/2013	706	NWL
		6/13/2013	681	NWL
HZMB 099		6/13/2013	680	NWL
		5/11/2017	1393	NWL
		1/5/2017	1353	NWL
		2/23/2015	1077	NWL
		12/18/2014	1044	NWL
		8/4/2014	992	NWL
		1/6/2014	888	NWL
	NL104	11/2/2013	849	NWL
		11/2/2013	845	NWL
		10/24/2013	831	NWL
HZMB 098		7/8/2013	711	NWL
		5/24/2013	659	NWL
		11/7/2011	Baseline	NWL
		11/5/2011	Baseline	NWL
		11/5/2011	Baseline	NWL
		11/2/2011	Baseline	NWL
		10/28/2011	Baseline	NWL
		9/23/2011	Baseline	NWL
		9/16/2011	Baseline	NWL
HZMB 097		5/9/2013	647	NWL
HZMB 096		4/1/2013	621	NWL
		8/30/2013	780	NEL
		6/25/2013	697	NWL
HZMB 095		6/13/2013	682	NWL
		4/1/2013	621	NWL
		8/30/2016	1299	NWL
HZMB 094		10/13/2014	1019	NWL

l		5/31/2014	954	NWL
		2/17/2014	910	NWL
		6/26/2013	703	NWL
		6/25/2013	698	NWL
		3/18/2013	601	NWL
HZMB 093		5/24/2013	657	NWL
		2/21/2013	587	NWL
		4/20/2015	1097	NWL
HZMB 092		2/21/2013	589	NWL
		2/15/2013	581	NWL
HZMB 091		2/15/2013	579	NWL
		6/25/2013	697	NWL
HZMB 090		6/13/2013	682	NWL
		2/15/2013	579	NWL
HZMB 089		2/15/2013	579	NWL
HZMB 088		2/15/2013	579	NWL
HZMB 087		2/15/2013	579	NWL
		3/19/2015	1086	NWL
HZMB 086	NL242	5/9/2013	642	NWL
		2/15/2013	579	NWL
		10/10/2011	Baseline	NWL
HZMB 085		10/13/2014	1019	NWL
		5/31/2014	954	NWL
		6/26/2013	703	NWL
HZMB 084		2/15/2013	579	NWL
		2/14/2013	575	NWL
		11/3/2016	1332	NWL
		8/30/2016	1298	NWL
		12/1/2015	1180	NWL
		5/11/2015	1104	NWL
HZMB 083	NL136	12/19/2013	863	NWL
		3/28/2013	607	NWL
		2/15/2013	579	NWL
		1/28/2013	568	NWL
		1/28/2013	564	NWL

	4/19/2012	267	NWL
	10/28/2011	Baseline	NWL
	10/28/2011	Baseline	NWL
	10/10/2011	Baseline	NEL
	9/6/2011	Baseline	NWL
	10/20/2014	1024	NWL
	2/21/2013	587	NWL
HZMB 082	2/15/2013	579	NWL
	1/28/2013	563	NWL
	1/28/2013	559	NWL
HZMB 081	1/28/2013	557	NWL
HZMB 080	1/28/2013	556	NWL
HZMB 079	1/28/2013	556	NWL
	2/15/2013	579	NWL
HZMB 078	1/8/2013	552	NWL
	12/26/2013	878	NWL
HZMB 077	7/8/2013	706	NWL
	12/11/2012	541	NWL
HZMB 076	7/8/2013	706	NWL
	12/11/2012	541	NWL
HZMB 075	12/6/2012	525	NEL
	5/9/2013	647	NWL
	4/1/2013	623	NWL
HZMB 074	4/1/2013	621	NWL
	2/21/2013	594	NEL
	12/10/2012	529	NEL
	12/6/2012	525	NEL
	5/9/2013	647	NWL
	4/1/2013	623	NWL
HZMB 073	4/1/2013	621	NWL
	2/21/2013	594	NEL
	12/10/2012	529	NEL
	12/6/2012	525	NEL
HZMB 072	10/24/2012	476	NWL
HZMB 071	10/24/2012	475	NWL

		10/12/2012	466	NWL
HZMB 070		10/24/2012	476	NWL
		6/4/2015	1116	NWL
		8/21/2013	774	NWL
HZMB 069		7/8/2013	711	NWL
		10/24/2012	476	NWL
		10/20/2014	1025	NWL
HZMB 068		11/1/2013	839	NWL
		10/24/2012	476	NWL
HZMB 067		10/24/2012	475	NWL
		1/28/2013	559	NWL
		12/11/2012	537	NWL
HZMB 066	NL93	10/24/2012	475	NWL
	INE95	10/12/2012	466	NWL
		11/7/2011	Baseline	NWL
		11/5/2011	Baseline	NWL
		3/19/2015	1086	NWL
		6/17/2014	964	NWL
HZMB 064		5/9/2013	647	NWL
		1/28/2013	561	NWL
		10/24/2012	475	NWL
		10/12/2012	466	NWL
HZMB 063		5/9/2013	647	NWL
		10/12/2012	466	NWL
HZMB 062		12/6/2012	525	NEL
		10/11/2012	457	NWL
HZMB 060		9/18/2012	447	NWL
		2/21/2013	591	NWL
HZMB 059		9/18/2012	445	NWL
HZMB 057		9/18/2012	440	NWL
		9/18/2012	442	NWL
HZMB 056		9/5/2012	433	NEL
HZMB 055		9/4/2012	425	NWL
		7/25/2017	1417	NWL
HZMB 054	CH34	5/11/2017	1393	NWL

		11/3/2016	1331	NWL
		5/12/2016	1238	NWL
		12/1/2015	1180	NWL
		4/20/2015	1097	NWL
		1/15/2015	1062	NWL
		5/31/2014	953	NWL
		1/6/2014	888	NWL
		11/7/2013	854	NWL
		11/2/2013	845	NWL
		10/24/2013	831	NWL
		8/30/2013	780	NEL
		7/8/2013	711	NWL
		9/18/2013	448	NWL
		9/5/2012	432	NEL
		11/7/2011	Baseline	NWL
		11/5/2011	Baseline	NWL
		11/2/2011	Baseline	NWL
		11/1/2011	Baseline	NEL
		11/1/2011	Baseline	NEL
		10/28/2011	Baseline	NWL
		10/6/2011	Baseline	NWL
HZMB 053		9/4/2012	425	NWL
HZMB 052		9/4/2012	423	NWL
		5/11/2015	1104	NWL
		8/4/2014	989	NWL
		5/9/2013	644	NWL
		4/1/2013	622	NWL
HZMB 051	NL213	2/15/2013	582	NWL
		2/15/2013	581	NWL
		1/28/2013	559	NWL
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		9/4/2012	422	NWL
		7/14/2014	971	NWL
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		1/6/2014	888	NWL

	1	2/15/2013	579	NWL
		9/4/2012	421	NWL
		10/9/2015	1151	NWL
HZMB 049		7/29/2014	982	NWL
		9/3/2012	419	NWL
HZMB 048		9/3/2012	419	NWL
		4/28/2015	1100	NWL
HZMB 047		9/3/2012	412	NWL
HZMB 046		9/3/2012	412	NWL
		5/23/2016	1249	NWL
		2/17/2014	910	NWL
HZMB 045		6/13/2013	682	NWL
		2/15/2013	579	NWL
		11/1/2012	495	NWL
		1/5/2017	1350	NWL
		5/23/2016	1247	NWL
		1/18/2016	1194	NWL
		10/13/2014	1019	NWL
		2/17/2014	910	NWL
		12/19/2013	864	NWL
		11/2/2013	845	NWL
		11/1/2013	842	NWL
		10/15/2013	819	NWL
HZMB 044	NL98	5/9/2013	648	NWL
		5/9/2013	647	NWL
		4/1/2013	623	NWL
		4/1/2013	621	NWL
		2/15/2013	579	NWL
		11/1/2012	495	NWL
		11/7/2011	Baseline	NWL
		11/6/2011	Baseline	NEL
		11/1/2011	Baseline	NEL
		10/6/2011	Baseline	NEL
HZMB 043		9/3/2012	407	NWL
HZMB 042	NL260	10/22/2015	1156	NWL

		12/19/2013	863	NWL
		11/1/2012	495	NWL
		11/7/2011	Baseline	NWL
		6/5/2014	960	NEL
		2/17/2014	910	NWL
		11/2/2013	845	NWL
		5/9/2013	648	NWL
		5/9/2013	647	NWL
		4/1/2013	623	NWL
HZMB 041	NL24	4/1/2013	621	NWL
		2/15/2013	579	NWL
		11/1/2012	495	NWL
		11/6/2011	Baseline	NEL
		11/5/2011	Baseline	NWL
		11/5/2011	Baseline	NWL
		10/10/2011	Baseline	NWL
		2/17/2014	910	NWL
		1/6/2014	893	NWL
		10/15/2013	821	NWL
HZMB 040		7/8/2013	714	NWL
		7/8/2013	711	NWL
		2/21/2013	589	NWL
		11/1/2012	493	NWL
		5/23/2016	1246	NWL
HZMB 038		11/1/2012	490	NWL
HZMB 037		11/1/2012	490	NWL
		1/5/2017	1351	NWL
		1/5/2017	1350	NWL
HZMB 036		9/3/2012	407	NWL
		11/1/2012	490	NWL
		2/15/2013	579	NWL
HZMB 035		11/1/2012	490	NWL
HZMB 034		11/1/2012	493	NWL
		11/17/2014	1035	NWL
HZMB 028		4/1/2013	625	NWL

	8/6/2012	373	NWL
	12/19/2013	863	NWL
	2/15/2013	579	NWL
HZMB 027	1/28/2013	568	NWL
	1/28/2013	564	NWL
	6/14/2012	299	NWL
	10/13/2014	1018	NWL
	6/25/2013	697	NWL
HZMB 026	5/9/2013	642	NWL
	1/28/2013	561	NWL
	6/13/2012	295	NEL
	2/22/2013	596	NEL
	2/21/2013	591	NWL
HZMB 025	12/6/2012	525	NEL
	10/11/2012	457	NWL
	6/13/2012	295	NEL
	3/18/2013	601	NWL
HZMB 024	6/13/2012	295	NEL
	1/5/2017	1353	NWL
	11/3/2016	1330	NWL
	10/9/2015	1153	NWL
	10/9/2015	1152	NWL
	4/20/2015	1097	NWL
	12/18/2014	1044	NWL
HZMB 023	11/17/2014	1035	NWL
	1/6/2014	888	NWL
	7/8/2013	715	NWL
	7/8/2013	711	NWL
	4/1/2013	619	NWL
	2/21/2013	589	NWL
	2/15/2013	579	NWL
	7/10/2012	330	NWL
	1/5/2017	1353	NWL
	11/3/2016	1330	NWL
HZMB 022	4/21/2016	1219	NWL
	9/7/2015	1143	NWL
	4/20/2015	1097	NWL

		12/18/2014	1044	NWL
		11/17/2014	1035	NWL
		8/4/2014	991	NWL
		1/6/2014	888	NWL
		10/24/2013	827	NWL
		7/8/2013	715	NWL
		7/8/2013	711	NWL
		4/1/2013	619	NWL
		2/21/2013	589	NWL
		2/15/2013	579	NWL
		7/10/2012	330	NWL
		3/22/2016	1215	NWL
HZMB 021	NL37	7/10/2012	330	NWL
		9/16/2011	Baseline	NWL
HZMB 020		7/10/2012	330	NWL
HZMB 019		7/10/2012	330	NWL
		2/17/2014	910	NWL
		5/9/2013	647	NWL
HZMB 018		2/21/2013	594	NEL
		12/10/2012	529	NEL
		7/10/2012	330	NWL
HZMB 017		7/10/2012	330	NWL
		7/8/2013	706	NWL
		12/11/2012	539	NWL
HZMB 016		9/18/2012	446	NWL
		9/4/2012	421	NWL
		7/10/2012	330	NWL
HZMB 015		7/10/2012	330	NEL
		8/25/2015	1139	NWL
		12/26/2013	880	NWL
		8/6/2012	373	NWL
HZMB 014	NL176	6/13/2012	295	NEL
		11/6/2011	Baseline	NEL
		11/1/2011	Baseline	NEL
		11/1/2011	Baseline	NEL

HZMB 013		5/28/2012	281	NWL
HZMB 012		5/28/2012	281	NWL
		2/22/2013	597	NEL
		2/21/2013	592	NEL
		2/14/2013	572	NEL
HZMB 011	EL01	11/6/2012	517	NEL
	ELUI	9/19/2012	452	NWL
		3/31/2012	261	NEL
		11/2/2011	Baseline	NWL
		11/1/2011	Baseline	NEL
		3/19/2015	1084	NWL
HZMB 009		5/28/2012	281	NWL
		7/6/2015	1122	NWL
HZMB 008		5/28/2012	281	NWL
		12/10/2012	529	NEL
HZMB 007	NL246	11/6/2011	Baseline	NEL
		9/16/2011	Baseline	NWL
		10/22/2015	1158	NWL
		2/21/2013	594	NEL
HZMB 006		12/11/2012	539	NWL
		11/1/2012	495	NWL
		3/29/2012	250	NWL
		2/9/2015	1070	NWL
		2/9/2015	1069	NWL
		11/9/2013	860	NWL
		11/7/2013	858	NWL
HZMB 005		10/15/2013	813	NWL
		12/10/2012	532	NWL
		8/6/2012	374	NWL
		5/28/2012	287	NWL
		7/28/2015	1126	NWL
HZMB 004		9/4/2012	421	NWL
		3/31/2012	262	NWL
HZMB 003	NL179	10/15/2013	812	NWL
		6/25/2013	697	NWL

		12/10/2012	529	NEL
		3/31/2012	261	NWL
		11/6/2011	Baseline	NEL
		9/16/2011	Baseline	NWL
		5/31/2014	951	NWL
		12/26/2013	878	NWL
		12/19/2013	863	NWL
		11/1/2013	839	NWL
		10/15/2013	819	NWL
		9/24/2013	798	NWL
		2/14/2013	573	NWL
HZMB 002	WL111	12/11/2012	536	NWL
		12/11/2012	535	NWL
		10/12/2012	466	NWL
		10/24/2012	475	NWL
		5/28/2012	281	NWL
		3/29/2012	250	NWL
		11/2/2011	Baseline	NWL
		7/18/2016	1276	NWL
		5/23/2016	1251	NWL
		8/25/2014	997	NWL
		8/21/2013	771	NWL
HZMB 001	WL46	6/13/2013	681	NWL
		4/1/2013	617	NWL
		2/14/2013	573	NWL
		3/29/2012	250	NWL
	CH98	11/2/2011	Baseline	NWL
	NL11	11/2/2011	Baseline	NWL
		11/7/2011	Baseline	NWL
	NL12	11/2/2011	Baseline	NWL
		9/23/2011	Baseline	NWL
	NII 22	11/1/2011	Baseline	NEL
	NL33	11/5/2011	Baseline	NWL
		11/7/2011	Baseline	NWL
	NL46	10/28/2011	Baseline	NWL
	CH153	10/11/2011	Baseline	NWL
	NL48	11/7/2001	Baseline	NWL

	11/2/2011	Baseline	NWL
	9/16/2011	Baseline	NWL
	9/16/2011	Baseline	NWL
NL75	9/16/2011	Baseline	NWL
	11/1/2011	Baseline	NEL
NL80	11/2/2011	Baseline	NWL
NL118	9/6/2011	Baseline	NWL
NII 400	11/6/2011	Baseline	NEL
NL120	10/10/2011	Baseline	NWL
	11/6/2011	Baseline	NEL
NL123	10/10/2011	Baseline	NWL
	10/6/2011	Baseline	NWL
	11/1/2011	Baseline	NEL
NL139	10/10/2011	Baseline	NEL
	9/16/2011	Baseline	NWL
	11/5/2011	Baseline	NWL
NL165	11/2/2011	Baseline	NWL
NL170	10/6/2011	Baseline	NEL
	11/7/2011	Baseline	NWL
NL188	11/1/2011	Baseline	NWL
	10/28/2011	Baseline	NWL
NL191	9/7/2011	Baseline	NWL
NII 202	11/7/2011	Baseline	NWL
NL202	10/28/2011	Baseline	NWL
	11/7/2011	Baseline	NWL
NII 040	11/5/2011	Baseline	NWL
NL210	11/2/2011	Baseline	NWL
	9/7/2011	Baseline	NWL
	11/5/2011	Baseline	NWL
NL214	11/2/2011	Baseline	NWL
	10/28/2011	Baseline	NWL
NL220	10/10/2011	Baseline	NEL
NL224	10/28/2011	Baseline	NWL
NII 000	11/5/2011	Baseline	NWL
NL226	10/17/2011	Baseline	WL
NII 000	11/2/2011	Baseline	NWL
NL230	10/17/2011	Baseline	WL

		10/28/2011	Baseline	NWL
	NL233	10/6/2011	Baseline	NWL
		9/16/2011	Baseline	NWL
		11/7/2011	Baseline	NWL
	NL241	11/2/2011	Baseline	NWL
		9/16/2011	Baseline	NWL
		11/1/2011	Baseline	NEL
	NL244	11/1/2011	Baseline	NWL
		9/5/2011	Baseline	WL
	NL256	11/2/2011	Baseline	NWL
	NII 050	9/16/2011	Baseline	NWL
	NL258	9/5/2011	Baseline	WL
	NL259	11/7/2011	Baseline	NWL
	NL261	11/1/2011	Baseline	NEL
		11/6/2011	Baseline	NEL
	NL264	10/6/2011	Baseline	NEL
		9/23/2011	Baseline	NWL
	NL269	11/2/2011	Baseline	NWL
		11/5/2011	Baseline	NWL
		11/2/2011	Baseline	NWL
	NL272	10/28/2011	Baseline	NWL
		9/16/2011	Baseline	NWL
	NL278	11/2/2011	Baseline	NWL
	NL279	11/2/2011	Baseline	NWL
	SL42	11/2/2011	Baseline	NWL
	SL43	10/28/2011	Baseline	NWL
		11/5/2011	Baseline	NWL
		11/2/2011	Baseline	NWL
	WL04	10/17/2011	Baseline	WL
		10/10/2011	Baseline	NWL
		9/16/2011	Baseline	NWL
	WI 05	11/1/2011	Baseline	NEL
	WL05	11/1/2011	Baseline	NEL
	WL11	11/7/2011	Baseline	NWL
		10/17/2011	Baseline	WL
	WL25	9/23/2011	Baseline	WL
		9/16/2011	Baseline	NWL

	W/L 00	11/2/2011	Baseline	WL
	WL88	9/16/2011	Baseline	NWL
	WL116	9/16/2011	Baseline	NWL
	WL124	11/2/2011	Baseline	NWL
	WL156	10/28/2011	Baseline	NWL
	VVLIDO	9/23/2011	Baseline	WL
	WL162	9/16/2011	Baseline	NWL
	NL275	9/23/2011	Baseline	WL
		11/2/2011	Baseline	WL
	SL48	10/17/2011	Baseline	WL
		9/23/2011	Baseline	WL
	CH109	11/2/2011	Baseline	WL
	CH108	11/2/2011	Baseline	WL
	CH157	11/2/2011	Baseline	WL
	NL206	10/7/2011	Baseline	WL
	WL28	9/23/2011	Baseline	WL
	14/1 40	11/2/2011	Baseline	WL
	WL42	9/5/2011	Baseline	WL
	WL47	10/17/2011	Baseline	WL
	W/ 61	10/17/2011	Baseline	WL
	WL61	9/23/2011	Baseline	WL
	WL66	11/7/2011	Baseline	WL
	WL68	9/5/2011	Baseline	WL

	9/5/2011	Baseline	WL
	11/2/2011	Baseline	WL
WL72	11/2/2011	Baseline	WL
	9/23/2011	Baseline	WL
WL87	9/23/2011	Baseline	WL
	11/2/2011	Baseline	WL
WL88	9/16/2011	Baseline	WL
WL116	9/16/2011	Baseline	WL
WL118	11/2/2011	Baseline	WL
VVL I IO	11/2/2011	Baseline	WL
WL123	11/2/2011	Baseline	WL
WL124	11/2/2011	Baseline	WL
WL128	11/7/2011	Baseline	WL
WL 120	11/2/2011	Baseline	WL
	11/2/2011	Baseline	WL
WL131	11/2/2011	Baseline	WL
	9/23/2011	Baseline	WL
WL132	9/23/2011	Baseline	WL
WL137	11/2/2011	Baseline	WL
WL138	11/2/2011	Baseline	WL
WL144	11/2/2011	Baseline	WL

		0/5/0011	Deseline	14/1
	WL145	9/5/2011	Baseline	WL
	WL146	10/17/2011	Baseline	WL
	WL153	11/7/2011	Baseline	WL
	WL157	9/23/2011	Baseline	WL
	WL158	9/23/2011	Baseline	WL
	WL163	11/7/2011	Baseline	WL
	WEI03	11/2/2011	Baseline	WL
	WL165	10/17/2011	Baseline	WL
	WL167	10/17/2011	Baseline	WL
	WL170	11/7/2011	Baseline	WL
	WL171	10/28/2011	Baseline	WL



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# Appendix L – Event Action Plan

#### Event / Action Plan for Air Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action Level	·			·
Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

Event	Action				
	ET Leader	IEC	ER	Contractor	
Limit Level	·	-			
Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>	

Event	Action			
	ET Leader	IEC	ER	Contractor
Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ul> <li>proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is</li> </ul>

### Event / Action Plan for Construction Noise

Event	Event Action			
	ET Leader	IEC	ER	Contractor
Action Level	<ol> <li>Notify IEC and Contractor;</li> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review the analysed results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC;</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Identify source;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

# Event / Action Plan for Water Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	<ol> <li>Repeat <i>in situ</i> measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, contractor and ER;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Repeat measurement on next day of exceedance to confirm findings.</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor's working methods;</li> <li>Discuss with ET and Contractor on possible remedial actions;</li> <li>Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of non- compliance in writing;</li> <li>Discuss with IEC on the proposed mitigation measures;</li> <li>Make agreement on mitigation measures to be implemented;</li> <li>Ensure mitigation measures are properly implemented.</li> </ol>	<ol> <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 and consider changes of working methods;</li> <li>Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER;</li> <li>Implement the agreed mitigation measures.</li> <li>Amend working methods if appropriate.</li> </ol>

Event	Action			
	ET Leader	IEC	ER	Contractor
Action level being exceeded by two or more consecutiv e sampling days	<ol> <li>Repeat <i>in situ</i> measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor and ER;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Action level;</li> <li>Repeat measurement on next day of exceedance to confirm findings.</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial actions;</li> <li>Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of non- compliance in writing;</li> <li>Discuss with IEC on the proposed mitigation measures;</li> <li>Make agreement on mitigation measures to be implemented;</li> <li>Ensure mitigation measures are properly implemented;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Inform the Engineer and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment and consider changes of working methods;</li> <li>Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification;</li> <li>Implement the agreed mitigation measures;</li> <li>Amend working methods if appropriate.</li> </ol>

Event	Action			
	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	<ol> <li>Repeat <i>in-situ</i> measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor, ER and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level.</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial actions;</li> <li>Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>Request Contractor to critically review the working methods;</li> <li>Ensure mitigation measures are properly implemented;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <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 and consider changes of working methods;</li> <li>Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER;</li> <li>Implement the agreed mitigation measures;</li> <li>Amend working methods if appropriate.</li> </ol>

Event	Event Action			
-	ET Leader	IEC	ER	Contractor
or more consecutive sampling days	<ol> <li>Repeat <i>in-situ</i> measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, contractor, ER and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial actions;</li> <li>Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>Request Contractor to critically review the working methods;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Ensure mitigation measures are properly implemented;</li> <li>Assess the effectiveness of the implemented mitigation measures;</li> <li>Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level.</li> </ol>	<ol> <li>Inform the ER and confirm notification of the non- compliance in writing;</li> <li>Take immediate action to avoid further exceedance;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment and consider changes of working methods;</li> <li>Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER;</li> <li>Implement the agreed mitigation measures;</li> <li>Resubmit proposals of mitigation measures if problem still not under control;</li> <li>As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.</li> </ol>

# Event / Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	ER / SOR	Contractor
Action Level	<ol> <li>Repeat statistical data analysis to confirm findings;</li> <li>Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&amp;A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences;</li> <li>Identify source(s) of impact;</li> <li>Inform the IEC, ER/SOR and Contractor;</li> <li>Check monitoring data.</li> <li>Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor;</li> <li>Discuss monitoring results and finding with the ET and the Contractor.</li> </ol>	<ol> <li>Discuss monitoring with the IEC and any other measures proposed by the ET;</li> <li>If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented.</li> </ol>	<ol> <li>Inform the ER/SOR and confirm notification of the non- compliance in writing;</li> <li>Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR;</li> <li>Implement the agreed measures.</li> </ol>
Limit Level	<ol> <li>Repeat statistical data analysis to confirm findings;</li> <li>Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&amp;A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences;</li> <li>Japatifu asurac(a) of impactive</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor;</li> <li>Discuss monitoring results and findings with the ET and the Contractor;</li> <li>Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitiantian measures</li> </ol>	<ol> <li>Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures.</li> <li>If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and warfield by</li> </ol>	<ol> <li>Inform the ER/SOR and confirm notification of the non- compliance in writing;</li> <li>Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures.</li> <li>Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when</li> </ol>
	<ol> <li>Identify source(s) of impact;</li> <li>Inform the IEC, ER/SOR and Contractor of findings;</li> <li>Check monitoring data;</li> </ol>	mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and	Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures.	mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring

6. Repeat review to ensure all	Contractor and advise	3. Supervise the implementation	and/or any other mitigation
the dolphin protective	ER/SOR of the results and	of additional monitoring and/or	measures.
measures are fully and	findings accordingly.	any other mitigation	
properly implemented and	5. Supervise / Audit the	measures.	
advise on additional measures	implementation of additional		
if necessary.	monitoring and/or any other		
7. If ET proves that the source of	mitigation measures and		
impact is caused by any of the	advise ER/SOR the results		
construction activity by the	and findings accordingly.		
works contract, ET to arrange			
a meeting to discuss with IEC,			
ER/SOR and Contractor the			
necessity of additional dolphin			
monitoring and/or any other			
potential mitigation measures			
(e.g., consider to modify the			
perimeter silt curtain or			
consider to control/temporarily			
stop relevant construction			
activity etc.) and submit to IEC			
a proposal of additional			
dolphin monitoring and/or			
mitigation measures where			
necessary.			



# Monthly Summary Waste Flow Table for <u>August / 2017 (year)</u>

Project : H	long Kong – Z	huhai – Macao	Bridge, Hong	Kong Bound	ary Crossing	g Facilities –	Reclamation V	Vorks			Contract No.:	HY/2010/02
	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Surplus Surcharge exported to Macau	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste (see Note 4)	Others, e.g. general refuse (see Note 3)
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m <sup>3</sup> )
Jan-17	0.0000	0.0000	0.0000	15.6100	73.2375	0.0000	18.8927	0.0000	0.3640	0.0000	0.0000	0.0455
Feb-17	0.0000	0.0000	0.0000	39.0950	182.3675	0.0000	17.5747	0.0000	0.3920	0.0000	0.0000	0.0260
Mar-17	0.0000	0.0000	0.0000	60.6496	171.6925	0.0000	20.6013	0.0000	0.0000	0.0000	0.0000	0.0585
Apr-17	0.0000	0.0000	0.0000	2.4750	55.3140	0.0000	39.9607	0.0000	0.4480	0.0000	0.0000	0.0325
May-17	0.0000	0.0000	0.0000	0.0000	4.5540	0.0000	22.4307	0.0000	0.0000	0.0000	0.0000	0.0455
Jun-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3920	0.0000	0.0000	0.0390
Sub-total	0.0000	0.0000	0.0000	117.8296	487.1655	0.0000	119.4601	0.0000	1.5960	0.0000	0.0000	0.2470
Jul-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3360	0.0000	0.0000	0.0195
Aug-17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3360	0.0000	0.0000	0.0130
Sep-17												
Oct-17												
Nov-17												
Dec-17												
Total	0.0000	0.0000	0.0000	117.8296	487.1655	0.0000	119.4601	0.0000	2.2680	0.0000	0.0000	0.2795

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(1) Broken concrete for recycling into aggregates. Notes:

(2) Plastics refer to plastic bottles / containers / sheets / foam / barrier from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to  $6.5m^3$  by volume.

(4) Chemical waste refer to spent "battery" and "oil with water".

# Appendix N

# Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

# **Cumulative statistics on Exceedances**

		Total no. recorded in this	Total no. recorded since	
		month	project commencement	
1-Hour TSP	Action	-	-	
	Limit	-	-	
24-Hour TSP	Action	-	-	
	Limit	-	-	
Noise	Action	-	-	
	Limit	-	-	
Water Quality	Action	-	2	
	Limit	-	3	
Dolphin Monitoring	Action	-	-	
	Limit	-	-	

Remarks: Exceedances which are not project-related are not presented in this table.

# Cumulative statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. received in this month	Total no. received since project commencement
Environmental complaints	-	-	-	-	46
Notification of summons	-	-	-	-	2
Successful Prosecutions	-	-	-	-	2