MOTT MACDONALD

Expansion of Hong Kong International Airport into a Three-Runway System

Construction Phase Monthly EM&A Report No.14 (For February 2017)

March 2017

Airport Authority Hong Kong

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This Monthly EM&A Report No. 14 has been reviewed and certified by the Environmental Team Leader (ETL) in accordance with Condition 3.5 of Environmental Permit No. EP-489/2014.

Certified by: 

Terence Kong
Environmental Team Leader (ETL)
Mott MacDonald Hong Kong Limited

Date 14 March 2017

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By Email

Airport Authority Hong Kong
HKIA Tower, 1 Sky Plaza Road
Hong Kong International Airport
Lantau, Hong Kong

Attn: Mr. Lawrence Tsui, Senior Manager

14 March 2017

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No.14 (February 2017)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No.14 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 March 2017.

We would like to inform you that we have no adverse comment on the captioned submission. Therefore we write to verify the captioned submission in accordance with the requirement stipulated in Condition 3.5 of EP-489/2014.

Should you have any query, please feel free to contact our Roy Man at 3922 9365 or the undersigned at 3922 9376.

Yours faithfully,
AECOM Asia Co. Ltd.

Jackel Law
Independent Environmental Checker

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Executive Summary

The "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) serves to meet the future air traffic demands at Hong Kong International Airport (HKIA). On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual.

This is the 14th Construction Phase Monthly EM&A Report for the Project which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 28 February 2017.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included five deep cement mixing (DCM) contracts, an advanced works contract and a reclamation contract. The DCM contracts involved DCM works and trials, site office establishment, laying of geotextile and sand blanket; the advanced works contract involved horizontal directional drilling (HDD) works and pipeline supporting works; and the reclamation contract involved site office establishment and laying of geotextile.

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual of the Project. During the reporting period, the ET conducted 30 sets of construction dust measurements, 21 sets of construction noise measurements, 12 events of water quality measurements, one round of terrestrial ecology monitoring on Sheung Sha Chau Island, two complete sets of small vessel line-transect surveys and five days of land-based theodolite tracking survey effort for Chinese White Dolphin (CWD) monitoring and waste monitoring.

Weekly site inspections of the construction works were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the Independent Environmental Checker (IEC). Observations have been recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

On the implementation of Marine Mammal Watching Plan (MMWP), silt curtains were in place by the contractors for sand blanket laying works and dolphin observers were deployed in accordance with the Plan. On the implementation of Dolphin Exclusion Zone (DEZ) Plan, dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for DCM works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains, whilst there was one record of dolphin

sighting within the DEZ of DCM works in this reporting month. Audits of acoustic decoupling for construction vessels were also carried out by the ET.

On the implementation of the Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan), the daily movements of all SkyPier High Speed Ferries (HSFs) in February 2017 were in the range of 89 to 93 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 783 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the Speed Control Zone (SCZ) with average speeds under 15 knots (6.4 to 14.1 knots), which were in compliance with the SkyPier Plan. One ferry movements with minor deviation from the diverted route is under investigation by ET. The investigation result will be presented in the next monthly EM&A report. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

On the implementation of the Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV), ET conducted weekly audit of relevant information, including Automatic Identification System (AIS) data, vessel tracks and other relevant records to ensure the contractors complied with the requirements of the MTRMP-CAV. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. 3-month rolling programmes for construction vessel activities were also received from contractors. ET reminded contractors that all vessels shall avoid entering the Brothers Marine Park, which has been designated since 30 December 2016.

Results of Impact Monitoring

The monitoring works for construction dust, construction noise, water quality, construction waste, terrestrial ecology, CWD and were conducted during the reporting period in accordance with the Updated EM&A Manual.

No exceedance of the Action or Limit Levels in relation to the construction dust, construction noise, construction waste and CWD monitoring was recorded in the reporting month.

The water quality monitoring results for DO, total alkalinity, chromium, and nickel obtained during the reporting period were in compliance with their corresponding Action and/or Limit Levels. For turbidity and SS, some of the testing results exceeded the relevant Action or Limit Levels. Investigations were carried out immediately for each of the exceedance cases. The investigation findings concluded that the exceedances were not due to the Project.

The monthly terrestrial ecology monitoring on Sheung Sha Chau observed that HDD works were conducted at the daylighting location and there was no encroachment upon the egretry area nor any significant disturbance to the egrets foraging at Sheung Sha Chau by the works.

Summary of Upcoming Key Issues

Key activities anticipated in the next reporting period for the Project will include the following:

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- HDD works;
- Pipeline supporting works; and
- Stockpiling of excavated materials from HDD operation.

DCM Works:

Contract 3201 to 3205 DCM Works

- Laying of geotextile and sand blanket;
- Site office establishment; and
- DCM works and trials.

Reclamation Works:

Contract 3206 Main Reclamation Works

- Site office establishment; and
- Laying of geotextile and sand blanket.

The key environmental issues will be associated with construction dust, construction noise, water quality, construction waste management, CWD and terrestrial ecology on Sheung Sha Chau. The implementation of required mitigation measures by the contractor will be monitored by the ET.

Ecological Monitoring

Toolbox Talk Training to Site Staff by Contractor

DEZ Monitoring for DCM Works by Contractor

Summary Table

The following table summarizes the key findings of the EM&A programme during the reporting period from 1 to 28 February 2017:

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Exceedance of Limit Level^		✓	No exceedance of project-related limit level was recorded.	Nil
Exceedance of Action Level^		✓	No exceedance of project-related action level was recorded.	Nil
Complaints Received		✓	No construction activities related complaints were received.	Nil
Notification of any summons and status of prosecutions		✓	No notifications of summons or prosecution were received.	Nil
Changes that affect the EM&A		✓	There were no changes to the construction works that may affect the EM&A	Nil

Remarks: ^ only exceedance of action/ limit level related to Project works will be highlighted.

1 Introduction

1.1 Background

On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual) submitted under EP Condition 3.1. The Manual is available on the Project's dedicated website (accessible at: http://env.threerunwaysystem.com/en/index.html). AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

The Project covers the expansion of the existing airport into a three-runway system (3RS) with key project components comprising land formation of about 650 ha and all associated facilities and infrastructure including taxiways, aprons, aircraft stands, a passenger concourse, an expanded Terminal 2, all related airside and landside works and associated ancillary and supporting facilities. The existing submarine aviation fuel pipelines and submarine power cables also require diversion as part of the works.

Construction of the Project is to proceed in the general order of diversion of the submarine aviation fuel pipelines, diversion of the submarine power cables, land formation, and construction of infrastructure, followed by construction of superstructures.

The updated overall phasing programme of all construction works was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 7 and the contract information was presented in Appendix A of the Construction Phase Monthly EM&A Report No.10.

1.2 Scope of this Report

This is the 14th Construction Phase Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 to 28 February 2017.

1.3 Project Organisation

The Project's organization structure presented in Appendix B of the Construction Phase Monthly EM&A Report No.1 remained unchanged during the reporting month. Contact details of the key personnel have been updated and is presented in **Table 1.1**.

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environment	Lawrence Tsui	2183 2734

Party	Position	Name	Telephone
Environmental Team (ET) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919
	Deputy Environmental Team Leader	Heidi Yu	2828 5704
	Deputy Environmental Team Leader	Keith Chau	2972 1721
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Joanne Tsoi	3922 9423
Advanced Works:			
Contract P560(R) Aviation Fuel Pipeline Diversion Works (Langfang Huayuan Mechanical and Electrical Engineering Co., Ltd.)	Project Manager	Wei Shih	2117 0566
	Environmental Officer	Lyn Lau	5172 6543
DCM Works:			
Contract 3201 DCM (Package 1) (Penta-Ocean-China State-Dong-Ah Joint Venture)	Project Director	Tsugunari Suzuki	9178 9689
	Environmental Officer	Kanny Cho	9019 1962
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Ilkwon Nam	9643 3117
	Environmental Officer	Dickson Mak	9525 8408
Contract 3203 DCM (Package 3) (Sambo E&C Co.,Ltd)	Project Manager	Seong Jae Park	9683 8693
	Environmental Officer	Calvin Leung	9203 5820
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Kyung-Sik Yoo	9683 8697
	Environmental Officer	David Man	6421 3238
Contract 3205 DCM (Package 5) (Bachy Soletanche - Sambo Joint Venture)	Deputy Project Director	Min Park	9683 0765
	Environmental Officer	Margaret Chung	9130 3696

Party	Position	Name	Telephone
Reclamation Works:			
Contract 3206 (ZHEC-CCCC-CDC Joint Venture)	Project Manager	Kim Chuan Lim	3693 2288
	Environmental Officer	Kwai Fung Wong	3693 2252

1.4 Summary of Construction Works

The key activities of the Project carried out in the reported period included five DCM contracts, an advanced works contract and a reclamation contract. The DCM contracts involved DCM works and trials, site office establishment, laying of geotextile and sand blanket; the advanced works contract involved HDD works and pipeline supporting works; and the reclamation contract involved site office establishment and laying of geotextile.

The active construction site is around 3 km and 900m away from the nearest air and noise sensitive receivers in Tung Chung and the villages in North Lantau. The locations of the works areas are presented in **Figure 1.1** to **Figure 1.2.**

1.5 Summary of EM&A Programme Requirements

The status for all environmental aspects is presented **Table 1.2**. The EM&A requirements remained unchanged during the reporting period and details can be referred to Table 1.2 of the Construction Phase Monthly EM&A Report No. 1.

Table 1.2: Summary of status for all environmental aspects under the Updated EM&A Manual

Parameters	Status
Air Quality	
Baseline Monitoring	The baseline air quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Water Quality	
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	The baseline water quality monitoring result has been reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	On-going
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	To be commenced according to the detailed plan on DCM.
Early/ Regular DCM Water Quality Monitoring	On-going
Waste Management	
Waste Monitoring	On-going
Land Contamination	
Supplementary Contamination Assessment Plan (CAP)	To be submitted with the relevant construction works.

Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD.
Terrestrial Ecology	
Pre-construction Egretry Survey Plan	The revised Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	On-going
Marine Ecology	
Pre-Construction Phase Coral Dive Survey	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	The coral translocation was completed.
Post-Translocation Coral Monitoring	On-going
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite Track and Passive Acoustic Monitoring (PAM)	
Baseline Monitoring	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	On-going
Landscape & Visual	
Baseline Monitoring	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Environmental Auditing	
Regular site inspection	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	On-going
Dolphin Exclusion Zone Plan (DEZP) implementation measures	On-going
SkyPier High Speed Ferries (HSF) implementation measures	On-going
Construction and Associated Vessels Implementation measures	On-going
Complaint Hotline and Email channel	On-going
Environmental Log Book	On-going

Taking into account the construction works in this reporting month, impact monitoring of air quality, noise, water quality, waste management, ecologyand CWD were carried out in the reporting month.

The EM&A programme also involved weekly site inspections and related auditings conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report. In order to enhance environmental awareness and closely monitor the environmental performance of the contractors, environmental briefings and regular environmental management meetings were conducted.

The EM&A programme has been following the recommendations presented in the approved EIA Report and the Updated EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix A**.

2 Air Quality Monitoring

2.1 Monitoring Stations

Air quality monitoring was conducted at two representative monitoring stations in the vicinity of air sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Updated EM&A Manual. **Table 2.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

Table 2.1: Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location
AR1A	Man Tung Road Park
AR2	Village House at Tin Sum

2.2 Monitoring Requirements and Schedule

In accordance with the Updated EM&A Manual, baseline 1-hour total suspended particulate (TSP) levels at the two air quality monitoring stations were established as presented in the Baseline Monitoring Report. Impact 1-hour TSP monitoring was conducted for three times every 6 days. The Action and Limit Levels of the air quality monitoring are provided in **Table 2.2**.

The air quality monitoring schedule involved in the reporting period is provided in **Appendix B**.

Table 2.2: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (μg/m^3)	Limit Level (μg/m^3)
AR1A	306	500
AR2	298	

2.3 Monitoring Equipment

Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. Details of equipment are given in **Table 2.3**.

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-002 (Serial No. 974350)	26 Oct 2016

2.4 Monitoring Methodology

2.4.1 Measuring Procedure

The measurement procedures involved in the impact 1-hr TSP monitoring can be summarised as follows:

a. The portable direct reading dust meter was mounted on a tripod at a height of 1.2 m above the ground.

b. Prior to the measurement, the equipment was set up for 1 minute span check and 6 second background check.
c. The one hour dust measurement was started. Site conditions and dust sources at the nearby area were recorded on a record sheet.
d. When the measurement completed, the “Count” reading per hour was recorded for result calculation.

2.4.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration certificates of the portable direct reading dust meter and calibration record of the HVS provided in Appendix B of the Construction Phase Monthly EM&A Report No.11 are still valid. Any updates of calibration certificates will be reported in the Monthly EM&A report if necessary.

2.5 Analysis and Interpretation of Monitoring Results

The monitoring results for 1-hour TSP are summarized in **Table 2.4**. Detailed impact monitoring results are presented in **Appendix C**.

Table 2.4: Summary of 1-hour TSP Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (µg/m^3)	Action Level (µg/m^3)	Limit Level (µg/m^3)
AR1A	40 - 181	306	500
AR2	25 - 171	298	

No exceedance of the Action / Limit Level was recorded at all monitoring stations in the reporting period.

General meteorological conditions throughout the impact monitoring period were recorded. Wind data for each monitoring day including wind speed and wind direction was collected from the Chek Lap Kok Wind Station.

3 Noise Monitoring

3.1 Monitoring Stations

Noise monitoring was conducted at five representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Updated EM&A Manual. **Figure 2.1** shows the locations of the monitoring stations and these are described in **Table 3.1** below. As described in Section 4.3.3 of the Updated EM&A Manual, monitoring at NM2 will commence when the future residential buildings in Tung Chung West Development become occupied.

Table 3.1: Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Type of measurement
NM1A	Man Tung Road Park	Free field
NM2(1)	Tung Chung West Development	To be determined
NM3A	Site Office	Facade
NM4	Ching Chung Hau Po Woon Primary School	Free field
NM5	Village House in Tin Sum	Free field
NM6	House No. 1, Sha Lo Wan	Free field

Note: (1) As described in Section 4.3.3 of the Updated EM&A Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.

3.2 Monitoring Requirements and Schedule

In accordance with the Updated EM&A Manual, baseline noise levels at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring was conducted once per week in the form of 30-minute measurements of L_{eq}, L_{10} and L_{90} levels recorded at each monitoring station between 0700 and 1900 on normal weekdays. The Action and Limit levels of the noise monitoring are provided in **Table 3.2**. The construction noise monitoring schedule involved in the reporting period is provided in **Appendix B**.

Table 3.2: Action and Limit Levels for Construction Noise

Monitoring Stations	Time Period	Action Level	Limit Level, $L_{eq(30mins)}$ dB(A)
NM1A, NM2, NM3A, NM4, NM5 and NM6	0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)(i)

Note: (i) reduce to 70dB(A) for school and 65dB(A) during school examination periods.

3.3 Monitoring Equipment

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 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was used to check the sound level meters by a known sound pressure level for field measurement. Details of equipment are given in **Table 3.3**.

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date
Integrated Sound Level Meter	B&K 2238 (Serial No. 2800932)	19 Jul 2016
	B&K 2238 (Serial No. 2381580)	8 Sep 2016
Acoustic Calibrator	B&K 4231 (Serial No. 3003246)	16 May 2016
	B&K 4231 (Serial No. 3004068)	19 Jul 2016

3.4 Monitoring Methodology

3.4.1 Monitoring Procedure

The monitoring procedures involved in the noise impact monitoring can be summarised as follows:

a. The sound level meter was set on a tripod at least a height of 1.2 m above the ground for free-field measurements at monitoring stations NM1A, NM4, NM5 and NM6. A correction of +3 dB(A) was applied to the free field measurements.
b. Façade measurements were made at the monitoring station NM3A.
c. Parameters such as frequency weighting, time weighting and measurement time were set.
d. Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator. 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.
e. During the monitoring period, L_{eq}, L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a record sheet.
f. Noise measurement results were corrected with reference to the baseline monitoring levels.
g. Observations were recorded when high intrusive noise (e.g. dog barking, helicopter noise) was observed during the monitoring.

3.4.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

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 laboratory accredited under Hong Kong Laboratory Accreditation Scheme (HOKLAS) to check and calibrate at yearly intervals.

Calibration certificates of the sound level meters and acoustic calibrators used in the noise monitoring provided in Appendix B of the Construction Phase Monthly EM&A Report No.8 & 9 are still valid. Any updates of calibration certificates will be reported in the Monthly EM&A report if necessary.

3.5 Analysis and Interpretation of Monitoring Results

The construction noise monitoring results are summarized in **Table 3.4** and the detailed monitoring data are provided in **Appendix C**.

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A) $L_{eq\ (30\ mins)}$	Limit Level, dB(A) $L_{eq\ (30\ mins)}$
NM1A[(i)]	71 - 72	75
NM3A	57 - 62	75
NM4[(i)]	60 - 64	70[(ii)]
NM5[(i)]	56 - 58	75
NM6[(i)]	62 - 71	75

Note: (i) +3 dB(A) Façade correction included;
(ii) Reduced to 65 dB(A) during school examination periods.

As the construction activities were far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were aircraft noise at NM3A and NM5, aircraft noise and helicopter noise at NM6, road traffic noise at NM1A and school activities at NM4 in this reporting month.

No exceedance of the Action/ Limit Level was recorded at all monitoring stations in the reporting period.

4 Water Quality Monitoring

4.1 Monitoring Stations

Water quality monitoring was conducted at a total of 22 water quality monitoring stations, comprising 12 impact stations, seven sensitive receiver stations and three control stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Updated EM&A Manual. **Table 4.1** describes the details of the monitoring stations**. Figure 3.1** shows the locations of the monitoring stations.

Table 4.1: Monitoring Locations and Parameters for Impact Water Quality Monitoring

Monitoring Stations	Description	Coordinates		Parameters
		Easting	Northing	
C1	Control	804247	815620	DO, pH, Temperature, Salinity, Turbidity, SS, Total Alkalinity, Heavy Metals[2]
C2	Control	806945	825682	
C3[3]	Control	817803	822109	
IM1	Impact	806458	818351	
IM2	Impact	806193	818852	
IM3	Impact	806019	819411	
IM4	Impact	805039	819570	
IM5	Impact	804924	820564	
IM6	Impact	805828	821060	
IM7	Impact	806835	821349	
IM8	Impact	807838	821695	
IM9	Impact	808811	822094	
IM10	Impact	809838	822240	
IM11	Impact	810545	821501	
IM12	Impact	811519	821162	
SR1[1]	Future Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812586	820069	DO, pH, Temperature, Salinity, Turbidity, SS
SR2[3]	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	
SR4A	Sha Lo Wan	807810	817189	
SR5A	San Tau Beach SSSI	810696	816593	
SR6	Tai Ho Bay, Near Tai Ho Stream SSSI	814663	817899	
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	823636	
SR8	Seawater Intake for cooling at Hong Kong International Airport (East)	811593	820417	

Notes:
[1] The seawater intakes of SR1 for the future HKBCF is not yet in operation, hence no water quality impact monitoring was conducted at this station. The future permanent location for SR1 during impact monitoring is subject to finalisation after the HKBCF seawater is commissioned.

(2) Details of selection criteria for the two heavy metals for early regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website http://env.threerunwaysystem.com/en/ep-submissions.html). DCM specific water quality monitoring parameters (total alkalinity and heavy metals) were only conducted at C1 to C3, SR2, and IM1 to IM12 .

(3) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference has been changed from C3 to SR2 from 1 September 2016 onwards.

4.2 Monitoring Requirements and Schedule

In accordance with the Updated EM&A Manual, baseline water quality levels at the abovementioned representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report.

General water quality monitoring and early regular DCM water quality monitoring were conducted three days per week, at mid-flood and mid-ebb tides, at the 22 water quality monitoring stations during the reporting period. The sea conditions varied from calm to rough, and the weather conditions varied from sunny to rainy during the monitoring period.

The water quality monitoring schedule for the reporting period is provided in **Appendix B**.

4.2.1 Action and Limit Levels for Water Quality Monitoring

The Action and Limit Levels for general water quality monitoring and regular DCM monitoring are presented in **Table 4.2**. The control and impact stations during flood tide and ebb tide for general water quality monitoring and regular DCM monitoring are presented in **Table 4.3**.

Table 4.2: Action and Limit Levels for General Water Quality Monitoring and Regular DCM Monitoring

Parameters	Action Level (AL)		Limit Level (LL)	
Action and Limit Levels for general water quality monitoring and regular DCM monitoring (excluding SR1& SR8)				
DO in mg/L (Surface, Middle & Bottom)	Surface and Middle 4.5 mg/L		Surface and Middle 4.1 mg/L 5 mg/L for Fish Culture Zone (SR7) only	
	Bottom 3.4 mg/L		Bottom 2.7 mg/L	
Suspended Solids (SS) in mg/L	23	or 120% of upstream control station at the same tide of the same day, whichever is higher	37	or 130% of upstream control station at the same tide of the same day, whichever is higher
Turbidity in NTU	22.6		36.1	
Total Alkalinity in ppm	95		99	
Representative Heavy Metals for early regular DCM monitoring (Chromium)	0.2		0.2	
Representative Heavy Metals for early regular DCM monitoring (Nickel)	3.2		3.6	
Action and Limit Levels SR1				
SS (mg/l)	To be determined prior to its commissioning		To be determined prior to its commissioning	
Action and Limit Levels SR8				
SS (mg/l)	52		60	

Notes:

(1) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.

(2)For parameters other than DO, non-compliance of water quality results when monitoring results is higher than the limits.

(3)Depth-averaged results are used unless specified otherwise.

(4)Details of selection criteria for the two heavy metals for early regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website http://env.threerunwaysystem.com/en/ep-submissions.html)

(5)The action and limit levels for the two representative heavy metals chosen will be the same as that for the intensive DCM monitoring.

Table 4.3: The Control and Impact Stations during Flood Tide and Ebb Tide for General Water Quality Monitoring and Regular DCM Monitoring

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, SR3
SR2^1	IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR3, SR4A, SR5A, SR6, SR8
Ebb Tide	
C1	SR4A, SR5A, SR6
C2	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR2, SR3, SR7, SR8

^1 As per findings of Baseline Water Quality Monitoring Report, the control reference has been changed from C3 to SR2 from 1 Sep 2016 onwards.

4.3 Monitoring Equipment

Table 4.4 summarises the equipment used for monitoring of specific water quality parameters under the impact water quality monitoring programme.

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI 6920 V2 (serial no. 11F100014)	4 Jan 2017
	YSI 6920 V2 (serial no. 16G104518)	4 Jan 2017
	YSI 6920 V2 (serial no. 0001C6A7)	4 Jan 2017
	YSI 6920 (serial no. 000109DF)	4 Jan 2017
Digital Titrator (measurement of total alkalinity)	Titrette Digital Burette 50ml Class A (serial no.10N65665)	5 Jan 2017

Other equipment used as part of the impact water quality monitoring programme are listed in **Table 4.5**

Table 4.5: Other Monitoring Equipment

Equipment	Brand and Model
Water Sampler	Van Dorn Water Sampler
Positioning Device (measurement of GPS)	Garmin eTrex Vista HCx
Current Meter (measurement of current speed and direction, and water depth)	Sontek HydroSurveyor

4.4 Monitoring Methodology

4.4.1 Measuring Procedure

Water quality monitoring samples were taken at three depths (at 1m below surface, at mid-depth, and at 1m above bottom) for locations with water depth >6m. For locations with water depth between 3m and 6m, water samples were taken at two depths (surface and bottom). For locations with water depth <3m, only the mid-depth was taken. Duplicate water samples were taken and analysed.

The water samples for all monitoring parameters were collected, stored, preserved and analysed according to the Standard Methods, APHA 22nd ed. and/or other methods as agreed by the EPD. In-situ measurements at monitoring locations including temperature, pH, DO, turbidity, salinity and water depth were collected by equipment listed in **Table 4.4** and **Table 4.5**. Water samples for heavy metals and SS analysis were stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4 ºC without being frozen), delivered to the laboratory within 24 hours of collection.

4.4.2 Maintenance and Calibration

Calibration of In-situ Instruments

All in-situ monitoring instrument were checked, calibrated and certified by a laboratory accredited under HOKLAS before use. Responses of sensors and electrodes were checked with certified standard solutions before each use.

Wet bulb calibration for a DO meter was carried out before commencement of monitoring and after completion of all measurements each day. Calibration was not conducted at each monitoring location as daily calibration is adequate for the type of DO meter employed. A zero check in distilled water was performed with the turbidity probe at least once per monitoring day. The probe was then calibrated with a solution of known NTU. In addition, the turbidity probe was calibrated at least twice per month to establish the relationship between turbidity readings (in NTU) and levels of suspended solids (in mg/L). Accuracy check of the digital titrator was performed at least once per monitoring day.

Calibration certificates of the monitoring equipment used in the monitoring provided in Appendix B of the Construction Phase Monthly EM&A Report No.13 are still valid. Any updates of calibration certificates will be reported in the Monthly EM&A report if necessary.

4.4.3 Laboratory Measurement / Analysis

Analysis of SS and heavy metals have been carried out by a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066). Sufficient water samples were collected at all the monitoring stations for carrying out the laboratory SS and heavy metals determination. The SS and heavy metals determination works were started within 24 hours after collection of the water samples. The analysis of SS and heavy metals have followed the standard methods summarised in **Table 4.6.** The QA/QC procedures for laboratory measurement/ analysis of SS and heavy metals were presented in Appendix F of the Construction Phase Monthly EM&A Report No.8.

Table 4.6: Laboratory Measurement/ Analysis of SS and Heavy Metals

Parameters	Instrumentation	Analytical Method	Reporting Limit
Suspended Solid (SS)	Analytical Balance	APHA 2540D	2 mg/L
Heavy Metals			
Chromium (Cr)	ICP-MS	USEPA 6020A	0.2 µg/L
Nickel (Ni)	ICP-MS	USEPA 6020A	0.2 µg/L

4.5 Analysis and Interpretation of Monitoring Results

4.5.1 Summary of Monitoring Results

The water quality monitoring results for DO, total alkalinity, chromium, and nickel obtained during the reporting period were in compliance with their corresponding Action and Limit Levels. For turbidity and SS, some of the testing results exceeded the relevant Action or Limit Levels. Details of the exceedances are presented in **Section 4.5.2**.

All the water quality monitoring results and graphical presentations are provided in **Appendix C**.

4.5.2 Summary of Findings for Investigation of Exceedances

During the reporting month, water quality monitoring was conducted at 12 impact stations (IM), seven sensitive receiver (SR) stations and three control stations in accordance with the Updated EM&A Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impacts from the Project before the impacts could become apparent at sensitive receivers (represented by the SR stations).

During the monitoring period in February 2017, testing results exceeding the corresponding Action or Limit Levels were recorded on five monitoring days. Details of the exceedance cases are presented below.

Findings for Turbidity Exceedances (Mid-Ebb Tide)

Table 4.7 presents a summary of the turbidity compliance status at IM and SR stations during mid-ebb tide for the reporting month.

Table 4.7: Summary of Turbidity Compliance Status at IM and SR Stations (Mid-Ebb Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
02/02/2017																			
04/02/2017																			
07/02/2017																			
09/02/2017																			
11/02/2017																			
14/02/2017																			
16/02/2017																			
18/02/2017																			
21/02/2017																			
24/02/2017																			
26/02/2017																			
28/02/2017																			
No. of Turbidity Exceedances	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0

Note: Detailed results are presented in **Appendix C**.
Legend:

No exceedance of Action Level and Limit Level
Exceedance of Action Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
Exceedance of Action Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
Exceedance of Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
Exceedance of Limit Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
Upstream station with respect to 3RS Project during the respective tide based on dominant tidal flow

IM Stations

As shown in **Table 4.7**, exceedances of Action or Limit Level at IM stations were recorded on 14 February 2017. All of the exceedances occurred at monitoring stations which were located upstream of the 3RS Project during ebb tide, hence would unlikely be affected by the Project. Nevertheless as a prudent measure, the Project's activities on this monitoring day were investigated and it was confirmed that silt curtains were deployed and maintained properly and no silt plumes were observed.

SR Stations

For SR stations, exceedance was recorded at SR3 on 2 February 2017. However, SR3 was located upstream of the project during ebb tide, and there were no turbidity exceedances at any IM stations on that day, hence the exceedance at SR3 was unlikely to be due to the Project. The single exceedance at SR3 might be due to natural fluctuation.

Findings for Turbidity Exceedances (Mid-Flood Tide)

Table 4.8 presents a summary of the turbidity compliance status at IM and SR stations during mid-flood tide for the reporting month.

Table 4.8: Summary of Turbidity Compliance Status at IM and SR Stations (Mid-Flood Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
02/02/2017																			
04/02/2017																			
07/02/2017																			
09/02/2017																			
11/02/2017																			
14/02/2017																			
16/02/2017																			
18/02/2017																			
21/02/2017																			
24/02/2017																			
26/02/2017																			
28/02/2017																			
No. of Turbidity Exceedances	0	0	0	1	2	0	1	0	0	1	0	0	0	0	0	0	1	0	0

Note: Detailed results are presented in **Appendix C**.
Legend:

No exceedance of Action Level and Limit Level
Exceedance of Action Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow

Exceedance of Action Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow

Exceedance of Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow

Exceedance of Limit Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow

Upstream station with respect to 3RS Project during the respective tide based on dominant tidal flow

IM Stations

As shown in **Table 4.8**, exceedances of Action or Limit Level at IM stations were recorded on 2, 11 and 14 February 2017. Repeat turbidity measurement was conducted at IM4 and IM5 on 3 February 2017; IM5 and IM7 on 12 February 2017 as well as IM10 on 15 February 2017 during flood tide in accordance with the Event and Action Plan of the Updated EM&A Manual. The exceedance recorded at IM4 on 2 February 2017 was located upstream of the 3RS Project during flood tide. As such upstream station would unlikely be affected by the Project, the investigation focused on the exceedances at IM stations located downstream of the Project and hence might be affected by the Project's construction activities.

As part of the investigation on the downstream exceedance events, details of the Project's marine construction activities on these monitoring days were collected, as well as any observations during the monitoring. The findings are summarised in **Table 4.9**.

Table 4.9: Summary of Findings from Investigations of Turbidity Exceedances during Mid-Flood Tide

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Exceedance due to Project
02/02/2017	DCM works	Around 2km	Silt curtain deployed	No	No	No
11/02/2017	DCM works	Around 1km	Silt curtain deployed	No	No	No
14/02/2017	DCM works	Around 1.5km	Silt curtain deployed	No	Yes	No

Note:
*This refers to the approximate distance between the DCM works and the nearest monitoring stations with exceedance

According to the investigation findings summarized in **Table 4.9**, it was confirmed that silt curtains were deployed for DCM works as additional measures and the silt curtains were maintained properly. Separately, the marine waters covering a wide area including C1, IM1 to IM7, IM10, and IM11 on 14 February 2017 was observed to be generally turbid during flood tide monitoring. As this was observed at both upstream and downstream stations, this suggests that the turbidity at IM10 might be the effect of natural fluctuation. No exceedance was recorded during the repeat turbidity measurements.

For the exceedance at IM5 on 2 February 2017, high level of turbidity was also recorded at nearby upstream station (IM4) on the same monitoring period. Given that IM4 is located upstream of the Project during flood tide, and high turbidity levels was recorded at IM4 (which would unlikely be affected by the Project), the exceedance at IM5 was possibly due to natural fluctuation in this area. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM6 and IM7, which were closer to the active DCM works during the same monitoring period. Based on these findings, this exceedance was considered not due to the Project.

For the exceedances at IM5 and IM7 on 11 February 2017, it is noted from **Table 4.8** that the exceedances appeared to be isolated cases with no temporal trend and no clear spatial trend to

indicate turbidity rising due to Project activities. The investigation results shown in **Table 4.9** also found that no construction vessel, DCM work, nor silt plume was observed in the vicinity of IM5 and IM7 on 11 February 2017. It is also noted that no exceedance was recorded at monitoring station IM6, which is located between IM5 and IM7 and is similarly downstream of the active DCM works on 11 February 2017 during flood tide, while no exceedances were identified in the repeat turbidity measurements. Based on the above, the exceedances were considered not due to the Project, and were possibly due to natural fluctuation in vicinity of IM5 and IM7.

For the exceedance at IM10 on 14 February 2017, in addition to the investigation summary presented in **Table 4.9**, it is noted from **Table 4.8** that the exceedance at IM10 on 14 February 2017 appeared to be a single isolated case that day with neither temporal nor spatial trend to indicate any effect caused by Project activities. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM7 to IM9, which were located closer to the active DCM works during flood tide. Based on these findings, the exceedance was considered not due to the Project.

SR Stations

At SR stations, an exceedance was observed at SR6 on 16 February 2017. However, SR6 was located upstream of the project during flood tide, and there were no turbidity exceedances at any IM stations on that day, hence the exceedance at SR6 was unlikely to be due to the Project. The single exceedance at SR6 might be due to natural fluctuation.

Findings for SS Exceedances (Mid-Ebb Tide)

Table 4.10 presents a summary of the SS compliance status at IM and SR stations during mid-ebb tide for the reporting month.

Table 4.10: Summary of SS Compliance Status at IM and SR Stations (Mid-Ebb Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
02/02/2017																			
04/02/2017																			
07/02/2017																			
09/02/2017																			
11/02/2017																			
14/02/2017																			
16/02/2017																			
18/02/2017																			
21/02/2017																			
24/02/2017																			
26/02/2017																			
No. of Turbidity Exceedances	0	0	0	0	0	1	2	1	1	0	0	0	0	0	1	0	0	0	0

Note: Detailed results are presented in **Appendix C**.

Legend:

- No exceedance of Action Level and Limit Level
- Exceedance of Action Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
- Exceedance of Action Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
- Upstream station with respect to 3RS Project during the respective tide based on dominant tidal flow

IM Stations

As shown in **Table 4.10**, exceedances of Action Levels at IM stations were recorded on three monitoring days. However, all of the exceedances occurred at monitoring stations which were located upstream of the 3RS Project during ebb tide and would unlikely be affected by the Project. Nevertheless as a prudent measure, the Project's activities on these monitoring days were investigated and it was confirmed that silt curtains were deployed and maintained properly.

SR Stations

At SR stations, an exceedance was observed at SR4A. It is noted from **Table 4.10** that the exceedance at SR4A on 14 February 2017 appeared to be isolated case with neither temporal nor spatial trend to indicate SS release due to Project activities. The investigation also found that no construction vessel, DCM work, nor silt plume was observed in the vicinity of SR4A. Considering no exceedance was recorded at downstream monitoring stations IM1 to IM3, which were closer to the active DCM works on 14 February 2017 during ebb tide, the exceedance was possibly due to natural fluctuation in vicinity of SR4A. Based on these findings, the exceedance was considered not due to the Project.

Findings for SS Exceedances (Mid-Flood Tide)

Table 4.11 presents a summary of the SS compliance status at IM and SR stations during mid-flood tide for the reporting month.

Table 4.11: Summary of SS Compliance Status at IM and SR Stations (Mid-Flood Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
02/02/2017																			
04/02/2017																			
07/02/2017																			
09/02/2017																			
11/02/2017																			
14/02/2017																			
16/02/2017																			
18/02/2017																			
21/02/2017																			
24/02/2017																			
26/02/2017																			
No. of Turbidity Exceedances	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	2	0	0

Note: Detailed results are presented in **Appendix C**.

Legend:

- No exceedance of Action Level and Limit Level
- Exceedance of Action Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
- Exceedance of Action Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
- Exceedance of Limit Level recorded at monitoring station located downstream of the 3RS Project based on dominant tidal flow
- Exceedance of Limit Level recorded at monitoring station located upstream of the 3RS Project based on dominant tidal flow
- Upstream station with respect to 3RS Project during the respective tide based on dominant tidal flow

IM Stations

As shown in **Table 4.11**, exceedances of Action or Limit Level at IM stations were recorded on two monitoring days. Some exceedances occurred at monitoring stations which were located upstream of the 3RS Project during flood tide. As such upstream stations would unlikely be affected by the Project, the investigation focused on the exceedances at IM stations located downstream of the Project and hence might be affected by the Project's construction activities.

As part of the investigation on the downstream exceedance events, details of the Project's marine construction activities on these monitoring days were collected, as well as any observations during the monitoring. According to the investigation findings summarized in **Table 4.9**, it was confirmed that silt curtains were deployed for DCM works as additional measures and the silt curtains were maintained properly. Separately, the marine waters covering a wide area including C1, IM1 to IM7, IM10 and IM11 on 14 February 2017 was observed to be generally turbid during flood tide monitoring. As this was observed at both upstream and downstream stations, this suggests that the elevated SS at IM10 might be the effect of natural fluctuation.

For the exceedance at IM5 on 2 February 2017, it was found that IM3 and IM4 were located upstream of the Project during flood tide, and high SS levels were apparent at these locations (which would unlikely be affected by the Project), the exceedance at IM5 was possibly due to natural fluctuation in this area. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM6 and IM7, which were closer to active DCM works during the same monitoring period. Based on these findings, the exceedance was considered not due to the Project.

For the exceedance at IM10 on 14 February 2017, it is noted from **Table 4.11** that the exceedance appeared to be a single isolated case with neither temporal nor spatial trend to indicate any effect due to Project activities. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM7 to IM9, which were located closer to the active DCM works during flood tide. Based on these findings, the exceedance was considered not due to the Project.

SR Stations

At SR stations, exceedances were observed at SR5A and SR6. However, these stations are located upstream of the Project during flood tide, and there were no SS exceedances at any IM stations on those monitoring days, hence the exceedances at these stations were unlikely to be due to the Project. The exceedances at SR5A and SR6 might be due to natural fluctuation.

Conclusions

Based on the findings of the exceedance investigations, it is concluded that the exceedances were not due to the Project. Hence no SR stations were adversely affected by the Project. All required actions under the Event and Action Plan were followed. Exceedances appeared to be due to natural fluctuation (such as naturally high baseline SS levels at individual SR stations) or other sources not related to the Project.

Nevertheless, recognising that the IM stations represent a 'first line of defense', the non-project related exceedances identified at IM stations were attended to as a precautionary measure. As part of the EM&A programme, the construction methods and mitigation measures for water quality will continue to be monitored and opportunities for further enhancement will continue to be explored and implemented where possible, to strive for better protection of water quality and the marine environment.

In the meantime, the contractors were reminded to implement and maintain all mitigation measures during weekly site inspection and regular environmental management meetings. These

include maintaining mitigation measures for DCM works and sand blanket laying works properly as recommended in the EM&A manual.

5 Waste Management

5.1 Monitoring Requirements

In accordance with the Updated EM&A Manual, the waste generated from construction activities was audited once per week to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project, contract-specific WMP, and any statutory and contractual requirements. All aspects of waste management including waste generation, storage, transportation and disposal were assessed during the audits. The Action and Limit levels of the construction waste are provided in **Table 5.1**.

Table 5.1: Action and Limit Levels for Construction Waste

Monitoring Stations	Action Level	Limit Level
Construction Area	When one valid documented complaint is received	Non-compliance of the WMP, contract-specific WMPs, any statutory and contractual requirements

5.2 Waste Management Status

Weekly monitoring on all works contracts were carried out by the ET to check and monitor the implementation of proper waste management practices during the construction phase.

Recommendations including provision and maintenance of spill kits and provision of chemical waste storage area for chemical waste. In addition, the relevant contractors were reminded to provide recycling bins for the segregation of recyclables from general refuse. The contractors had taken actions to implement the recommended measures.

Based on the Contractor's information, about 594m^3 of excavated materials were produced from the HDD launching site and Sheung Sha Chau under P560(R) in February 2017. The generated excavated materials were temporarily stored at storage and stockpiling area. The excavated material will be reused in the Project.

Around 45 tonnes of general refuse was disposed of to the WENT Landfill by advanced works contract and DCM contract in February 2017. Around 112m^3 of Construction and Demolition (C&D) material generated from the DCM contracts for site office establishment was disposed of as public fill in the reporting month. No chemical waste was disposed off-site during the reporting month.

No exceedances of the Action or Limit Levels were recorded in the reporting period.

6 Chinese White Dolphin Monitoring

6.1 CWD Monitoring Requirements

In accordance with the Updated EM&A Manual, Chinese White Dolphin (CWD) monitoring by small vessel line-transect survey supplemented by land-based theodolite tracking should be conducted during construction phase.

The small vessel line-transect survey as proposed in the Updated EM&A Manual should be conducted at a frequency of two full survey per month while land-based theodolite tracking should be conducted at a frequency of one day per month per station during the construction phase. In addition to the land-based theodolite tracking required for impact monitoring as stipulated in the Updated EM&A Manual, supplemental theodolite tracking have also been conducted during the implementation for the SkyPier HSF diversion and speed control in order to assist in monitoring the effectiveness of these measures, i.e. in total twice per month at the Sha Chau station and three times per month at the Lung Kwu Chau station.

The Action Level (AL) and Limit Level (LL) for CWD monitoring were formulated by the action response approach using the running quarterly dolphin encounter rates STG and ANI derived from the baseline monitoring data, as presented in the CWD Baseline Monitoring Report. The derived values of AL and LL for CWD monitoring were summarized in **Table 6.1**.

Table 6.1: Derived Values of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

	NEL, NWL, AW, WL and SWL as a Whole
Action Level	Running quarterly* STG < 1.86 & ANI < 9.35
Limit Level	Two consecutive running quarterly^ (3-month) STG < 1.86 & ANI < 9.35

[Notes for Table 6.1 (referring to the baseline monitoring report):
*Action Level – running quarterly STG & ANI will be calculated from the three preceding survey months. For CWD monitoring for February 2017, data from 1 December 2016 to 28 February 2017 will be used to calculate the running quarterly encounter rates STG & ANI;

^Limit Level – two consecutive running quarters mean both the running quarterly encounter rates of the preceding month January 2017 (calculated by data from November 2016 to January 2017) and the running quarterly encounter rates of this month (calculated by data from December 2016 to February 2017).

AL and/or LL will be exceeded if both STG and ANI fall below the criteria.]

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

Small vessel line-transect surveys were conduct along the transects covering Northeast Lantau (NEL), Northwest Lantau (NWL), Airport West (AW), West Lantau (WL) and Southwest Lantau (SWL) areas as proposed in the Updated EM&A Manual, which are consistent with the Agriculture, Fisheries and Conservation Department (AFCD) long-term monitoring programme (except AW). The AW transect has not been previously surveyed in the AFCD programme due to the restrictions of HKIA Exclusion Zone, nevertheless, this transect was established during the EIA of the 3RS Project and refined in the Updated EM&A Manual with the aim to collect project specific baseline information within the HKIA Approach Area to fill the data gap that was not covered by the AFCD programme. This provided a larger sample size for estimating the densities and patterns of movements in the broader study area of the project.

For the NWL area, in the previous reporting months the transect lines within the works area could largely followed the waypoints conducted for baseline monitoring. However, there was safety concern on the CWD survey vessel travelling within the 3RS works area. Therefore, the transect lines for the NWL area were revised to follow the waypoints set for construction phase monitoring as proposed in the approved updated EM&A Manual to avoid entering 3RS works area, with the total length being shorter than previous months. The planned vessel survey transect lines are depicted in **Figure 6.1** with the waypoint coordinates of all transect lines given in **Table 6.2**, which are subject to on-site refinement based on the actual survey conditions and constraints.

Table 6.2: Coordinates of Transect Lines in NEL, NWL, AW, WL and SWL Survey Areas

Waypoint	Easting	Northing	Waypoint	Easting	Northing
		NEL			
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		NWL			
1S	804671	814577	5S	808504	821735
1N	804671	831404	5N	808504	828602
2Sb	805475	815457	6S	809490	822075
2Nb	805476	818571	6N	809490	825352
2Sa	805476	820770	7S	810499	822323
2Na	805476	830562	7N	810499	824613
3S	806464	821033	8S	811508	821839
3N	806464	829598	8N	811508	824254
4S	807518	821395	9S	812516	821356
4N	807518	829230	9N	812516	824254
		AW			
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		WL			
1W	800600	805450	7W	800400	811450
1E	801760	805450	7E	802400	811450
2W	800300	806450	8W	800800	812450
2E	801750	806450	8E	802900	812450
3W	799600	807450	9W	801500	813550
3E	801500	807450	9E	803120	813550
4W	799400	808450	10W	801880	814500
4E	801430	808450	10E	803700	814500
5W	799500	809450	11W	802860	815500
5E	801300	809450	12S/11E	803750	815500
6W	799800	810450	12N	803750	818500
6E	801400	810450			

Waypoint	Easting	Northing	Waypoint	Easting	Northing
		SWL			
1S	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
2S	803489	803280	7S	808553	800329
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking

Land-based theodolite tracking stations were set up at two locations, one facing east/south/west on the southern slopes of Sha Chau (SC), and the other facing north/northeast/northwest at Lung Kwu Chau (LKC). The stations (D and E) are depicted in **Figure 6.2** and shown in **Table 6.3** with position coordinates, height of station and approximate distance of consistent theodolite tracking capabilities for CWD.

Table 6.3: Land-based Survey Station Details

Stations	Location	Geographical Coordinates	Station Height (m)	Approximate Tracking Distance (km)
D	Sha Chau (SC)	22° 20' 43.5" N 113° 53' 24.66" E	45.66	2
E	Lung Kwu Chau (LKC)	22° 22' 44.83" N 113° 53' 0.2" E	70.40	3

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

Small vessel line-transect surveys provided data for density and abundance estimation and other assessments using distance-sampling methodologies, specifically, line-transect methods.

The surveys involved small vessel line-transect data collection and have been designed to be similar to, and consistent with, previous surveys for the AFCD for their long-term monitoring of small cetaceans in Hong Kong. The survey was designed to provide systematic, quantitative measurements of density, abundance and habitat use.

As mentioned in Section 6.2.1, the transects covered NEL, NWL covering the AW, WL and SWL areas as proposed in the Updated EM&A Manual and are consistent with the AFCD long-term monitoring programme (except AW). There are two types of transect lines:

- Primary transect lines: the parallel and zigzag transect lines as shown in **Figure 6.1**; and
- Secondary transect lines: transect lines connecting between the primary transect lines and crossing islands.

All data collected on both primary and secondary transect lines were used for analysis of sighting distribution, group size, activities including association with fishing boat, and mother-calf pair.

Only on-effort data collected under conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond were used for analysis of the CWD encounter rates.

A 15-20 m vessel with a flying bridge observation platform about 4 to 5 m above water level and unobstructed forward view, and a team of three to four observers were deployed to undertake the surveys. Two observers were on search effort at all times when following the transect lines with a constant speed of 7 to 8 knots (i.e. 13 to 15 km per hour), one using 7X handheld binoculars and the other using unaided eyes and recording data.

During on-effort survey periods, the survey team recorded effort data including time, position (waypoints), weather conditions (Beaufort sea state and visibility) and distance travelled in each series with assistance of a handheld GPS device. The GPS device also continuously and automatically logged data including time, position (Latitude and longitude) and vessel speed throughout the entire survey.

When CWDs were seen, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+ telephoto lens), then followed until they left the study area or were lost. At that point, the boat returned (off effort) to the next survey line and began to survey on effort again.

Focal follows of dolphins were conducted where practicable (i.e. when individual dolphins or small stable groups of dolphins with at least one member that could be readily identifiable with unaided eyes during observations and weather conditions are favourable). These involved the boat following (at an appropriate distance to minimize disturbance) an identifiable individual dolphin for an extended period of time, and collecting detailed data on its location, behaviour, response to vessels, and associates.

6.3.2 Photo Identification

CWDs can be identified by their unique features like presence of scratches, nick marks, cuts, wounds, deformities of their dorsal fin and distinguished colouration and spotting patterns.

When CWDs were observed, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+ telephoto lens). The survey team attempted to photo both sides of every single dolphin in the group as the colouration and spotting pattern on both sides may not be identical. The photos were taken at the highest available resolution and stored on Compact Flash memory cards for transferring into a computer.

All photos taken were initially examined to sort out those containing potentially identifiable individuals. These sorted-out images would then be examined in detail and compared to the CWD photo-identification catalogue established for 3RS during the baseline monitoring stage.

6.3.3 Land-based Theodolite Tracking

Land-based monitoring obtains fine-scale information on the time of day and movement patterns of the CWDs. A digital theodolite (Sokkia/Sokkisha Model DT5 or similar equipment) with 30-power magnification and 5-s precision was used to obtain the vertical and horizontal angle of each dolphin and vessel position. Angles were converted to geographic coordinates (latitude and longitude) and data were recorded using *Pythagoras* software, Version 1.2. This method delivers precise positions of multiple spatially distant targets in a short period of time. The technique is fully non-invasive, and allows for time and cost-effective descriptions of dolphin habitat use patterns at all times of daylight.

Three surveyors (one theodolite operator, one computer operator, and one observer) were involved in each survey. Observers searched for dolphins using unaided eyes and handheld binoculars (7X50). Theodolite tracking sessions were initiated whenever an individual CWD or group of CWDs was located. Where possible, a distinguishable individual was selected, based on colouration, within the group. The focal individual was then continuously tracked via the theodolite, with a position recorded each time the dolphin surfaced. In case an individual could not be positively distinguished from other members, the group was tracked by recording positions based on a central point within the group whenever the CWD surfaced. Tracking continued until animals were lost from view; moved beyond the range of reliable visibility (>1-3 km, depending on station height); or environmental conditions obstructed visibility (e.g., intense haze, Beaufort sea state >4, or sunset), at which time the research effort was terminated. In addition to the tracking of CWD, all vessels that moved within 2-3 km of the station were tracked, with effort made to obtain at least two positions for each vessel.

Theodolite tracking included focal follows of CWD groups and vessels. Priority was given to tracking individual or groups of CWD. The survey team also attempted to track all vessels moving within 1 km of the focal CWD.

6.4 Monitoring Results and Observations

6.4.1 Small Vessel Line-transect Survey

Survey Effort

Within this reporting month, two complete sets of small vessel line-transect surveys were conducted on the 6th, 7th, 9th, 10th, 16th, 17th, 20th and 21st February 2017, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of 448.80 km of survey effort was collected from these surveys, with around 69.63% of the total survey effort being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In February 2017, 21 groups of CWDs with 68 individuals were sighted. Amongst the sightings of CWD, 19 groups with 66 individuals were recorded during on-effort search under favourable weather conditions (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in February 2017 is illustrated in **Figure 6.3**. In February 2017, CWDs were more frequently sighted in WL than in NWL and SWL. There were three sightings in NWL in this reporting month, two located at the northwestern corner of Lung Kwu Chau while another recorded at the western waters of the existing Hong Kong International Airport on AW transect. In WL survey area, CWD sightings scattered from waters north to the Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road to Fan Lau Sai Wan. While in SWL, CWDs were sighted in waters between Shek Pik, Lo Kei Wan and Soko Islands. No sightings of CWDs were recorded in the vicinity of or within the 3RS land-formation footprint.

Figure 6.3: Sightings Distribution of Chinese White Dolphins

[Pink circle: Sighting locations of CWD, White line: Vessel survey transects, Blue polygon: Sha Chau and Lung Kwu Chau Marine Park (SCLKCMP), Green polygon: Brothers Marine Park (BMP) Red polygon: 3RS land-formation footprint, Yellow line: 3RS temporary works area boundary]

Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from February 2017. They included the number of dolphin sightings per 100km survey effort (STG) and total number of dolphins per 100km survey effort (ANI) in the whole survey area (i.e. NEL, NWL, AW, WL and SWL). In the calculation of dolphin encounter rates, only survey data collected under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility) were used. The formulae used for calculation of the encounter rates are shown below:

Encounter Rate by Number of Dolphin Sightings (STG)

$$STG = \frac{Total\ No.of\ \ On-effort\ Sightings}{Total\ Amount\ of\ Survey\ Effort\ (km)}\ x\ 100$$

Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{Total\ No.of\ Dolphins\ from\ On-effort\ Sightings}{Total\ Amount\ of\ Survey\ Effort\ (km)}\ x\ 100$$

(Notes: Only data collected under Beaufort 3 or below condition was used)

In February 2017, a total of 312.48 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 19 on-effort sightings with a total number of 66 dolphins from on-effort sightings were obtained under such condition. Calculation of the encounter rates in February 2017 are shown in **Appendix C**.

For the running quarter of the reporting month (i.e., from December 2016 to February 2017), a total of 1131.97 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 57 on-effort sightings and a total number of 196 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the month of February 2017 and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. The running quarterly encounter rates STG and ANI did not trigger the Action Level (i.e., remained above the Action Level).

Table 6.4: Comparison of CWD Encounter Rates of the Whole Survey Area with Action Levels

	Encounter Rate (STG)	Encounter Rate (ANI)
February 2017	6.08	21.12
Running Quarter from December 2016 to February 2017*	5.04	17.31
Action Level	1.86	9.35

*Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting month and the two preceding survey months, i.e. the data from December 2016 to February 2017, containing six sets of transect surveys for all monitoring areas.

Group Size

In February 2017, 21 groups of CWDs with 68 individuals were sighted, and the average group size of CWDs was 3.24 individuals per group. The numbers of small-sized (i.e. 1-2 individuals). and medium-sized (i.e. 3-9 individuals) were similar. A large CWD group with 14 individuals was sighted in this reporting month in WL.

Activities and Association with Fishing Boats

Four out of 21 sightings of CWDs were recorded engaging in feeding activities in February 2017. Three out of these four sightings were recorded in association with operating fishing boats. One of these sightings was associated with operating gill-netter in AW survey area. The remaining two sightings were associated with operating purse seiners in WL and SWL respectively. The CWD group sighted in WL has a large group size of 14 individuals associated with two operating purse seiners.

Mother-calf Pair

In February 2017, three sightings of CWDs were recorded with the presence of mother-and-unspotted juvenile pairs. Two of these sightings occurred in WL while another was sighted in AW survey area.

6.4.2 Photo Identification

In February 2017, a total number of 21 different CWD individuals were identified for totally 25 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of sighting (dd/mm/yyyy)	Sighting Group No.	Area
SLMM007	06/02/2017	3	WL
SLMM010	16/02/2017	10	WL
SLMM011	17/02/2017	2	SWL
SLMM014	16/02/2017	10	WL
SLMM018	17/02/2017	2	SWL
		3	SWL
SLMM022	16/02/2017	10	WL
SLMM025	16/02/2017	11	WL
SLMM031	17/02/2017	2	SWL
		3	SWL
SLMM036	16/02/2017	10	WL
SLMM047	16/02/2017	10	WL
SLMM049	16/02/2017	3	WL
		10	WL
SLMM052	16/02/2017	10	WL
WLMM003	16/02/2017	10	WL
WLMM007	16/02/2017	10	WL
WLMM017	16/02/2017	10	WL
WLMM025	16/02/2017	10	WL
WLMM043	16/02/2017	4	WL
WLMM056	16/02/2017	10	WL
WLMM060	16/02/2017	1	AW
WLMM071	06/02/2017	1	WL
	16/02/2017	1	AW
WLMM073	16/02/2017	10	WL

6.4.3 Land-based Theodolite Tracking

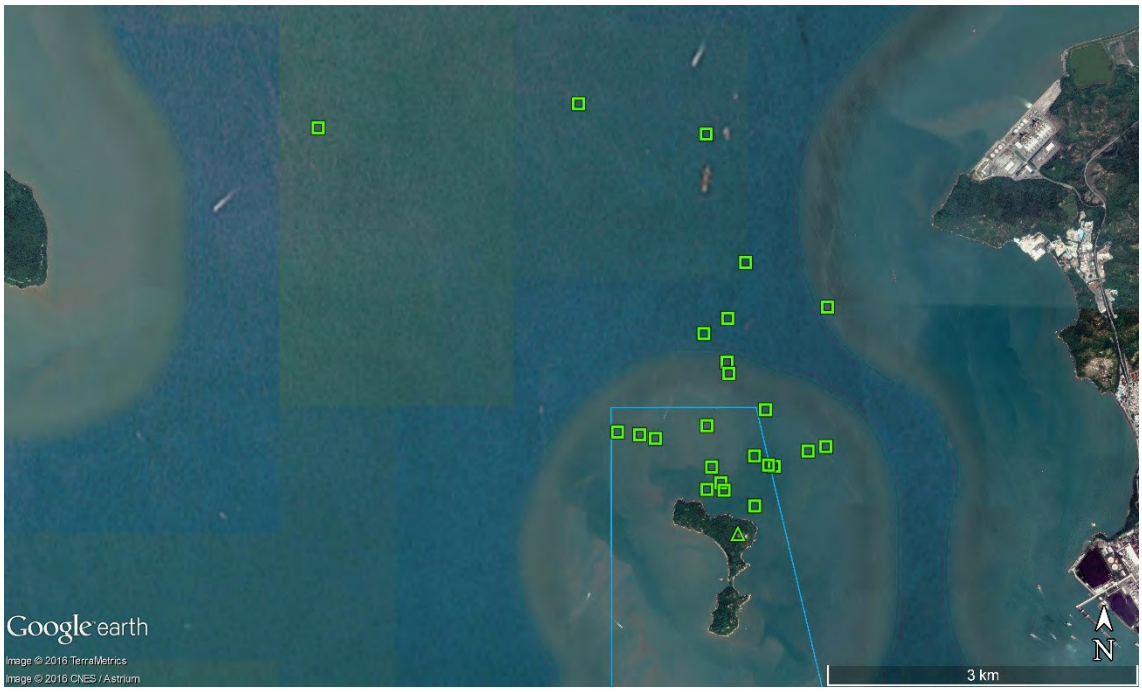
Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 15th, 20th and 28th February 2017 and at SC on 14th and 27th February 2017, with a total of 5 days of land-based theodolite tracking survey effort accomplished in this reporting month. In total, 24 CWD groups were tracked at LKC station during the surveys. Information of survey effort and CWD groups sighted during these land-based theodolite tracking surveys are presented in **Table 6.6**. Details of the survey effort and CWD groups tracked are presented in **Appendix C**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking surveys in February 2017 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

Table 6.6: Summary of Survey Effort and CWD Group of Land-based Theodolite Tracking

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	3	18:15	24	1.32
Sha Chau	2	12:00	0	0
TOTAL	**5**	**30:15**	**24**	**0.79**

Figure 6.4: Plots of First Sightings of All CWD Groups obtained from Land-based Stations
[Green triangle: LKC station; Green square: CWD group off LKC; Blue line: SCLKCMP boundary]



Notes: A CWD group was sighted at a location to the northwest of LKC outside the HKSAR boundary and two CWD groups were sighted at the far north off LKC on 15 February 2017. These three groups of sighting were beyond the usual tracking distance due to the good visibility and sea state condition (Beaufort ranged 2-3) on that day whilst these CWD groups were spotted with surfacing for several times. Although these sightings were beyond the usual tracking distance and even outside the HKSAR boundary, they were recorded with the purpose of gathering more CWD information.

6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. In this reporting month, the Ecological Acoustic Recorder (EAR) has been retrieved on 4 February 2017, re-deployed on 10 February 2017 and positioned at south of Sha Chau Island with 20% duty cycle (**Figure 6.5**). The EAR deployment is generally for 4-6 weeks prior to data retrieval for analysis. Acoustic data is reviewed to give an indication of CWDs occurrence patterns and to obtain anthropogenic noise information simultaneously. Analysis (by a specialized team of acousticians) involved manually browsing through every acoustic recording and logging the occurrence of dolphin signals. All data will be re-played by computer as well as listened to by human ears for accurate assessment of dolphin group presence. As the period of data collection and analysis takes more than two months, PAM results could not be reported in monthly intervals.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractors for sand blanket laying works, in which at least two dolphin observers were deployed by each contractor in accordance with the Marine Mammal Watching Plan (MMWP). Teams of at least two dolphin observers were deployed by the contractors for continuous monitoring of the Dolphin Exclusion Zone (DEZ) for DCM works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of MMWP and DEZ monitoring were provided by the ET prior to the aforementioned works, with a cumulative total of 199 individuals being trained and the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring

records, no dolphin or other marine mammals were observed within or around the silt curtains, whilst there was one record of dolphin sighting within the DEZ of DCM works in this reporting month. According to contractors' site records, DCM works were suspended in this dolphin sighting event until the DEZ was clear of dolphin for a continuous period of 30 minutes. These contractors' records were also audited by the ET during site inspection. Details for the implementation of DEZ during the incident of dolphin sighting within the DEZ of DCM works are mentioned in **Section 7.4**

Audits of acoustic decoupling for construction vessels were carried out during weekly site inspection and the observations are summarised in **Section 7.1**. Audits of SkyPier High Speed Ferries route diversion and speed control and construction vessel management are presented in **Section 7.2** and **Section 7.3** respectively.

6.7 Timing of Reporting CWD Monitoring Results

Detailed analysis of CWD monitoring results collected by small vessel line-transect survey will be provided in future quarterly reports. Detailed analysis of CWD monitoring results collected by land-based theodolite tracking and PAM will be provided in future yearly reports after a larger sample size of data has been collected.

6.8 Summary of CWD Monitoring

Monitoring of CWD was conducted with two complete sets of small vessel line-transect surveys and five days of land-based theodolite tracking survey effort as scheduled. The running quarterly encounter rates STG and ANI in the reporting month did not trigger the Action Level for CWD monitoring.

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

Weekly site inspections of the construction works for the advanced works contract and DCM contracts were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. The weekly site inspection schedule of the construction works is provided in **Appendix B**. Bi-weekly site inspections were also conducted by the IEC. Observations have been recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

The key observations from site inspection and associated recommendations were related to improvement of spill preventive and dust suppression measures, separation of recyclables from general refuse, and removal of oil stains at construction sites. In addition, recommendations were also provided during site inspection on barges. These included provision and maintenance of spill preventive measures and chemical waste storage area; provision of proper acoustic decoupling for noisy equipment; improvement of dust suppression measures; proper implementation of DEZ monitoring; installation and maintenance of silt curtains; provision of recycling bins for separating recyclables from general refuse as well as provision of suitable enclosed containers for general refuse collection.

A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix A**.

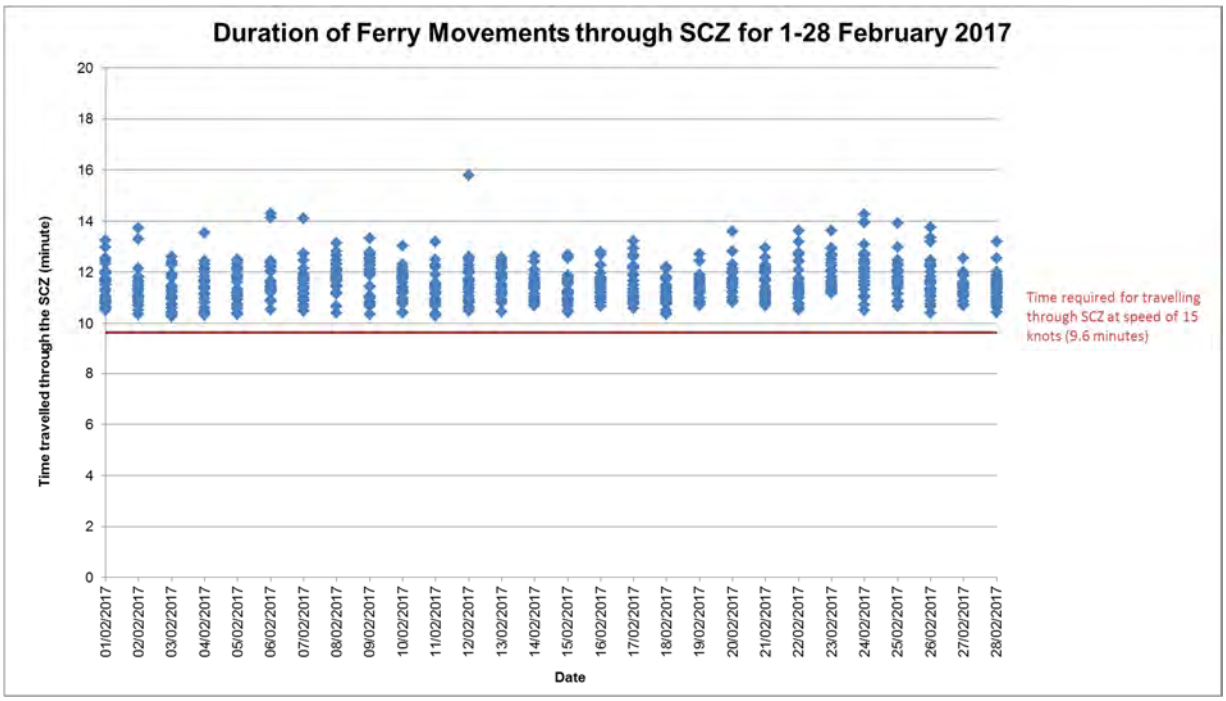
7.2 Audit of Route Diversion and Speed Control of the SkyPier High Speed Ferries

The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment (ACE) for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on the dedicated website of the Project. In the SkyPier Plan, AAHK has committed to implementing the mitigation measure of requiring high speed ferries (HSFs) of SkyPier travelling between HKIA and Zhuhai / Macau to start diverting the route with associated speed control across the area, i.e. Speed Control Zone (SCZ), with high CWD abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015.

Key audit findings for the SkyPier HSFs travelling to/from Zhuhai and Macau against the requirements of the SkyPier Plan during the reporting period are summarized in **Table 7.1**. The daily movements of all SkyPier HSFs in February 2017 (i.e., 89 to 93 daily movements) were within the maximum daily cap of 125 daily movements. Status of compliance with the annual daily average of 99 movements will be further reviewed in the annual EM&A Report.

In total, 783 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in February 2017 and the data are presented in **Appendix F**. The time spent by the SkyPier HSFs travelling through the SCZ in February 2017 were presented in **Figure 7-1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7-1** shows that all the SkyPier HSFs spent more than 9.6 minutes to travel through the SCZ.

Figure 7-1 Duration of the SkyPier HSFs travelling through the SCZ for February 2017



Note: Data above the red line indicated that the time spent by the SkyPier HSFs travelling through the SCZ is more than 9.6 minutes, which is in compliance with the SkyPier Plan.

One ferry was recorded with minor deviation from the diverted route on 25 February 2017. A notice was sent to the ferry operator (FO) and the case is under investigation by ET. The investigation result will be presented in the next monthly EM&A report.

The two cases in January 2017 was followed up after receiving further information from the FOs. For the cases with minor route deviation on 1 and 12 January 2017, ET's investigation found that the vessel captain had to give way to a vessel to ensure safety. After that, the HSF had returned to the normal route following the SkyPier Plan.

Table 7.1: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 February to 28 February 2017
Total number of ferry movements recorded and audited	783
Use diverted route and enter / leave SCZ through Gate Access Points	1 deviation, which is under investigation
Speed control in speed control zone	The average speeds taken within the SCZ of all HSFs were within 15 knots (6.4 knots to 14.1 knots), which complied with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in **Figure 7-1**.
Daily Cap (including all SkyPier HSFs)	89 to 93 daily movements (within the maximum daily cap - 125 daily movements).

7.3 Audit of Construction and Associated Vessels

The updated Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV) was submitted and approved in November 2016 by EPD under EP Condition 2.9. The approved Plan is available on the dedicated website of the Project.

ET carried out the following actions during the reporting period:

- Four skipper training sessions were held for contractors' concerned skippers of relevant construction vessels to familiarize them with the predefined routes; general education on local cetaceans; guidelines for avoiding adverse water quality impact; the required environmental practices / measures while operating construction and associated vessels under the Project; and guidelines for operating vessels safely in the presence of CWDs. The list of all trained skippers was properly recorded and maintained by ET.
- One skipper training session was held by contractor's Environmental Officer. Competency test was subsequently conducted with the trained skippers by ET.
- 51 skippers were trained by ET / contractor's Environmental Officer in February 2017. In total, 485 skippers were trained from August 2016 to February 2017.
- ET conducted weekly audit of construction and associated vessel records as provided by the contractors. AIS data, vessel tracks, vessel speed and other relevant records were also audited by ET to ensure the contractors complied with the requirements of the MTRMP-CAV and submitted sufficient records to the Marine Traffic Control Centre (MTCC) for records.
- From the weekly audit, deviations such as speeding in the works area, entry from non-designated gates and entering no-entry zones were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the weekly MTCC audit and such deviations were also reviewed during the Environmental Management Meeting in order to help the contractors prevent such deviations from happening again in future.
- 3-month rolling programmes (one month record and two months forecast) for construction vessel activities were received from the contractors in order to help maintain the number of construction and associated vessels on site to a practicable minimal level.
- As the Brothers Marine Park was designated on 30 December 2016, ET reminded contractors that all vessels shall avoid entering the Brothers Marine Park according to the MTRMP-CAV.

The IEC of the Project had performed audit on the compliance of the requirements as part of the EM&A programme.

7.4 Implementation of Dolphin Exclusion Zone

The Dolphin Exclusion Zone (DEZ) Plan was submitted in accordance with EP Condition 3.1 (v) requirement and Section 10.3 of the Updated EM&A Manual, and approved in April 2016 by EPD. The 24-hour DEZs with a 250m radius for marine works were established and implemented by the contractors for DCM works in accordance with the DEZ Plan.

During the reporting period, ET has been notified on one record of dolphin sighting within the DEZ by the contractor. ET has checked the dolphin sighting record and the contractor's site record to audit the implementation of DEZ. The dolphin sighting was recorded on 17 February 2017 from a DCM barge working at Area A3 (geographical coordinates: 22°19'29.36"N, 113°53'44.78"E; refer to **Figure 1.2** for the location of works area). The dolphin was first sighted at 08:51 and last sighted at 08:53 within the DEZ. DCM installation works on the DCM barge was ceased in one minute (at 08:52) in accordance with the DEZ Plan, and not resumed until the DEZ was clear of dolphin for a continuous period of at least 30 minutes.

7.5 Ecological Monitoring

In accordance with the Updated EM&A Manual, ecological monitoring shall be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact

found. During the reporting month, the monthly ecological monitoring on Sheung Sha Chau observed that HDD works were conducted under the Contract P560(R) at the daylighting location and there was no encroachment upon the egretry area nor any significant disturbance to the egrets foraging at Sheung Sha Chau by the works. Sign of early breeding activities by Black-crowned Night Heron was observed on trees located at the previously identified egretry area. The site photos and location map regarding the monthly ecological monitoring for the egretry area on Sheung Sha Chau and the HDD works are provided in **Appendix C** for reference.

7.6 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table 7.2**.

Table 7.2: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.1	Complaint Management Plan	Accepted / approved by EPD
2.4	Management Organizations	
2.5	Construction Works Schedule and Location Plans	
2.7	Marine Park Proposal	
2.8	Marine Ecology Conservation Plan	
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier	
2.11	Marine Mammal Watching Plan	
2.12	Coral Translocation Plan	
2.13	Fisheries Management Plan	
2.14	Egretry Survey Plan	
2.15	Silt Curtain Deployment Plan	
2.17	Detailed Plan on Deep Cement Mixing	
2.16	Spill Response Plan	
2.19	Waste Management Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.7 Compliance with Other Statutory Environmental Requirements

During the reporting period, environmental related licenses and permits required for the construction activities were checked. No non-compliance with environmental statutory requirements was recorded. The environmental licenses and permits which are valid in the reporting month are presented in **Appendix D**.

7.8 Analysis and Interpretation of Complaints, Notification of Summons and Status of Prosecutions

7.8.1 Complaints

During the reporting period, no construction activities related complaints were received.

7.8.2 Notifications of Summons or Status of Prosecution

During the reporting period, neither notifications of summons nor prosecution were received.

7.8.3 Cumulative Statistics

Cumulative statistics on complaints, notifications of summons and status of prosecutions are summarized in **Appendix E**.

8 Future Key Issues and Other EIA & EM&A Issues

8.1 Construction Programme for the Coming Reporting Period

Key activities anticipated in the next reporting period for the Project will include the following:

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- HDD works;
- Pipeline supporting works; and
- Stockpiling of excavated materials from HDD operation.

DCM Works:

Contract 3201 to 3205 Deep Cement Mixing Works

- Laying of geotextile and sand blanket;
- Site office establishment; and
- DCM works and trials.

Reclamation Works:

Contract 3206 Main Reclamation Works

- Site office establishment; and
  Laying of geotextile and sand blanket;

8.2 Key Environmental Issues for the Coming Reporting Period

The key environmental issues for the Project in the coming reporting period expected to be associated with the construction activities include:

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Water quality from laying of sand blankets and DCM trial works;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Management of chemicals and avoidance of oil spillage on-site; and
- Acoustic decoupling measures for equipment on marine vessels.

The implementation of required mitigation measures by the contractors will be monitored by the ET.

8.3 Monitoring Schedule for the Coming Reporting Period

A tentative schedule of the planned environmental monitoring work in the next reporting period is provided in **Appendix C**.

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period included five DCM contracts, an advanced works contract and a reclamation contract. The DCM contracts involved DCM works and trials, site office establishment, laying of geotextile and sand blanket; the advanced works contract involved HDD works and pipeline supporting works; and the reclamation contract involved site office establishment and laying of geotextile.

All the monitoring works for construction dust, construction noise, water quality, construction waste, terrestrial ecology and CWD were conducted during the reporting period in accordance with the Updated EM&A Manual.

No exceedance of the Action or Limit Levels in relation to the construction dust, construction noise, construction waste and CWD monitoring was recorded in the reporting month.

The water quality monitoring results for DO, total alkalinity, chromium, and nickel obtained during the reporting period were in compliance with their corresponding Action and Limit Levels. For turbidity and SS, some of the testing results exceeded the relevant Action or Limit Levels during the reporting period. The investigation findings concluded that the exceedances were not due to the Project.

The monthly terrestrial ecology monitoring on Sheung Sha Chau Island observed that HDD works were conducted at the daylighting location and there was no encroachment upon the egretry area nor any significant disturbance to the egrets at Sheung Sha Chau by the works.

Weekly site inspections of the construction works were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the IEC. Observations have been recorded in the site inspection checklists, including the observations on the conditions of silt curtains, which have been provided to the contractors together with the appropriate follow-up actions where necessary.

On the implementation of Marine Mammal Watching Plan, silt curtains were in place by the contractors for sand blanket laying works and dolphin observers were deployed in accordance with the Plan. On the implementation of Dolphin Exclusion Zone Plan, dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for DCM works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains, whilst there was one record of dolphin sighting within the DEZ of DCM works in this reporting month. According to contractors' site records, DCM works were suspended in the dolphin sighting event until the DEZ was clear of dolphin for a continuous period of 30 minutes. These contractors' records were checked by the ET during site inspection. Audits of acoustic decoupling for construction vessels were also carried out by the ET.

On the implementation of the Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan), the daily movements of all SkyPier HSFs in February 2017 were in the range of 89 to 93 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 783 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the SCZ with average speeds under 15 knots (6.4 to 14.1

knots), which were in compliance with the SkyPier Plan. One ferry movements with minor deviation from the diverted route is under investigation by ET. The investigation result will be presented in the next monthly EM&A report. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

On the implementation of the MTRMP-CAV, ET conducted weekly audit of relevant information, including AIS data, vessel tracks and other relevant records to ensure the contractors complied with the requirements of the MTRMP-CAV. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. 3-month rolling programmes for construction vessel activities were also received from contractors. ET reminded contractors that all vessels shall avoid entering the Brothers Marine Park, which has been designated since 30 December 2016.

Figures

824000 N
822000 N
820000 N
818000 N
804000 E
806000 E
808000 E
810000 E
812000 E
814000 E

Contract P560 (R)- Target Daylighting Location

RECLAMATION WORKS AREA (please refer to Figure 1.2)

Contract P560 (R)- Launching Site

Contract 3201- 3206 and AAHK Site Offices

Contract P560 (R)- Site Office

Contract P560 (R)- Stockpiling Area

LEGEND:

- LAND FORMATION
- TEMPORARY WORKS AREA BOUNDARY
- KEY CONSTRUCTION ACTIVITIES

0 250 500 750 1000 m

1 : 30 000 SCALE BAR

Rev.	Date	Description	Checked
A	31AUG15	FIRST ISSUE	DC

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Title

LOCATIONS OF KEY CONSTRUCTION ACTIVITIES IN THIS REPORTING PERIOD

Consultant's Signatures for Approval		Date
Design	DC	31AUG15
Checkers	DC	31AUG15
Design Supervisor	EC	31AUG15
Authorised Representative	JFP	31AUG15

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No. FIGURE 1.1

Scale at A3 1 : 30000

Rev. A

Filename: J:\355482\REPORT\ENV\CWSLP\FIG 1.dgn

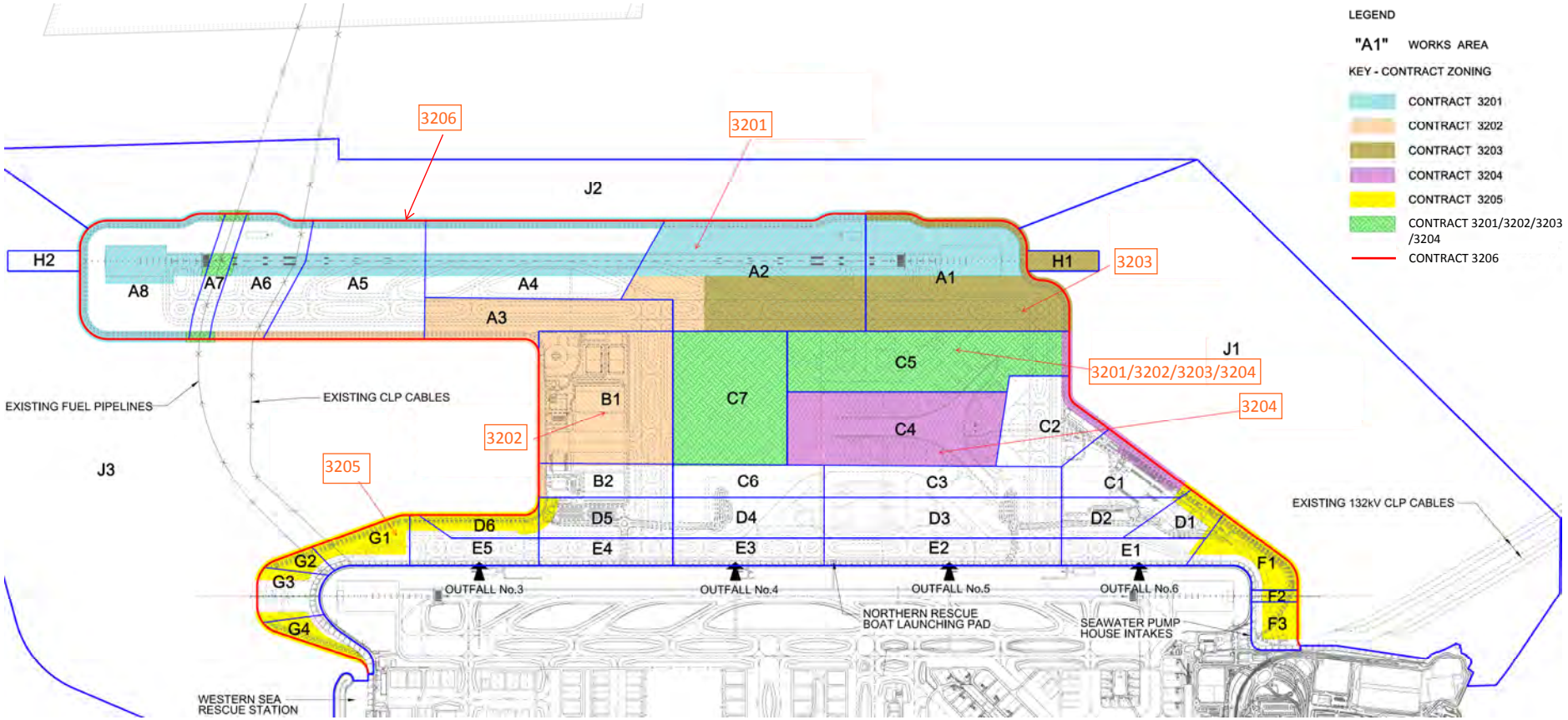

FIGURE 1.2- LOCATIONS OF RECLAMATION WORKS AREA

806000 E
808000 E
810000 E
812000 E
814000 E
820000 N
818000 N

LEGEND:
- RECLAMATION AREA
- NOISE MONITORING STATION (UPDATED EM&A MANUAL)
- AIR QUALITY MONITORING STATION (UPDATED EM&A MANUAL)
- CHEK LAP KOK WIND STATION

NM1A AR1A
NM2
NM3A
NM4
NM5 AR2
NM6

0 200 400 600 800 1000 m
1 : 22 500 SCALE BAR

Rev.	Date	Description	Checked
A	06JAN16	FIRST ISSUE	RO
B	29JAN16	GENERAL REVISION	RO
C	11FEB16	GENERAL REVISION	RO

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LOCATIONS OF AIR AND NOISE MONITORING STATIONS AND CHEK LAP KOK WIND STATION

Consultant's Signatures for Approval		Date
Design	AM	11FEB16
Checkers	AM / TK	11FEB16
Approver	EC	11FEB16

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 2.1

Scale at A3 1 : 22500

Rev. C

Filename: J:\355482\REPORT\ENV\EMA\160211\FIG 2.1.dgn

805000 E
810000 E
815000 E
820000 E
825000 N
820000 N
815000 N
HKSAR BOUNDARY
C1
C2
C3
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
IM1
IM2
IM3
IM4
IM5
IM6
IM7
IM8
IM9
IM10
IM11
IM12

LEGEND:
- LAND FORMATION FOOTPRINT
- 500m ENVELOPE
- IMPACT STATION
- SENSITIVE RECEIVER
- CONTROL STATION

0 500 1000 1500 2000 m
1 : 60 000 SCALE BAR

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A	02DEC15	FIRST ISSUE	DC
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WATER QUALITY MONITORING STATIONS

Consultant's Signatures for Approval		Date
Design	DC	06JUN16
Checkers	DC / TK	06JUN16
Approver	EC	06JUN16

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 3.1

Scale at A3 1 : 60000

Rev. C

Filename: J:\355482\REPORT\ENV\EMA\160606\MCL-P132-EMA-5-002.dgn

800000 E
805000 E
810000 E
815000 E
820000 E
825000 E
830000 E
835000 E
840000 E
845000 E
830000 N
825000 N
820000 N
815000 N
810000 N
805000 N

NORTHWEST LANTAU

NORTHEAST LANTAU

SOUTHWEST LANTAU

WEST LANTAU

LEGEND:
- HKSAR BOUNDARY
- LAND FORMATION FOOTPRINT
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE

0 1 2 3 4 km
1 : 125 000 SCALE BAR

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VESSEL BASED DOLPHIN MONITORING TRANSECTS IN BASELINE MONITORING

Consultant's Signatures for Approval		Date
Design	JC	02DEC15
Checkers	JC / TK	02DEC15
Approver	EC	02DEC15

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 6.1

Scale at A3 1 : 125000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\151202\MCL-P132-EMA-10-002.dgn

804000 E
806000 E
808000 E
810000 E
812000 E
814000 E
816000 E
818000 E
820000 N
822000 N
824000 N
826000 N

E
D

沙洲及龍鼓洲海岸公園
SHA CHAU AND LUNG KWU CHAU MARINE PARK

HKSAR BOUNDARY

LEGEND:
- LAND FORMATION FOOTPRINT
- HONG KONG INTERNATIONAL AIRPORT
- LAND BASED SURVEY LOCATION

0 500 1000 1500 2000 m
1 : 45,000 SCALE BAR

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Title

LAND BASED DOLPHIN MONITORING IN BASELINE AND CONSTRUCTION PHASES

Consultant's Signatures for Approval		Date
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Checkers	JC / TK	02DEC15
Approver	EC	02DEC15

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 6.2

Scale at A3 1 : 45000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\151202\MCL-P132-EMA-10-004.dgn

804000 E
806000 E
808000 E
810000 E
812000 E
814000 E
816000 E
818000 E
820000 E

828000 N
826000 N
824000 N
822000 N
820000 N
818000 N

A5

HKSAR BOUNDARY

沙洲及龍鼓洲海岸公園
SHA CHAU AND LUNG KWU CHAU MARINE PARK

LEGEND:

LAND FORMATION FOOTPRINT

HONG KONG INTERNATIONAL AIRPORT

AUTONOMOUS PASSIVE ACOUSTIC MONITORING LOCATION

0 500 1000 1500 2000 m
1 : 45 000 SCALE BAR

Rev.	Date	Description	Checked
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Title

LOCATIONS FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING IN BASELINE AND CONSTRUCTION PHASES

Consultant's Signatures for Approval		Date
Design	JC	02DEC15
Checkers	JC / TK	02DEC15
Approver	EC	02DEC15

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No. FIGURE 6.5

Scale at A3 1 : 45000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\151202\MCL-P132-EMA-10-005.dgn

Appendix A. Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

Appendix A Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Air Quality Impact – Construction Phase		
5.2.6.2	2.1	-	**Dust Control Measures** ▪ Water spraying for 12 times a day or once every two hours for 24-hour working at all active works area.	Within construction site / Duration of the construction phase	I
5.2.6.3	2.1	-	▪ Covering of at least 80% of the stockpiling area by impervious sheets. Water spraying of all dusty materials immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling.	Within construction site / Duration of the construction phase	I
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include: Good Site Management ▪ Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Within construction site / Duration of the construction phase	I
			Disturbed Parts of the Roads ▪ Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or ▪ Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Within construction site / Duration of the construction phase	I
			Exposed Earth ▪ Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.	Within construction site / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Loading, Unloading or Transfer of Dusty Materials ▪ All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.	Within construction site / Duration of the construction phase	I
			Debris Handling ▪ Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides; and ▪ Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.	Within construction site / Duration of the construction phase	I
			Transport of Dusty Materials ▪ Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.	Within construction site / Duration of the construction phase	I
			Wheel washing ▪ Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	Within construction site / Duration of the construction phase	I
			Use of vehicles ▪ The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site; ▪ Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and ▪ Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.	Within construction site / Duration of the construction phase	I
			Site hoarding ▪ Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	Within construction site / Duration of the construction phase	I
5.2.6.5	2.1	-	**Best Practices for Concrete Batching Plant** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include: Cement and other dusty materials	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The loading, unloading, handling, transfer or storage of cement, pulverised fuel ash (PFA) and/or other equally dusty materials shall be carried in a totally enclosed system acceptable to EPD. All dust-laden air or waste gas generated by the process operations shall be properly extracted and vented to fabric filtering system to meet the required emission limit; ▪ Cement, PFA and/or other equally dusty materials shall be stored in storage silo fitted with audible high level alarms to warn of over-filling. The high-level alarm indicators shall be interlocked with the material filling line such that in the event of the silo approaching an overfilling condition, an audible alarm will operate, and after 1 minute or less the material filling line will be closed; ▪ Vents of all silos shall be fitted with fabric filtering system to meet the required emission limit; ▪ Vents of cement/PFA weighing scale shall be fitted with fabric filtering system to meet the required emission limit; and ▪ Seating of pressure relief valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery.		
			Other raw materials ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rock, sand, stone aggregate, shall be carried out in such a manner to prevent or minimize dust emissions; ▪ The materials shall be adequately wetted prior to and during the loading, unloading and handling operations. Manual or automatic water spraying system shall be provided at all unloading areas, stock piles and material discharge points; ▪ All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; ▪ The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance; ▪ All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; ▪ Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; ▪ Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; ▪ Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used;	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side; ▪ Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and ▪ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching ▪ Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented: (a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and (b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit. ▪ The loading bay shall be totally enclosed during the loading process.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Vehicles ▪ All practicable measures shall be taken to prevent or minimize the dust emission caused by vehicle movement; and ▪ All access and route roads within the premises shall be paved and adequately wetted.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Housekeeping ▪ A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited.	Within Concrete Batching Plant / Duration of the construction phase	N/A
5.2.6.6	2.1	-	**Best Practices for Asphaltic Concrete Plant** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Tar and Bitumen Works (Asphaltic Concrete Plant) BPM 15 (94) as well as in the future Specified Process licence should be adopted. These include: Design of Chimney ▪ The chimney shall not be less than 3 metres plus the building height or 8 metres above ground level, whichever is the greater; ▪ The efflux velocity of gases from the main chimney shall not be less than 12 m/s at full load condition;	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The flue gas exit temperature shall not be less than the acid dew point; and ▪ Release of the chimney shall be directed vertically upwards and not be restricted or deflected.		
			Cold feed side ▪ The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area; ▪ Where there is sufficient buffer area surrounding the plant, ground stockpiling may be used. The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side. If these aggregates are stored above the feeding hopper, they shall be enclosed at least on top and three sides and be wetted on the surface to prevent wind-whipping; ▪ The aggregates with a nominal size greater than 5 mm should preferably be stored in totally enclosed structure. Aggregates stockpile that is above the feeding hopper shall be enclosed at least on top and three sides. If open stockpiling is used, the stockpiles shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; ▪ Belt conveyors shall be enclosed on top and two sides and provided with a metal board at the bottom to eliminate any dust emission due to the wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can be achieve the same performance; ▪ Scrapers shall be provided at the turning points of all belt conveyors inside the chute of the transfer points to remove dust adhered to the belt surface; ▪ All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and ▪ All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Hot feed side ▪ The inlet and outlet of the rotary dryer shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter. The particulate and gaseous concentration at the exhaust outlet of the dust collector shall not exceed the required limiting values; ▪ The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value; ▪ All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings; ▪ Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside. They shall be inspected daily for leakages;	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and ▪ Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units).		
			Material transportation ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions; ▪ Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and ▪ Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Control of emissions from bitumen decanting ▪ The heating temperature of the particular bitumen type and grade shall not exceed the corresponding temperature limit of the same type listed in Appendix 1 of the Guidance Note; ▪ Tamper-free high temperature cut-off device shall be provided to shut off the fuel supply or electricity in case the upper limit for bitumen temperature is reached; ▪ Proper chimney for the discharge of bitumen fumes shall be provided at high level; ▪ The emission of bitumen fumes shall not exceed the required emission limit; and The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Liquid fuel ▪ The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Housekeeping ▪ A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Within Concrete Batching Plant / Duration of the construction phase	N/A
5.2.6.7	2.1	-	**Best Practices for Rock Crushing Plants** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include:	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Crushers ▪ The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter; ▪ The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping; ▪ Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and ▪ Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure.		
			Vibratory screens and grizzlies ▪ All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and ▪ All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Belt conveyors ▪ Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides; ▪ Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and ▪ Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals.	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Storage piles and bins ▪ Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required. ▪ The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable; ▪ All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or ▪ The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls. ▪ Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Rock drilling equipment ▪ Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Hazard to Human Life – Construction Phase		
Table 6.40	3.2	-	▪ Precautionary measures should be established to request barges to move away during typhoons.	Construction Site / Construction Period	I
Table 6.40	3.2	-	▪ An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	I
Table 6.40	3.2	-	▪ Location of all existing hydrant networks should be clearly identified prior to any construction works.	Construction Site / Construction Period	N/A
			Noise Impact – Construction Phase		
7.5.6	4.3	-	**Good Site Practice** Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: ▪ only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; ▪ machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;	Within the Project site / During construction phase / Prior to commencement of operation	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; ▪ mobile plant should be sited as far away from NSRs as possible; and ▪ material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.		
7.5.6	4.3	-	**Adoption of QPME** ▪ QPME should be adopted as far as applicable.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	**Use of Movable Noise Barriers** ▪ Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	**Use of Noise Enclosure/ Acoustic Shed** ▪ Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.	Within the Project site / During construction phase / Prior to commencement of operation	I
			Water Quality Impact – Construction Phase		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.2 and 8.8.1.3	5.1	2.26	**Marine Construction Activities** <u>General Measures to be Applied to All Works Areas</u> ▪ Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; ▪ Use of Lean Material Overboard (LMOB) systems shall be prohibited; ▪ Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; ▪ Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; ▪ Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; ▪ All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; ▪ The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and ▪ For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the waste water meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.	Within construction site / Duration of the construction phase	I
			<u>Specific Measures to be Applied to All Works Areas</u> ▪ The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; ▪ A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document;	Within construction site / Duration of the construction phase	I
			▪ An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities;		N/A
			▪ Closed grab dredger shall be used to excavate marine sediment; ▪ Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and		N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The Silt Curtain Deployment Plan shall be implemented.		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<u>Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works</u> ▪ Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains;	Within construction site / Duration of the construction phase	NA *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and		For C7a, I For C8, N/A *(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The silt curtains and silt screens should be regularly checked and maintained.		I
			<u>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</u> ▪ Double layer 'Type II' or 'Type III' silt curtains to be applied around the eastern openings between partially completed seawalls prior to commencement of marine filling activities. The silt curtains shall be configured to minimise SS release during ebb tides;	Within construction site / Duration of the construction phase	N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities;		N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and		N/A *(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The silt curtains and silt screens should be regularly checked and maintained.		N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion ▪ Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping and Sea Ordinance (DASO) permit conditions; and ▪ Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.	Within construction site / Duration of the construction phase	N/A
8.8.1.4	5.1	-	**Modification of the Existing Seawall** ▪ Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	N/A
8.8.1.5	5.1	-	**Construction of New Stormwater Outfalls and Modifications to Existing Outfalls** ▪ During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.	Within construction site / Duration of the construction phase	N/A
8.8.1.6 8.8.1.7	5.1	2.27	**Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons** Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment. For construction of the eastern approach lights at the CMPs ▪ Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; ▪ Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; ▪ The excavated materials shall be removed using a closed grab within the steel casings; ▪ No discharge of the cement mixed materials into the marine environment will be allowed; and ▪ Excavated materials shall be treated and reused on-site.	Within construction site / Duration of the construction phase	N/A
8.8.1.8	5.1	-	**Construction of Site Runoff and Drainage** The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended: ▪ Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site	Within construction site / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		
			▪ Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I
			▪ All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;		I
			▪ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;		N/A
			▪ In the event that contaminated groundwater is identified at excavation areas, this should be treated on-site using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for proper disposal off-site. No direct discharge of contaminated groundwater is permitted; and		N/A
			▪ All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.		I
8.8.1.9	5.1	-	**Sewage Effluent from Construction Workforce** ▪ Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Within construction site / During construction phase	I
8.8.1.10 8.8.1.11	5.1		**General Construction Activities** ▪ Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and	Within construction site / During construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.		
8.8.1.12 8.8.1.13	5.1	2.28	**Drilling Activities for the Submarine Aviation Fuel Pipelines** To prevent potential water quality impacts at Sha Chau, the following measures shall be applied: ▪ A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; ▪ No bulk storage of chemicals shall be permitted; and ▪ A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas.	Within construction site / During construction phase	I
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater: ▪ During pipe cleaning, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meet the WPCO/TM requirements before discharge; and ▪ Drilling fluid used in drilling activities should be reconditioned and reused as far as possible. Temporary enclosed storage locations should be provided on-site for any unused chemicals that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.	Within construction site / During construction phase	I
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended: ▪ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	Project Site Area / During design and construction phase	I
			▪ Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works;		I
			▪ Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work;		I
			▪ Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and		N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.		N/A
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include: ▪ Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; ▪ Training of site personnel in proper waste management and chemical waste handling procedures; ▪ Provision of sufficient waste disposal points and regular collection for disposal; ▪ Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/ similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards; ▪ Stockpiles of C&D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust; ▪ All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas; ▪ C&D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust; ▪ The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and ▪ To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Project Site Area / Construction Phase	I
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include: ▪ Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; ▪ Adoption of repetitive design to allow reuse of formworks as far as practicable; ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Project Site Area / Construction Phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; ▪ Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; ▪ Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.		
10.5.1.5	7.1		▪ Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.	Project Site Area / Construction Phase	I
10.5.1.5	7.1	-	▪ Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	-	▪ A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	▪ The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices.	Construction Phase	I
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments: ▪ On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions; ▪ The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions; ▪ All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission; ▪ Good housekeeping should be maintained at all times at the sediment treatment facility and storage area; ▪ Treated and untreated sediment should be clearly separated and stored separately; and ▪ Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge.	Project Site Area / Construction Phase	N/A
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly	Project Site Area / Construction Phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal: ▪ Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; ▪ Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and ▪ Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.		
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented: ▪ Good quality containers compatible with the chemical wastes should be used; ▪ Incompatible chemicals should be stored separately; ▪ Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.; and ▪ The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Project Site Area / Construction Phase	I
10.5.1.20	7.1	-	▪ General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	▪ The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	N/A
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	For areas inaccessible during site reconnaissance survey ▪ Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas.	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	I
			▪ Subject to further site reconnaissance findings, a supplementary Contamination Assessment Plan (CAP) for additional site investigation (SI) (if necessary) may be prepared and submitted to EPD for endorsement prior to the commencement of SI at these areas.		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room.		N/A
			▪ Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively.		N/A
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any): ▪ To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; ▪ Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; ▪ Stockpiling of contaminated excavated materials on site should be avoided as far as possible; ▪ The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; ▪ Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; ▪ Truck bodies and tailgates should be sealed to prevent any discharge; ▪ Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; ▪ Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit; ▪ Strictly observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and ▪ Maintain records of waste generation and disposal quantities and disposal arrangements.	Project Site Area / Construction Phase	N/A
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	**Pre-construction Egretry Survey** ▪ Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.	Breeding season (April - July) prior to commencement of HDD drilling works at HKIA	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
12.7.2.3 and 12.7.2.6	9.1	2.30	**Avoidance and Minimisation of Direct Impact to Egretry** ▪ The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry; ▪ In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and ▪ The containment pit at the daylighting location shall be covered or camouflaged.	During construction phase at Sheung Sha Chau Island	I
12.7.2.5	9.1	2.30	**Preservation of Nesting Vegetation** ▪ The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved.	During construction phase at Sheung Sha Chau Island	I
12.7.2.4 and 12.7.2.6	9.1	2.30	**Timing the Pipe Connection Works outside Ardeid's Breeding Season** ▪ All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons.	During construction phase at Sheung Sha Chau Island	I
12.10.1.1	9.3	-	**Ecological Monitoring** ▪ During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found.	at Sheung Sha Chau Island	I
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	▪ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	I
			Marine Ecological Impact – Construction Phase		
13.11.1.3 to 13.11.1.6	-	-	**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I
13.11.1.7 to 13.11.1.10	-	2.31	**Use of Construction Methods with Minimal Risk/Disturbance** ▪ Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	I
			▪ Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment;		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway;		N/A
			▪ Avoid bored piling during CWD peak calving season (Mar to Jun);		I
			▪ Prohibition of underwater percussive piling; and		I
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.		I
13.11.2.1 to 13.11.2.7	-	-	**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	I
			▪ Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.		I
13.11.1.12	-	-	**Strict Enforcement of No-Dumping Policy** ▪ A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; ▪ Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I
13.11.1.13	-	-	**Good Construction Site Practices** ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and ▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.	All works area during the construction phase	I
13.11.1.3 to 13.11.1.6	-	-	**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				to completion of construction	
13.11.5.4 to 13.11.5.13	10.3.1	-	**SkyPier High Speed Ferries' Speed Restrictions and Route Diversions** ▪ SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in **Drawing No. MCL/P132/EIA/13-023** of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and ▪ A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.	Area between the footprint and SCLKC Marine Park during construction phase	I
			Other mitigation measures ▪ The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and ▪ The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.	Area between the footprint and SCLKC Marine Park during construction phase	I
13.11.5.14 to 13.11.5.18	10.3.1	2.31	**Dolphin Exclusion Zone** ▪ Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;	Marine waters around land formation works area during construction phase	I
			▪ A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and		I
			▪ A DEZ would also be implemented during bored piling work but as a precautionary measure only.		N/A
13.11.5.19	10.4	2.31	**Acoustic Decoupling of Construction Equipment** ▪ Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and ▪ Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.	Around coastal works area during construction phase	I
13.11.5.20	10.6.1	2.29	**Spill Response Plan** ▪ An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage.	Construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.5.21 to 13.11.5.23	10.6.1	-	**Construction Vessel Speed Limits and Skipper Training** ▪ A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities; and ▪ Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing.	All areas north and west of Lantau Island during construction phase	I
			Fisheries Impact – Construction Phase		
14.9.1.2 to 14.9.1.5	-		**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.	Land formation footprint / during detailed design phase to completion of construction	I
14.9.1.6	-	-	**Use of Construction Methods with Minimal Risk/Disturbance** ▪ Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	I
			▪ Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment;		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
14.9.1.11	-		**Strict Enforcement of No-Dumping Policy** ▪ A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; ▪ Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I
14.9.1.12	-		**Good Construction Site Practices** ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and	All works area during the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.		
14.9.1.13 to 14.9.1.18	-		**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	I
			▪ Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
			Landscape and Visual Impact – Construction Phase		
Table 15.6	12.3	-	**CM1 -** The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM2 -** Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM3 -** Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM4 -** Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM5 -** Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. –	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				may be disassembled in phases	
Table 15.6	12.3	-	**CM6 -** Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	**CM7** - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases	I
Table 15.6	12.3	-	**CM8 -** All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.	All existing trees to be retained; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM9 -** Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	**CM10 -** Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works; Upon handover and completion of works.	N/A
			Cultural Heritage Impact – Construction Phase		
			Not applicable.		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Health Impact – Aircraft Emissions		
			Not applicable.		
			Health Impact – Aircraft Noise		
			Not applicable.		

Notes:

I= implemented where applicable;

N/A= not applicable to the construction works implemented during the reporting month.

^ Checked by ET during site inspection

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

FEBRUARY 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Site Inspection NM1A/AR1A NM4 NM6	**2** Site Inspection NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 16:55 mid-flood: 10:49	**3** Site Inspection	**4** WQ General & Regular DCM mid-ebb: 19:11 mid-flood: 12:22
5	**6** NM6 CWD Vessel Survey	**7** NM1A/AR1A NM4 CWD Vessel Survey WQ General & Regular DCM mid-ebb: 10:15 mid-flood: 15:32	**8** NM5/AR2 NM3A	**9** Site Inspection CWD Vessel Survey WQ General & Regular DCM mid-ebb: 12:09 mid-flood: 17:24	**10** CWD Vessel Survey	**11** WQ General & Regular DCM mid-ebb: 13:32 mid-flood: 08:03
12	**13** NM1A/AR1A NM4	**14** Site Inspection NM5/AR2 NM3A CWD Land-based Survey WQ General & Regular DCM mid-ebb: 15:10 mid-flood: 09:31	**15** Site Inspection Ecological Monitoring CWD Land-based Survey	**16** Site Inspection NM6 CWD Vessel Survey WQ General & Regular DCM mid-ebb: 16:22 mid-flood: 10:22	**17** AR1A CWD Vessel Survey	**18** WQ General & Regular DCM mid-ebb: 18:10 mid-flood: 11:27
19	**20** NM5/AR2 NM3A NM6 CWD Vessel Survey CWD Land-based Survey	**21** Site Inspection CWD Vessel Survey WQ General & Regular DCM mid-ebb: 09:52 mid-flood: 14:20	**22** Site Inspection	**23** Site Inspection NM1A/AR1A NM4	**24** Site Inspection AR2 WQ General & Regular DCM mid-ebb: 12:04 mid-flood: 17:15	**25**
26 WQ General & Regular DCM mid-ebb: 13:12 mid-flood: 07:37	**27** CWD Land-based Survey	**28** Site Inspection NM6 CWD Land-based Survey WQ General & Regular DCM mid-ebb: 14:18 mid-flood: 08:27				

Notes:

Air quality and Noise Monitoring Station

CWD - Chinese White Dolphin
WQ - Water Quality
DCM - Deep Cemenet Mixing

NM1A/AR1A - Man Tung Road Park
NM3A - Site Office
NM4 - Ching Chung Hau Po Woon Primary School
NM5/AR2 - Village House, Tin Sum
NM6 - House No. 1, Sha Lo Wan

Tentative Monitoring Schedule of Next Reporting Period

Mar-17

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Site Inspection NM1A/AR1A NM4	**2** Site Inspection NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 15:34 mid-flood: 09:24	**3** Site Inspection	**4** WQ General & Regular DCM mid-ebb: 17:18 mid-flood: 10:35
5	**6** CWD Vessel Survey NM6	**7** Site Inspection CWD Land-based Survey NM1A/AR1A NM4 WQ General & Regular DCM mid-ebb: 08:53 mid-flood: 13:59	**8** Site Inspection CWD Land-based Survey NM5/AR2 NM3A	**9** Site Inspection WQ General & Regular DCM mid-ebb: 11:19 mid-flood: 16:32	**10** Site Inspection CWD Vessel Survey	**11** WQ General & Regular DCM mid-ebb: 12:40 mid-flood: 06:59
12	**13** CWD Vessel Survey NM1A/AR1A NM4	**14** Site Inspection CWD Vessel Survey NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 14:07 mid-flood: 08:16	**15** Site Inspection CWD Vessel Survey	**16** Site Inspection CWD Land-based Survey NM6 WQ General & Regular DCM mid-ebb: 15:10 mid-flood: 09:04	**17** Site Inspection CWD Land-based Survey AR1A Ecological Monitoring	**18** WQ General & Regular DCM mid-ebb: 16:27 mid-flood: 09:57
19	**20** CWD Vessel Survey NM5/AR2 NM3A NM6	**21** Site Inspection CWD Vessel Survey WQ General & Regular DCM mid-ebb: 19:45 mid-flood: 06:55	**22** Site Inspection CWD Vessel Survey	**23** Site Inspection CWD Land-based Survey NM1A/AR1A NM4 WQ General & Regular DCM mid-ebb: 10:25 mid-flood: 15:02	**24** Site Inspection AR2	**25** WQ General & Regular DCM mid-ebb: 16:27 mid-flood: 09:57
26	**27**	**28** Site Inspection NM6 WQ General & Regular DCM mid-ebb: 13:18 mid-flood: 07:17	**29** Site Inspection NM1A/AR1A NM4	**30** Site Inspection NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 14:32 mid-flood: 08:15	**31** Site Inspection	

Notes:

Air quality and Noise Monitoring Station

CWD - Chinese White Dolphin
WQ - Water Quality
DCM - Deep Cemenet Mixing

* Rescheduled due to adverse weather
^ Cancelled due to adverse weather

NM1A/AR1A - Man Tung Road Park
NM3A - Site Office
NM4 - Ching Chung Hau Po Woon Primary School
NM5/AR2 - Village House, Tin Sum
NM6 - House No. 1, Sha Lo Wan

Appendix C. Monitoring Results

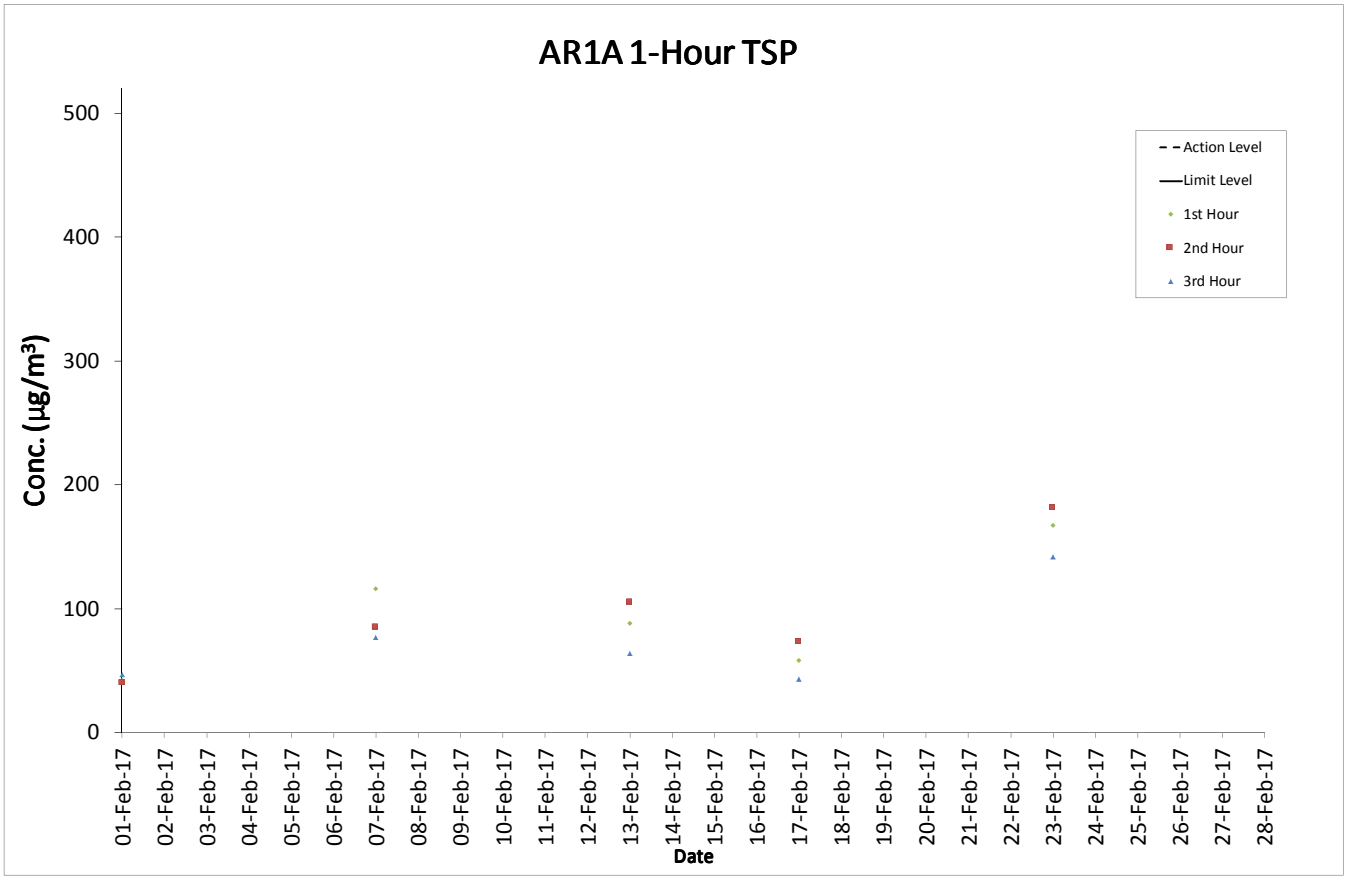
Air Quality Monitoring Results

1-hour TSP Results
Station: AR1A- Man Tung Road Park

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
01-Feb-17	13:15	Fine	2.9	276	42	306	500
01-Feb-17	14:15	Fine	3.3	260	40	306	500
01-Feb-17	15:15	Fine	3.0	273	47	306	500
07-Feb-17	13:00	Fine	8.5	108	116	306	500
07-Feb-17	14:00	Fine	7.0	100	85	306	500
07-Feb-17	15:00	Fine	5.1	129	77	306	500
13-Feb-17	13:00	Sunny	5.2	265	88	306	500
13-Feb-17	14:00	Sunny	4.7	264	105	306	500
13-Feb-17	15:00	Sunny	4.6	259	64	306	500
17-Feb-17	13:00	Sunny	4.4	262	58	306	500
17-Feb-17	14:00	Sunny	4.6	268	73	306	500
17-Feb-17	15:00	Sunny	3.7	269	43	306	500
23-Feb-17	14:20	Cloudy	8.5	340	167	306	500
23-Feb-17	15:20	Cloudy	8.9	330	181	306	500
23-Feb-17	16:20	Cloudy	6.9	345	142	306	500

1-hour TSP Results
Station: AR2- Village House, Tin Sum

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
02-Feb-17	8:57	Cloudy	5.5	51	58	298	500
02-Feb-17	9:57	Cloudy	3.8	104	84	298	500
02-Feb-17	10:57	Cloudy	3.8	66	96	298	500
08-Feb-17	08:58	Cloudy	10.4	100	65	298	500
08-Feb-17	09:58	Cloudy	7.7	75	56	298	500
08-Feb-17	10:58	Cloudy	4.7	102	54	298	500
14-Feb-17	09:05	Sunny	5.6	71	31	298	500
14-Feb-17	10:05	Sunny	4.2	109	25	298	500
14-Feb-17	11:05	Sunny	2.8	19	25	298	500
20-Feb-17	09:02	Cloudy	3.1	13	171	298	500
20-Feb-17	10:02	Cloudy	2.2	335	167	298	500
20-Feb-17	11:02	Cloudy	1.8	300	143	298	500
24-Feb-17	09:05	Rainy	6.6	3	102	298	500
24-Feb-17	10:05	Rainy	5.7	17	159	298	500
24-Feb-17	11:05	Rainy	7.4	9	102	298	500


AR1A 1-Hour TSP
Conc. (µg/m³)
500
400
300
200
100
0
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
01-Feb-17
02-Feb-17
03-Feb-17
04-Feb-17
05-Feb-17
06-Feb-17
07-Feb-17
08-Feb-17
09-Feb-17
10-Feb-17
11-Feb-17
12-Feb-17
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20-Feb-17
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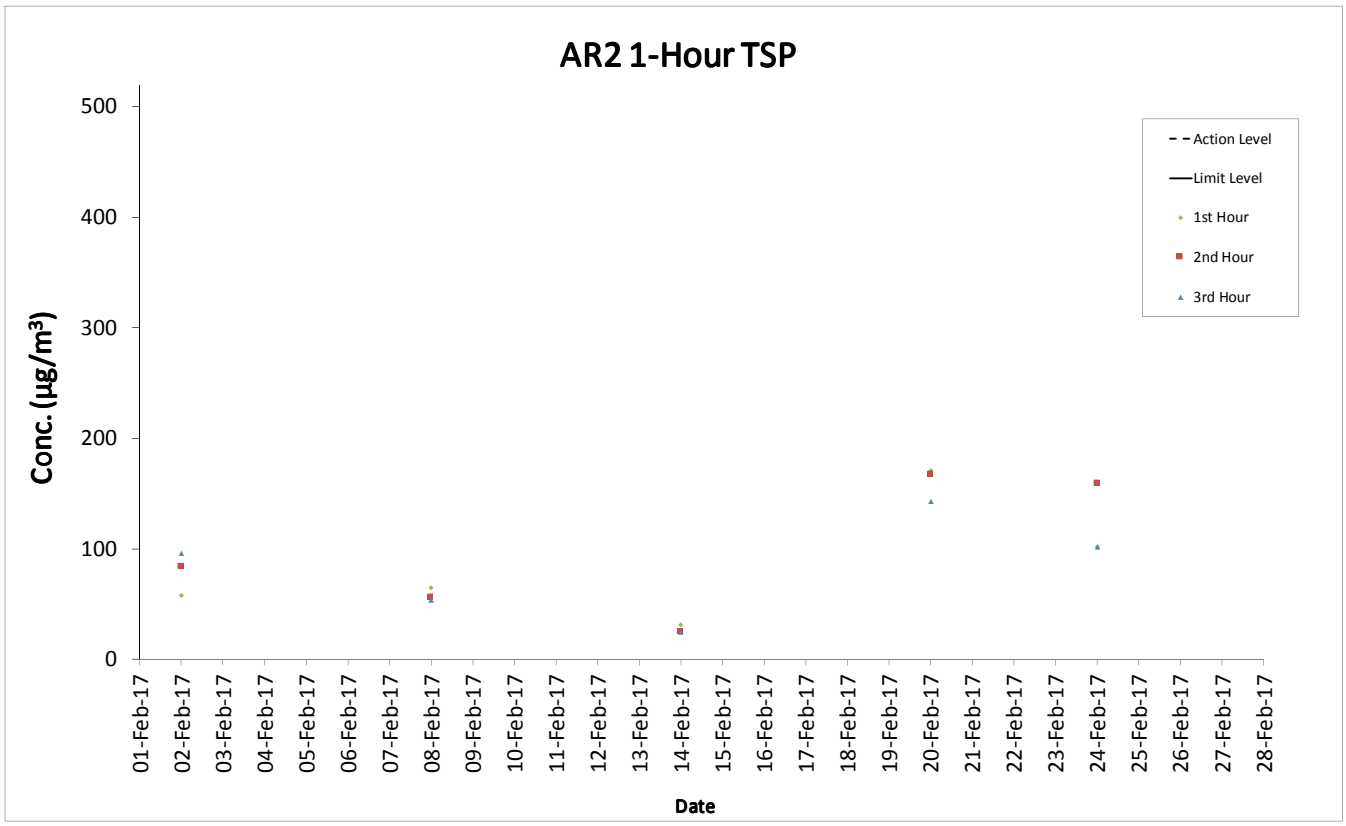
26-Feb-17
27-Feb-17
28-Feb-17
Date


AR2 1-Hour TSP
Conc. (µg/m³)
500
400
300
200
100
0
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
01-Feb-17
02-Feb-17
03-Feb-17
04-Feb-17
05-Feb-17
06-Feb-17
07-Feb-17
08-Feb-17
09-Feb-17
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24-Feb-17
25-Feb-17
26-Feb-17
27-Feb-17
28-Feb-17
Date

Noise Monitoring Results

Noise Measurement Results
Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
01-Feb-17	Fine	13:29	72.5	54.0	71
01-Feb-17	Fine	13:34	73.0	55.0	
01-Feb-17	Fine	13:39	70.5	55.5	
01-Feb-17	Fine	13:44	72.0	54.5	
01-Feb-17	Fine	13:49	71.0	55.0	
01-Feb-17	Fine	13:54	70.5	55.0	
07-Feb-17	Cloudy	13:10	71.0	55.5	72
07-Feb-17	Cloudy	13:15	71.5	56.5	
07-Feb-17	Cloudy	13:20	72.5	57.0	
07-Feb-17	Cloudy	13:25	73.0	57.5	
07-Feb-17	Cloudy	13:30	72.5	57.5	
07-Feb-17	Cloudy	13:35	71.5	55.5	
13-Feb-17	Sunny	13:06	72.5	57.5	72
13-Feb-17	Sunny	13:11	72.5	55.5	
13-Feb-17	Sunny	13:16	71.5	56.0	
13-Feb-17	Sunny	13:21	72.5	58.0	
13-Feb-17	Sunny	13:26	72.5	56.0	
13-Feb-17	Sunny	13:31	73.0	57.5	
23-Feb-17	Cloudy	14:34	69.5	59.0	71
23-Feb-17	Cloudy	14:39	74.0	58.5	
23-Feb-17	Cloudy	14:44	72.0	59.5	
23-Feb-17	Cloudy	14:49	69.5	57.5	
23-Feb-17	Cloudy	14:54	72.0	57.5	
23-Feb-17	Cloudy	14:59	72.5	60.5	

Remarks:
+3dB (A) correction was applied to free-field measurement

Noise Measurement Results
Station: NM3A- Site Office

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
02-Feb-17	Cloudy	13:09	68.5	55.5	57
02-Feb-17	Cloudy	13:14	68.5	55.5	
02-Feb-17	Cloudy	13:19	68.5	56.0	
02-Feb-17	Cloudy	13:24	68.0	56.0	
02-Feb-17	Cloudy	13:29	66.0	55.5	
02-Feb-17	Cloudy	13:34	65.5	56.0	
08-Feb-17	Cloudy	14:03	68.5	57.5	57
08-Feb-17	Cloudy	14:08	69.5	57.0	
08-Feb-17	Cloudy	14:13	65.0	57.5	
08-Feb-17	Cloudy	14:18	68.5	56.0	
08-Feb-17	Cloudy	14:23	66.0	56.5	
08-Feb-17	Cloudy	14:28	69.0	57.0	
14-Feb-17	Sunny	14:25	68.5	57.0	62
14-Feb-17	Sunny	14:30	67.5	57.0	
14-Feb-17	Sunny	14:35	66.0	56.5	
14-Feb-17	Sunny	14:40	59.5	57.0	
14-Feb-17	Sunny	14:45	61.5	56.5	
14-Feb-17	Sunny	14:50	61.0	56.5	
20-Feb-17	Fine	14:09	70.5	58.5	61
20-Feb-17	Fine	14:14	68.5	58.5	
20-Feb-17	Fine	14:19	67.0	57.5	
20-Feb-17	Fine	14:24	67.5	57.5	
20-Feb-17	Fine	14:29	68.0	57.0	
20-Feb-17	Fine	14:34	67.0	57.5	

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Won Primary School

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
01-Feb-17	Fine	13:39	62.0	55.5	61
01-Feb-17	Fine	13:44	60.5	55.5	
01-Feb-17	Fine	13:49	60.0	55.5	
01-Feb-17	Fine	13:54	59.5	55.0	
01-Feb-17	Fine	13:59	62.0	55.5	
01-Feb-17	Fine	14:04	60.5	55.5	
07-Feb-17	Cloudy	14:40	62.5	59.0	64
07-Feb-17	Cloudy	14:45	63.0	59.5	
07-Feb-17	Cloudy	14:50	62.5	58.5	
07-Feb-17	Cloudy	14:55	62.0	58.5	
07-Feb-17	Cloudy	15:00	62.5	58.0	
07-Feb-17	Cloudy	15:05	62.5	58.5	
13-Feb-17	Sunny	14:08	67.5	61.0	60
13-Feb-17	Sunny	14:13	71.0	62.0	
13-Feb-17	Sunny	14:18	66.5	59.5	
13-Feb-17	Sunny	14:23	63.0	58.5	
13-Feb-17	Sunny	14:28	63.0	59.5	
13-Feb-17	Sunny	14:33	64.0	58.5	
23-Feb-17	Cloudy	13:30	62.5	58.5	64
23-Feb-17	Cloudy	13:35	63.0	58.5	
23-Feb-17	Cloudy	13:40	63.5	59.0	
23-Feb-17	Cloudy	13:45	63.5	58.5	
23-Feb-17	Cloudy	13:50	63.0	58.5	
23-Feb-17	Cloudy	13:55	62.5	58.5	

Remarks:
+3dB (A) correction was applied to free-field measurement

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
02-Feb-17	Cloudy	09:31	56.5	47.0	56
02-Feb-17	Cloudy	09:36	56.0	45.5	
02-Feb-17	Cloudy	09:41	57.0	46.5	
02-Feb-17	Cloudy	09:46	55.5	43.5	
02-Feb-17	Cloudy	09:51	57.0	45.5	
02-Feb-17	Cloudy	09:56	55.0	47.0	
08-Feb-17	Cloudy	09:20	57.5	49.5	58
08-Feb-17	Cloudy	09:25	58.0	48.0	
08-Feb-17	Cloudy	09:30	60.0	47.0	
08-Feb-17	Cloudy	09:35	56.0	48.5	
08-Feb-17	Cloudy	09:40	55.5	49.5	
08-Feb-17	Cloudy	09:45	54.0	47.5	
14-Feb-17	Sunny	09:20	61.0	51.0	57
14-Feb-17	Sunny	09:25	58.5	51.0	
14-Feb-17	Sunny	09:30	61.0	51.0	
14-Feb-17	Sunny	09:35	60.0	50.0	
14-Feb-17	Sunny	09:40	62.0	48.5	
14-Feb-17	Sunny	09:45	56.0	48.5	
20-Feb-17	Cloudy	09:20	57.5	49.5	58
20-Feb-17	Cloudy	09:25	58.0	50.5	
20-Feb-17	Cloudy	09:30	60.5	49.0	
20-Feb-17	Cloudy	09:35	57.0	47.0	
20-Feb-17	Cloudy	09:40	55.0	46.5	
20-Feb-17	Cloudy	09:45	56.0	48.0	

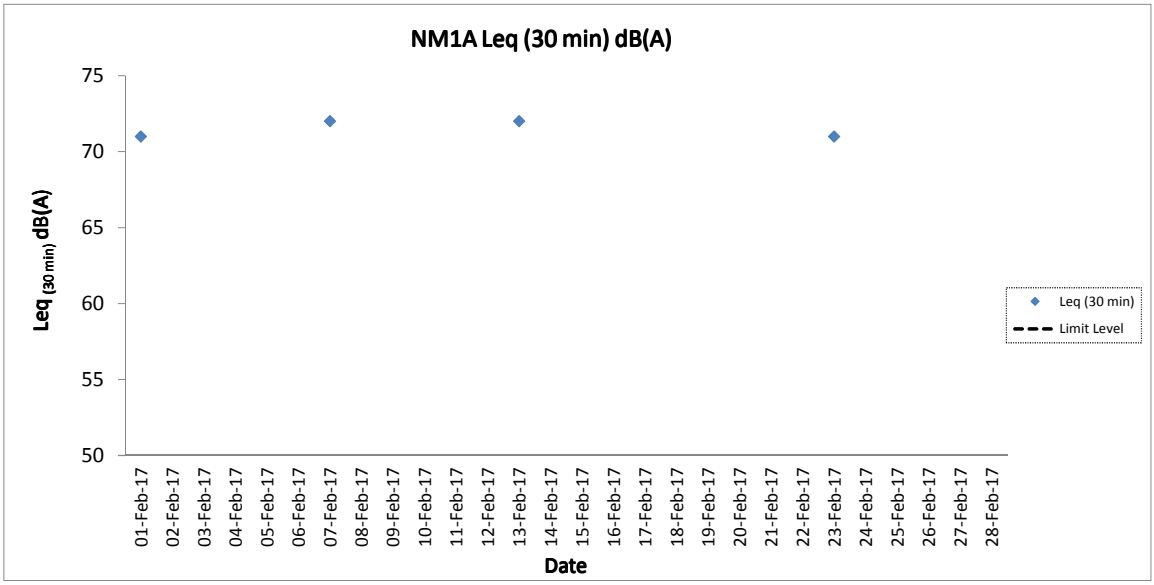
Remarks:
+3dB (A) correction was applied to free-field measurement

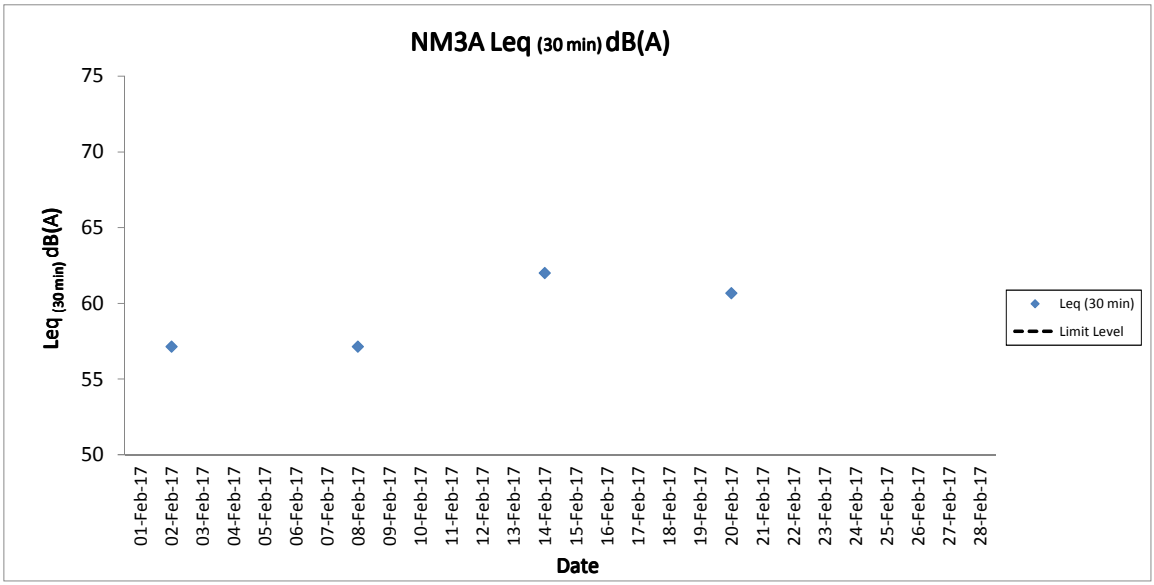
Noise Measurement Results

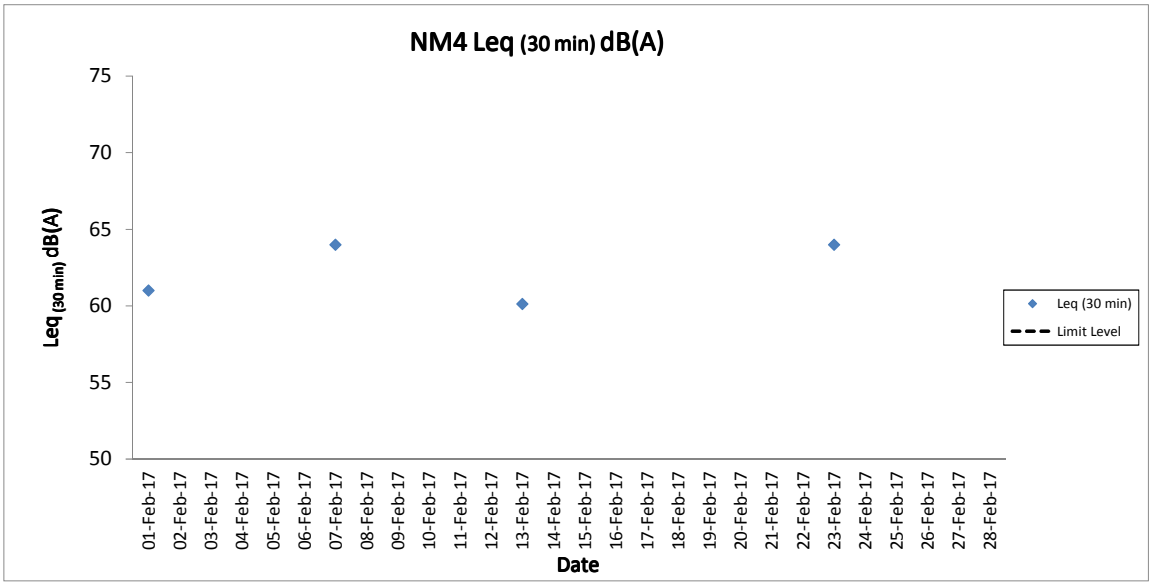
Station: NM6- House No.1 Sha Lo Wan

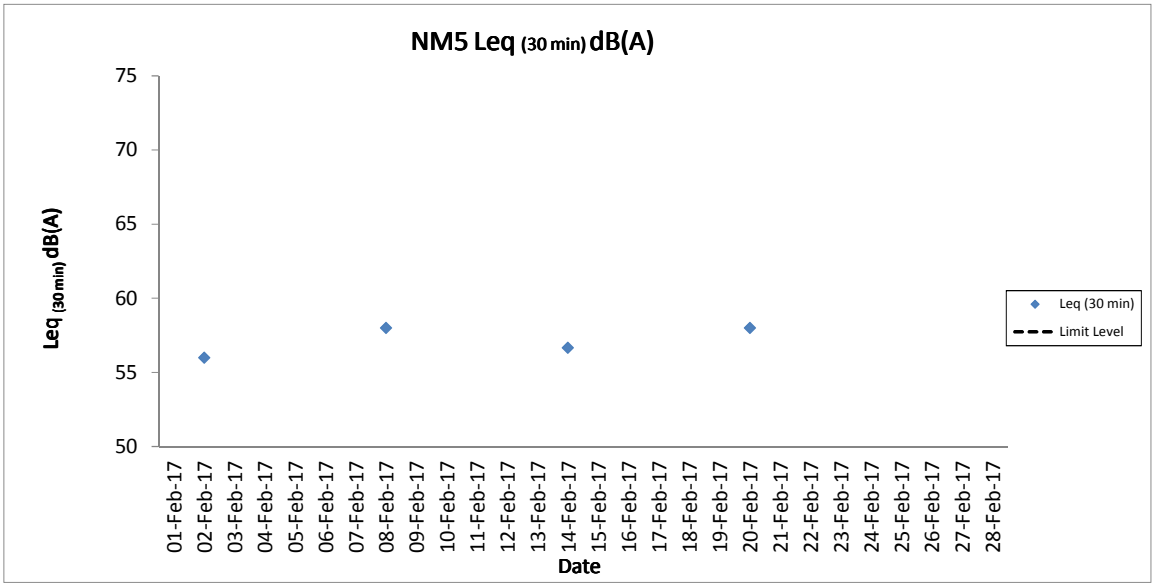
Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
01-Feb-17	Fine	09:40	71.0	58.5	71
01-Feb-17	Fine	09:45	74.0	58.0	
01-Feb-17	Fine	09:50	78.0	59.5	
01-Feb-17	Fine	09:55	78.0	56.0	
01-Feb-17	Fine	10:00	70.0	54.5	
01-Feb-17	Fine	10:05	75.0	55.0	
06-Feb-17	Sunny	09:40	67.5	56.5	62
06-Feb-17	Sunny	09:45	67.5	56.0	
06-Feb-17	Sunny	09:50	67.5	52.0	
06-Feb-17	Sunny	09:55	68.5	55.5	
06-Feb-17	Sunny	10:00	72.5	56.0	
06-Feb-17	Sunny	10:05	67.5	55.5	
16-Feb-17	Sunny	09:41	76.5	54.0	70
16-Feb-17	Sunny	09:46	75.5	53.0	
16-Feb-17	Sunny	09:51	74.5	51.0	
16-Feb-17	Sunny	09:56	68.0	48.5	
16-Feb-17	Sunny	10:01	73.0	51.0	
16-Feb-17	Sunny	10:06	72.5	55.0	
20-Feb-17	Cloudy	09:37	71.5	59.0	62
20-Feb-17	Cloudy	09:42	62.0	56.0	
20-Feb-17	Cloudy	09:47	72.0	58.5	
20-Feb-17	Cloudy	09:52	67.5	56.5	
20-Feb-17	Cloudy	09:57	67.0	55.5	
20-Feb-17	Cloudy	10:02	65.0	55.5	
28-Feb-17	Fine	09:36	68.5	55.0	62
28-Feb-17	Fine	09:41	72.5	56.5	
28-Feb-17	Fine	09:46	68.0	58.0	
28-Feb-17	Fine	09:51	71.5	56.0	
28-Feb-17	Fine	09:56	65.5	57.0	
28-Feb-17	Fine	10:01	71.0	59.5	

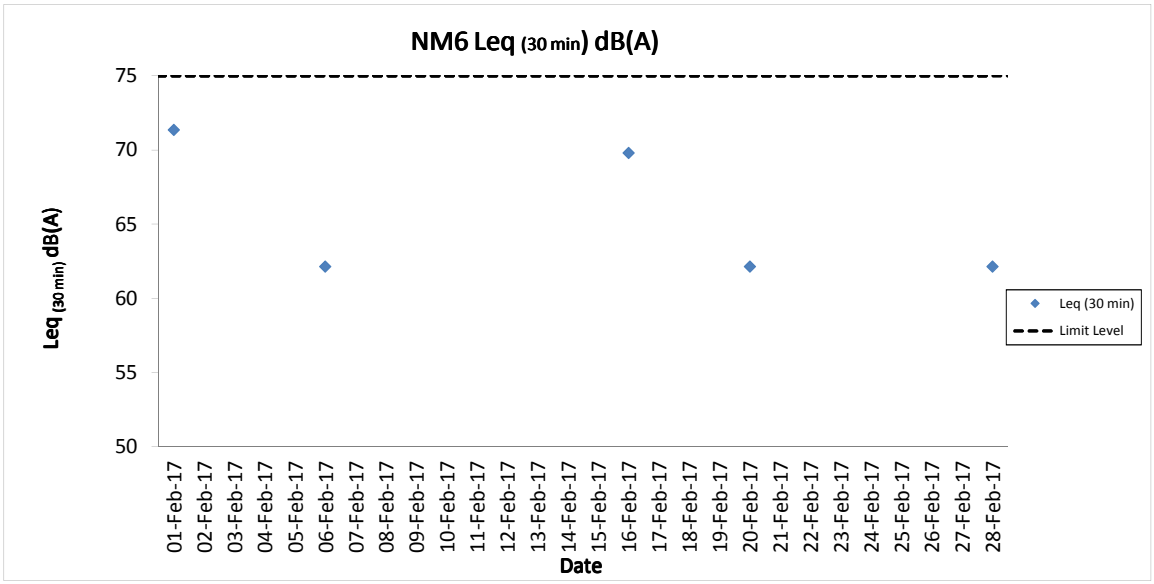
Remarks:
+3dB (A) correction was applied to free-field measurement


NM1A Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-Feb-17
02-Feb-17
03-Feb-17
04-Feb-17
05-Feb-17
06-Feb-17
07-Feb-17
08-Feb-17
09-Feb-17
10-Feb-17
11-Feb-17
12-Feb-17
13-Feb-17
14-Feb-17
15-Feb-17
16-Feb-17
17-Feb-17
18-Feb-17
19-Feb-17
20-Feb-17
21-Feb-17
22-Feb-17
23-Feb-17
24-Feb-17
25-Feb-17
26-Feb-17
27-Feb-17
28-Feb-17
Date
Leq (30 min)
Limit Level


NM3A Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-Feb-17
02-Feb-17
03-Feb-17
04-Feb-17
05-Feb-17
06-Feb-17
07-Feb-17
08-Feb-17
09-Feb-17
10-Feb-17
11-Feb-17
12-Feb-17
13-Feb-17
14-Feb-17
15-Feb-17
16-Feb-17
17-Feb-17
18-Feb-17
19-Feb-17
20-Feb-17
21-Feb-17
22-Feb-17
23-Feb-17
24-Feb-17
25-Feb-17
26-Feb-17
27-Feb-17
28-Feb-17
Date
Leq (30 min)
Limit Level


NM4 Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-Feb-17
02-Feb-17
03-Feb-17
04-Feb-17
05-Feb-17
06-Feb-17
07-Feb-17
08-Feb-17
09-Feb-17
10-Feb-17
11-Feb-17
12-Feb-17
13-Feb-17
14-Feb-17
15-Feb-17
16-Feb-17
17-Feb-17
18-Feb-17
19-Feb-17
20-Feb-17
21-Feb-17
22-Feb-17
23-Feb-17
24-Feb-17
25-Feb-17
26-Feb-17
27-Feb-17
28-Feb-17
Date
Leq (30 min)
Limit Level


NM5 Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-Feb-17
02-Feb-17
03-Feb-17
04-Feb-17
05-Feb-17
06-Feb-17
07-Feb-17
08-Feb-17
09-Feb-17
10-Feb-17
11-Feb-17
12-Feb-17
13-Feb-17
14-Feb-17
15-Feb-17
16-Feb-17
17-Feb-17
18-Feb-17
19-Feb-17
20-Feb-17
21-Feb-17
22-Feb-17
23-Feb-17
24-Feb-17
25-Feb-17
26-Feb-17
27-Feb-17
28-Feb-17
Date
Leq (30 min)
Limit Level


NM6 Leq (30 min) dB(A)
Leq (30 min) dB(A)
75
70
65
60
55
50
01-Feb-17
02-Feb-17
03-Feb-17
04-Feb-17
05-Feb-17
06-Feb-17
07-Feb-17
08-Feb-17
09-Feb-17
10-Feb-17
11-Feb-17
12-Feb-17
13-Feb-17
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15-Feb-17
16-Feb-17
17-Feb-17
18-Feb-17
19-Feb-17
20-Feb-17
21-Feb-17
22-Feb-17
23-Feb-17
24-Feb-17
25-Feb-17
26-Feb-17
27-Feb-17
28-Feb-17
Date
Leq (30 min)
Limit Level

Water Quality Monitoring Results

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 02 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	11:06	8.6	Surface	1.0	0.7	62	18.9	18.9	8.0	8.0	29.3	29.3	93.1	93.1	7.3	7.3	8.6	13.7	14	26	82	83	815609	804233	<0.2	<0.2	0.7	0.7
						1.0	0.7	65	18.8		8.0		29.3		93.1		7.3		8.6		12		82				<0.2		0.8	
					Middle	4.3	0.6	55	18.8	18.9	8.0	8.0	29.3	29.3	93.2	93.2	7.3		12.5		26		83				<0.2		0.7	
						4.3	0.6	60	18.9		8.0		29.3		93.2		7.3		12.5		28		83				<0.2		0.7	
					Bottom	7.6	0.5	72	18.8	18.8	8.0	8.0	29.5	29.5	95.5	95.6	7.5	7.5	20.1		38		84				<0.2		0.6	
						7.6	0.5	74	18.8		8.0		29.5		95.6		7.5		20.0		38		84				<0.2		0.6	
C2	Cloudy	Moderate	11:28	12.4	Surface	1.0	0.5	144	19.3	19.3	7.9	7.9	27.0	27.0	89.7	89.7	7.0	7.0	6.9	10.3	6	8	83	83	825687	806952	<0.2	<0.2	2.0	1.9
						1.0	0.5	158	19.3		7.9		27.0		89.7		7.0		6.9		5		83				<0.2		2.0	
					Middle	6.2	0.5	79	19.4	19.4	7.9	7.9	27.6	27.6	89.6	89.6	7.0		9.9		5		82				<0.2		2.0	
						6.2	0.5	80	19.4		7.9		27.6		89.6		7.0		9.9		5		82				<0.2		1.8	
					Bottom	11.4	0.5	111	19.4	19.4	7.9	7.9	27.7	27.7	93.1	93.2	7.3	7.3	14.1		12		84				<0.2		2.0	
						11.4	0.5	119	19.4		7.9		27.7		93.2		7.3		14.1		14		85				<0.2		1.8	
C3	Cloudy	Moderate	09:49	11.6	Surface	1.0	0.6	259	19.3	19.3	7.9	7.9	28.9	28.9	89.4	89.4	7.0	6.9	9.3	16.1	7	17	80	82	822122	817803	<0.2	<0.2	1.7	1.5
						1.0	0.7	284	19.3		7.9		28.9		89.3		6.9		9.4		6		80				<0.2		1.4	
					Middle	5.8	0.5	269	19.3	19.3	7.9	7.9	29.2	29.3	87.6	87.6	6.8		15.9		22		83				<0.2		1.5	
						5.8	0.5	280	19.3		7.9		29.3		87.6		6.8		16.0		22		83				<0.2		1.5	
					Bottom	10.6	0.4	267	19.3	19.3	7.9	7.9	29.3	29.3	87.6	87.6	6.8	6.8	23.1		21		84				<0.2		1.3	
						10.6	0.4	281	19.3		7.9		29.3		87.6		6.8		23.1		21		83				<0.2		1.5	
IM1	Cloudy	Moderate	11:24	7.8	Surface	1.0	0.6	66	19.0	19.0	8.0	8.0	28.7	28.7	91.0	91.0	7.1	7.1	7.6	14.2	12	21	80	82	818339	806459	<0.2	<0.2	1.2	1.3
						1.0	0.6	71	19.0		8.0		28.7		91.0		7.1		7.6		11		81				<0.2		1.2	
					Middle	3.9	0.5	118	19.0	19.0	8.0	8.0	28.8	28.8	91.3	91.3	7.1		11.1		12		82				<0.2		1.4	
						3.9	0.5	119	19.0		8.0		28.8		91.3		7.1		11.0		12		82				<0.2		1.4	
					Bottom	6.8	0.4	132	19.0	19.0	8.0	8.0	29.1	29.1	93.5	93.5	7.3	7.3	23.9		39		83				<0.2		1.0	
						6.8	0.5	133	19.0		8.0		29.1		93.5		7.3		23.9		40		83				<0.2		1.3	
IM2	Cloudy	Moderate	11:30	8.5	Surface	1.0	0.5	119	19.0	19.0	8.0	8.0	28.6	28.6	90.8	90.8	7.1	7.1	14.1	14.4	22	27	82	83	818843	806205	<0.2	<0.2	1.6	1.4
						1.0	0.5	120	19.0		8.0		28.6		90.8		7.1		14.1		23		82				<0.2		1.4	
					Middle	4.3	0.5	154	19.0	19.0	8.0	8.0	28.6	28.6	91.4	91.4	7.1		15.0		29		83				<0.2		1.5	
						4.3	0.5	159	19.0		8.0		28.6		91.4		7.1		14.9		28		83				<0.2		1.4	
					Bottom	7.5	0.5	143	19.0	19.0	8.0	8.0	28.6	28.6	95.2	95.3	7.4	7.4	14.2		28		83				<0.2		1.4	
						7.5	0.5	153	19.0		8.0		28.6		95.3		7.4		14.0		29		83				<0.2		1.3	
IM3	Cloudy	Moderate	11:37	8.7	Surface	1.0	0.4	60	19.0	19.0	8.0	8.0	28.6	28.6	90.3	90.4	7.1	7.1	17.5	19.7	31	32	82	83	819413	806000	<0.2	<0.2	1.4	1.5
						1.0	0.4	60	19.0		8.0		28.6		90.4		7.1		17.6		31		82				<0.2		1.7	
					Middle	4.4	0.4	47	19.0	19.0	8.0	8.0	28.6	28.6	91.0	91.0	7.1		20.2		29		83				<0.2		1.4	
						4.4	0.5	50	19.0		8.0		28.6		91.0		7.1		20.2		30		83				<0.2		1.6	
					Bottom	7.7	0.4	56	19.0	19.0	8.0	8.0	28.6	28.6	93.3	93.4	7.3	7.3	21.3		34		84				<0.2		1.6	
						7.7	0.4	59	19.0		8.0		28.6		93.4		7.3		21.2		34		84				<0.2		1.4	
IM4	Cloudy	Moderate	11:47	8.2	Surface	1.0	0.6	113	19.0	19.0	8.0	8.0	28.7	28.7	90.2	90.2	7.1	7.1	22.8	27.2	34	**44**	82	83	819564	805048	<0.2	<0.2	1.4	1.4
						1.0	0.6	116	19.0		8.0		28.7		90.2		7.1		22.8		34		82				<0.2		1.5	
					Middle	4.1	0.5	104	19.0	19.0	8.0	8.0	28.7	28.7	90.2	90.2	7.1		27.3		37		83				<0.2		1.4	
						4.1	0.6	113	19.0		8.0		28.7		90.2		7.1		27.2		39		82				<0.2		1.3	
					Bottom	7.2	0.5	125	19.0	19.0	8.0	8.0	28.7	28.7	90.3	90.3	7.1	7.1	31.8		58		83				<0.2		1.3	
						7.2	0.6	135	19.0		8.0		28.7		90.3		7.1		31.5		63		83				<0.2		1.4	
IM5	Cloudy	Moderate	11:57	7.1	Surface	1.0	0.5	81	19.0	19.0	8.0	8.0	28.5	28.5	88.9	88.9	6.9	6.9	16.2	22.7	25	35	78	79	820562	804915	<0.2	<0.2	1.5	1.5
						1.0	0.5	88	19.0		8.0		28.5		88.9		7.0		16.2		26		78				<0.2		1.3	
					Middle	3.6	0.5	86	19.1	19.1	8.0	8.0	28.5	28.5	88.7	88.7	6.9		22.3		40		79				<0.2		1.5	
						3.6	0.6	94	19.1		8.0		28.5		88.7		6.9		22.4		39		79				<0.2		1.6	
					Bottom	6.1	0.5	84	19.1	19.1	8.0	8.0	28.5	28.5	88.4	88.4	6.9	6.9	29.4		40		80				<0.2		1.6	
						6.1	0.6	91	19.1		8.0		28.5		88.4		6.9		29.5		39		80				<0.2		1.6	
IM6	Cloudy	Moderate	12:08	7.1	Surface	1.0	0.6	88	19.1	19.1	7.9	7.9	28.3	28.3	89.1	89.2	7.0	7.1	12.6	15.0	20	27	80	82	821075	805823	<0.2	<0.2	1.0	1.0
						1.0	0.6	93	19.1		7.9		28.3		89.2		7.0		12.7		19		81				<0.2		1.1	
					Middle	3.6	0.6	90	19.1	19.1	7.9	7.9	28.3	28.3	91.1	91.2	7.1		17.6		29		82				<0.2		1.0	
						3.6	0.6	93	19.1		7.9		28.3		91.2		7.1		17.5		31		81				<0.2		1.1	
					Bottom	6.1	0.5	106	19.0	19.0	8.0	8.0	28.9	28.9	95.4	95.5	7.5	7.5	14.9		32		82				<0.2		0.9	
						6.1	0.5	114	19.0		8.0		28.9		95.5		7.5		14.7		30		83				<0.2		0.8	
IM7	Cloudy	Moderate	12:15	8.8	Surface	1.0	0.6	53	19.1	19.1	8.0	8.0	28.4	28.4	91.7	91.8	7.2	7.3	10.7	11.3	12	18	80	81	821334	806843	<0.2	<0.2	1.1	1.0
						1.0	0.6	56	19.1		8.0		28.4		91.8		7.2		10.7		14		80				<0.2		1.0	
					Middle	4.4	0.5	71	19.1	19.1	8.0	8.0	28.5	28.5	93.4	93.5	7.3		11.5		16		81				<0.2		1.2	
						4.4	0.6	72	19.1		8.0		28.5		93.5		7.3		11.6		17		81				<0.2		1.1	
					Bottom	7.8	0.4	88	19.0	19.0	8.0	8.0	28.9	28.9	96.5	96.6	7.5	7.5	11.8		24		82				<0.2		0.8	
						7.8	0.4	89	19.0		8.0		28.9		96.6		7.5		11.7		22		83				<0.2		0.8	
IM8	Cloudy	Moderate	11:01	8.5	Surface	1.0	0.3	199	19.4	19.4	7.9	7.9	27.6	27.6	90.7	90.7	7.1	7.1	8.3	9.7	7	9	80	82	821683	807833	<0.2	<0.2	1.7	1.5
						1.0	0.4	207	19.4		7.9		27.6		90.7		7.1		8.4		6		79				<0.2		1.5	
					Middle	4.3	0.3	181	19.4	19.4	7.9	7.9	27.7	27.7	91.0	91.0	7.1		8.7		8		83				<0.2		1.4	
						4.3	0.3	181	19.4		7.9		27.7		91.0		7.1		8.8		7		83				<0.2		1.4	
					Bottom	7.5	0.4	152	19.4	19.4	7.9	7.9	28.0	28.0	94.4	94.4	7.4	7.4	11.9		13		84				<0.2		1.5	
						7.5	0.4	161	19.4		7.9		28.0		94.4		7.4		11.9		12		84				<0.2		1.3	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 02 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:54	7.3	Surface	1.0	0.5	235	19.3	19.3	7.9	7.9	28.4	28.4	90.5	90.5	7.1	7.1	13.0	13.0	15	15	80	82	822105	808798	<0.2	<0.2	1.2	1.2
						1.0	0.5	242	19.3		7.9		28.4		90.5		7.1		13.0		15		80				<0.2		1.2	
					Middle	3.7	0.6	226	19.4	19.4	7.9	7.9	28.4	28.4	91.1	91.1	7.1		13.0		15		83				<0.2		1.0	
						3.7	0.6	238	19.4		7.9		28.4		91.1		7.1		13.0		14		83				<0.2		1.1	
					Bottom	6.3	0.5	235	19.3	19.3	7.9	7.9	28.4	28.4	92.6	92.6	7.2	7.2	13.0		16		84				<0.2		1.4	
						6.3	0.6	252	19.3		7.9		28.4		92.6		7.2		13.0		17		84				<0.2		1.2	
IM10	Cloudy	Moderate	10:46	8.4	Surface	1.0	0.6	266	19.2	19.2	8.0	8.0	28.8	28.8	91.9	92.0	7.2	7.2	17.8	20.0	22	24	79	82	822245	809850	<0.2	<0.2	1.1	1.1
						1.0	0.6	279	19.2		8.0		28.8		92.0		7.2		17.8		21		79				<0.2		1.1	
					Middle	4.2	0.5	269	19.2	19.2	8.0	8.0	28.8	28.8	92.0	92.0	7.2		19.6		23		83				<0.2		1.0	
						4.2	0.5	277	19.2		8.0		28.8		92.0		7.2		19.6		21		84				<0.2		1.0	
					Bottom	7.4	0.5	263	19.2	19.2	8.0	8.0	28.8	28.8	93.7	93.7	7.3	7.3	22.7		27		84				<0.2		1.0	
						7.4	0.5	264	19.2		8.0		28.8		93.7		7.3		22.7		27		84				<0.2		1.1	
IM11	Cloudy	Moderate	10:37	8.9	Surface	1.0	0.5	284	19.3	19.3	8.0	8.0	28.9	28.9	90.9	90.9	7.1	7.1	18.9	20.6	21	22	80	83	821516	810528	<0.2	<0.2	1.1	1.1
						1.0	0.5	307	19.3		8.0		28.9		90.9		7.1		18.8		20		79				<0.2		1.1	
					Middle	4.5	0.5	288	19.3	19.3	8.0	8.0	28.9	28.9	90.7	90.7	7.1		21.9		20		84				<0.2		1.0	
						4.5	0.5	297	19.3		8.0		28.9		90.7		7.1		22.0		21		84				<0.2		1.0	
					Bottom	7.9	0.5	285	19.3	19.3	8.0	8.0	29.0	29.0	90.9	90.9	7.1	7.1	21.1		24		84				<0.2		1.2	
						7.9	0.5	285	19.3		8.0		29.0		90.9		7.1		21.1		24		84				<0.2		1.0	
IM12	Cloudy	Moderate	10:29	7.4	Surface	1.0	0.8	277	19.2	19.2	8.0	8.0	28.9	28.9	91.2	91.2	7.1	7.1	16.2	20.2	16	20	79	82	821148	811509	<0.2	<0.2	1.1	1.2
						1.0	0.8	279	19.2		8.0		28.9		91.2		7.1		16.3		18		79				<0.2		1.0	
					Middle	3.7	0.7	279	19.2	19.2	8.0	8.0	29.0	29.0	91.0	91.0	7.1		19.6		16		83				<0.2		1.3	
						3.7	0.7	305	19.2		8.0		29.0		91.0		7.1		19.6		18		82				<0.2		1.3	
					Bottom	6.4	0.6	275	19.2	19.2	7.9	7.9	29.1	29.1	92.4	92.4	7.2	7.2	24.7		27		84				<0.2		1.1	
						6.4	0.6	293	19.2		7.9		29.1		92.4		7.2		24.6		27		84				<0.2		1.1	
SR2	Cloudy	Moderate	10:09	4.6	Surface	1.0	0.2	231	19.2	19.2	8.0	8.0	29.0	29.0	91.5	91.5	7.1	7.1	19.9	20.7	24	24	80	82	821454	814152	<0.2	<0.2	1.3	1.1
						1.0	0.2	240	19.2		8.0		29.0		91.5		7.1		19.9		23		79				<0.2		1.0	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	259	19.2	19.2	8.0	8.0	29.0	29.0	92.5	92.5	7.2	7.2	21.4		25		84				<0.2		1.0	
						3.6	0.2	272	19.2		8.0		29.0		92.5		7.2		21.4		25		84				<0.2		1.1	
SR3	Cloudy	Moderate	11:06	9.9	Surface	1.0	0.6	119	19.4	19.4	7.9	7.9	27.4	27.4	89.7	89.7	7.0	7.0	12.6	15.5	8	12	-	-	822162	807585	-	-	-	-
						1.0	0.7	125	19.4		7.9		27.4		89.7		7.0		12.6		8		-				-		-	
					Middle	5.0	0.7	118	19.4	19.4	7.9	7.9	27.6	27.6	89.8	89.8	7.0		15.2		8		-				-		-	
						5.0	0.7	127	19.4		7.9		27.6		89.8		7.0		15.1		9		-				-		-	
					Bottom	8.9	0.7	111	19.4	19.4	7.9	7.9	27.7	27.7	95.6	95.6	7.5	7.5	18.6		19		-				-		-	
						8.9	0.8	117	19.4		7.9		27.7		95.6		7.5		18.6		20		-				-		-	
SR4A	Cloudy	Moderate	10:43	8.1	Surface	1.0	0.3	203	19.1	19.1	7.9	7.9	28.9	28.9	90.3	90.4	7.0	7.1	12.8	13.6	21	22	-	-	817183	807815	-	-	-	-
						1.0	0.3	209	19.1		7.9		28.9		90.4		7.0		12.8		21		-				-		-	
					Middle	4.1	0.3	194	19.1	19.1	7.9	7.9	28.9	28.9	91.6	91.7	7.1		13.5		21		-				-		-	
						4.1	0.3	201	19.1		7.9		28.9		91.7		7.1		13.5		21		-				-		-	
					Bottom	7.1	0.3	183	19.1	19.1	7.9	7.9	29.0	29.0	94.2	94.3	7.3	7.3	14.3		23		-				-		-	
						7.1	0.3	184	19.1		7.9		29.0		94.3		7.3		14.4		24		-				-		-	
SR5A	Cloudy	Calm	10:25	4.2	Surface	1.0	0.2	293	19.1	19.1	7.9	7.9	28.8	28.8	90.5	90.5	7.1	7.1	8.7	8.5	13	15	-	-	816588	810704	-	-	-	-
						1.0	0.2	321	19.1		7.9		28.8		90.5		7.1		8.3		15		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	299	19.1	19.1	7.9	7.9	28.8	28.8	93.2	93.3	7.3	7.3	8.5		16		-				-		-	
						3.2	0.2	310	19.1		7.9		28.8		93.3		7.3		8.5		16		-				-		-	
SR6	Cloudy	Calm	10:01	3.9	Surface	1.0	0.2	228	19.1	19.1	7.8	7.8	28.5	28.5	91.0	91.0	7.1	7.1	6.6	7.1	11	16	-	-	817899	814648	-	-	-	-
						1.0	0.2	239	19.1		7.8		28.5		91.0		7.1		6.7		10		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	222	19.1	19.1	7.8	7.8	28.4	28.4	95.8	95.9	7.5	7.5	7.6		21		-				-		-	
						2.9	0.2	227	19.1		7.8		28.4		96.0		7.5		7.6		21		-				-		-	
SR7	Cloudy	Moderate	09:12	17.2	Surface	1.0	0.2	234	19.3	19.3	7.9	7.9	29.2	29.2	88.1	88.1	6.8	6.8	8.1	8.4	6	7	-	-	823653	823741	-	-	-	-
						1.0	0.2	241	19.3		7.9		29.2		88.1		6.8		8.1		6		-				-		-	
					Middle	8.6	0.2	226	19.3	19.3	7.9	7.9	29.3	29.3	88.1	88.1	6.8		8.3		7		-				-		-	
						8.6	0.3	231	19.3		7.9		29.3		88.1		6.8		8.1		6		-				-		-	
					Bottom	16.2	0.3	239	19.3	19.3	7.9	7.9	29.4	29.4	88.5	88.5	6.9	6.9	9.0		8		-				-		-	
						16.2	0.3	247	19.3		7.9		29.4		88.5		6.9		9.0		8		-				-		-	
SR8	Cloudy	Moderate	10:23	5.0	Surface	1.0	0.3	230	19.7	19.7	7.9	7.9	28.7	28.7	93.9	93.9	7.3	7.3	12.3	13.1	12	13	-	-	820431	811582	-	-	-	-
						1.0	0.3	231	19.7		7.9		28.7		93.9		7.3		12.3		12		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.2	270	19.3	19.3	7.9	7.9	28.9	28.9	95.0	95.0	7.4	7.4	13.9		14		-				-		-	
						4.0	0.3	294	19.3		7.9		28.9		95.0		7.4		13.9		14		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 02 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	17:10	8.7	Surface	1.0	0.5	206	15.7	15.7	8.2	8.2	30.4	30.4	94.6	94.7	7.8	7.8	9.3	13.5	14	25	83	84	815635	804260	<0.2	<0.2	0.8	0.7
						1.0	0.6	208	15.7		8.2		30.4		94.7		7.8		9.4		14		83				<0.2		0.8	
					Middle	4.4	0.5	205	15.6	15.6	8.2	8.2	30.4	30.4	94.6	94.6	7.8		13.5		18		84				<0.2		0.6	
						4.4	0.5	206	15.6		8.2		30.4		94.6		7.8		13.5		20		84				<0.2		0.7	
					Bottom	7.7	0.5	208	15.6	15.6	8.2	8.2	30.4	30.4	96.5	96.6	8.0	8.0	17.5		42		84				<0.2		0.7	
						7.7	0.5	208	15.6		8.2		30.4		96.6		8.0		17.5		41		85				<0.2		0.5	
C2	Cloudy	Moderate	15:16	11.2	Surface	1.0	0.4	150	19.4	19.4	7.9	7.9	27.4	27.4	90.1	90.1	7.0	7.0	11.8	20.5	12	16	80	82	825700	806960	<0.2	<0.2	2.0	2.0
						1.0	0.4	155	19.4		7.9		27.4		90.1		7.0		11.8		11		79				<0.2		1.9	
					Middle	5.6	0.4	127	19.4	19.4	7.9	7.9	27.8	27.8	89.5	89.5	7.0		21.6		13		81				<0.2		2.1	
						5.6	0.4	132	19.4		7.9		27.8		89.5		7.0		21.5		11		82				<0.2		1.8	
					Bottom	10.2	0.2	190	19.3	19.3	7.9	7.9	28.5	28.5	91.0	91.0	7.1	7.1	28.6		25		84				<0.2		2.1	
						10.2	0.3	192	19.3		7.9		28.5		91.0		7.1		27.9		26		84				<0.2		2.2	
C3	Cloudy	Moderate	16:55	12.6	Surface	1.0	0.5	94	19.3	19.3	7.9	7.9	29.2	29.2	88.3	88.3	6.9	6.9	8.9	12.7	7	9	80	83	822100	817815	<0.2	<0.2	0.9	1.0
						1.0	0.6	96	19.3		7.9		29.2		88.3		6.9		8.9		9		81				<0.2		0.8	
					Middle	6.3	0.5	94	19.3	19.3	7.9	7.9	29.4	29.4	87.4	87.4	6.8		10.1		7		82				<0.2		1.0	
						6.3	0.5	94	19.3		7.9		29.4		87.4		6.8		10.2		9		83				<0.2		1.0	
					Bottom	11.6	0.4	138	19.2	19.2	7.9	7.9	29.6	29.6	87.4	87.4	6.8	6.8	19.0		10		84				<0.2		1.2	
						11.6	0.4	144	19.2		7.9		29.6		87.4		6.8		19.0		12		85				<0.2		1.0	
IM1	Cloudy	Moderate	16:51	7.7	Surface	1.0	0.5	176	15.9	15.9	8.2	8.2	29.6	29.6	93.7	93.7	7.8	7.8	7.8	11.7	12	21	83	84	818365	806450	<0.2	<0.2	0.7	0.7
						1.0	0.5	187	15.9		8.2		29.6		93.7		7.8		7.8		14		83				<0.2		0.7	
					Middle	3.9	0.4	177	15.8	15.8	8.2	8.2	29.9	29.9	94.2	94.2	7.8		10.2		17		84				<0.2		0.6	
						3.9	0.4	192	15.8		8.2		29.9		94.2		7.8		10.2		18		83				<0.2		0.8	
					Bottom	6.7	0.4	183	15.7	15.7	8.2	8.2	30.0	30.0	95.4	95.5	7.9	7.9	17.1		30		84				<0.2		0.8	
						6.7	0.4	193	15.7		8.2		30.0		95.5		7.9		17.2		32		85				<0.2		0.7	
IM2	Cloudy	Moderate	16:45	8.5	Surface	1.0	0.4	194	15.9	15.9	8.2	8.2	29.4	29.4	93.1	93.1	7.7	7.8	7.5	10.5	13	20	82	83	818841	806191	<0.2	<0.2	1.1	0.9
						1.0	0.4	204	15.9		8.2		29.4		93.1		7.7		7.5		13		83				<0.2		0.9	
					Middle	4.3	0.4	179	15.8	15.8	8.2	8.2	29.6	29.6	93.8	93.9	7.8		9.8		18		83				<0.2		0.7	
						4.3	0.4	179	15.8		8.2		29.6		93.9		7.8		9.9		16		83				<0.2		0.9	
					Bottom	7.5	0.4	161	15.7	15.7	8.2	8.2	29.8	29.8	94.3	94.4	7.8	7.8	14.0		31		84				<0.2		0.7	
						7.5	0.4	175	15.7		8.2		29.8		94.4		7.8		14.1		31		84				<0.2		0.8	
IM3	Cloudy	Moderate	16:36	8.8	Surface	1.0	0.4	205	16.0	16.0	8.2	8.2	28.8	28.8	94.1	94.1	7.8	7.8	4.5	6.7	10	16	83	84	819425	806008	<0.2	<0.2	1.1	1.1
						1.0	0.4	211	16.0		8.2		28.8		94.1		7.8		4.5		11		83				<0.2		1.2	
					Middle	4.4	0.4	175	15.9	15.9	8.2	8.2	29.0	29.0	94.6	94.6	7.8		5.6		12		83				<0.2		1.1	
						4.4	0.4	188	15.9		8.2		29.0		94.6		7.8		5.6		12		84				<0.2		1.0	
					Bottom	7.8	0.5	158	15.8	15.8	8.2	8.2	29.4	29.4	95.3	95.3	7.9	7.9	9.8		23		84				<0.2		1.0	
						7.8	0.5	165	15.8		8.2		29.4		95.3		7.9		9.9		25		84				<0.2		1.3	
IM4	Cloudy	Moderate	16:28	8.2	Surface	1.0	0.4	166	15.9	15.9	8.2	8.2	28.8	28.8	93.6	93.6	7.8	7.8	7.6	11.3	15	20	82	83	819582	805032	<0.2	<0.2	0.8	0.9
						1.0	0.4	180	15.9		8.2		28.8		93.6		7.8		7.7		14		82				<0.2		0.9	
					Middle	4.1	0.4	171	15.8	15.8	8.2	8.2	29.0	29.0	93.4	93.4	7.8		11.0		14		83				<0.2		1.0	
						4.1	0.4	173	15.8		8.2		29.0		93.4		7.8		11.1		14		83				<0.2		0.9	
					Bottom	7.2	0.3	184	15.8	15.8	8.2	8.2	29.3	29.3	94.7	94.8	7.9	7.9	15.4		29		84				<0.2		0.9	
						7.2	0.3	192	15.7		8.2		29.3		94.9		7.9		15.2		31		84				<0.2		1.0	
IM5	Cloudy	Moderate	16:21	7.2	Surface	1.0	0.4	174	15.9	15.9	8.2	8.2	28.6	28.6	93.7	93.7	7.8	7.8	6.8	13.6	15	22	81	82	820557	804913	<0.2	<0.2	1.0	0.9
						1.0	0.4	179	15.9		8.2		28.6		93.7		7.8		6.8		15		81				<0.2		1.3	
					Middle	3.6	0.4	175	15.8	15.8	8.2	8.2	28.7	28.7	93.3	93.3	7.8		11.9		21		81				<0.2		0.8	
						3.6	0.4	178	15.8		8.2		28.7		93.3		7.8		11.9		20		82				<0.2		0.7	
					Bottom	6.2	0.4	179	15.8	15.8	8.2	8.2	28.8	28.8	95.4	95.4	7.9	7.9	22.2		30		83				<0.2		0.9	
						6.2	0.4	192	15.8		8.2		28.8		95.4		7.9		22.2		30		83				<0.2		0.7	
IM6	Cloudy	Moderate	16:12	7.2	Surface	1.0	0.4	163	15.9	15.9	8.2	8.2	28.5	28.5	94.0	94.0	7.8	7.8	9.1	15.3	15	23	82	83	821063	805826	<0.2	<0.2	0.8	0.9
						1.0	0.4	175	15.9		8.2		28.5		94.0		7.8		9.1		14		82				<0.2		0.8	
					Middle	3.6	0.4	146	15.8	15.8	8.2	8.2	28.6	28.6	93.6	93.6	7.8		14.8		16		83				<0.2		0.9	
						3.6	0.4	155	15.8		8.2		28.6		93.6		7.8		14.8		16		83				<0.2		0.8	
					Bottom	6.2	0.3	147	15.8	15.8	8.2	8.2	28.5	28.5	95.6	95.6	8.0	8.0	22.0		39		84				<0.2		1.0	
						6.2	0.3	155	15.8		8.2		28.5		95.6		8.0		22.0		39		84				<0.2		1.2	
IM7	Cloudy	Moderate	16:00	8.6	Surface	1.0	0.4	96	15.9	15.9	8.3	8.3	28.0	28.0	92.8	92.8	7.8	7.8	10.3	15.2	15	26	80	81	821358	806839	<0.2	<0.2	1.1	1.0
						1.0	0.4	102	15.9		8.3		28.0		92.8		7.8		10.3		15		80				<0.2		1.0	
					Middle	4.3	0.4	102	15.9	15.9	8.3	8.3	27.9	27.9	92.8	92.8	7.8		15.0		25		81				<0.2		1.0	
						4.3	0.4	105	15.9		8.3		27.9		92.8		7.8		15.1		27		81				<0.2		0.7	
					Bottom	7.6	0.4	113	15.8	15.8	8.3	8.3	27.7	27.7	93.1	93.1	7.8	7.8	20.2		36		81				<0.2		1.0	
						7.6	0.4	113	15.8		8.3		27.7		93.1		7.8		20.3		39		82				<0.2		0.9	
IM8	Cloudy	Moderate	15:44	8.4	Surface	1.0	0.4	122	19.1	19.1	8.0	8.0	29.1	29.1	94.7	94.7	7.4	7.4	19.2	20.7	20	21	79	82	821700	807825	<0.2	<0.2	1.2	1.1
						1.0	0.5	123	19.1		8.0		29.1		94.7		7.4		19.2		21		79				<0.2		1.1	
					Middle	4.2	0.4	116	19.1	19.1	8.0	8.0	29.4	29.4	94.5	94.6	7.4		19.1		20		82				<0.2		0.9	
						4.2	0.4	122	19.1		8.0		29.4		94.6		7.4		19.0		20		82				<0.2		1.2	
					Bottom	7.4	0.4	99	19.0	19.0	8.0	8.0	29.5	29.5	94.3	94.3	7.3	7.3	23.7		23		84				<0.2		1.1	
						7.4	0.5	100	19.0		8.0		29.5		94.3		7.3		23.7		22		84				<0.2		1.2	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 02 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	15:53	7.6	Surface	1.0	0.5	128	19.2	19.2	8.0	8.0	29.0	29.0	93.8	93.8	7.3	7.3	15.7	20.3	17	18	78	82	822108	808792	<0.2	<0.2	1.0	1.1
						1.0	0.5	138	19.2		8.0		29.0		93.8		7.3		15.8		18		80				<0.2		1.1	
					Middle	3.8	0.5	123	19.2	19.2	8.0	8.0	29.0	29.0	93.7	93.7	7.3		17.5		18		82				<0.2		1.2	
						3.8	0.5	124	19.2		8.0		29.0		93.7		7.3		17.5		19		83				<0.2		1.1	
					Bottom	6.6	0.5	117	19.1	19.1	8.0	8.0	29.4	29.4	93.7	93.7	7.3	7.3	27.5		18		83				<0.2		1.1	
						6.6	0.5	125	19.1		8.0		29.4		93.7		7.3		27.5		18		84				<0.2		1.0	
IM10	Cloudy	Moderate	16:00	8.0	Surface	1.0	0.5	123	19.3	19.3	8.0	8.0	28.8	28.8	93.3	93.3	7.3	7.3	11.8	20.2	10	17	79	82	822224	809842	<0.2	<0.2	1.2	1.2
						1.0	0.5	130	19.3		8.0		28.8		93.3		7.3		11.9		8		78				<0.2		1.2	
					Middle	4.0	0.5	117	19.2	19.2	8.0	8.0	28.9	28.9	92.8	92.8	7.2		18.7		15		82				<0.2		1.3	
						4.0	0.6	126	19.2		8.0		28.9		92.8		7.2		18.7		13		82				<0.2		1.3	
					Bottom	7.0	0.5	124	19.1	19.1	8.0	8.0	29.1	29.1	93.0	93.0	7.2	7.2	29.9		27		84				<0.2		1.0	
						7.0	0.5	129	19.1		8.0		29.1		93.0		7.2		29.9		28		84				<0.2		0.9	
IM11	Cloudy	Moderate	16:07	8.2	Surface	1.0	0.5	131	19.3	19.3	8.0	8.0	28.7	28.8	92.0	92.0	7.2	7.2	12.1	14.6	11	15	78	81	821483	810533	<0.2	<0.2	1.3	1.2
						1.0	0.5	134	19.3		8.0		28.8		92.0		7.2		12.1		11		78				<0.2		1.2	
					Middle	4.1	0.5	132	19.2	19.2	7.9	7.9	28.9	28.9	91.8	91.8	7.1		15.0		14		82				<0.2		1.2	
						4.1	0.5	141	19.2		7.9		28.9		91.8		7.1		15.0		13		82				<0.2		1.0	
					Bottom	7.2	0.4	132	19.2	19.2	7.9	7.9	28.9	28.9	92.9	92.9	7.2	7.2	16.7		20		84				<0.2		1.2	
						7.2	0.5	140	19.2		7.9		28.9		92.9		7.2		16.7		19		84				<0.2		1.3	
IM12	Cloudy	Moderate	16:15	9.8	Surface	1.0	0.6	105	19.3	19.3	7.9	7.9	28.7	28.7	91.9	91.9	7.1	7.1	9.4	12.0	7	10	79	82	821156	811516	<0.2	<0.2	1.2	1.2
						1.0	0.6	112	19.3		7.9		28.7		91.8		7.1		9.4		9		78				<0.2		1.3	
					Middle	4.9	0.6	110	19.3	19.3	7.9	7.9	28.9	28.9	91.5	91.5	7.1		12.5		8		83				<0.2		1.2	
						4.9	0.6	110	19.3		7.9		28.9		91.5		7.1		12.5		9		83				<0.2		1.2	
					Bottom	8.8	0.5	115	19.3	19.3	7.9	7.9	28.9	28.9	93.8	93.8	7.3	7.3	14.1		12		84				<0.2		1.0	
						8.8	0.5	117	19.3		7.9		28.9		93.8		7.3		14.1		12		84				<0.2		1.0	
SR2	Cloudy	Moderate	16:35	4.5	Surface	1.0	0.4	93	19.3	19.3	7.9	7.9	29.0	29.0	91.5	91.5	7.1	7.1	13.4	15.9	8	12	80	83	821459	814164	<0.2	<0.2	0.9	0.9
						1.0	0.4	97	19.3		7.9		29.0		91.5		7.1		13.4		9		81				<0.2		1.0	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.3	78	19.3	19.3	7.9	7.9	29.0	29.0	93.3	93.3	7.2	7.2	18.4		15		85				<0.2		0.9	
						3.5	0.3	80	19.3		7.9		29.0		93.3		7.2		18.4		17		84				<0.2		0.8	
SR3	Cloudy	Moderate	15:38	9.5	Surface	1.0	0.5	118	19.1	19.1	8.0	8.0	29.1	29.1	94.0	94.0	7.3	7.3	19.0	26.9	21	23	-	-	822157	807573	-	-	-	-
						1.0	0.5	126	19.1		8.0		29.1		94.0		7.3		18.9		20		-				-		-	
					Middle	4.8	0.5	103	19.1	19.1	8.0	8.0	29.1	29.1	93.8	93.8	7.3		19.9		20		-				-		-	
						4.8	0.6	110	19.1		8.0		29.1		93.8		7.3		20.0		21		-				-		-	
					Bottom	8.5	0.5	108	19.0	19.0	8.0	8.0	29.3	29.3	93.7	93.7	7.3	7.3	41.9		28		-				-		-	
						8.5	0.5	115	19.0		8.0		29.3		93.7		7.3		41.9		26		-				-		-	
SR4A	Cloudy	Moderate	17:33	8.2	Surface	1.0	0.3	112	15.8	15.8	8.2	8.2	30.1	30.1	93.6	93.6	7.7	7.7	12.9	15.5	21	24	-	-	817175	807822	-	-	-	-
						1.0	0.4	121	15.8		8.2		30.1		93.6		7.7		12.9		19		-				-		-	
					Middle	4.1	0.3	106	15.8	15.8	8.2	8.2	30.1	30.1	93.9	93.9	7.7		14.4		22		-				-		-	
						4.1	0.3	115	15.8		8.2		30.1		93.9		7.8		14.3		23		-				-		-	
					Bottom	7.2	0.3	118	15.7	15.7	8.2	8.2	30.4	30.4	95.6	95.6	7.9	7.9	19.3		28		-				-		-	
						7.2	0.3	125	15.7		8.2		30.4		95.6		7.9		19.4		28		-				-		-	
SR5A	Cloudy	Calm	17:50	4.2	Surface	1.0	0.1	270	16.2	16.2	8.2	8.2	29.6	29.6	92.4	92.4	7.6	7.6	6.0	7.4	10	9	-	-	816584	810709	-	-	-	-
						1.0	0.1	271	16.2		8.2		29.6		92.4		7.6		6.0		9		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	249	16.2	16.2	8.2	8.2	29.6	29.6	98.1	98.2	8.1	8.1	8.7		9		-				-		-	
						3.2	0.1	255	16.2		8.2		29.6		98.2		8.1		8.9		9		-				-		-	
SR6	Cloudy	Moderate	18:14	4.2	Surface	1.0	0.2	170	16.1	16.1	8.1	8.1	29.6	29.6	93.2	93.2	7.7	7.7	11.5	12.0	16	22	-	-	817897	814663	-	-	-	-
						1.0	0.2	171	16.1		8.1		29.6		93.2		7.7		11.6		15		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	172	16.1	16.1	8.1	8.1	29.6	29.6	96.7	96.8	8.0	8.0	12.5		28		-				-		-	
						3.2	0.2	180	16.1		8.1		29.6		96.8		8.0		12.5		27		-				-		-	
SR7	Cloudy	Moderate	17:22	17.5	Surface	1.0	0.3	127	19.2	19.2	7.9	7.9	29.6	29.6	87.4	87.4	6.8	6.8	8.4	8.6	6	9	-	-	823638	823724	-	-	-	-
						1.0	0.3	134	19.2		7.9		29.6		87.4		6.8		8.4		7		-				-		-	
					Middle	8.8	0.2	145	19.2	19.2	7.9	7.9	29.6	29.6	87.2	87.2	6.8		8.6		8		-				-		-	
						8.8	0.2	146	19.2		7.9		29.6		87.2		6.8		8.7		9		-				-		-	
					Bottom	16.5	0.3	154	19.2	19.2	7.9	7.9	29.6	29.6	88.6	88.6	6.9	6.9	8.6		10		-				-		-	
						16.5	0.3	157	19.2		7.9		29.6		88.6		6.9		8.6		11		-				-		-	
SR8	Cloudy	Moderate	16:21	5.7	Surface	1.0	0.3	191	19.3	19.3	7.9	7.9	28.9	28.9	90.4	90.4	7.0	7.0	14.1	16.4	8	10	-	-	820420	811584	-	-	-	-
						1.0	0.3	198	19.3		7.9		28.9		90.4		7.0		14.2		8		-				-		-	
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.7	0.3	180	19.3	19.3	7.9	7.9	28.9	28.9	90.4	90.4	7.0	7.0	18.6		12		-				-		-	
						4.7	0.3	197	19.3		7.9		28.9		90.4		7.0		18.6		12		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 04 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Cloudy	Moderate	12:40	8.8	Surface	1.0	0.6	43	16.0	16.0	7.8	7.8	30.8	30.9	93.7	93.7	7.7	7.7	13.6	26.4	19	30	106	101	815617	804254	<0.2	<0.2	0.7	0.6
						1.0	0.6	46	15.9		7.8		30.9		93.7		7.7		14.0		19		103				<0.2		0.6	
					Middle	4.4	0.5	45	15.8	15.8	7.8	7.8	31.1	31.1	93.1	93.1	7.6		28.9		34		98				<0.2		0.5	
						4.4	0.5	48	15.8		7.8		31.0		93.1		7.6		29.0		36		102				<0.2		0.6	
					Bottom	7.8	0.4	41	15.7	15.7	7.8	7.8	30.9	30.9	92.9	92.9	7.6	7.6	36.9		35		97				<0.2		0.7	
						7.8	0.5	44	15.7		7.8		30.8		92.9		7.6		36.0		37		100				<0.2		0.4	
C2	Cloudy	Moderate	13:06	13.0	Surface	1.0	0.4	176	19.6	19.6	7.9	7.9	26.2	26.2	90.0	90.0	7.1	7.1	6.3	14.8	3	5	80	83	825674	806936	<0.2	<0.2	2.2	2.1
						1.0	0.4	179	19.6		7.9		26.2		90.0		7.1		6.4		2		81				<0.2		2.1	
					Middle	6.5	0.5	213	19.3	19.3	7.9	7.9	27.1	27.1	88.8	88.8	7.0		11.3		5		83				<0.2		2.0	
						6.5	0.5	229	19.3		7.9		27.1		88.8		7.0		11.3		3		84				<0.2		2.2	
					Bottom	12.0	0.5	101	19.3	19.3	7.9	7.9	27.8	27.8	88.7	88.7	6.9	6.9	26.7		7		85				<0.2		1.8	
						12.0	0.5	109	19.3		7.9		27.8		88.7		6.9		26.7		9		86				<0.2		2.2	
C3	Sunny	Moderate	11:24	12.0	Surface	1.0	0.6	263	19.5	19.5	7.9	7.9	28.6	28.6	90.4	90.4	7.0	6.9	6.0	8.9	4	6	81	83	822102	817821	<0.2	<0.2	1.2	1.1
						1.0	0.6	288	19.5		7.9		28.6		90.3		7.0		6.0		3		82				<0.2		1.1	
					Middle	6.0	0.5	266	19.1	19.1	7.9	7.9	29.4	29.4	87.8	87.8	6.8		9.1		5		83				<0.2		1.1	
						6.0	0.6	270	19.1		7.9		29.4		87.8		6.8		9.3		4		84				<0.2		1.3	
					Bottom	11.0	0.4	262	19.1	19.1	7.9	7.9	29.5	29.5	89.9	89.9	7.0	7.0	11.5		8		85				<0.2		0.8	
						11.0	0.5	280	19.1		7.9		29.5		89.9		7.0		11.5		10		85				<0.2		1.1	
IM1	Cloudy	Moderate	12:58	7.6	Surface	1.0	0.5	41	16.1	16.1	7.8	7.8	29.9	29.9	93.7	93.7	7.7	7.7	6.1	11.4	9	15	96	96	818350	806457	<0.2	<0.2	1.3	1.0
						1.0	0.5	44	16.1		7.8		29.9		93.7		7.7		6.2		8		96				<0.2		1.0	
					Middle	3.8	0.4	81	15.9	15.9	7.8	7.8	30.4	30.4	93.5	93.5	7.7		11.4		14		94				<0.2		1.2	
						3.8	0.5	85	15.9		7.8		30.4		93.5		7.7		11.5		15		94				<0.2		1.0	
					Bottom	6.6	0.4	122	15.9	15.9	7.8	7.8	29.7	29.7	95.0	95.0	7.8	7.8	16.9		22		98				<0.2		0.8	
						6.6	0.4	126	15.9		7.8		29.7		95.0		7.8		16.5		24		97				<0.2		0.8	
IM2	Cloudy	Moderate	13:05	8.7	Surface	1.0	0.5	33	16.4	16.4	7.8	7.8	30.0	30.0	93.4	93.4	7.6	7.6	5.8	15.7	8	9	93	95	818853	806180	<0.2	<0.2	1.2	1.1
						1.0	0.6	34	16.4		7.8		30.0		93.4		7.6		5.9		8		94				<0.2		1.1	
					Middle	4.4	0.4	57	16.4	16.4	7.8	7.8	30.0	30.0	93.5	93.5	7.6		7.0		8		94				<0.2		1.0	
						4.4	0.4	62	16.4		7.8		30.0		93.4		7.6		7.3		6		95				<0.2		1.0	
					Bottom	7.7	0.4	67	15.8	15.8	7.8	7.8	30.4	30.4	93.7	93.8	7.7	7.7	34.3		13		96				<0.2		1.2	
						7.7	0.4	73	15.8		7.8		30.3		93.8		7.7		33.9		11		97				<0.2		1.1	
IM3	Cloudy	Moderate	13:13	8.8	Surface	1.0	0.5	44	16.3	16.3	7.8	7.8	30.2	30.2	93.2	93.2	7.6	7.6	5.6	18.1	6	15	93	96	819422	806030	<0.2	<0.2	1.1	1.0
						1.0	0.6	48	16.3		7.8		30.2		93.2		7.6		5.6		4		91				<0.2		1.3	
					Middle	4.4	0.5	43	15.8	15.8	7.8	7.8	30.8	30.8	92.7	92.7	7.6		22.5		8		100				<0.2		1.0	
						4.4	0.5	46	15.8		7.8		30.8		92.7		7.6		22.6		7		97				<0.2		1.3	
					Bottom	7.8	0.5	43	15.8	15.8	7.8	7.8	30.4	30.4	94.2	94.2	7.8	7.8	26.1		34		96				<0.2		0.5	
						7.8	0.5	45	15.8		7.8		30.4		94.2		7.8		26.1		33		96				<0.2		0.7	
IM4	Cloudy	Moderate	13:22	8.2	Surface	1.0	0.5	29	16.3	16.3	7.8	7.8	30.3	30.3	93.7	93.7	7.6	7.6	5.3	15.4	6	11	96	93	819588	805047	<0.2	<0.2	1.3	1.2
						1.0	0.6	29	16.3		7.8		30.3		93.7		7.6		5.4		6		96				<0.2		1.4	
					Middle	4.1	0.5	32	16.3	16.3	7.8	7.8	30.2	30.2	93.5	93.6	7.6		7.4		7		87				<0.2		1.2	
						4.1	0.5	34	16.2		7.8		30.2		93.6		7.6		8.0		8		89				<0.2		1.1	
					Bottom	7.2	0.4	28	15.8	15.8	7.8	7.8	30.1	30.1	95.0	95.1	7.8	7.9	33.4		18		95				<0.2		0.9	
						7.2	0.4	29	15.8		7.8		30.1		95.1		7.9		32.9		19		94				<0.2		1.0	
IM5	Cloudy	Moderate	13:29	7.3	Surface	1.0	0.5	27	16.3	16.3	7.8	7.8	30.4	30.4	92.4	92.4	7.5	7.5	5.6	16.5	6	10	95	96	820546	804913	<0.2	<0.2	1.2	1.2
						1.0	0.5	28	16.3		7.8		30.4		92.4		7.5		5.6		7		93				<0.2		1.4	
					Middle	3.7	0.4	38	16.0	16.0	7.8	7.8	30.5	30.5	92.1	92.1	7.5		7.6		5		94				<0.2		1.2	
						3.7	0.5	40	16.0		7.8		30.5		92.1		7.5		7.7		6		97				<0.2		1.3	
					Bottom	6.3	0.4	52	15.8	15.8	7.8	7.8	30.4	30.4	94.4	94.5	7.8	7.8	36.2		17		97				<0.2		1.2	
						6.3	0.4	52	15.8		7.8		30.4		94.5		7.8		36.2		16		98				<0.2		1.1	
IM6	Cloudy	Moderate	13:37	7.2	Surface	1.0	0.5	36	16.2	16.3	7.8	7.8	30.6	30.6	92.4	92.4	7.5	7.5	5.7	15.5	8	18	98	96	821052	805836	<0.2	<0.2	1.3	1.1
						1.0	0.5	36	16.3		7.8		30.6		92.4		7.5		5.5		9		97				<0.2		1.1	
					Middle	3.6	0.4	37	16.0	16.0	7.8	7.8	30.7	30.7	91.6	91.6	7.5		15.7		16		95				<0.2		1.0	
						3.6	0.4	39	16.0		7.8		30.7		91.6		7.5		15.7		15		97				<0.2		1.0	
					Bottom	6.2	0.3	37	15.9	15.9	7.8	7.8	30.4	30.4	93.6	93.6	7.7	7.7	25.4		29		92				<0.2		0.9	
						6.2	0.4	40	15.9		7.8		30.3		93.6		7.7		25.2		31		95				<0.2		1.1	
IM7	Cloudy	Moderate	13:46	8.5	Surface	1.0	0.5	48	16.3	16.3	7.8	7.8	30.7	30.7	92.3	92.3	7.5	7.5	6.0	14.0	6	15	98	97	821356	806827	<0.2	<0.2	1.2	1.0
						1.0	0.5	50	16.3		7.8		30.7		92.3		7.5		6.3		8		97				<0.2		1.1	
					Middle	4.3	0.4	46	15.8	15.8	7.8	7.8	31.3	31.3	91.5	91.5	7.5		16.1		16		98				<0.2		0.9	
						4.3	0.4	46	15.8		7.8		31.3		91.5		7.5		16.2		15		96				<0.2		1.1	
					Bottom	7.5	0.3	77	15.8	15.8	7.8	7.8	31.2	31.2	92.3	92.4	7.6	7.6	19.6		21		97				<0.2		1.0	
						7.5	0.3	83	15.8		7.8		31.1		92.5		7.6		19.6		23		95				<0.2		0.9	
IM8	Cloudy	Moderate	12:39	8.7	Surface	1.0	0.4	207	19.7	19.7	7.9	7.9	27.6	27.6	92.2	92.2	7.2	7.2	6.3	7.2	8	8	78	83	821703	807847	<0.2	<0.2	1.3	1.4
						1.0	0.4	223	19.7		7.9		27.6		92.2		7.2		6.3		9		80				<0.2		1.4	
					Middle	4.4	0.4	186	19.4	19.4	7.9	7.9	27.8	27.8	92.0	92.0	7.2		7.1		8		84				<0.2		1.5	
						4.4	0.4	188	19.4		7.9		27.8		92.0		7.2		7.1		7		84				<0.2		1.6	
					Bottom	7.7	0.4	156	19.3	19.3	7.9	7.9	27.9	27.9	93.2	93.3	7.3	7.3	8.2		8		86				<0.2		1.5	
						7.7	0.4	156	19.3		7.9		27.9		93.3		7.3		8.1		7		85				<0.2		1.3	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 04 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	12:31	7.6	Surface	1.0	0.4	225	19.4	19.4	7.9	7.9	28.0	28.0	92.1	92.1	7.2	7.2	8.5	8.5	8	10	79	83	822102	808819	<0.2	<0.2	1.2	1.2
						1.0	0.4	245	19.4		7.9		28.0		92.1		7.2		8.5		10		79				<0.2		1.3	
					Middle	3.8	0.4	235	19.4	19.4	7.9	7.9	28.0	28.0	92.4	92.4	7.2		8.7		10		84				<0.2		1.3	
						3.8	0.4	253	19.4		7.9		28.0		92.4		7.2		8.7		11		84				<0.2		1.1	
					Bottom	6.6	0.4	222	19.4	19.4	7.9	7.9	28.0	28.0	94.1	94.1	7.3	7.3	8.2		9		85				<0.2		1.1	
						6.6	0.4	226	19.4		7.9		28.0		94.1		7.3		8.2		9		85				<0.2		1.2	
IM10	Cloudy	Moderate	12:24	8.0	Surface	1.0	0.7	295	19.3	19.3	7.9	7.9	28.3	28.3	92.1	92.1	7.2	7.2	10.0	10.6	9	11	80	83	822244	809851	<0.2	<0.2	1.0	1.1
						1.0	0.7	300	19.3		7.9		28.3		92.1		7.2		10.0		9		79				<0.2		1.0	
					Middle	4.0	0.6	289	19.2	19.2	7.9	7.9	28.4	28.4	91.5	91.5	7.2		10.8		10		84				<0.2		1.1	
						4.0	0.6	315	19.2		7.9		28.4		91.5		7.2		10.8		12		84				<0.2		1.0	
					Bottom	7.0	0.5	274	19.1	19.1	7.9	7.9	28.4	28.4	91.7	91.7	7.2	7.2	11.0		13		85				<0.2		1.2	
						7.0	0.5	283	19.1		7.9		28.4		91.7		7.2		11.0		13		85				<0.2		1.1	
IM11	Cloudy	Moderate	12:16	9.1	Surface	1.0	0.5	283	19.3	19.3	7.9	7.9	28.5	28.5	91.2	91.2	7.1	7.1	13.9	16.3	10	15	81	83	821520	810525	<0.2	<0.2	1.1	1.1
						1.0	0.6	283	19.3		7.9		28.5		91.2		7.1		14.1		10		80				<0.2		0.9	
					Middle	4.6	0.5	285	19.2	19.2	7.9	7.9	28.6	28.6	90.9	90.9	7.1		16.7		15		85				<0.2		1.0	
						4.6	0.5	287	19.2		7.9		28.6		90.9		7.1		16.7		13		84				<0.2		1.3	
					Bottom	8.1	0.5	283	19.1	19.1	7.9	7.9	28.6	28.6	90.9	90.9	7.1	7.1	18.3		20		85				<0.2		1.0	
						8.1	0.5	305	19.1		7.9		28.6		90.9		7.1		18.3		19		85				<0.2		1.2	
IM12	Cloudy	Moderate	12:09	9.4	Surface	1.0	0.7	275	19.4	19.4	7.9	7.9	28.4	28.4	91.4	91.4	7.1	7.1	12.5	18.4	11	17	81	84	821164	811524	<0.2	<0.2	1.3	1.2
						1.0	0.7	279	19.4		7.9		28.4		91.3		7.1		12.6		11		80				<0.2		1.3	
					Middle	4.7	0.6	274	19.0	19.0	7.9	7.9	28.8	28.8	90.2	90.2	7.1		20.9		18		84				<0.2		1.4	
						4.7	0.6	281	19.0		7.9		28.8		90.2		7.1		20.7		16		85				<0.2		1.2	
					Bottom	8.4	0.5	275	19.0	19.0	7.9	7.9	28.8	28.8	90.8	90.8	7.1	7.1	21.7		21		85				<0.2		1.1	
						8.4	0.5	281	19.0		7.9		28.8		90.8		7.1		21.7		22		86				<0.2		0.9	
SR2	Sunny	Moderate	11:46	4.5	Surface	1.0	0.3	270	19.3	19.3	7.9	7.9	28.7	28.7	91.5	91.6	7.1	7.1	14.2	15.7	12	13	81	83	821457	814180	<0.2	<0.2	1.0	1.0
						1.0	0.3	277	19.3		7.9		28.7		91.6		7.1		14.2		13		82				<0.2		0.9	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.3	274	19.2	19.2	7.9	7.9	28.7	28.7	92.8	92.8	7.2	7.2	17.2		14		85				<0.2		0.9	
						3.5	0.3	293	19.2		7.9		28.7		92.8		7.2		17.2		12		85				<0.2		1.1	
SR3	Cloudy	Moderate	12:45	9.1	Surface	1.0	0.3	191	19.9	19.9	7.9	7.9	26.5	26.5	92.7	92.7	7.2	7.2	5.4	9.2	4	4	-	-	822163	807555	-	-	-	-
						1.0	0.3	207	19.9		7.9		26.5		92.7		7.2		5.4		4		-				-		-	
					Middle	4.6	0.4	157	19.4	19.4	7.9	7.9	27.7	27.7	90.8	90.8	7.1		9.1		4		-				-		-	
						4.6	0.5	165	19.4		7.9		27.7		90.8		7.1		9.2		4		-				-		-	
					Bottom	8.1	0.4	149	19.2	19.2	7.9	7.9	28.1	28.1	91.0	91.0	7.1	7.1	13.0		5		-				-		-	
						8.1	0.4	149	19.2		7.9		28.1		91.0		7.1		13.0		4		-				-		-	
SR4A	Sunny	Calm	12:14	9.2	Surface	1.0	0.1	240	15.9	15.9	7.7	7.7	29.6	29.6	91.7	91.7	7.6	7.6	15.9	15.8	21	20	-	-	817195	807792	-	-	-	-
						1.0	0.2	257	15.9		7.7		29.6		91.7		7.6		15.9		19		-				-		-	
					Middle	4.6	0.1	228	15.9	15.9	7.7	7.7	29.3	29.3	91.9	91.9	7.6		16.1		19		-				-		-	
						4.6	0.1	229	15.9		7.7		29.3		91.9		7.6		16.1		19		-				-		-	
					Bottom	8.2	0.1	229	15.9	15.9	7.7	7.7	28.6	28.5	93.3	93.5	7.8	7.8	15.5		19		-				-		-	
						8.2	0.1	248	15.8		7.7		28.4		93.6		7.8		15.3		21		-				-		-	
SR5A	Sunny	Calm	11:57	5.5	Surface	1.0	0.3	300	15.8	15.8	7.7	7.7	29.4	29.4	92.1	92.1	7.6	7.6	14.3	15.3	22	21	-	-	816576	810704	-	-	-	-
						1.0	0.4	327	15.8		7.7		29.4		92.1		7.6		14.3		20		-				-		-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.3	299	15.8	15.8	7.7	7.7	28.9	28.9	93.0	93.1	7.7	7.8	16.3		21		-				-		-	
						4.5	0.3	319	15.8		7.7		28.8		93.1		7.8		16.3		20		-				-		-	
SR6	Sunny	Moderate	11:33	4.6	Surface	1.0	0.2	218	16.0	16.0	7.6	7.6	29.4	29.4	91.0	91.0	7.5	7.5	11.0	13.0	14	14	-	-	817909	814654	-	-	-	-
						1.0	0.2	219	16.0		7.6		29.3		91.0		7.5		11.5		14		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	230	16.0	16.0	7.6	7.6	28.9	28.9	93.7	93.8	7.8	7.8	14.7		12		-				-		-	
						3.6	0.2	232	16.0		7.6		28.9		93.8		7.8		14.9		14		-				-		-	
SR7	Sunny	Moderate	10:42	17.2	Surface	1.0	0.5	85	19.1	19.1	7.9	7.9	29.3	29.3	89.1	89.1	6.9	6.9	5.1	5.3	8	9	-	-	823635	823734	-	-	-	-
						1.0	0.5	86	19.1		7.9		29.3		89.1		6.9		5.1		10		-				-		-	
					Middle	8.6	0.6	91	19.1	19.1	7.9	7.9	29.4	29.4	88.9	88.9	6.9		5.2		9		-				-		-	
						8.6	0.6	96	19.1		7.9		29.4		88.9		6.9		5.3		10		-				-		-	
					Bottom	16.2	0.4	79	19.1	19.1	7.9	7.9	29.5	29.5	89.8	89.8	7.0	7.0	5.6		9		-				-		-	
						16.2	0.4	79	19.1		7.9		29.5		89.8		7.0		5.6		8		-				-		-	
SR8	Cloudy	Moderate	12:01	5.0	Surface	1.0	0.2	211	19.5	19.5	7.9	7.9	27.9	27.9	92.1	92.2	7.2	7.2	13.0	15.2	9	9	-	-	820411	811612	-	-	-	-
						1.0	0.2	214	19.5		7.9		27.9		92.2		7.2		13.2		9		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.2	241	19.1	19.1	7.9	7.9	28.6	28.6	92.4	92.4	7.2	7.2	17.3		8		-				-		-	
						4.0	0.2	247	19.1		7.9		28.6		92.4		7.2		17.3		9		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 04 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	18:32	8.8	Surface	1.0	0.2	71	16.2	16.2	7.9	7.9	33.1	33.1	97.3	97.3	7.8	7.8	7.0	9.6	6	6	92	95	815604	804233	<0.2	<0.2	0.7	0.7
						1.0	0.3	77	16.1		7.9		33.1		97.2		7.8		7.1		5		94				<0.2		0.8	
					Middle	4.4	0.2	109	16.0	16.0	7.8	7.8	33.5	33.5	95.7	95.7	7.7		9.5		6		98				<0.2		0.6	
						4.4	0.2	119	16.0		7.8		33.5		95.7		7.7		9.5		8		100				<0.2		0.7	
					Bottom	7.8	0.1	136	15.7	15.7	7.8	7.8	34.0	34.0	95.0	95.1	7.7	7.7	12.2		7		92				<0.2		0.7	
						7.8	0.1	137	15.7		7.8		34.0		95.1		7.7		12.2		6		94				<0.2		0.6	
C2	Cloudy	Moderate	17:31	12.7	Surface	1.0	0.3	162	19.5	19.5	7.9	7.9	27.3	27.3	90.1	90.1	7.0	7.0	11.8	14.2	7	11	81	83	825664	806958	<0.2	<0.2	1.7	1.8
						1.0	0.3	171	19.5		7.9		27.3		90.1		7.0		11.8		6		80				<0.2		1.7	
					Middle	6.4	0.3	112	19.3	19.3	7.9	7.9	27.7	27.7	89.5	89.5	7.0		16.1		8		83				<0.2		1.8	
						6.4	0.3	117	19.3		7.9		27.7		89.5		7.0		16.1		6		82				<0.2		1.7	
					Bottom	11.7	0.3	231	19.3	19.3	7.9	7.9	28.6	28.6	90.7	90.7	7.1	7.1	14.8		18		85				<0.2		1.8	
						11.7	0.3	237	19.3		7.9		28.6		90.7		7.1		14.8		18		85				<0.2		1.8	
C3	Cloudy	Moderate	19:13	12.4	Surface	1.0	0.7	88	19.3	19.3	7.9	7.9	29.3	29.3	88.7	88.7	6.9	6.9	5.5	5.5	4	4	82	84	822101	817815	<0.2	<0.2	0.9	0.9
						1.0	0.7	95	19.3		7.9		29.3		88.7		6.9		5.5		3		81				<0.2		0.9	
					Middle	6.2	0.5	95	19.1	19.1	7.9	7.9	29.5	29.5	88.0	88.0	6.8		5.4		4		84				<0.2		0.9	
						6.2	0.5	99	19.1		7.9		29.5		88.0		6.8		5.4		5		84				<0.2		0.9	
					Bottom	11.4	0.4	113	19.0	19.0	7.9	7.9	29.8	29.8	88.9	88.9	6.9	6.9	5.6		4		86				<0.2		0.8	
						11.4	0.4	120	19.0		7.9		29.8		88.9		6.9		5.6		4		85				<0.2		1.0	
IM1	Cloudy	Moderate	18:12	7.9	Surface	1.0	0.3	169	16.3	16.3	7.8	7.8	33.1	33.1	95.6	95.6	7.7	7.7	9.6	12.0	11	13	98	95	818347	806438	<0.2	<0.2	0.8	0.8
						1.0	0.3	184	16.3		7.8		33.1		95.6		7.7		9.6		12		98				<0.2		0.8	
					Middle	4.0	0.2	174	16.3	16.3	7.8	7.8	33.1	33.1	95.2	95.2	7.6		10.7		10		90				<0.2		0.8	
						4.0	0.3	187	16.3		7.8		33.1		95.2		7.6		10.7		10		92				<0.2		0.8	
					Bottom	6.9	0.2	134	16.0	16.0	7.8	7.8	33.2	33.2	94.7	94.7	7.6	7.6	15.7		19		94				<0.2		0.8	
						6.9	0.2	142	16.0		7.8		33.2		94.7		7.6		15.5		18		95				<0.2		0.8	
IM2	Cloudy	Moderate	18:06	8.8	Surface	1.0	0.3	162	16.2	16.2	7.9	7.9	34.0	34.0	95.3	95.3	7.6	7.6	11.6	14.6	12	16	96	95	818834	806194	<0.2	<0.2	0.8	0.7
						1.0	0.3	168	16.2		7.9		34.0		95.3		7.6		11.7		10		96				<0.2		0.7	
					Middle	4.4	0.2	124	16.1	16.1	7.9	7.9	34.0	34.0	94.8	94.8	7.6		13.3		14		93				<0.2		0.6	
						4.4	0.2	125	16.1		7.9		34.0		94.8		7.6		13.3		15		92				<0.2		0.7	
					Bottom	7.8	0.2	119	15.8	15.8	7.9	7.9	34.1	34.1	94.3	94.4	7.6	7.6	18.9		21		98				<0.2		0.6	
						7.8	0.3	129	15.8		7.9		34.1		94.4		7.6		18.9		22		96				<0.2		0.7	
IM3	Cloudy	Moderate	17:59	9.1	Surface	1.0	0.3	58	16.2	16.2	7.9	7.9	33.9	33.9	95.4	95.4	7.6	7.6	11.3	16.4	11	18	97	96	819403	806022	<0.2	<0.2	0.8	0.7
						1.0	0.3	58	16.2		7.9		33.9		95.3		7.6		11.3		13		95				<0.2		0.7	
					Middle	4.6	0.2	85	15.9	15.9	7.9	7.9	34.0	34.0	93.9	93.9	7.5		17.4		17		97				<0.2		0.7	
						4.6	0.2	88	15.9		7.9		34.0		93.9		7.5		17.3		19		98				<0.2		0.7	
					Bottom	8.1	0.2	98	15.8	15.8	7.9	7.9	34.0	34.0	94.0	94.1	7.6	7.6	20.5		25		95				<0.2		0.8	
						8.1	0.2	104	15.8		7.9		34.0		94.1		7.6		20.4		24		96				<0.2		0.7	
IM4	Cloudy	Moderate	17:51	8.5	Surface	1.0	0.2	69	16.4	16.4	7.8	7.8	33.3	33.3	94.6	94.7	7.6	7.6	8.6	16.6	9	16	100	95	819571	805029	<0.2	<0.2	1.2	1.0
						1.0	0.3	73	16.4		7.8		33.3		94.7		7.6		8.6		8		100				<0.2		1.1	
					Middle	4.3	0.2	102	15.7	15.7	7.8	7.8	33.8	33.8	93.1	93.1	7.5		19.3		10		95				<0.2		1.1	
						4.3	0.2	104	15.7		7.8		33.8		93.1		7.5		19.3		12		97				<0.2		1.1	
					Bottom	7.5	0.2	117	15.7	15.7	7.9	7.9	33.8	33.8	93.4	93.4	7.5	7.5	22.0		27		88				<0.2		0.8	
						7.5	0.2	125	15.7		7.9		33.8		93.4		7.5		21.9		27		89				<0.2		0.7	
IM5	Cloudy	Moderate	17:43	7.2	Surface	1.0	0.4	110	16.4	16.4	7.8	7.8	32.9	32.9	94.2	94.2	7.6	7.5	8.1	16.4	11	15	102	99	820567	804927	<0.2	<0.2	1.2	1.1
						1.0	0.4	111	16.4		7.8		32.9		94.2		7.5		8.2		10		100				<0.2		1.1	
					Middle	3.6	0.3	127	15.8	15.8	7.8	7.8	33.4	33.4	93.1	93.1	7.5		19.1		10		98				<0.2		1.1	
						3.6	0.4	136	15.8		7.8		33.4		93.1		7.5		19.1		9		100				<0.2		1.4	
					Bottom	6.2	0.3	122	15.8	15.8	7.8	7.8	33.4	33.4	93.3	93.4	7.5	7.6	22.2		25		97				<0.2		0.9	
						6.2	0.3	132	15.8		7.8		33.4		93.4		7.6		21.8		25		97				<0.2		1.1	
IM6	Cloudy	Moderate	17:35	7.2	Surface	1.0	0.3	114	17.0	17.0	7.8	7.8	32.2	32.2	95.2	95.2	7.6	7.6	5.6	15.1	5	15	89	94	821051	805845	<0.2	<0.2	1.3	1.2
						1.0	0.3	123	17.0		7.8		32.2		95.2		7.6		5.7		5		88				<0.2		1.4	
					Middle	3.6	0.3	90	15.8	15.8	7.8	7.8	33.0	33.0	92.8	92.9	7.5		17.9		16		93				<0.2		1.1	
						3.6	0.3	98	15.8		7.8		33.0		92.9		7.5		17.9		14		91				<0.2		1.1	
					Bottom	6.2	0.3	80	15.8	15.8	7.8	7.8	33.0	33.0	93.3	93.4	7.6	7.6	21.7		26		102				<0.2		1.0	
						6.2	0.3	82	15.8		7.8		33.0		93.4		7.6		21.8		25		100				<0.2		1.0	
IM7	Cloudy	Moderate	17:26	8.2	Surface	1.0	0.6	92	17.0	17.0	7.7	7.7	32.1	32.1	95.1	95.1	7.6	7.6	7.2	15.4	4	16	97	97	821345	806817	<0.2	<0.2	1.2	1.1
						1.0	0.6	92	17.0		7.7		32.1		95.0		7.6		7.3		6		96				<0.2		1.3	
					Middle	4.1	0.6	94	15.9	15.9	7.7	7.7	32.8	32.8	92.9	92.9	7.5		15.0		14		101				<0.2		1.0	
						4.1	0.6	100	15.9		7.7		32.8		92.9		7.5		15.1		14		100				<0.2		1.0	
					Bottom	7.2	0.5	95	15.8	15.8	7.7	7.7	32.9	32.9	92.9	92.9	7.5	7.5	23.9		29		92				<0.2		1.0	
						7.2	0.5	101	15.8		7.7		32.9		92.9		7.5		23.8		28		94				<0.2		1.0	
IM8	Cloudy	Moderate	17:57	8.8	Surface	1.0	0.5	147	19.5	19.5	7.9	7.9	28.8	28.8	95.6	95.6	7.4	7.4	9.5	13.1	9	11	81	83	821684	807828	<0.2	<0.2	1.1	1.2
						1.0	0.5	157	19.5		7.9		28.8		95.6		7.4		9.5		9		80				<0.2		1.2	
					Middle	4.4	0.6	148	19.2	19.2	7.9	7.9	28.9	28.9	94.3	94.3	7.3		13.2		10		83				<0.2		1.2	
						4.4	0.7	156	19.2		7.9		28.9		94.3		7.3		13.2		9		83				<0.2		1.2	
					Bottom	7.8	0.5	122	19.0	19.0	8.0	8.0	29.2	29.2	94.4	94.4	7.4	7.4	16.5		15		85				<0.2		1.2	
						7.8	0.6	129	19.0		8.0		29.2		94.4		7.4		16.5		16		85				<0.2		1.2	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 04 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	18:05	7.7	Surface	1.0	0.6	83	19.6	19.6	7.9	7.9	28.8	28.9	95.4	95.2	7.4	7.4	9.3	12.9	4	9	78	82	822103	808827	<0.2	<0.2	1.3	1.2
						1.0	0.6	83	19.5		7.9		28.9		95.0		7.4		10.5		5		79				<0.2		1.3	
					Middle	3.9	0.5	102	19.1	19.1	8.0	8.0	29.1	29.1	93.8	93.8	7.3		14.1		6		83				<0.2		1.4	
						3.9	0.5	109	19.1		8.0		29.1		93.8		7.3		14.1		8		83				<0.2		1.3	
					Bottom	6.7	0.4	135	19.0	19.0	7.9	7.9	29.1	29.1	94.5	94.5	7.4	7.4	14.6		15		85				<0.2		1.0	
						6.7	0.4	138	19.0		7.9		29.1		94.5		7.4		14.6		15		85				<0.2		1.0	
IM10	Cloudy	Moderate	18:14	7.8	Surface	1.0	0.5	113	19.4	19.4	7.9	7.9	28.3	28.3	93.5	93.5	7.3	7.3	9.6	13.6	6	10	80	83	822249	809841	<0.2	<0.2	1.3	1.4
						1.0	0.5	122	19.4		7.9		28.3		93.5		7.3		9.6		6		81				<0.2		1.4	
					Middle	3.9	0.4	124	19.3	19.3	7.9	7.9	28.6	28.6	92.7	92.7	7.2		14.5		7		85				<0.2		1.4	
						3.9	0.4	128	19.3		7.9		28.6		92.7		7.2		14.5		7		84				<0.2		1.4	
					Bottom	6.8	0.5	141	19.2	19.2	7.9	7.9	28.6	28.6	93.2	93.2	7.3	7.3	16.7		16		85				<0.2		1.3	
						6.8	0.5	150	19.2		7.9		28.6		93.2		7.3		16.7		16		85				<0.2		1.3	
IM11	Cloudy	Moderate	18:21	9.2	Surface	1.0	0.5	114	19.3	19.3	7.9	7.9	28.4	28.4	92.2	92.2	7.2	7.2	10.2	12.6	8	11	80	83	821495	810546	<0.2	<0.2	1.3	1.3
						1.0	0.6	117	19.3		7.9		28.4		92.2		7.2		10.2		8		80				<0.2		1.4	
					Middle	4.6	0.6	116	19.3	19.3	7.9	7.9	28.6	28.6	91.6	91.7	7.1		13.0		7		83				<0.2		1.3	
						4.6	0.6	122	19.3		7.9		28.6		91.7		7.1		13.0		8		83				<0.2		1.3	
					Bottom	8.2	0.6	123	19.2	19.2	7.9	7.9	28.7	28.7	92.1	92.1	7.2	7.2	14.5		16		85				<0.2		1.2	
						8.2	0.6	124	19.2		7.9		28.7		92.1		7.2		14.5		17		85				<0.2		1.1	
IM12	Cloudy	Moderate	18:29	9.3	Surface	1.0	0.5	97	19.4	19.4	7.9	7.9	28.2	28.2	92.4	92.4	7.2	7.2	8.0	9.5	6	8	80	83	821171	811517	<0.2	<0.2	1.4	1.5
						1.0	0.6	102	19.4		7.9		28.2		92.4		7.2		8.0		6		80				<0.2		1.5	
					Middle	4.7	0.5	110	19.3	19.3	7.9	7.9	28.6	28.6	91.3	91.3	7.1		9.8		7		83				<0.2		1.5	
						4.7	0.5	117	19.3		7.9		28.6		91.3		7.1		9.8		7		83				<0.2		1.4	
					Bottom	8.3	0.4	120	19.2	19.2	7.9	7.9	28.8	28.8	93.0	93.0	7.2	7.2	10.8		13		85				<0.2		1.4	
						8.3	0.4	131	19.2		7.9		28.8		93.0		7.2		10.8		11		85				<0.2		1.5	
SR2	Cloudy	Moderate	18:53	4.4	Surface	1.0	0.4	93	19.2	19.2	7.9	7.9	28.7	28.7	91.8	91.8	7.2	7.2	9.9	10.4	8	8	82	84	821444	814168	<0.2	<0.2	1.2	1.2
						1.0	0.4	95	19.2		7.9		28.7		91.8		7.2		9.9		8		81				<0.2		1.2	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.3	99	19.2	19.2	7.9	7.9	28.9	28.9	93.6	93.6	7.3	7.3	10.8		9		86				<0.2		1.1	
						3.4	0.4	104	19.2		7.9		28.9		93.6		7.3		10.8		7		86				<0.2		1.1	
SR3	Cloudy	Moderate	17:52	9.1	Surface	1.0	0.6	118	19.4	19.4	7.9	7.9	28.7	28.7	94.2	94.2	7.3	7.3	13.0	18.9	11	17	-	-	822161	807566	-	-	-	-
						1.0	0.6	128	19.4		7.9		28.7		94.2		7.3		13.0		10		-				-		-	
					Middle	4.6	0.5	100	19.1	19.1	7.9	7.9	28.8	28.8	92.5	92.5	7.2		21.3		14		-				-		-	
						4.6	0.6	106	19.1		7.9		28.8		92.5		7.2		21.2		13		-				-		-	
					Bottom	8.1	0.5	114	19.1	19.1	7.9	7.9	28.9	28.9	94.2	94.2	7.4	7.4	22.4		27		-				-		-	
						8.1	0.5	123	19.1		7.9		28.9		94.2		7.4		22.4		26		-				-		-	
SR4A	Cloudy	Moderate	18:53	8.4	Surface	1.0	0.4	79	16.4	16.4	7.8	7.8	33.3	33.3	96.0	96.0	7.7	7.7	11.8	12.2	13	16	-	-	817183	807817	-	-	-	-
						1.0	0.4	83	16.4		7.8		33.3		96.0		7.7		11.8		15		-				-		-	
					Middle	4.2	0.3	88	16.2	16.2	7.8	7.8	33.3	33.3	95.6	95.6	7.7		12.1		14		-				-		-	
						4.2	0.3	91	16.2		7.8		33.3		95.6		7.7		12.1		14		-				-		-	
					Bottom	7.4	0.2	109	16.2	16.2	7.8	7.8	33.3	33.3	95.6	95.6	7.7	7.7	12.7		18		-				-		-	
						7.4	0.2	117	16.2		7.8		33.3		95.6		7.7		12.8		20		-				-		-	
SR5A	Cloudy	Moderate	19:08	5.6	Surface	1.0	0.1	112	16.4	16.4	7.8	7.8	33.0	33.0	94.5	94.5	7.6	7.6	8.6	9.2	9	9	-	-	816586	810679	-	-	-	-
						1.0	0.2	118	16.4		7.8		33.0		94.5		7.6		8.7		10		-				-		-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.1	99	16.2	16.2	7.8	7.8	33.0	33.0	94.6	94.6	7.6	7.6	9.7		8		-				-		-	
						4.6	0.1	105	16.2		7.8		33.0		94.6		7.6		9.6		10		-				-		-	
SR6	Cloudy	Calm	19:31	4.5	Surface	1.0	0.2	103	16.3	16.3	7.7	7.7	32.9	32.9	92.9	92.9	7.5	7.5	9.8	9.8	11	10	-	-	817906	814644	-	-	-	-
						1.0	0.2	112	16.3		7.7		32.9		92.9		7.5		9.8		9		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	119	16.2	16.2	7.7	7.7	33.0	33.0	94.1	94.1	7.6	7.6	9.7		10		-				-		-	
						3.5	0.2	127	16.2		7.7		33.0		94.1		7.6		9.7		10		-				-		-	
SR7	Cloudy	Moderate	19:40	16.2	Surface	1.0	0.6	90	19.1	19.1	7.9	7.9	29.6	29.6	87.9	87.9	6.8	6.8	5.7	5.8	3	4	-	-	823626	823729	-	-	-	-
						1.0	0.6	95	19.1		7.9		29.6		87.9		6.8		5.7		4		-				-		-	
					Middle	8.1	0.4	107	19.1	19.1	7.9	7.9	29.7	29.7	87.5	87.5	6.8		5.8		4		-				-		-	
						8.1	0.4	113	19.1		7.9		29.7		87.5		6.8		5.8		4		-				-		-	
					Bottom	15.2	0.3	112	19.1	19.1	7.9	7.9	29.7	29.7	87.6	87.6	6.8	6.8	5.9		6		-				-		-	
						15.2	0.4	115	19.1		7.9		29.7		87.6		6.8		5.9		5		-				-		-	
SR8	Cloudy	Moderate	18:39	5.3	Surface	1.0	0.3	161	19.4	19.4	7.9	7.9	28.3	28.3	92.1	92.1	7.2	7.2	9.6	10.2	8	8	-	-	820435	811576	-	-	-	-
						1.0	0.3	161	19.4		7.9		28.3		92.1		7.2		9.6		9		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.3	157	19.2	19.2	7.9	7.9	28.7	28.7	91.4	91.4	7.1	7.1	10.8		8		-				-		-	
						4.3	0.3	171	19.2		7.9		28.7		91.4		7.1		10.8		8		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 07 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Moderate	14:50	8.3	Surface	1.0	0.6	144	15.4	15.4	7.8	7.8	34.3	34.3	97.7	97.7	7.9	7.9	6.4	6.5	9	9	83	84	815631	804235	<0.2	<0.2	0.4	0.4
						1.0	0.6	152			7.8		34.3		97.7		7.9		6.4		10		83				<0.2		0.4	
					Middle	4.2	0.5	158	15.4	15.4	7.8	7.8	34.3	34.3	98.0	98.0	7.9		6.6		8		84				<0.2		0.4	
						4.2	0.6	160	15.4		7.8		34.3		98.0		7.9		6.6		10		84				<0.2		0.3	
					Bottom	7.3	0.5	135	15.4	15.4	7.8	7.8	34.3	34.3	98.7	98.7	8.0	8.0	6.4		8		85				<0.2		0.3	
						7.3	0.6	137	15.4		7.8		34.3		98.7		8.0		6.3		9		85				<0.2		0.4	
C2	Cloudy	Moderate	13:50	12.4	Surface	1.0	0.5	231	19.4	19.4	7.8	7.8	26.6	26.6	94.9	94.9	7.5	7.4	6.1	6.8	5	5	75	80	825671	806963	<0.2	<0.2	1.8	1.9
						1.0	0.5	233	19.4		7.8		26.6		94.8		7.5		6.1		6		76				<0.2		1.8	
					Middle	6.2	0.4	190	19.4	19.4	7.8	7.8	27.0	27.0	92.4	92.4	7.3		6.9		4		81				<0.2		2.0	
						6.2	0.4	203	19.4		7.8		27.0		92.4		7.3		6.9		4		81				<0.2		2.0	
					Bottom	11.4	0.4	186	19.4	19.4	7.8	7.8	28.3	28.3	92.6	92.6	7.2	7.2	7.4		5		84				<0.2		1.9	
						11.4	0.4	200	19.4		7.8		28.3		92.6		7.2		7.4		5		84				<0.2		1.9	
C3	Cloudy	Moderate	15:48	12.7	Surface	1.0	0.4	287	19.0	19.0	7.9	7.9	29.9	29.9	90.6	90.6	7.0	7.0	4.0	4.4	4	4	80	82	822121	817821	<0.2	<0.2	0.7	0.6
						1.0	0.5	299	19.0		7.9		29.9		90.5		7.0		4.0		3		80				<0.2		0.5	
					Middle	6.4	0.3	281	18.9	18.9	7.9	7.9	30.0	30.0	89.4	89.5	7.0		4.4		3		82				<0.2		0.7	
						6.4	0.3	287	18.9		7.9		30.0		89.5		7.0		4.4		4		81				<0.2		0.6	
					Bottom	11.7	0.3	266	18.9	18.9	7.8	7.8	30.0	30.0	90.9	90.9	7.1	7.1	4.7		3		85				<0.2		0.6	
						11.7	0.3	290	18.9		7.8		30.0		90.9		7.1		4.7		5		85				<0.2		0.6	
IM1	Sunny	Rough	14:33	7.6	Surface	1.0	0.3	171	16.0	16.0	7.7	7.7	32.4	32.4	96.8	96.8	7.8	7.9	4.5	5.2	6	7	82	83	818354	806468	<0.2	<0.2	0.9	1.0
						1.0	0.3	187	16.0		7.7		32.4		96.8		7.8		4.5		6		82				<0.2		1.0	
					Middle	3.8	0.3	162	15.9	15.9	7.7	7.7	32.5	32.5	97.9	97.9	7.9		5.1		6		83				<0.2		1.0	
						3.8	0.3	171	15.9		7.7		32.5		97.9		7.9		5.1		7		83				<0.2		0.9	
					Bottom	6.6	0.3	155	15.7	15.7	7.7	7.7	32.7	32.7	99.2	99.3	8.1	8.1	5.9		8		84				<0.2		0.9	
						6.6	0.3	167	15.7		7.7		32.7		99.3		8.1		5.8		10		84				<0.2		1.0	
IM2	Sunny	Moderate	14:26	7.5	Surface	1.0	0.4	206	16.0	16.0	7.7	7.7	32.3	32.3	96.2	96.2	7.8	7.9	4.3	4.4	6	8	82	83	818832	806208	<0.2	<0.2	1.1	1.2
						1.0	0.4	212	16.0		7.7		32.3		96.2		7.8		4.3		8		82				<0.2		1.2	
					Middle	3.8	0.3	202	16.0	16.0	7.7	7.7	32.3	32.3	96.8	96.9	7.9		4.3		9		83				<0.2		1.3	
						3.8	0.4	210	16.0		7.7		32.3		96.9		7.9		4.2		7		83				<0.2		1.0	
					Bottom	6.5	0.3	182	15.9	15.9	7.7	7.7	32.3	32.3	98.7	98.8	8.0	8.0	4.6		7		83				<0.2		1.1	
						6.5	0.3	198	15.9		7.7		32.3		98.8		8.0		4.6		8		84				<0.2		1.3	
IM3	Sunny	Rough	14:16	8.3	Surface	1.0	0.5	243	16.0	16.0	7.7	7.7	32.2	32.2	97.0	97.0	7.9	7.9	4.0	4.3	7	7	81	82	819426	806030	<0.2	0	1.1	1.2
						1.0	0.5	245	16.0		7.7		32.2		97.0		7.9		4.0		7		81				0.2		1.2	
					Middle	4.2	0.5	217	16.0	16.0	7.7	7.7	32.3	32.3	97.5	97.5	7.9		4.2		7		82				<0.2		1.2	
						4.2	0.5	231	16.0		7.7		32.3		97.5		7.9		4.3		6		82				<0.2		1.1	
					Bottom	7.3	0.4	226	15.9	15.9	7.7	7.7	32.3	32.3	98.9	99.0	8.0	8.0	4.7		7		83				<0.2		1.1	
						7.3	0.5	239	15.9		7.7		32.3		99.1		8.0		4.8		7		83				<0.2		1.3	
IM4	Sunny	Rough	14:07	7.9	Surface	1.0	0.5	216	15.9	15.9	7.7	7.7	32.3	32.3	96.8	96.9	7.9	7.9	8.7	8.7	12	11	83	84	819576	805048	<0.2	<0.2	1.2	1.0
						1.0	0.5	219	15.9		7.7		32.3		96.9		7.9		8.7		10		83				<0.2		1.0	
					Middle	4.0	0.5	223	15.9	15.9	7.7	7.7	32.3	32.3	97.4	97.4	7.9		8.4		10		84				<0.2		1.1	
						4.0	0.6	243	15.9		7.7		32.3		97.4		7.9		8.4		10		84				<0.2		1.0	
					Bottom	6.9	0.5	199	15.8	15.8	7.7	7.7	32.3	32.4	99.1	99.1	8.1	8.1	8.9		11		85				<0.2		0.9	
						6.9	0.5	204	15.8		7.7		32.4		99.1		8.1		8.9		11		85				<0.2		1.0	
IM5	Sunny	Rough	14:00	6.9	Surface	1.0	0.7	232	16.3	16.3	7.7	7.7	31.3	31.3	96.8	96.8	7.9	7.9	4.4	6.5	10	11	80	81	820575	804914	<0.2	<0.2	0.9	1.1
						1.0	0.8	245	16.3		7.7		31.3		96.8		7.9		4.5		11		80				<0.2		0.8	
					Middle	3.5	0.6	213	16.2	16.2	7.7	7.7	31.4	31.5	97.1	97.1	7.9		6.9		11		81				<0.2		1.0	
						3.5	0.7	217	16.2		7.7		31.5		97.1		7.9		6.9		11		81				<0.2		1.1	
					Bottom	5.9	0.6	205	16.0	16.0	7.7	7.7	31.9	31.9	97.7	97.8	7.9	7.9	8.0		12		81				<0.2		1.3	
						5.9	0.6	215	16.0		7.7		31.9		97.8		7.9		8.1		12		82				<0.2		1.2	
IM6	Sunny	Rough	13:52	6.2	Surface	1.0	0.4	236	16.4	16.4	7.7	7.7	30.9	30.9	95.2	95.2	7.7	7.8	4.9	6.1	6	6	80	81	821052	805828	<0.2	<0.2	1.6	1.5
						1.0	0.4	254	16.4		7.7		30.9		95.2		7.7		4.9		6		81				<0.2		1.4	
					Middle	3.1	0.4	234	16.3	16.3	7.7	7.7	31.1	31.1	96.1	96.1	7.8		7.1		5		81				<0.2		1.6	
						3.1	0.4	246	16.3		7.7		31.1		96.1		7.8		7.2		4		81				<0.2		1.5	
					Bottom	5.2	0.4	226	16.1	16.1	7.7	7.7	31.6	31.6	96.9	97.0	7.9	7.9	6.4		7		82				<0.2		1.3	
						5.2	0.4	236	16.1		7.7		31.6		97.0		7.9		6.2		6		82				<0.2		1.6	
IM7	Sunny	Rough	13:48	6.3	Surface	1.0	0.4	237	16.4	16.4	7.6	7.6	30.9	30.9	94.2	94.2	7.6	7.7	3.8	4.7	6	7	82	83	821356	806838	<0.2	<0.2	1.4	1.5
						1.0	0.5	260	16.4		7.6		30.9		94.2		7.6		3.8		5		82				<0.2		1.4	
					Middle	3.2	0.4	229	16.3	16.3	7.6	7.6	30.9	30.9	94.4	94.4	7.7		4.4		5		83				<0.2		1.6	
						3.2	0.4	233	16.3		7.6		30.9		94.4		7.7		4.4		7		84				<0.2		1.6	
					Bottom	5.3	0.4	217	16.0	16.0	7.7	7.7	31.6	31.6	94.7	94.7	7.7	7.7	6.0		9		84				<0.2		1.6	
						5.3	0.4	231	16.0		7.7		31.6		94.7		7.7		6.0		9		85				<0.2		1.3	
IM8	Cloudy	Moderate	14:27	8.4	Surface	1.0	0.4	230	19.4	19.4	7.9	7.9	28.3	28.3	97.2	97.2	7.6	7.6	6.4	8.0	4	6	77	81	821705	807833	<0.2	<0.2	1.4	1.4
						1.0	0.4	242	19.4		7.9		28.3		97.2		7.6		6.4		6		77				<0.2		1.4	
					Middle	4.2	0.4	208	19.3	19.3	7.9	7.9	28.3	28.3	95.8	95.8	7.5		8.1		6		81				<0.2		1.3	
						4.2	0.4	217	19.3		7.9		28.3		95.8		7.5		8.1		7		82				<0.2		1.4	
					Bottom	7.4	0.3	189	19.2	19.2	7.9	7.9	28.4	28.4	95.6	95.6	7.5	7.5	9.5		6		84				<0.2		1.5	
						7.4	0.3	200	19.2		7.9		28.4		95.6		7.5		9.4		6		84				<0.2		1.3	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 07 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	14:37	7.9	Surface	1.0	0.7	254	19.5	19.5	7.9	7.9	28.3	28.3	98.0	98.0	7.6	7.6	6.2	8.1	2	4	78	81	822098	808825	<0.2	<0.2	1.2	1.3
						1.0	0.7	267	19.5		7.9		28.3		98.0		7.6		6.2		3		78				<0.2		1.2	
					Middle	4.0	0.6	255	19.4	19.4	7.9	7.9	28.4	28.4	96.5	96.5	7.5		8.0		4		82				<0.2		1.4	
						4.0	0.6	267	19.4		7.9		28.4		96.5		7.5		8.0		5		81				<0.2		1.2	
					Bottom	6.9	0.5	212	19.2	19.2	7.9	7.9	28.6	28.6	96.6	96.6	7.5	7.5	10.1		5		83				<0.2		1.3	
						6.9	0.5	213	19.2		7.9		28.6		96.6		7.5		10.1		3		84				<0.2		1.5	
IM10	Cloudy	Moderate	14:43	8.5	Surface	1.0	0.4	259	19.5	19.5	7.9	7.9	28.4	28.4	95.8	95.8	7.4	7.4	6.4	7.9	6	6	77	81	822257	809848	<0.2	<0.2	1.3	1.3
						1.0	0.5	273	19.5		7.9		28.4		95.8		7.4		6.4		5		78				<0.2		1.3	
					Middle	4.3	0.4	252	19.3	19.3	7.9	7.9	28.8	28.8	94.8	94.8	7.4		7.6		8		81				<0.2		1.3	
						4.3	0.4	257	19.3		7.9		28.8		94.8		7.4		7.6		6		82				<0.2		1.3	
					Bottom	7.5	0.4	251	19.2	19.2	7.9	7.9	28.8	28.8	95.7	95.7	7.4	7.4	9.7		6		84				<0.2		1.2	
						7.5	0.4	253	19.2		7.9		28.8		95.7		7.4		9.7		6		84				<0.2		1.1	
IM11	Cloudy	Moderate	14:51	8.8	Surface	1.0	0.5	280	19.2	19.2	7.9	7.9	29.0	29.0	94.9	94.9	7.4	7.4	7.7	8.3	6	7	77	81	821499	810540	<0.2	<0.2	1.0	1.0
						1.0	0.5	302	19.2		7.9		29.0		94.9		7.4		7.7		6		78				<0.2		1.0	
					Middle	4.4	0.4	259	19.2	19.2	7.9	7.9	29.0	29.0	94.9	94.9	7.4		8.0		8		82				<0.2		1.1	
						4.4	0.4	278	19.2		7.9		29.0		94.9		7.4		8.0		6		81				<0.2		0.9	
					Bottom	7.8	0.4	263	19.1	19.1	7.9	7.9	29.0	29.0	96.3	96.3	7.5	7.5	9.1		6		84				<0.2		1.0	
						7.8	0.4	272	19.1		7.9		29.0		96.3		7.5		9.1		8		84				<0.2		1.1	
IM12	Cloudy	Moderate	15:01	9.0	Surface	1.0	0.4	247	19.2	19.2	7.9	7.9	29.0	29.0	93.8	93.8	7.3	7.3	7.5	9.3	5	5	77	81	821171	811519	<0.2	<0.2	0.9	1.0
						1.0	0.5	256	19.2		7.9		29.0		93.8		7.3		7.5		4		78				<0.2		0.9	
					Middle	4.5	0.4	243	19.2	19.2	7.9	7.9	29.0	29.0	93.5	93.5	7.3		9.0		6		82				<0.2		0.9	
						4.5	0.5	255	19.2		7.9		29.0		93.5		7.3		9.0		5		81				<0.2		1.1	
					Bottom	8.0	0.4	238	19.2	19.2	7.9	7.9	29.1	29.1	93.6	93.6	7.3	7.3	11.3		6		84				<0.2		1.0	
						8.0	0.4	261	19.2		7.9		29.1		93.6		7.3		11.3		5		84				<0.2		1.1	
SR2	Cloudy	Moderate	15:24	5.1	Surface	1.0	0.2	171	19.2	19.2	7.8	7.8	29.1	29.1	97.3	97.3	7.6	7.6	8.5	8.6	7	5	80	82	821470	814170	<0.2	<0.2	1.0	1.1
						1.0	0.2	182	19.2		7.8		29.1		97.3		7.6		8.5		4		80				<0.2		1.3	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	159	19.2	19.2	7.8	7.8	29.1	29.1	99.3	99.3	7.7	7.7	8.6		4		85				<0.2		1.0	
						4.1	0.2	173	19.2		7.8		29.1		99.3		7.7		8.6		5		84				<0.2		1.0	
SR3	Cloudy	Moderate	14:22	9.2	Surface	1.0	0.4	219	19.4	19.4	7.9	7.9	27.9	27.9	96.7	96.7	7.5	7.5	6.4	7.9	4	5	-	-	822164	807572	-	-	-	-
						1.0	0.5	238	19.4		7.9		27.9		96.6		7.5		6.4		4		-				-		-	
					Middle	4.6	0.4	213	19.2	19.2	7.8	7.8	28.3	28.3	95.6	95.6	7.5		8.3		4		-				-		-	
						4.6	0.4	224	19.2		7.8		28.3		95.6		7.5		8.3		5		-				-		-	
					Bottom	8.2	0.4	208	19.1	19.1	7.8	7.8	28.5	28.5	96.5	96.5	7.5	7.5	9.1		6		-				-		-	
						8.2	0.4	228	19.1		7.8		28.5		96.5		7.5		9.1		5		-				-		-	
SR4A	Sunny	Rough	15:13	8.4	Surface	1.0	0.3	229	16.1	16.1	7.6	7.6	32.5	32.5	96.7	96.8	7.8	7.9	12.2	12.2	17	18	-	-	817178	807819	-	-	-	-
						1.0	0.3	251	16.1		7.6		32.5		96.8		7.8		12.2		17		-				-		-	
					Middle	4.2	0.3	233	16.1	16.1	7.6	7.6	32.5	32.5	97.3	97.3	7.9		12.2		19		-				-		-	
						4.2	0.3	235	16.1		7.6		32.5		97.3		7.9		12.3		17		-				-		-	
					Bottom	7.4	0.3	228	16.0	16.0	7.6	7.6	32.5	32.5	98.9	98.9	8.0	8.0	12.0		18		-				-		-	
						7.4	0.3	246	16.0		7.6		32.5		98.9		8.0		12.0		18		-				-		-	
SR5A	Sunny	Moderate	15:33	5.6	Surface	1.0	0.3	223	16.1	16.1	7.6	7.6	32.5	32.5	98.2	98.2	7.9	7.9	9.4	9.5	12	14	-	-	816575	810679	-	-	-	-
						1.0	0.3	229	16.1		7.6		32.5		98.2		7.9		9.5		12		-				-		-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.3	211	16.0	16.0	7.6	7.6	32.5	32.5	99.3	99.3	8.0	8.0	9.6		16		-				-		-	
						4.6	0.3	226	16.0		7.6		32.5		99.3		8.0		9.6		15		-				-		-	
SR6	Sunny	Moderate	16:04	4.8	Surface	1.0	0.2	155	16.1	16.1	7.6	7.6	33.1	33.1	95.3	95.3	7.7	7.7	6.6	6.8	10	10	-	-	817899	814681	-	-	-	-
						1.0	0.2	159	16.1		7.6		33.1		95.3		7.7		6.6		8		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	158	16.1	16.1	7.6	7.6	33.1	33.1	97.0	97.1	7.8	7.8	6.9		10		-				-		-	
						3.8	0.2	159	16.1		7.6		33.1		97.1		7.8		6.9		10		-				-		-	
SR7	Cloudy	Moderate	16:22	16.5	Surface	1.0	0.3	283	18.9	18.9	7.8	7.8	30.1	30.1	90.1	90.1	7.0	7.0	4.5	4.8	4	5	-	-	823644	823735	-	-	-	-
						1.0	0.3	288	18.9		7.8		30.1		90.1		7.0		4.5		3		-				-		-	
					Middle	8.3	0.3	287	18.9	18.9	7.8	7.8	30.1	30.1	90.2	90.2	7.0		4.8		4		-				-		-	
						8.3	0.4	303	18.9		7.8		30.1		90.2		7.0		4.8		5		-				-		-	
					Bottom	15.5	0.3	290	18.8	18.8	7.8	7.8	30.1	30.1	91.5	91.5	7.1	7.1	5.0		5		-				-		-	
						15.5	0.3	297	18.8		7.8		30.1		91.5		7.1		5.0		6		-				-		-	
SR8	Cloudy	Moderate	15:09	5.4	Surface	1.0	0.5	207	19.2	19.2	7.8	7.8	29.0	29.0	96.4	96.4	7.5	7.5	11.1	11.2	11	11	-	-	820410	811591	-	-	-	-
						1.0	0.5	221	19.2		7.8		29.0		96.4		7.5		11.1		12		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.4	204	19.1	19.1	7.8	7.8	29.0	29.0	100.3	100.3	7.8	7.8	11.3		10		-				-		-	
						4.4	0.4	211	19.1		7.8		29.0		100.3		7.8		11.3		12		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 07 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Rough	10:14	7.8	Surface	1.0	0.8	209	15.3	15.3	7.8	7.8	32.8	32.8	96.5	96.5	7.9	7.9	11.3	11.6	14	17	83	83	815605	804265	<0.2	<0.2	0.6	0.5
						1.0	0.8	210	15.3		7.8		32.8		96.5		7.9		11.3		14		83				<0.2		0.4	
					Middle	3.9	0.7	206	15.3	15.3	7.8	7.8	32.8	32.8	96.3	96.3	7.9		11.6		16		83				<0.2		0.5	
						3.9	0.8	220	15.3		7.8		32.8		96.3		7.9		11.6		15		83				<0.2		0.4	
					Bottom	6.8	0.7	192	15.3	15.3	7.8	7.8	32.7	32.7	96.2	96.2	7.9	7.9	11.8		22		84				<0.2		0.6	
						6.8	0.8	204	15.3		7.8		32.7		96.2		7.9		11.8		20		84				<0.2		0.5	
C2	Cloudy	Rough	11:20	12.3	Surface	1.0	0.8	227	19.3	19.3	7.8	7.8	26.8	26.8	94.8	94.8	7.5	7.3	6.4	7.6	6	10	79	81	825681	806925	<0.2	<0.2	1.6	1.8
						1.0	0.8	244	19.3		7.8		26.8		94.8		7.5		6.4		5		78				<0.2		1.6	
					Middle	6.2	0.6	192	19.3	19.3	7.8	7.8	28.8	28.8	90.6	90.6	7.0		8.2		12		82				<0.2		2.0	
						6.2	0.6	195	19.3		7.8		28.8		90.6		7.0		8.2		12		81				<0.2		1.8	
					Bottom	11.3	0.5	160	19.3	19.3	7.8	7.8	28.9	28.9	91.0	91.0	7.1	7.1	8.3		11		84				<0.2		1.7	
						11.3	0.5	168	19.3		7.8		28.9		91.0		7.1		8.3		11		84				<0.2		1.9	
C3	Cloudy	Moderate	09:18	12.2	Surface	1.0	0.4	152	18.9	18.9	7.9	7.9	29.9	29.9	89.7	89.7	7.0	7.0	5.2	5.4	7	8	80	82	822118	817816	<0.2	<0.2	0.7	1.0
						1.0	0.4	155	18.9		7.9		29.9		89.7		7.0		5.1		6		79				<0.2		1.1	
					Middle	6.1	0.4	132	18.9	18.9	7.8	7.8	29.9	29.9	89.4	89.4	7.0		5.5		8		82				<0.2		1.2	
						6.1	0.4	142	18.9		7.8		29.9		89.4		7.0		5.5		7		81				<0.2		0.8	
					Bottom	11.2	0.5	125	18.9	18.9	7.8	7.8	30.0	30.0	89.8	89.8	7.0	7.0	5.4		12		83				<0.2		0.9	
						11.2	0.6	133	18.9		7.8		30.0		89.8		7.0		5.4		10		84				<0.2		1.0	
IM1	Cloudy	Rough	10:38	7.5	Surface	1.0	0.3	191	15.8	15.8	7.8	7.8	31.8	31.8	95.0	95.0	7.8	7.8	5.9	6.3	8	9	81	82	818348	806455	<0.2	<0.2	1.2	1.1
						1.0	0.3	202	15.8		7.8		31.8		95.0		7.8		5.9		8		82				<0.2		1.4	
					Middle	3.8	0.3	186	15.8	15.8	7.7	7.7	31.9	31.9	95.0	95.0	7.8		6.5		10		82				<0.2		1.0	
						3.8	0.3	201	15.8		7.7		31.9		95.0		7.8		6.5		10		82				<0.2		1.0	
					Bottom	6.5	0.3	168	15.7	15.7	7.7	7.7	31.9	31.9	95.7	95.8	7.8	7.8	6.4		10		83				<0.2		1.0	
						6.5	0.3	174	15.7		7.7		31.9		95.8		7.8		6.4		10		83				<0.2		0.9	
IM2	Cloudy	Rough	10:46	7.4	Surface	1.0	0.3	190	15.8	15.8	7.8	7.8	31.9	31.9	95.2	95.2	7.8	7.8	5.9	6.1	10	10	80	82	818855	806173	<0.2	<0.2	1.1	1.0
						1.0	0.3	208	15.8		7.8		31.9		95.2		7.8		5.9		11		81				<0.2		0.8	
					Middle	3.7	0.3	184	15.8	15.8	7.8	7.8	31.9	31.9	95.5	95.5	7.8		6.0		11		82				<0.2		1.0	
						3.7	0.3	197	15.8		7.8		31.9		95.5		7.8		6.0		9		82				<0.2		1.2	
					Bottom	6.4	0.2	178	15.7	15.7	7.8	7.8	31.9	31.9	96.1	96.2	7.8	7.9	6.4		11		84				<0.2		0.9	
						6.4	0.3	180	15.7		7.8		31.9		96.2		7.9		6.4		10		83				<0.2		1.0	
IM3	Cloudy	Rough	10:58	8.3	Surface	1.0	0.5	223	15.8	15.8	7.8	7.8	32.0	32.0	95.8	95.8	7.8	7.8	6.3	6.5	9	11	82	83	819425	806000	<0.2	<0.2	1.1	1.1
						1.0	0.5	227	15.8		7.8		32.0		95.8		7.8		6.2		10		82				<0.2		1.2	
					Middle	4.2	0.4	219	15.8	15.8	7.8	7.8	32.0	32.0	96.1	96.1	7.8		6.5		12		83				<0.2		1.1	
						4.2	0.5	226	15.8		7.8		32.0		96.1		7.8		6.5		10		83				<0.2		1.0	
					Bottom	7.3	0.5	204	15.8	15.8	7.8	7.8	32.0	32.0	97.0	97.0	7.9	7.9	6.9		12		84				<0.2		0.9	
						7.3	0.5	216	15.8		7.8		31.9		97.0		7.9		6.8		12		84				<0.2		1.2	
IM4	Cloudy	Rough	11:06	7.8	Surface	1.0	0.8	223	15.8	15.8	7.8	7.8	32.1	32.1	96.6	96.6	7.9	7.9	9.6	9.8	14	14	82	83	819565	805031	<0.2	<0.2	0.9	1.0
						1.0	0.8	226	15.8		7.8		32.1		96.6		7.9		9.6		13		82				<0.2		1.0	
					Middle	3.9	0.8	219	15.8	15.8	7.8	7.8	32.1	32.1	96.8	96.8	7.9		9.8		14		83				<0.2		1.1	
						3.9	0.8	223	15.8		7.8		32.1		96.8		7.9		9.9		15		83				<0.2		1.0	
					Bottom	6.8	1.1	211	15.8	15.8	7.8	7.8	32.0	32.0	97.2	97.2	7.9	7.9	10.0		15		84				<0.2		1.2	
						6.8	1.1	224	15.8		7.8		32.0		97.2		7.9		10.0		15		84				<0.2		0.9	
IM5	Cloudy	Rough	11:14	7.0	Surface	1.0	0.7	214	16.0	16.0	7.7	7.7	31.5	31.5	96.2	96.2	7.8	7.9	5.5	6.6	11	11	80	81	820568	804919	<0.2	<0.2	1.3	1.1
						1.0	0.7	228	16.0		7.7		31.5		96.2		7.8		5.5		10		81				<0.2		1.1	
					Middle	3.5	0.6	223	16.0	16.0	7.7	7.7	31.5	31.5	96.6	96.6	7.9		6.0		11		81				<0.2		1.1	
						3.5	0.6	237	16.0		7.7		31.5		96.6		7.9		6.1		10		81				<0.2		1.1	
					Bottom	6.0	0.6	202	15.9	15.9	7.7	7.7	31.6	31.6	97.6	97.6	8.0	8.0	8.1		12		82				<0.2		1.2	
						6.0	0.6	222	15.9		7.7		31.6		97.6		8.0		8.1		11		82				<0.2		0.8	
IM6	Cloudy	Rough	11:24	6.8	Surface	1.0	0.8	206	16.3	16.3	7.7	7.7	30.8	30.8	95.2	95.3	7.8	7.8	4.5	5.4	9	9	82	83	821059	805840	<0.2	<0.2	1.3	1.3
						1.0	0.9	214	16.3		7.7		30.8		95.3		7.8		4.5		8		82				<0.2		1.5	
					Middle	3.4	0.7	197	16.2	16.2	7.7	7.7	30.9	30.9	95.9	96.0	7.8		5.7		9		83				<0.2		1.4	
						3.4	0.7	208	16.2		7.7		30.9		96.0		7.8		5.7		8		83				<0.2		1.4	
					Bottom	5.8	0.8	188	16.0	16.0	7.7	7.7	31.5	31.5	97.3	97.3	7.9	7.9	5.9		10		84				<0.2		1.3	
						5.8	0.8	195	16.0		7.7		31.5		97.3		7.9		5.8		10		84				<0.2		1.1	
IM7	Cloudy	Rough	11:33	7.6	Surface	1.0	0.4	226	16.3	16.3	7.7	7.7	30.8	30.8	95.7	95.8	7.8	7.8	3.6	4.9	8	8	83	84	821344	806816	<0.2	<0.2	1.4	1.3
						1.0	0.4	234	16.3		7.7		30.8		95.8		7.8		3.6		7		83				<0.2		1.3	
					Middle	3.8	0.4	210	16.2	16.2	7.7	7.7	31.0	31.1	96.5	96.5	7.8		4.8		8		84				<0.2		1.3	
						3.8	0.4	211	16.2		7.7		31.1		96.5		7.8		4.9		8		84				<0.2		1.3	
					Bottom	6.6	0.3	203	15.9	16.0	7.7	7.7	31.8	31.8	97.0	97.1	7.9	7.9	6.2		8		85				<0.2		1.2	
						6.6	0.3	223	16.0		7.7		31.8		97.1		7.9		6.2		9		85				<0.2		1.5	
IM8	Cloudy	Rough	10:45	8.1	Surface	1.0	0.9	220	19.1	19.1	7.9	7.9	28.4	28.4	96.9	96.9	7.6	7.6	7.0	7.4	6	7	77	81	821695	807841	<0.2	<0.2	1.3	1.3
						1.0	1.0	228	19.1		7.9		28.4		96.9		7.6		7.0		7		78				<0.2		1.2	
					Middle	4.1	0.7	216	19.1	19.1	7.9	7.9	28.5	28.5	97.2	97.2	7.6		7.4		5		81				<0.2		1.3	
						4.1	0.8	224	19.1		7.9		28.5		97.2		7.6		7.4		6		81				<0.2		1.4	
					Bottom	7.1	0.7	193	19.0	19.0	7.9	7.9	28.5	28.5	97.8	97.8	7.7	7.7	7.7		11		84				<0.2		1.1	
						7.1	0.8	209	19.0		7.9		28.5		97.8		7.7		7.7		9		83				<0.2		1.3	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 07 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Rough	10:37	7.1	Surface	1.0	0.6	200	19.2	19.2	7.9	7.9	28.3	28.3	95.6	95.6	7.5	7.5	7.4	8.6	5	6	79	82	822080	808800	<0.2	<0.2	1.3	1.3
						1.0	0.6	214	19.2		7.9		28.3		95.6		7.5		7.4		5		78				<0.2		1.3	
					Middle	3.6	0.7	191	19.2	19.2	7.9	7.9	28.3	28.3	95.6	95.6	7.5		7.6		6		82				<0.2		1.2	
						3.6	0.8	191	19.2		7.9		28.3		95.6		7.5		7.6		5		82				<0.2		1.4	
					Bottom	6.1	0.7	186	19.1	19.1	7.8	7.8	28.6	28.6	96.8	96.8	7.6	7.6	10.7		8		84				<0.2		1.4	
						6.1	0.8	189	19.1		7.8		28.6		96.8		7.6		10.7		6		84				<0.2		1.2	
IM10	Cloudy	Rough	10:29	7.5	Surface	1.0	0.9	195	19.2	19.2	7.9	7.9	28.4	28.4	96.1	96.1	7.5	7.5	6.8	8.2	5	5	79	82	822226	809847	<0.2	<0.2	1.2	1.2
						1.0	0.9	206	19.2		7.9		28.4		96.1		7.5		6.8		4		78				<0.2		1.2	
					Middle	3.8	0.9	188	19.1	19.1	7.9	7.9	28.5	28.5	95.3	95.3	7.5		8.3		3		82				<0.2		1.2	
						3.8	0.9	194	19.1		7.9		28.5		95.3		7.5		8.4		5		82				<0.2		1.2	
					Bottom	6.5	1.1	189	19.1	19.1	7.9	7.9	28.7	28.7	95.9	95.9	7.5	7.5	9.5		6		84				<0.2		1.2	
						6.5	1.2	206	19.1		7.9		28.7		95.9		7.5		9.5		4		84				<0.2		1.0	
IM11	Cloudy	Rough	10:20	8.9	Surface	1.0	0.8	189	19.1	19.1	7.8	7.8	28.9	28.9	94.5	94.5	7.4	7.4	8.5	9.0	7	7	77	81	821501	810539	<0.2	<0.2	1.0	1.0
						1.0	0.9	198	19.1		7.8		28.9		94.5		7.4		8.5		7		77				<0.2		1.0	
					Middle	4.5	0.8	200	19.1	19.1	7.8	7.8	28.9	28.9	94.6	94.6	7.4		8.8		7		81				<0.2		1.1	
						4.5	0.9	209	19.1		7.8		28.9		94.6		7.4		8.8		7		82				<0.2		1.0	
					Bottom	7.9	0.8	183	19.1	19.1	7.8	7.8	29.0	29.0	95.4	95.4	7.4	7.4	9.7		6		84				<0.2		1.1	
						7.9	0.9	193	19.1		7.8		29.0		95.4		7.4		9.7		8		84				<0.2		1.0	
IM12	Cloudy	Rough	10:08	9.0	Surface	1.0	0.9	206	19.1	19.1	7.9	7.9	29.0	29.0	93.4	93.4	7.3	7.3	7.4	7.5	7	6	78	81	821177	811510	<0.2	<0.2	0.8	1.0
						1.0	0.9	213	19.1		7.9		29.0		93.4		7.3		7.4		6		77				<0.2		0.9	
					Middle	4.5	0.8	165	19.1	19.1	7.8	7.8	29.0	29.0	93.3	93.3	7.3		7.4		7		81				<0.2		1.1	
						4.5	0.8	169	19.1		7.8		29.0		93.3		7.3		7.4		6		82				<0.2		0.8	
					Bottom	8.0	0.8	180	19.1	19.1	7.8	7.8	29.0	29.0	93.5	93.5	7.3	7.3	7.6		6		84				<0.2		1.0	
						8.0	0.9	181	19.1		7.8		29.0		93.5		7.3		7.6		6		84				<0.2		1.1	
SR2	Cloudy	Moderate	09:44	4.5	Surface	1.0	0.2	174	19.1	19.1	7.8	7.8	29.0	29.0	94.4	94.4	7.4	7.4	7.9	7.8	8	8	79	82	821445	814151	<0.2	<0.2	1.1	1.0
						1.0	0.2	178	19.1		7.8		29.0		94.4		7.4		7.9		7		80				<0.2		0.9	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	130	19.1	19.1	7.8	7.8	29.0	29.0	95.7	95.7	7.5	7.5	7.7		8		85				<0.2		0.9	
						3.5	0.2	130	19.1		7.8		29.0		95.7		7.5		7.7		7		84				<0.2		1.1	
SR3	Cloudy	Rough	10:52	9.0	Surface	1.0	0.9	225	19.4	19.4	7.8	7.8	27.5	27.5	95.7	95.7	7.5	7.5	6.6	6.7	5	7	-	-	822144	807587	-	-	-	-
						1.0	1.0	244	19.4		7.8		27.5		95.7		7.5		6.6		7		-				-		-	
					Middle	4.5	0.9	211	19.2	19.2	7.9	7.9	27.9	27.9	95.7	95.7	7.5		6.6		7		-				-		-	
						4.5	1.0	212	19.2		7.9		27.9		95.7		7.5		6.6		7		-				-		-	
					Bottom	8.0	0.8	215	19.1	19.1	7.9	7.9	28.3	28.3	95.6	95.6	7.5	7.5	6.8		8		-				-		-	
						8.0	0.9	223	19.1		7.9		28.3		95.6		7.5		6.8		7		-				-		-	
SR4A	Cloudy	Moderate	09:55	8.2	Surface	1.0	0.3	199	15.7	15.7	7.7	7.7	30.8	30.8	94.7	94.7	7.8	7.8	11.4	11.4	10	11	-	-	817185	807825	-	-	-	-
						1.0	0.3	215	15.7		7.7		30.8		94.7		7.8		11.5		11		-				-		-	
					Middle	4.1	0.3	186	15.7	15.7	7.7	7.7	30.8	30.8	94.8	94.8	7.8		11.7		11		-				-		-	
						4.1	0.3	201	15.7		7.7		30.8		94.8		7.8		11.7		11		-				-		-	
					Bottom	7.2	0.3	160	15.7	15.7	7.8	7.8	30.8	30.8	94.9	95.0	7.8	7.8	11.1		11		-				-		-	
						7.2	0.3	163	15.7		7.8		30.8		95.0		7.8		11.2		12		-				-		-	
SR5A	Cloudy	Moderate	09:37	4.5	Surface	1.0	0.2	208	15.9	15.9	7.7	7.7	29.8	29.8	94.4	94.4	7.8	7.8	7.8	8.2	8	8	-	-	816604	810703	-	-	-	-
						1.0	0.2	210	15.9		7.7		29.8		94.4		7.8		7.9		6		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	197	15.9	15.9	7.6	7.6	29.8	29.8	95.1	95.1	7.8	7.8	8.6		8		-				-		-	
						3.5	0.1	210	15.9		7.6		29.8		95.1		7.8		8.6		10		-				-		-	
SR6	Cloudy	Moderate	09:12	4.2	Surface	1.0	0.2	156	15.8	15.8	7.4	7.4	25.0	25.0	94.7	94.8	8.1	8.1	9.3	9.3	10	11	-	-	817902	814676	-	-	-	-
						1.0	0.2	169	15.8		7.4		24.9		94.8		8.1		9.2		8		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	136	15.8	15.8	7.4	7.4	23.4	23.4	98.0	98.1	8.4	8.4	9.4		13		-				-		-	
						3.2	0.2	136	15.8		7.4		23.3		98.1		8.4		9.4		11		-				-		-	
SR7	Cloudy	Moderate	08:33	16.2	Surface	1.0	0.3	115	18.8	18.8	7.9	7.9	30.1	30.1	89.6	89.6	7.0	7.0	5.0	5.3	5	6	-	-	823616	823747	-	-	-	-
						1.0	0.4	115	18.8		7.9		30.1		89.6		7.0		5.0		3		-				-		-	
					Middle	8.1	0.3	100	18.8	18.8	7.9	7.9	30.1	30.1	90.0	90.0	7.0		5.6		4		-				-		-	
						8.1	0.3	102	18.8		7.9		30.1		90.0		7.0		5.6		4		-				-		-	
					Bottom	15.2	1.1	146	18.8	18.8	7.9	7.9	30.1	30.1	91.5	91.6	7.1	7.1	5.3		10		-				-		-	
						15.2	1.1	157	18.8		7.9		30.1		91.6		7.1		5.3		12		-				-		-	
SR8	Cloudy	Moderate	09:59	5.2	Surface	1.0	0.4	227	19.3	19.3	7.8	7.8	28.9	28.9	94.7	94.7	7.4	7.4	8.9	8.7	8	9	-	-	820415	811594	-	-	-	-
						1.0	0.4	247	19.3		7.8		28.9		94.7		7.4		8.9		9		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.4	185	19.1	19.1	7.8	7.8	28.9	28.9	95.1	95.1	7.4	7.4	8.5		8		-				-		-	
						4.2	0.4	195	19.1		7.8		28.9		95.1		7.4		8.5		9		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 09 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Rough	16:50	6.7	Surface	1.0	0.6	88	15.6	15.6	7.6	7.6	30.4	30.4	99.5	99.5	8.2	8.3	11.2	11.4	13	14	83	84	815618	804239	<0.2	<0.2	0.9	1.0
						1.0	0.6	95	15.6		7.6		30.4		99.5		8.2		11.2		14		83				<0.2		1.1	
					Middle	3.4	0.6	78	15.6	15.6	7.6	7.6	30.2	30.2	100.1	100.1	8.3		11.2		14		84				<0.2		1.0	
						3.4	0.7	84	15.6		7.6		30.2		100.1		8.3		11.2		13		84				<0.2		0.9	
					Bottom	5.7	0.6	90	15.6	15.6	7.6	7.6	29.8	29.8	100.9	101.0	8.4	8.4	11.7		14		85				<0.2		0.9	
						5.7	0.6	90	15.6		7.6		29.8		101.0		8.4		11.7		13		85				<0.2		1.2	
C2	Cloudy	Rough	15:45	11.7	Surface	1.0	0.7	180	19.0	19.0	7.9	7.9	27.8	27.8	97.8	97.8	7.7	7.7	5.8	6.3	7	7	76	80	825674	806925	<0.2	<0.2	1.3	1.1
						1.0	0.7	187	19.0		7.9		27.8		97.8		7.7		5.9		7		75				<0.2		1.1	
					Middle	5.9	0.5	188	18.9	18.9	7.9	7.9	28.1	28.1	96.4	96.4	7.6		6.1		8		81				<0.2		1.2	
						5.9	0.5	199	18.9		7.9		28.1		96.4		7.6		6.1		6		81				<0.2		1.2	
					Bottom	10.7	0.5	157	18.8	18.8	7.9	7.9	29.2	29.2	97.7	97.8	7.6	7.7	7.0		6		84				<0.2		1.0	
						10.7	0.5	158	18.8		7.9		29.2		97.8		7.7		7.0		6		84				<0.2		1.0	
C3	Cloudy	Moderate	17:34	11.4	Surface	1.0	0.6	256	18.9	18.9	7.9	7.9	29.6	29.6	95.4	95.4	7.4	7.4	5.2	7.5	5	6	79	82	822096	817819	<0.2	<0.2	0.3	0.5
						1.0	0.6	270	18.9		7.9		29.6		95.4		7.4		5.2		7		80				<0.2		0.3	
					Middle	5.7	0.5	266	18.8	18.8	7.9	7.9	29.8	29.8	94.3	94.3	7.4		6.8		5		82				<0.2		0.6	
						5.7	0.6	283	18.8		7.9		29.8		94.3		7.4		6.8		6		81				<0.2		0.6	
					Bottom	10.4	0.4	264	18.7	18.7	7.9	7.9	30.0	30.0	95.9	95.9	7.5	7.5	10.4		6		84				<0.2		0.6	
						10.4	0.4	264	18.7		7.9		30.0		95.9		7.5		10.4		7		85				<0.2		0.6	
IM1	Sunny	Rough	16:32	6.8	Surface	1.0	0.5	144	15.8	15.8	7.6	7.6	30.3	30.3	100.6	100.6	8.3	8.3	4.7	6.1	5	6	83	84	818332	806461	<0.2	<0.2	0.9	0.9
						1.0	0.5	152	15.8		7.6		30.3		100.6		8.3		4.7		5		83				<0.2		1.0	
					Middle	3.4	0.5	133	15.7	15.7	7.6	7.6	30.3	30.3	100.9	100.9	8.3		6.1		5		83				<0.2		1.0	
						3.4	0.6	134	15.7		7.6		30.3		100.9		8.3		6.1		5		84				<0.2		0.8	
					Bottom	5.8	0.6	138	15.6	15.6	7.6	7.6	30.1	30.1	103.1	103.2	8.5	8.5	7.5		8		84				<0.2		0.8	
						5.8	0.7	141	15.6		7.6		30.1		103.2		8.5		7.4		7		85				<0.2		0.8	
IM2	Sunny	Rough	16:24	8.2	Surface	1.0	0.6	156	15.8	15.8	7.6	7.6	30.4	30.4	100.0	100.1	8.2	8.3	5.9	5.8	7	6	81	82	818845	806203	<0.2	<0.2	1.3	1.1
						1.0	0.7	167	15.8		7.6		30.4		100.1		8.3		6.0		6		81				<0.2		1.4	
					Middle	4.1	0.6	162	15.8	15.8	7.6	7.6	30.3	30.3	100.1	100.1	8.3		5.4		6		82				<0.2		1.0	
						4.1	0.6	165	15.8		7.6		30.3		100.1		8.3		5.5		6		81				<0.2		1.1	
					Bottom	7.2	0.5	158	15.7	15.7	7.6	7.6	28.9	28.9	105.0	105.0	8.7	8.7	5.8		7		82				<0.2		1.0	
						7.2	0.5	169	15.7		7.5		28.9		105.0		8.7		5.9		6		82				<0.2		1.0	
IM3	Sunny	Rough	16:17	8.4	Surface	1.0	0.6	164	15.8	15.8	7.6	7.6	29.8	29.8	100.6	100.7	8.3	8.4	6.1	6.3	7	7	80	81	819415	806012	<0.2	<0.2	1.1	1.1
						1.0	0.6	178	15.8		7.6		29.7		100.7		8.3		6.1		6		80				<0.2		1.2	
					Middle	4.2	0.6	166	15.8	15.8	7.6	7.6	29.6	29.6	101.4	101.5	8.4		6.6		7		81				<0.2		1.2	
						4.2	0.7	181	15.7		7.6		29.6		101.5		8.4		6.6		7		81				<0.2		1.0	
					Bottom	7.4	0.5	166	15.7	15.7	7.6	7.6	29.3	29.3	103.5	103.5	8.6	8.6	6.1		7		81				<0.2		1.1	
						7.4	0.5	174	15.7		7.6		29.3		103.5		8.6		6.2		7		82				<0.2		1.2	
IM4	Sunny	Rough	16:08	7.3	Surface	1.0	0.6	155	15.8	15.8	7.6	7.6	29.8	29.8	99.9	99.9	8.3	8.4	7.7	8.1	9	9	81	81	819557	805038	<0.2	<0.2	1.2	1.0
						1.0	0.7	158	15.8		7.6		29.7		99.9		8.3		7.7		10		80				<0.2		1.2	
					Middle	3.7	0.6	158	15.8	15.8	7.6	7.6	29.5	29.5	101.1	101.1	8.4		8.0		9		81				<0.2		0.9	
						3.7	0.7	158	15.8		7.6		29.5		101.1		8.4		8.0		8		81				<0.2		1.1	
					Bottom	6.3	0.6	155	15.7	15.7	7.5	7.5	28.9	28.9	104.4	104.4	8.7	8.7	8.6		8		82				<0.2		1.0	
						6.3	0.6	163	15.7		7.5		28.8		104.4		8.7		8.5		8		82				<0.2		0.8	
IM5	Sunny	Rough	16:01	6.8	Surface	1.0	0.5	138	15.8	15.8	7.6	7.6	29.4	29.4	98.2	98.3	8.1	8.1	10.5	11.7	12	11	79	80	820559	804912	<0.2	<0.2	1.2	1.2
						1.0	0.5	150	15.8		7.6		29.4		98.3		8.1		10.5		11		80				<0.2		1.0	
					Middle	3.4	0.5	139	15.8	15.8	7.6	7.6	29.3	29.3	97.7	97.7	8.1		11.6		11		80				<0.2		0.9	
						3.4	0.5	139	15.7		7.6		29.3		97.7		8.1		11.7		10		81				<0.2		1.0	
					Bottom	5.8	0.6	138	15.6	15.6	7.6	7.6	29.9	29.9	97.9	98.0	8.1	8.1	13.0		11		81				<0.2		1.5	
						5.8	0.6	144	15.6		7.6		29.8		98.0		8.1		12.9		11		81				<0.2		1.4	
IM6	Sunny	Rough	15:51	6.7	Surface	1.0	0.6	112	15.9	15.9	7.6	7.6	28.4	28.4	98.5	98.5	8.2	8.4	11.4	12.7	11	12	80	81	821047	805844	<0.2	<0.2	1.5	1.4
						1.0	0.6	114	15.9		7.6		28.4		98.5		8.2		11.4		10		80				<0.2		1.6	
					Middle	3.4	0.5	121	15.8	15.8	7.5	7.5	27.5	27.5	102.1	102.1	8.5		13.8		11		81				<0.2		1.2	
						3.4	0.5	128	15.8		7.5		27.4		102.1		8.6		13.9		12		81				<0.2		1.4	
					Bottom	5.7	0.5	118	15.8	15.8	7.5	7.5	26.3	26.3	104.3	104.4	8.8	8.8	12.8		14		82				<0.2		1.3	
						5.7	0.5	120	15.8		7.5		26.3		104.4		8.8		12.7		13		82				<0.2		1.2	
IM7	Sunny	Rough	15:40	8.2	Surface	1.0	0.7	111	15.9	15.9	7.6	7.6	28.5	28.5	98.8	98.9	8.2	8.3	7.3	7.8	8	9	82	83	821353	806825	<0.2	<0.2	1.1	1.2
						1.0	0.7	112	15.9		7.6		28.5		98.9		8.2		7.3		8		83				<0.2		1.1	
					Middle	4.1	0.6	118	15.9	15.9	7.6	7.6	27.9	27.9	100.2	100.3	8.4		7.8		9		83				<0.2		1.5	
						4.1	0.7	128	15.9		7.6		27.9		100.3		8.4		7.8		9		83				<0.2		1.2	
					Bottom	7.2	0.6	120	15.8	15.8	7.5	7.5	27.1	27.1	102.6	102.7	8.6	8.6	8.3		10		84				<0.2		1.2	
						7.2	0.7	130	15.8		7.5		27.0		102.7		8.6		8.3		10		84				<0.2		1.0	
IM8	Cloudy	Rough	16:11	8.1	Surface	1.0	0.6	185	18.9	18.9	7.9	7.9	27.3	27.3	99.1	99.1	7.8	7.9	8.5	8.9	7	7	77	81	821675	807855	<0.2	<0.2	1.4	1.2
						1.0	0.6	190	18.9		7.9		27.3		99.1		7.8		8.5		7		77				<0.2		1.2	
					Middle	4.1	0.6	180	18.9	18.9	7.9	7.9	27.4	27.4	99.4	99.4	7.9		9.0		7		82				<0.2		1.4	
						4.1	0.7	192	18.9		7.9		27.4		99.4		7.9		9.0		7		82				<0.2		1.4	
					Bottom	7.1	0.5	186	18.8	18.8	7.9	7.9	27.7	27.7	100.2	100.2	7.9	7.9	9.3		7		83				<0.2		0.9	
						7.1	0.5	190	18.8		7.9		27.7		100.2		7.9		9.3		6		84				<0.2		1.0	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 09 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Rough	16:19	7.3	Surface	1.0	0.7	185	18.9	18.9	7.9	7.9	27.2	27.2	100.0	100.0	7.9	8.0	6.9	7.6	6	6	78	81	822099	808813	<0.2	<0.2	1.3	1.4
						1.0	0.8	199	18.9		7.9		27.2		100.0		7.9		6.9		4		78				<0.2		1.5	
					Middle	3.7	0.6	200	18.9	18.9	7.9	7.9	27.2	27.2	101.2	101.2	8.0		7.6		6		82				<0.2		1.3	
						3.7	0.6	202	18.9		7.9		27.2		101.2		8.0		7.6		5		81				<0.2		1.3	
					Bottom	6.3	0.6	233	18.9	18.9	7.8	7.8	27.4	27.4	106.9	106.9	8.5	8.5	8.3		8		83				<0.2		1.4	
						6.3	0.7	252	18.9		7.8		27.4		106.9		8.5		8.3		7		84				<0.2		1.3	
IM10	Cloudy	Rough	16:26	8.0	Surface	1.0	0.6	199	18.9	18.9	7.9	7.9	27.6	27.6	100.0	100.0	7.9	8.0	6.8	9.7	7	8	77	81	822258	809840	<0.2	<0.2	1.6	1.4
						1.0	0.6	206	18.9		7.9		27.6		100.0		7.9		6.8		5		78				<0.2		1.5	
					Middle	4.0	0.5	198	18.8	18.8	7.9	7.9	27.8	27.8	100.8	100.8	8.0		9.5		6		82				<0.2		1.6	
						4.0	0.5	216	18.8		7.9		27.8		100.8		8.0		9.5		5		81				<0.2		1.3	
					Bottom	7.0	0.6	219	18.7	18.7	7.9	7.9	28.2	28.2	104.3	104.3	8.2	8.2	12.9		12		83				<0.2		1.1	
						7.0	0.6	224	18.7		7.9		28.2		104.3		8.2		12.9		12		84				<0.2		1.3	
IM11	Cloudy	Rough	16:33	8.2	Surface	1.0	0.5	191	18.8	18.8	7.9	7.9	28.2	28.2	100.4	100.4	7.9	7.9	8.1	8.5	8	8	78	81	821509	810544	<0.2	<0.2	1.0	1.2
						1.0	0.5	191	18.8		7.9		28.2		100.4		7.9		8.1		7		78				<0.2		1.1	
					Middle	4.1	0.6	202	18.8	18.8	7.9	7.9	28.2	28.2	100.3	100.3	7.9		9.3		7		82				<0.2		1.3	
						4.1	0.6	214	18.8		7.9		28.2		100.3		7.9		9.3		8		82				<0.2		1.1	
					Bottom	7.2	0.6	217	18.7	18.7	8.0	8.0	28.3	28.3	101.3	101.4	8.0	8.0	8.0		8		83				<0.2		1.1	
						7.2	0.6	231	18.7		8.0		28.3		101.4		8.0		7.9		10		84				<0.2		1.3	
IM12	Cloudy	Rough	16:41	8.8	Surface	1.0	0.7	224	18.9	18.9	7.9	7.9	28.4	28.4	98.3	98.3	7.7	7.7	6.9	9.7	5	6	77	81	821143	811523	<0.2	<0.2	1.2	1.2
						1.0	0.8	240	18.9		7.9		28.4		98.3		7.7		6.9		7		77				<0.2		1.1	
					Middle	4.4	0.8	242	18.9	18.9	7.9	7.9	28.4	28.4	97.0	97.0	7.6		8.1		6		81				<0.2		1.2	
						4.4	0.8	261	18.9		7.9		28.4		97.0		7.6		8.1		5		82				<0.2		1.3	
					Bottom	7.8	0.7	255	18.8	18.8	7.9	7.9	29.2	29.2	95.8	95.8	7.5	7.5	14.1		5		83				<0.2		1.1	
						7.8	0.7	266	18.8		7.9		29.2		95.8		7.5		14.1		5		84				<0.2		1.0	
SR2	Cloudy	Moderate	17:09	3.8	Surface	1.0	0.2	165	19.0	19.0	7.9	7.9	28.8	28.8	98.6	98.6	7.7	7.7	6.8	7.7	6	6	78	81	821475	814167	<0.2	<0.2	0.8	0.7
						1.0	0.2	167	19.0		7.9		28.8		98.6		7.7		6.8		7		79				<0.2		0.6	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.2	144	18.9	18.9	7.9	7.9	29.0	29.0	100.9	100.9	7.9	7.9	8.6		5		84				<0.2		0.6	
						2.8	0.3	150	18.9		7.9		29.0		100.9		7.9		8.6		6		84				<0.2		0.7	
SR3	Cloudy	Rough	16:06	8.9	Surface	1.0	0.5	177	18.9	18.9	7.9	7.9	27.4	27.4	99.2	99.2	7.8	7.9	8.1	8.3	8	7	-	-	822136	807567	-	-	-	-
						1.0	0.5	183	18.9		7.9		27.4		99.2		7.8		8.1		7		-				-		-	
					Middle	4.5	0.5	188	18.9	18.9	7.9	7.9	27.5	27.5	99.7	99.7	7.9		8.3		8		-				-		-	
						4.5	0.5	197	18.9		7.9		27.5		99.7		7.9		8.3		7		-				-		-	
					Bottom	7.9	0.5	196	18.8	18.8	7.9	7.9	27.6	27.6	100.4	100.4	7.9	7.9	8.4		6		-				-		-	
						7.9	0.5	199	18.8		7.9		27.6		100.4		7.9		8.4		8		-				-		-	
SR4A	Sunny	Moderate	17:10	9.1	Surface	1.0	0.4	222	15.6	15.6	7.5	7.5	30.3	30.3	98.3	98.3	8.1	8.2	13.3	14.1	12	13	-	-	817186	807813	-	-	-	-
						1.0	0.4	226	15.6		7.5		30.2		98.3		8.1		13.3		12		-				-		-	
					Middle	4.6	0.4	238	15.6	15.6	7.5	7.5	30.1	30.1	99.0	99.1	8.2		14.6		14		-				-		-	
						4.6	0.4	250	15.6		7.5		30.1		99.1		8.2		14.6		14		-				-		-	
					Bottom	8.1	0.5	241	15.5	15.5	7.5	7.5	29.5	29.5	100.8	100.8	8.4	8.4	14.3		14		-				-		-	
						8.1	0.5	250	15.5		7.5		29.5		100.8		8.4		14.3		12		-				-		-	
SR5A	Sunny	Moderate	17:27	5.2	Surface	1.0	0.3	238	15.8	15.8	7.5	7.5	29.6	29.6	101.7	101.8	8.4	8.4	8.4	8.7	7	7	-	-	816585	810700	-	-	-	-
						1.0	0.3	254	15.8		7.5		29.6		101.8		8.4		8.4		8		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.5	244	15.8	15.8	7.5	7.5	28.7	28.7	104.1	104.2	8.7	8.7	8.9		7		-				-		-	
						4.2	0.6	247	15.8		7.4		28.7		104.2		8.7		9.0		7		-				-		-	
SR6	Sunny	Moderate	17:58	4.4	Surface	1.0	0.3	254	16.0	16.0	7.6	7.6	29.1	29.1	101.7	101.8	8.4	8.4	6.4	8.3	8	7	-	-	817896	814675	-	-	-	-
						1.0	0.3	277	16.0		7.6		29.1		101.8		8.4		6.5		7		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.4	256	16.0	16.0	7.5	7.5	27.8	27.8	104.6	104.6	8.7	8.7	10.0		6		-				-		-	
						3.4	0.4	278	16.0		7.5		27.8		104.6		8.7		10.2		7		-				-		-	
SR7	Cloudy	Moderate	18:10	16.2	Surface	1.0	0.3	108	18.5	18.5	7.9	7.9	30.2	30.2	93.7	93.7	7.3	7.4	6.5	7.1	7	7	-	-	823646	823742	-	-	-	-
						1.0	0.4	108	18.5		7.9		30.2		93.7		7.3		6.5		8		-				-		-	
					Middle	8.1	0.3	109	18.5	18.5	7.9	7.9	30.2	30.2	95.3	95.3	7.5		7.0		8		-				-		-	
						8.1	0.3	112	18.5		7.9		30.2		95.3		7.5		7.0		6		-				-		-	
					Bottom	15.2	0.3	111	18.5	18.5	7.9	7.9	30.2	30.2	99.2	99.2	7.8	7.8	7.7		7		-				-		-	
						15.2	0.3	120	18.5		7.9		30.2		99.2		7.8		7.7		7		-				-		-	
SR8	Cloudy	Moderate	16:48	4.5	Surface	1.0	0.4	235	18.9	18.9	7.9	7.9	28.1	28.1	101.3	101.3	8.0	8.0	7.1	7.4	6	6	-	-	820406	811574	-	-	-	-
						1.0	0.4	248	18.9		7.9		28.1		101.3		8.0		7.1		6		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.4	256	18.9	18.9	7.9	7.9	28.1	28.1	102.5	102.6	8.1	8.1	7.7		4		-				-		-	
						3.5	0.5	269	18.9		7.9		28.1		102.7		8.1		7.8		6		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 09 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Rough	12:15	7.6	Surface	1.0	0.6	122	15.5	15.5	7.6	7.6	27.2	27.2	99.7	99.7	8.4	8.5	8.0	9.4	8	10	83	84	815609	804256	<0.2	<0.2	1.1	1.2
						1.0	0.6	127	15.5		7.6		27.1		99.7		8.4		8.0		8		83				<0.2		1.1	
					Middle	3.8	0.6	120	15.5	15.5	7.6	7.6	26.1	26.1	100.3	100.3	8.5		8.5		8		84				<0.2		1.3	
						3.8	0.6	128	15.5		7.6		26.1		100.3		8.5		8.6		10		84				<0.2		1.2	
					Bottom	6.6	0.6	122	15.4	15.4	7.5	7.5	24.7	24.7	102.6	102.7	8.8	8.8	11.6		13		84				<0.2		1.0	
						6.6	0.6	124	15.4		7.5		24.6		102.7		8.8		11.6		11		85				<0.2		1.2	
C2	Cloudy	Rough	13:35	11.6	Surface	1.0	0.7	166	18.9	18.9	7.9	7.9	27.7	27.7	97.1	97.1	7.7	7.7	7.0	7.1	8	9	77	81	825664	806963	<0.2	<0.2	1.6	1.3
						1.0	0.8	170	18.9		7.9		27.7		97.1		7.7		7.0		9		76				<0.2		1.3	
					Middle	5.8	0.6	204	18.8	18.8	7.9	7.9	29.1	29.1	97.0	97.0	7.6		7.2		11		82				<0.2		1.6	
						5.8	0.6	219	18.8		7.9		29.1		97.0		7.6		7.2		9		81				<0.2		1.6	
					Bottom	10.6	0.6	204	18.8	18.8	7.9	7.9	29.3	29.3	101.5	101.5	7.9	7.9	7.1		9		84				<0.2		0.8	
						10.6	0.6	221	18.8		7.9		29.3		101.5		7.9		7.1		9		83				<0.2		0.9	
C3	Cloudy	Moderate	11:18	12.4	Surface	1.0	0.2	208	18.7	18.7	7.9	7.9	30.1	30.1	93.5	93.6	7.3	7.4	6.2	6.4	6	9	80	82	822099	817822	<0.2	<0.2	0.5	0.5
						1.0	0.2	222	18.7		7.9		30.1		93.6		7.3		6.2		8		79				<0.2		0.6	
					Middle	6.2	0.2	204	18.6	18.6	7.9	7.9	30.1	30.1	95.1	95.2	7.4		6.5		9		81				<0.2		0.6	
						6.2	0.2	212	18.6		7.9		30.1		95.2		7.4		6.6		11		82				<0.2		0.4	
					Bottom	11.4	0.2	226	18.6	18.6	7.9	7.9	30.1	30.1	97.9	97.9	7.7	7.7	6.4		9		83				<0.2		0.5	
						11.4	0.2	234	18.6		7.9		30.1		97.9		7.7		6.4		8		84				<0.2		0.5	
IM1	Sunny	Rough	12:46	6.6	Surface	1.0	0.7	168	15.7	15.7	7.6	7.6	28.3	28.3	99.3	99.3	8.3	8.4	5.7	7.0	8	9	82	83	818362	806468	<0.2	<0.2	1.4	1.2
						1.0	0.7	171	15.7		7.6		28.3		99.3		8.3		5.7		6		82				<0.2		1.1	
					Middle	3.3	0.7	166	15.6	15.6	7.6	7.6	27.3	27.3	100.4	100.4	8.5		6.4		9		82				<0.2		1.1	
						3.3	0.7	169	15.6		7.6		27.3		100.4		8.5		6.5		10		83				<0.2		1.2	
					Bottom	5.6	0.7	170	15.5	15.5	7.5	7.5	25.6	25.6	103.0	103.0	8.8	8.8	8.8		12		83				<0.2		1.0	
						5.6	0.8	180	15.5		7.5		25.5		103.0		8.8		8.6		10		83				<0.2		1.2	
IM2	Sunny	Rough	12:59	8.2	Surface	1.0	0.7	177	15.8	15.8	7.6	7.6	28.4	28.4	100.3	100.3	8.4	8.5	4.7	6.4	6	7	82	83	818848	806187	<0.2	<0.2	1.0	1.0
						1.0	0.7	191	15.8		7.6		28.4		100.3		8.4		4.8		7		82				<0.2		1.0	
					Middle	4.1	0.7	178	15.7	15.7	7.6	7.6	27.9	27.9	101.6	101.7	8.5		6.6		6		83				<0.2		0.9	
						4.1	0.8	183	15.7		7.6		27.8		101.7		8.5		6.7		7		83				<0.2		1.2	
					Bottom	7.2	0.7	178	15.6	15.6	7.5	7.5	27.2	27.2	102.9	103.0	8.7	8.7	7.7		8		84				<0.2		0.9	
						7.2	0.8	188	15.6		7.5		27.2		103.0		8.7		7.7		9		83				<0.2		1.2	
IM3	Sunny	Rough	13:14	8.3	Surface	1.0	0.7	179	15.7	15.7	7.6	7.6	29.3	29.3	99.2	99.2	8.3	8.3	7.7	8.1	9	10	81	82	819396	806012	<0.2	<0.2	0.8	1.1
						1.0	0.7	180	15.7		7.6		29.3		99.2		8.3		7.7		10		81				<0.2		1.0	
					Middle	4.2	0.7	180	15.6	15.6	7.6	7.6	28.7	28.7	99.9	99.9	8.3		7.9		9		82				<0.2		1.0	
						4.2	0.8	187	15.6		7.6		28.7		99.9		8.3		7.9		10		82				<0.2		0.9	
					Bottom	7.3	0.7	188	15.6	15.6	7.6	7.6	28.0	28.0	101.6	101.6	8.5	8.5	8.6		11		83				<0.2		1.5	
						7.3	0.8	203	15.6		7.6		28.0		101.6		8.5		8.6		10		83				<0.2		1.6	
IM4	Sunny	Rough	13:25	7.6	Surface	1.0	0.8	181	15.8	15.8	7.6	7.6	29.2	29.2	99.9	99.9	8.3	8.4	9.1	10.6	11	12	81	82	819579	805028	<0.2	<0.2	1.5	1.4
						1.0	0.8	185	15.8		7.6		29.2		99.9		8.3		9.1		12		80				<0.2		1.6	
					Middle	3.8	0.8	180	15.8	15.8	7.6	7.6	28.9	28.9	100.6	100.7	8.4		9.8		11		81				<0.2		1.4	
						3.8	0.9	187	15.8		7.6		28.9		100.7		8.4		9.8		13		82				<0.2		1.5	
					Bottom	6.6	0.7	181	15.7	15.7	7.5	7.5	27.3	27.3	104.1	104.1	8.8	8.8	12.8		12		83				<0.2		0.9	
						6.6	0.8	194	15.7		7.5		27.3		104.1		8.8		12.8		12		83				<0.2		1.2	
IM5	Sunny	Rough	13:38	6.2	Surface	1.0	0.7	168	15.8	15.8	7.6	7.6	28.9	28.9	99.2	99.2	8.3	8.4	8.2	10.4	8	10	80	81	820545	804931	<0.2	<0.2	1.4	1.2
						1.0	0.8	184	15.8		7.6		28.8		99.2		8.3		8.2		10		80				<0.2		1.5	
					Middle	3.1	0.8	171	15.8	15.8	7.6	7.6	28.2	28.2	100.7	100.8	8.4		10.4		11		81				<0.2		1.0	
						3.1	0.9	181	15.8		7.6		28.2		100.8		8.4		10.5		9		81				<0.2		0.9	
					Bottom	5.2	0.7	172	15.7	15.7	7.6	7.6	27.7	27.7	102.7	102.8	8.6	8.6	12.5		11		82				<0.2		0.9	
						5.2	0.7	173	15.7		7.6		27.6		102.8		8.6		12.5		13		82				<0.2		1.2	
IM6	Sunny	Rough	13:53	6.5	Surface	1.0	0.8	188	15.8	15.8	7.6	7.6	28.7	28.7	98.2	98.3	8.2	8.2	14.2	15.8	15	15	82	83	821059	805838	<0.2	<0.2	1.3	1.4
						1.0	0.8	193	15.8		7.6		28.7		98.3		8.2		14.3		15		82				<0.2		1.6	
					Middle	3.3	0.8	192	15.8	15.8	7.6	7.6	28.5	28.5	98.7	98.8	8.2		13.3		13		83				<0.2		1.3	
						3.3	0.8	205	15.8		7.6		28.5		98.8		8.2		13.3		15		84				<0.2		1.1	
					Bottom	5.5	0.8	189	15.8	15.8	7.6	7.6	28.2	28.2	99.9	100.0	8.3	8.3	19.7		16		84				<0.2		1.5	
						5.5	0.8	195	15.8		7.6		28.1		100.0		8.3		19.8		16		84				<0.2		1.6	
IM7	Sunny	Rough	13:50	7.6	Surface	1.0	0.8	191	15.9	15.9	7.6	7.6	28.7	28.7	99.1	99.1	8.2	8.4	14.6	14.3	14	15	83	84	821352	806824	<0.2	<0.2	1.5	1.4
						1.0	0.8	201	15.9		7.6		28.7		99.1		8.2		14.8		14		83				<0.2		1.5	
					Middle	3.8	0.8	188	15.9	15.9	7.6	7.6	28.2	28.2	101.6	101.7	8.5		13.6		14		84				<0.2		1.4	
						3.8	0.8	196	15.9		7.6		28.2		101.7		8.5		13.7		15		84				<0.2		1.3	
					Bottom	6.6	0.8	192	15.8	15.8	7.5	7.5	27.9	27.9	103.7	103.8	8.7	8.7	14.7		17		85				<0.2		1.2	
						6.6	0.8	209	15.8		7.5		27.8		103.8		8.7		14.6		16		85				<0.2		1.4	
IM8	Cloudy	Rough	13:05	7.4	Surface	1.0	0.8	157	18.8	18.8	7.9	7.9	27.6	27.6	98.5	98.5	7.8	7.8	9.5	10.5	9	11	78	81	821710	807846	<0.2	<0.2	1.8	1.7
						1.0	0.8	163	18.8		7.9		27.6		98.5		7.8		9.5		10		78				<0.2		1.7	
					Middle	3.7	0.6	141	18.8	18.8	7.9	7.9	27.8	27.8	98.9	98.9	7.8		10.5		10		82				<0.2		1.6	
						3.7	0.7	143	18.8		7.9		27.8		98.9		7.8		10.5		12		81				<0.2		1.6	
					Bottom	6.4	0.7	140	18.5	18.5	7.9	7.9	28.5	28.5	100.2	100.2	7.9	7.9	11.4		15		84				<0.2		1.9	
						6.4	0.7	142	18.5		7.9		28.5		100.2		7.9		11.4		12		84				<0.2		1.8	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 09 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Rough	12:56	7.1	Surface	1.0	0.7	123	18.8	18.8	7.9	7.9	27.7	27.7	98.5	98.5	7.8	7.8	10.5	13.3	13	15	79	81	822099	808828	<0.2	<0.2	1.3	1.2
						1.0	0.7	135	18.8		7.9		27.7		98.5		7.8		10.5		11		78				<0.2		1.3	
					Middle	3.6	0.5	139	18.8	18.8	7.9	7.9	27.8	27.8	99.1	99.1	7.8		12.5		15		82				<0.2		1.2	
						3.6	0.6	151	18.8		7.9		27.8		99.1		7.8		12.5		17		81				<0.2		1.3	
					Bottom	6.1	0.6	146	18.6	18.6	7.9	7.9	28.4	28.4	101.4	101.5	8.0	8.0	16.8		18		84				<0.2		1.2	
						6.1	0.6	159	18.6		7.9		28.4		101.5		8.0		16.9		16		84				<0.2		1.1	
IM10	Cloudy	Rough	12:46	7.1	Surface	1.0	0.8	138	18.9	18.9	7.9	7.9	28.0	28.0	98.3	98.3	7.8	7.8	9.1	10.1	11	11	78	81	822225	809840	<0.2	<0.2	1.3	1.3
						1.0	0.8	139	18.9		7.9		28.0		98.3		7.8		9.1		12		77				<0.2		1.6	
					Middle	3.6	0.8	134	18.8	18.8	7.9	7.9	28.2	28.2	97.7	97.7	7.7		10.3		10		81				<0.2		1.5	
						3.6	0.8	134	18.8		7.9		28.2		97.7		7.7		10.3		10		82				<0.2		1.4	
					Bottom	6.1	0.8	149	18.7	18.7	7.9	7.9	28.6	28.6	98.6	98.6	7.8	7.8	11.0		12		84				<0.2		1.0	
						6.1	0.9	162	18.7		7.9		28.6		98.6		7.8		11.0		11		83				<0.2		1.1	
IM11	Cloudy	Rough	12:36	8.0	Surface	1.0	0.7	119	18.9	18.9	7.9	7.9	28.1	28.1	99.1	99.1	7.8	7.8	7.3	7.6	10	10	79	81	821502	810532	<0.2	<0.2	1.6	1.3
						1.0	0.8	128	18.9		7.9		28.1		99.1		7.8		7.3		8		78				<0.2		1.4	
					Middle	4.0	0.7	121	18.8	18.8	7.9	7.9	28.3	28.3	99.1	99.1	7.8		7.6		11		82				<0.2		1.2	
						4.0	0.7	128	18.8		7.9		28.3		99.1		7.8		7.6		12		81				<0.2		1.4	
					Bottom	7.0	0.6	151	18.8	18.8	7.9	7.9	28.7	28.7	101.7	101.7	8.0	8.0	8.0		10		84				<0.2		1.1	
						7.0	0.7	153	18.8		7.9		28.7		101.7		8.0		8.0		11		83				<0.2		0.9	
IM12	Cloudy	Rough	12:26	8.5	Surface	1.0	0.8	139	18.9	18.9	7.9	7.9	28.3	28.3	99.6	99.6	7.8	7.8	6.7	7.7	10	11	78	81	821179	811519	<0.2	<0.2	1.0	1.0
						1.0	0.8	149	18.9		7.9		28.3		99.6		7.8		6.7		11		77				<0.2		1.0	
					Middle	4.3	0.7	127	18.8	18.8	7.9	7.9	28.7	28.7	97.9	97.9	7.7		8.0		12		81				<0.2		1.1	
						4.3	0.8	137	18.8		7.9		28.7		97.9		7.7		8.0		11		81				<0.2		1.0	
					Bottom	7.5	0.8	146	18.8	18.8	7.9	7.9	28.8	28.8	99.6	99.6	7.8	7.8	8.3		11		84				<0.2		1.1	
						7.5	0.8	146	18.8		7.9		28.8		99.6		7.8		8.3		13		83				<0.2		1.0	
SR2	Cloudy	Moderate	11:42	4.5	Surface	1.0	0.3	100	18.8	18.8	7.9	7.9	28.8	28.8	101.9	101.9	8.0	8.0	8.4	12.5	11	10	78	81	821475	814166	<0.2	<0.2	0.9	1.0
						1.0	0.4	102	18.8		7.9		28.8		101.9		8.0		8.4		9		79				<0.2		1.0	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.3	111	18.8	18.8	7.8	7.8	29.3	29.3	109.1	109.1	8.5	8.5	16.6		9		83				<0.2		1.0	
						3.5	0.4	122	18.8		7.8		29.3		109.1		8.5		16.6		10		84				<0.2		1.0	
SR3	Cloudy	Rough	13:11	8.7	Surface	1.0	0.6	169	18.8	18.8	7.9	7.9	27.4	27.4	98.4	98.4	7.8	7.8	9.3	10.9	10	11	-	-	822144	807587	-	-	-	-
						1.0	0.6	181	18.8		7.9		27.4		98.4		7.8		9.3		12		-				-		-	
					Middle	4.4	0.6	165	18.8	18.8	7.9	7.9	27.6	27.6	99.0	99.0	7.8		10.5		10		-				-		-	
						4.4	0.6	177	18.8		7.9		27.6		99.0		7.8		10.5		12		-				-		-	
					Bottom	7.7	0.5	178	18.6	18.6	7.9	7.9	28.2	28.2	102.7	102.7	8.1	8.1	12.8		13		-				-		-	
						7.7	0.5	178	18.6		7.9		28.2		102.7		8.1		12.8		11		-				-		-	
SR4A	Cloudy	Moderate	11:49	8.3	Surface	1.0	0.4	88	15.5	15.5	7.6	7.6	26.8	26.8	97.3	97.3	8.2	8.3	16.7	17.6	17	20	-	-	817205	807828	-	-	-	-
						1.0	0.4	95	15.5		7.6		26.8		97.2		8.2		16.8		18		-				-		-	
					Middle	4.2	0.4	92	15.5	15.5	7.6	7.6	26.5	26.5	97.3	97.3	8.3		17.7		21		-				-		-	
						4.2	0.4	94	15.5		7.6		26.5		97.3		8.3		17.8		20		-				-		-	
					Bottom	7.3	0.4	90	15.4	15.4	7.6	7.6	25.5	25.5	98.4	98.5	8.4	8.4	18.3		20		-				-		-	
						7.3	0.4	92	15.4		7.6		25.4		98.5		8.4		18.3		21		-				-		-	
SR5A	Sunny	Moderate	11:30	4.8	Surface	1.0	0.4	97	15.6	15.6	7.5	7.5	24.8	24.8	98.3	98.4	8.4	8.4	9.2	9.4	12	11	-	-	816609	810676	-	-	-	-
						1.0	0.4	98	15.6		7.5		24.8		98.4		8.4		9.3		10		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.4	100	15.5	15.5	7.4	7.4	23.1	23.1	100.7	100.8	8.7	8.7	9.4		10		-				-		-	
						3.8	0.4	106	15.5		7.4		23.1		100.8		8.7		9.5		10		-				-		-	
SR6	Sunny	Moderate	11:04	4.5	Surface	1.0	0.4	92	15.5	15.5	7.4	7.4	25.6	25.6	98.9	99.0	8.4	8.4	16.8	15.4	22	22	-	-	817890	814670	-	-	-	-
						1.0	0.4	99	15.5		7.4		25.6		99.0		8.4		16.6		22		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.4	112	15.5	15.5	7.3	7.3	23.3	23.3	102.5	102.6	8.9	8.9	14.2		22		-				-		-	
						3.5	0.4	115	15.5		7.3		23.3		102.6		8.9		14.0		22		-				-		-	
SR7	Cloudy	Moderate	10:46	16.2	Surface	1.0	0.3	126	18.6	18.6	7.9	7.9	30.1	30.1	91.8	91.8	7.2	7.2	6.6	7.7	6	10	-	-	823629	823743	-	-	-	-
						1.0	0.3	132	18.6		7.9		30.1		91.8		7.2		6.7		7		-				-		-	
					Middle	8.1	0.2	89	18.5	18.5	7.9	7.9	30.2	30.2	92.0	92.1	7.2		7.9		9		-				-		-	
						8.1	0.2	97	18.5		7.9		30.2		92.1		7.2		7.9		11		-				-		-	
					Bottom	15.2	0.2	72	18.5	18.5	7.9	7.9	30.2	30.2	95.2	95.2	7.5	7.5	8.4		11		-				-		-	
						15.2	0.2	75	18.5		7.9		30.2		95.2		7.5		8.4		13		-				-		-	
SR8	Cloudy	Moderate	11:59	4.8	Surface	1.0	0.3	142	18.8	18.8	7.9	7.9	28.6	28.6	98.4	98.4	7.7	7.7	9.8	10.9	8	10	-	-	820411	811606	-	-	-	-
						1.0	0.3	154	18.8		7.9		28.6		98.4		7.7		9.8		10		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.3	141	18.8	18.8	7.9	7.9	28.7	28.7	102.7	102.7	8.1	8.1	11.9		12		-				-		-	
						3.8	0.3	149	18.8		7.9		28.7		102.7		8.1		11.9		10		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 11 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Rough	07:56	6.7	Surface	1.0	0.6	77	14.3	14.3	8.1	8.1	32.5	32.5	96.4	96.4	8.1	8.1	20.2	21.3	22	24	83	84	815629	804228	<0.2	<0.2	0.9	1.0
						1.0	0.6	77	14.3		8.1		32.5		96.4		8.1		20.3		21		83				<0.2		1.2	
					Middle	3.4	0.6	89	14.2	14.2	8.0	8.0	32.6	32.6	96.4	96.4	8.1		21.5		22		84				<0.2		1.2	
						3.4	0.6	94	14.2		8.0		32.6		96.4		8.1		21.5		22		84				<0.2		1.2	
					Bottom	5.7	0.5	76	14.1	14.1	8.0	8.0	32.6	32.6	96.3	96.3	8.1	8.1	22.1		28		84				<0.2		0.7	
						5.7	0.5	76	14.1		8.0		32.6		96.3		8.1		22.2		27		85				<0.2		0.8	
C2	Fine	Rough	08:46	12.6	Surface	1.0	0.5	234	17.9	17.9	7.8	7.8	28.7	28.7	94.8	94.8	7.6	7.7	12.5	15.7	15	16	75	79	825692	806928	<0.2	<0.2	1.1	1.2
						1.0	0.5	237	17.9		7.8		28.7		94.8		7.6		12.4		14		76				<0.2		1.0	
					Middle	6.3	0.6	252	17.9	17.9	7.8	7.8	28.7	28.7	95.8	95.8	7.7		15.8		15		78				<0.2		1.3	
						6.3	0.6	270	17.9		7.8		28.7		95.8		7.7		15.9		15		80				<0.2		1.4	
					Bottom	11.6	0.5	251	17.9	17.9	7.8	7.8	28.7	28.7	98.1	98.2	7.8	7.9	18.8		16		84				<0.2		1.3	
						11.6	0.6	261	17.9		7.8		28.7		98.2		7.9		19.0		18		83				<0.2		1.3	
C3	Cloudy	Moderate	06:58	12.2	Surface	1.0	0.5	235	17.9	17.9	7.9	7.9	30.0	30.0	93.4	93.4	7.4	7.4	12.6	16.5	14	16	77	80	822101	817785	<0.2	<0.2	0.7	0.8
						1.0	0.6	244	17.9		7.9		30.0		93.4		7.4		12.6		15		76				<0.2		0.9	
					Middle	6.1	0.6	244	17.9	17.9	7.9	7.9	30.0	30.0	93.2	93.2	7.4		15.2		17		79				<0.2		0.7	
						6.1	0.6	251	17.9		7.9		30.0		93.2		7.4		15.4		17		80				<0.2		0.8	
					Bottom	11.2	0.5	246	17.9	17.9	7.9	7.9	30.0	30.0	93.8	93.8	7.4	7.4	21.4		16		83				<0.2		0.8	
						11.2	0.5	259	17.9		7.9		30.0		93.8		7.4		21.5		17		84				<0.2		0.8	
IM1	Sunny	Rough	08:07	7.7	Surface	1.0	0.7	126	14.3	14.3	8.1	8.1	32.7	32.7	96.3	96.3	8.1	8.1	19.4	21.4	25	25	82	83	818351	806448	<0.2	<0.2	1.0	1.0
						1.0	0.7	132	14.3		8.1		32.7		96.3		8.1		19.4		24		82				<0.2		1.0	
					Middle	3.9	0.7	120	14.3	14.3	8.1	8.1	32.7	32.7	96.2	96.2	8.1		21.8		25		82				<0.2		1.1	
						3.9	0.7	125	14.3		8.1		32.7		96.2		8.1		21.8		26		83				<0.2		1.1	
					Bottom	6.7	0.7	111	14.3	14.3	8.1	8.1	32.6	32.6	96.2	96.2	8.1	8.1	23.1		25		83				<0.2		0.9	
						6.7	0.7	115	14.3		8.1		32.6		96.2		8.1		23.1		23		83				<0.2		0.9	
IM2	Sunny	Rough	08:17	8.8	Surface	1.0	0.7	118	14.1	14.1	8.0	8.0	32.9	32.9	96.9	96.9	8.1	8.1	16.2	20.2	19	23	82	83	818841	806187	<0.2	<0.2	1.2	1.1
						1.0	0.7	122	14.1		8.0		32.9		96.9		8.1		16.2		19		82				<0.2		1.2	
					Middle	4.4	0.7	131	14.1	14.1	8.0	8.0	32.9	32.9	96.8	96.8	8.1		20.1		23		83				<0.2		1.2	
						4.4	0.7	133	14.1		8.0		32.9		96.8		8.1		20.1		24		83				<0.2		1.2	
					Bottom	7.8	0.6	162	14.1	14.1	8.0	8.0	32.9	32.9	97.4	97.4	8.2	8.2	24.2		26		84				<0.2		0.8	
						7.8	0.6	162	14.1		8.0		32.9		97.4		8.2		24.2		24		83				<0.2		0.8	
IM3	Sunny	Rough	08:27	8.7	Surface	1.0	0.6	93	14.1	14.1	8.0	8.0	33.0	33.0	96.8	96.8	8.1	8.1	16.1	19.8	18	20	81	82	819405	806022	<0.2	<0.2	1.2	1.0
						1.0	0.6	98	14.1		8.0		33.0		96.8		8.1		16.0		18		81				<0.2		1.2	
					Middle	4.4	0.6	108	14.1	14.1	8.0	8.0	33.0	33.0	96.7	96.7	8.1		20.4		18		82				<0.2		1.2	
						4.4	0.7	108	14.1		8.0		33.0		96.7		8.1		20.4		20		82				<0.2		1.2	
					Bottom	7.7	0.5	136	14.1	14.1	8.0	8.0	33.0	33.0	96.9	96.9	8.1	8.1	23.0		23		83				<0.2		0.8	
						7.7	0.5	137	14.1		8.0		33.0		96.8		8.1		23.1		24		83				<0.2		0.5	
IM4	Sunny	Rough	08:35	7.9	Surface	1.0	0.9	129	14.2	14.2	8.0	8.0	32.9	32.9	97.1	97.1	8.1	8.1	19.0	21.2	20	19	81	82	819586	805037	<0.2	<0.2	0.8	0.9
						1.0	0.9	141	14.2		8.0		32.9		97.1		8.1		19.0		19		80				<0.2		0.8	
					Middle	4.0	0.9	113	14.1	14.1	8.0	8.0	32.9	32.9	97.1	97.2	8.1		21.4		18		81				<0.2		0.9	
						4.0	0.9	117	14.1		8.0		32.9		97.2		8.1		21.4		18		82				<0.2		0.9	
					Bottom	6.9	0.8	157	14.2	14.2	8.0	8.0	32.9	32.9	97.6	97.6	8.2	8.2	23.2		19		83				<0.2		0.8	
						6.9	0.8	169	14.2		8.0		32.9		97.6		8.2		23.2		20		83				<0.2		1.0	
IM5	Sunny	Rough	08:45	7.4	Surface	1.0	0.8	109	14.1	14.1	8.0	8.0	33.0	33.0	96.9	96.9	8.1	8.1	25.1	27.5	16	19	80	81	820552	804935	<0.2	<0.2	0.7	0.8
						1.0	0.9	112	14.1		8.0		33.0		96.9		8.1		25.1		14		80				<0.2		0.8	
					Middle	3.7	0.7	107	14.1	14.1	8.0	8.0	33.1	33.1	97.0	97.0	8.1		27.2		19		81				<0.2		0.8	
						3.7	0.7	112	14.1		8.0		33.1		97.0		8.1		27.2		19		81				<0.2		0.8	
					Bottom	6.4	0.7	149	14.1	14.1	8.0	8.0	33.1	33.1	97.3	97.4	8.1	8.1	30.0		24		82				<0.2		0.9	
						6.4	0.8	160	14.1		8.0		33.1		97.4		8.1		30.1		23		82				<0.2		0.9	
IM6	Sunny	Rough	08:52	7.4	Surface	1.0	0.7	121	14.3	14.3	7.9	7.9	33.3	33.3	96.2	96.2	8.0	8.0	21.8	25.0	16	19	82	83	821050	805835	<0.2	<0.2	0.9	0.8
						1.0	0.8	131	14.3		7.9		33.3		96.2		8.0		21.8		15		82				<0.2		0.8	
					Middle	3.7	0.7	124	14.3	14.3	7.9	7.9	33.3	33.3	96.0	96.0	8.0		24.7		19		83				<0.2		0.8	
						3.7	0.7	131	14.3		7.9		33.3		96.0		8.0		24.7		20		84				<0.2		0.9	
					Bottom	6.4	0.6	98	14.3	14.3	7.9	7.9	33.3	33.3	96.0	96.0	8.0	8.0	28.6		21		84				<0.2		0.8	
						6.4	0.6	107	14.3		7.9		33.3		96.0		8.0		28.6		21		84				<0.2		0.8	
IM7	Sunny	Rough	09:00	8.3	Surface	1.0	0.7	95	14.3	14.3	7.9	7.9	33.3	33.3	96.0	96.0	8.0	8.0	20.1	26.7	25	26	83	84	821359	806825	<0.2	<0.2	0.8	0.8
						1.0	0.7	99	14.3		7.9		33.3		96.0		8.0		20.1		25		83				<0.2		0.9	
					Middle	4.2	0.7	99	14.3	14.3	7.9	7.9	33.3	33.3	95.9	95.9	8.0		26.8		25		84				<0.2		0.8	
						4.2	0.7	108	14.3		7.9		33.3		95.9		8.0		26.8		24		84				<0.2		0.8	
					Bottom	7.3	0.7	104	14.3	14.3	7.9	7.9	33.3	33.3	95.8	95.8	8.0	8.0	33.3		29		85				<0.2		0.9	
						7.3	0.8	110	14.3		7.9		33.3		95.8		8.0		33.3		28		85				<0.2		0.7	
IM8	Fine	Rough	08:19	8.8	Surface	1.0	0.5	174	17.6	17.6	7.9	7.9	29.4	29.4	96.6	96.6	7.7	7.8	14.8	16.7	14	15	78	81	821688	807822	<0.2	<0.2	1.0	1.1
						1.0	0.5	189	17.6		7.9		29.4		96.6		7.7		14.9		12		78				<0.2		1.1	
					Middle	4.4	0.4	196	17.5	17.5	7.9	7.9	29.4	29.4	97.7	97.7	7.8		17.3		17		79				<0.2		1.1	
						4.4	0.5	206	17.5		7.9		29.4		97.7		7.8		17.4		18		80				<0.2		1.0	
					Bottom	7.8	0.4	168	17.5	17.5	7.9	7.9	29.4	29.4	99.4	99.5	8.0	8.0	17.8		19		84				<0.2		1.0	
						7.8	0.5	179	17.5		7.9		29.4		99.5		8.0		17.8		10		84				<0.2		1.1	

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Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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Water Quality Monitoring
Water Quality Monitoring Results on 11 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Fine	Rough	08:10	7.7	Surface	1.0	0.5	192	17.6	17.6	7.9	7.9	29.1	29.1	95.8	95.8	7.7	7.7	12.1	12.9	10	13	79	81	822087	808821	<0.2	<0.2	1.4	1.2
						1.0	0.6	198			7.9		29.1		95.8		7.7		12.1		12		79				<0.2		1.4	
					Middle	3.9	0.5	207	17.6	17.6	7.9	7.9	29.1	29.1	96.1	96.1	7.7		12.7		14		81				<0.2		1.3	
						3.9	0.5	223	17.6		7.9		29.1		96.1		7.7		12.7		14		80				<0.2		1.0	
					Bottom	6.7	0.5	181	17.6	17.6	7.9	7.9	29.2	29.2	97.3	97.3	7.8	7.8	13.9		15		83				<0.2		1.2	
						6.7	0.5	193	17.6		7.9		29.2		97.3		7.8		13.8		14		83				<0.2		1.0	
IM10	Fine	Rough	08:01	7.7	Surface	1.0	0.6	281	17.3	17.3	7.9	7.9	29.6	29.6	97.2	97.2	7.8	7.8	19.5	20.5	20	20	78	81	822233	809841	<0.2	<0.2	0.9	0.8
						1.0	0.6	291	17.3		7.9		29.6		97.2		7.8		19.6		20		77				<0.2		0.8	
					Middle	3.9	0.5	255	17.3	17.3	7.9	7.9	29.6	29.6	97.3	97.3	7.8		19.9		20		79				<0.2		0.8	
						3.9	0.5	278	17.3		7.9		29.6		97.3		7.8		19.9		21		81				<0.2		0.8	
					Bottom	6.7	0.4	227	17.3	17.3	7.9	7.9	29.6	29.6	99.4	99.5	8.0	8.0	22.0		21		84				<0.2		0.8	
						6.7	0.4	233	17.3		7.9		29.6		99.5		8.0		21.9		20		84				<0.2		0.8	
IM11	Cloudy	Rough	07:53	7.9	Surface	1.0	0.5	260	17.4	17.4	7.9	7.9	29.5	29.5	97.0	97.1	7.8	7.8	15.6	17.1	14	18	77	81	821483	810563	<0.2	<0.2	0.9	0.8
						1.0	0.5	278	17.4		7.9		29.5		97.1		7.8		15.7		13		79				<0.2		0.8	
					Middle	4.0	0.4	263	17.3	17.3	7.9	7.9	29.5	29.5	97.4	97.4	7.8		16.7		18		81				<0.2		0.8	
						4.0	0.4	267	17.3		7.9		29.5		97.4		7.8		16.8		18		80				<0.2		0.8	
					Bottom	6.9	0.3	255	17.3	17.3	7.9	7.9	29.5	29.5	98.4	98.5	7.9	7.9	18.8		23		83				<0.2		0.8	
						6.9	0.4	260	17.3		7.9		29.5		98.5		7.9		18.7		23		83				<0.2		0.9	
IM12	Cloudy	Rough	07:44	8.5	Surface	1.0	0.7	284	17.4	17.4	7.9	7.9	29.6	29.6	96.5	96.5	7.7	7.7	14.9	16.2	17	16	78	80	821146	811511	<0.2	<0.2	0.7	0.8
						1.0	0.7	298	17.4		7.9		29.6		96.5		7.7		15.0		16		77				<0.2		0.7	
					Middle	4.3	0.6	273	17.4	17.4	7.9	7.9	29.6	29.6	96.4	96.4	7.7		15.3		16		81				<0.2		0.9	
						4.3	0.6	284	17.4		7.9		29.6		96.4		7.7		15.6		17		79				<0.2		0.9	
					Bottom	7.5	0.8	231	17.4	17.4	7.9	7.9	29.6	29.6	98.8	98.8	7.9	7.9	18.1		16		84				<0.2		0.8	
						7.5	0.8	253	17.4		7.9		29.6		98.8		7.9		18.1		15		83				<0.2		0.8	
SR2	Cloudy	Moderate	07:21	4.4	Surface	1.0	0.2	133	17.2	17.2	7.9	7.9	29.6	29.6	98.2	98.2	7.9	7.9	14.6	17.0	14	15	78	81	821462	814169	<0.2	<0.2	0.9	0.9
						1.0	0.2	138	17.2		7.9		29.6		98.2		7.9		14.6		14		80				<0.2		0.9	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.2	120	17.2	17.2	7.8	7.8	29.6	29.6	101.9	102.0	8.2	8.2	19.1		17		82				<0.2		1.0	
						3.4	0.2	128	17.2		7.8		29.6		102.1		8.2		19.6		15		83				<0.2		0.9	
SR3	Fine	Rough	08:25	9.2	Surface	1.0	0.7	125	17.6	17.6	7.9	7.9	29.3	29.3	96.1	96.1	7.7	7.7	12.1	13.6	13	13	-	-	822129	807563	-	-	-	-
						1.0	0.7	131	17.6		7.9		29.3		96.1		7.7		12.0		12		-				-		-	
					Middle	4.6	0.6	164	17.5	17.5	7.9	7.9	29.4	29.4	96.2	96.2	7.7		12.0		14		-				-		-	
						4.6	0.6	168	17.5		7.9		29.4		96.2		7.7		11.8		14		-				-		-	
					Bottom	8.2	0.6	141	17.3	17.3	7.9	7.9	29.6	29.6	101.1	101.2	8.1	8.1	16.7		14		-				-		-	
						8.2	0.6	141	17.3		7.9		29.6		101.2		8.1		16.7		13		-				-		-	
SR4A	Sunny	Moderate	07:34	8.9	Surface	1.0	0.4	153	14.4	14.4	8.0	8.0	30.9	30.9	95.0	95.0	8.0	8.0	8.4	10.0	11	13	-	-	817178	807819	-	-	-	-
						1.0	0.4	164	14.4		8.0		30.9		95.0		8.0		8.3		10		-				-		-	
					Middle	4.5	0.3	126	14.4	14.4	8.0	8.0	31.0	31.0	95.3	95.3	8.0		10.1		14		-				-		-	
						4.5	0.4	127	14.4		8.0		31.0		95.3		8.0		10.0		14		-				-		-	
					Bottom	7.9	0.4	119	14.2	14.2	8.0	8.0	31.4	31.4	95.7	95.7	8.1	8.1	11.5		13		-				-		-	
						7.9	0.4	128	14.2		8.0		31.4		95.7		8.1		11.5		14		-				-		-	
SR5A	Sunny	Calm	07:14	5.3	Surface	1.0	0.2	285	14.5	14.5	8.0	8.0	29.8	29.8	94.8	94.8	8.0	8.0	18.3	19.2	24	26	-	-	816576	810712	-	-	-	-
						1.0	0.2	301	14.5		8.0		29.8		94.8		8.0		18.4		24		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.2	293	14.4	14.4	7.9	7.9	29.7	29.7	96.2	96.3	8.2	8.2	20.0		30		-				-		-	
						4.3	0.2	298	14.4		7.9		29.7		96.3		8.2		20.0		27		-				-		-	
SR6	Sunny	Calm	06:51	3.8	Surface	1.0	0.2	193	14.5	14.5	7.7	7.7	24.6	24.6	94.4	94.4	8.3	8.3	6.0	6.1	6	7	-	-	817910	814651	-	-	-	-
						1.0	0.2	211	14.5		7.7		24.6		94.4		8.3		6.0		7		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.2	201	14.5	14.5	7.7	7.7	23.8	23.8	94.6	94.6	8.3	8.3	6.2		8		-				-		-	
						2.8	0.2	201	14.5		7.7		23.8		94.6		8.3		6.2		8		-				-		-	
SR7	Cloudy	Moderate	06:25	16.4	Surface	1.0	0.2	107	17.8	17.8	7.9	7.9	30.2	30.2	93.2	93.2	7.4	7.4	9.5	10.3	9	11	-	-	823627	823726	-	-	-	-
						1.0	0.3	112	17.8		7.9		30.2		93.2		7.4		9.5		10		-				-		-	
					Middle	8.2	0.3	109	17.8	17.8	7.9	7.9	30.2	30.2	92.7	92.7	7.4		10.6		11		-				-		-	
						8.2	0.3	116	17.8		7.9		30.2		92.7		7.4		10.5		10		-				-		-	
					Bottom	15.4	0.2	102	17.8	17.8	7.9	7.9	30.2	30.2	92.5	92.5	7.3	7.3	10.7		13		-				-		-	
						15.4	0.2	102	17.8		7.9		30.2		92.5		7.3		10.7		14		-				-		-	
SR8	Cloudy	Moderate	07:36	5.2	Surface	1.0	0.3	88	17.5	17.5	7.9	7.9	29.4	29.4	97.7	97.8	7.8	7.8	12.4	13.8	12	14	-	-	820411	811584	-	-	-	-
						1.0	0.3	88	17.5		7.9		29.4		97.8		7.8		12.5		12		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	105	17.4	17.4	7.9	7.9	29.4	29.4	100.1	100.3	8.0	8.1	15.1		16		-				-		-	
						4.2	0.2	109	17.4		7.9		29.4		100.4		8.1		15.2		16		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 11 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Moderate	12:59	6.1	Surface	1.0	0.5	212	14.2	14.2	7.9	7.9	34.4	34.4	98.0	98.0	8.1	8.1	16.8	18.3	19	20	83	84	815618	804242	<0.2	<0.2	0.6	0.7
						1.0	0.5	219	14.2		7.9		34.4		98.0		8.1		16.8		19		83				<0.2		0.6	
					Middle	3.1	0.5	205	14.2	14.2	7.9	7.9	34.4	34.4	98.0	98.0	8.1		17.9		19		84				<0.2		0.4	
						3.1	0.5	215	14.2		7.9		34.4		98.0		8.1		17.9		19		84				<0.2		0.6	
					Bottom	5.1	0.5	199	14.1	14.1	7.8	7.8	34.5	34.5	98.1	98.1	8.1	8.2	20.1		20		85				<0.2		0.6	
						5.1	0.5	202	14.1		7.8		34.5		98.1		8.2		20.0		21		85				<0.2		1.5	
C2	Fine	Rough	11:51	12.2	Surface	1.0	0.4	114	17.8	17.8	7.9	7.9	28.6	28.6	96.1	96.2	7.7	7.8	11.5	13.3	10	13	74	79	825666	806939	<0.2	<0.2	1.5	1.8
						1.0	0.5	120	17.8		7.9		28.6		96.2		7.7		11.5		10		76				<0.2		1.8	
					Middle	6.1	0.4	130	17.7	17.7	7.8	7.8	28.7	28.7	96.7	96.7	7.8		14.3		12		79				<0.2		1.7	
						6.1	0.4	135	17.7		7.8		28.7		96.7		7.8		14.4		14		80				<0.2		1.9	
					Bottom	11.2	0.3	175	17.7	17.7	7.8	7.8	28.8	28.8	100.2	100.3	8.0	8.0	14.4		15		84				<0.2		2.1	
						11.2	0.4	190	17.7		7.8		28.8		100.3		8.0		13.9		14		82				<0.2		1.8	
C3	Fine	Moderate	13:32	13.0	Surface	1.0	0.6	82	18.0	18.0	7.9	7.9	29.9	29.9	95.6	95.6	7.6	7.6	5.9	6.7	10	11	79	81	822103	817822	<0.2	<0.2	0.9	0.9
						1.0	0.6	84	18.0		7.9		29.9		95.5		7.6		5.9		10		78				<0.2		0.7	
					Middle	6.5	0.5	85	18.0	18.0	7.9	7.9	30.0	30.0	94.9	94.9	7.5		6.4		10		81				<0.2		0.9	
						6.5	0.5	92	18.0		7.9		30.0		94.9		7.5		6.4		11		80				<0.2		1.0	
					Bottom	12.0	0.4	88	17.9	17.9	7.9	7.9	30.1	30.1	94.5	94.5	7.5	7.5	7.7		10		83				<0.2		0.8	
						12.0	0.5	88	17.9		7.9		30.1		94.5		7.5		7.7		12		84				<0.2		0.8	
IM1	Sunny	Moderate	12:44	7.2	Surface	1.0	0.4	148	14.3	14.3	7.9	7.9	34.3	34.3	99.3	99.3	8.2	8.3	11.9	12.4	14	15	82	84	818363	806470	<0.2	<0.2	1.1	0.9
						1.0	0.5	158	14.3		7.9		34.3		99.3		8.2		11.9		16		83				<0.2		1.0	
					Middle	3.6	0.4	164	14.2	14.2	7.9	7.9	34.3	34.3	99.5	99.6	8.3		12.4		15		83				<0.2		0.9	
						3.6	0.4	178	14.2		7.9		34.3		99.6		8.3		12.4		15		84				<0.2		0.8	
					Bottom	6.2	0.4	153	14.2	14.2	7.9	7.9	34.3	34.3	100.6	100.6	8.4	8.4	12.8		16		84				<0.2		0.6	
						6.2	0.4	166	14.2		7.9		34.3		100.6		8.4		12.8		15		85				<0.2		0.7	
IM2	Sunny	Moderate	12:38	8.5	Surface	1.0	0.4	136	14.2	14.2	7.9	7.9	34.3	34.3	98.2	98.2	8.2	8.2	14.8	16.7	17	18	82	83	818861	806209	<0.2	<0.2	0.6	0.6
						1.0	0.4	145	14.2		7.9		34.3		98.2		8.1		14.9		18		82				<0.2		0.6	
					Middle	4.3	0.4	155	14.1	14.1	7.9	7.9	34.3	34.3	98.1	98.2	8.2		16.9		18		82				<0.2		0.6	
						4.3	0.4	162	14.1		7.9		34.3		98.2		8.2		16.8		19		83				<0.2		0.6	
					Bottom	7.5	0.4	170	14.1	14.1	7.9	7.9	34.3	34.3	98.6	98.6	8.2	8.2	18.4		19		83				<0.2		0.6	
						7.5	0.4	183	14.1		7.9		34.3		98.6		8.2		18.3		19		83				<0.2		0.8	
IM3	Sunny	Moderate	12:30	8.7	Surface	1.0	0.3	134	14.3	14.3	7.9	7.9	34.1	34.1	97.9	97.9	8.1	8.1	13.4	16.4	16	21	81	82	819403	806031	<0.2	<0.2	0.8	0.7
						1.0	0.4	135	14.3		7.9		34.1		97.9		8.1		13.4		14		81				<0.2		0.8	
					Middle	4.4	0.3	168	14.2	14.2	7.9	7.9	34.1	34.1	97.8	97.8	8.1		15.3		17		82				<0.2		0.6	
						4.4	0.3	172	14.2		7.9		34.1		97.8		8.1		15.3		19		82				<0.2		0.8	
					Bottom	7.7	0.3	151	14.1	14.1	7.9	7.9	34.2	34.2	98.6	98.6	8.2	8.2	20.5		29		83				<0.2		0.6	
						7.7	0.3	165	14.1		7.9		34.2		98.6		8.2		20.2		28		83				<0.2		0.6	
IM4	Sunny	Moderate	12:24	7.7	Surface	1.0	0.4	148	14.2	14.2	7.9	7.9	33.9	33.9	97.9	97.9	8.1	8.2	16.3	19.8	17	19	82	83	819576	805050	<0.2	<0.2	0.7	0.7
						1.0	0.4	152	14.2		7.9		33.9		97.8		8.1		16.3		17		82				<0.2		0.8	
					Middle	3.9	0.4	147	14.1	14.1	7.9	7.9	34.1	34.1	97.9	97.9	8.2		21.6		19		83				<0.2		0.7	
						3.9	0.4	151	14.1		7.9		34.1		97.9		8.2		21.9		19		83				<0.2		0.7	
					Bottom	6.7	0.4	173	14.1	14.1	7.9	7.9	34.1	34.1	98.6	98.6	8.2	8.2	21.3		20		84				<0.2		0.6	
						6.7	0.4	178	14.1		7.9		34.1		98.5		8.2		21.2		19		84				<0.2		0.6	
IM5	Sunny	Rough	12:14	7.0	Surface	1.0	0.5	123	14.3	14.3	7.9	7.9	33.6	33.6	97.5	97.5	8.1	8.1	19.8	21.1	20	21	80	82	820557	804925	<0.2	<0.2	0.8	0.7
						1.0	0.5	133	14.3		7.9		33.6		97.5		8.1		19.8		18		80				<0.2		0.7	
					Middle	3.5	0.4	130	14.2	14.2	7.9	7.9	33.6	33.6	97.4	97.4	8.1		21.4		20		82				<0.2		0.7	
						3.5	0.4	131	14.1		7.9		33.6		97.4		8.1		21.4		19		82				<0.2		0.7	
					Bottom	6.0	0.4	159	14.1	14.1	7.9	7.9	33.7	33.7	97.9	98.0	8.2	8.2	22.0		23		82				<0.2		0.8	
						6.0	0.4	160	14.1		7.9		33.7		98.0		8.2		22.0		24		83				<0.2		0.7	
IM6	Sunny	Rough	12:05	7.2	Surface	1.0	0.5	109	14.2	14.2	7.9	7.9	33.7	33.7	97.4	97.5	8.1	8.1	20.1	21.2	21	22	82	83	821061	805841	<0.2	<0.2	0.8	0.8
						1.0	0.5	118	14.2		7.9		33.7		97.5		8.1		20.2		21		82				<0.2		0.6	
					Middle	3.6	0.5	128	14.1	14.1	7.9	7.9	33.7	33.7	97.6	97.6	8.1		21.3		22		83				<0.2		0.8	
						3.6	0.5	131	14.1		7.9		33.7		97.6		8.1		21.3		22		83				<0.2		0.7	
					Bottom	6.2	0.4	132	14.1	14.1	7.9	7.9	33.8	33.8	97.9	97.9	8.2	8.2	22.2		22		84				<0.2		0.8	
						6.2	0.4	134	14.1		7.9		33.8		97.9		8.2		22.1		21		84				<0.2		0.8	
IM7	Sunny	Rough	11:51	8.8	Surface	1.0	0.5	115	14.3	14.3	7.9	7.9	33.6	33.6	96.7	96.7	8.0	8.1	20.4	21.0	23	24	83	84	821364	806832	<0.2	<0.2	0.8	0.9
						1.0	0.5	120	14.3		7.9		33.6		96.7		8.0		20.4		23		83				<0.2		0.9	
					Middle	4.4	0.5	119	14.3	14.3	7.9	7.9	33.6	33.6	96.8	96.8	8.1		20.7		25		84				<0.2		0.8	
						4.4	0.5	125	14.3		7.9		33.6		96.8		8.1		20.7		24		84				<0.2		0.8	
					Bottom	7.8	0.5	101	14.2	14.2	7.9	7.9	33.6	33.6	97.1	97.1	8.1	8.1	21.8		25		85				<0.2		1.0	
						7.8	0.6	109	14.2		7.9		33.6		97.1		8.1		21.9		25		85				<0.2		0.8	
IM8	Fine	Rough	12:17	8.4	Surface	1.0	0.5	132	17.4	17.4	7.9	7.9	29.5	29.5	97.6	97.6	7.8	7.8	15.5	17.4	18	19	78	80	821683	807836	<0.2	<0.2	0.9	0.9
						1.0	0.6	144	17.4		7.9		29.5		97.6		7.8		15.4		18		77				<0.2		0.9	
					Middle	4.2	0.5	143	17.4	17.4	7.9	7.9	29.5	29.5	97.4	97.4	7.8		16.7		18		81				<0.2		0.9	
						4.2	0.5	147	17.4		7.9		29.5		97.4		7.8		16.8		20		79				<0.2		0.8	
					Bottom	7.4	0.4	150	17.2	17.2	7.9	7.9	29.6	29.6	97.0	97.0	7.8	7.8	20.0		20		83				<0.2		0.9	
						7.4	0.5	163	17.2		7.9		29.6		97.0		7.8		20.2		18		84				<0.2		0.9	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 11 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Fine	Rough	12:23	7.9	Surface	1.0	0.6	95	17.4	17.4	8.0	8.0	29.5	29.5	97.6	97.6	7.8	7.8	15.3	18.2	17	17	79	81	822107	808819	<0.2	<0.2	1.1	1.0
						1.0	0.7	102	17.4		8.0		29.5		97.5		7.8		15.4		16		80				<0.2		0.9	
					Middle	4.0	0.6	90	17.4	17.4	7.9	7.9	29.5	29.5	97.3	97.3	7.8		17.3		18		82				<0.2		1.0	
						4.0	0.6	92	17.4		7.9		29.5		97.3		7.8		17.4		18		80				<0.2		0.9	
					Bottom	6.9	0.5	107	17.2	17.2	7.9	7.9	29.6	29.6	97.0	97.0	7.8	7.8	21.8		18		83				<0.2		0.9	
						6.9	0.6	115	17.2		7.9		29.6		97.0		7.8		21.9		17		84				<0.2		0.9	
IM10	Fine	Rough	12:34	7.4	Surface	1.0	0.5	85	17.6	17.6	7.9	7.9	29.4	29.4	97.7	97.7	7.8	7.8	9.0	9.6	9	11	77	81	822221	809852	<0.2	<0.2	0.9	0.9
						1.0	0.6	92	17.6		7.9		29.4		97.7		7.8		9.0		10		79				<0.2		0.7	
					Middle	3.7	0.5	93	17.5	17.5	7.9	7.9	29.4	29.4	97.4	97.4	7.8		9.4		12		81				<0.2		1.0	
						3.7	0.5	96	17.5		7.9		29.4		97.4		7.8		9.5		12		79				<0.2		0.9	
					Bottom	6.4	0.4	122	17.4	17.4	7.9	7.9	29.5	29.5	97.4	97.4	7.8	7.8	10.4		11		84				<0.2		1.0	
						6.4	0.4	123	17.4		7.9		29.5		97.4		7.8		10.4		12		83				<0.2		0.8	
IM11	Fine	Rough	12:41	9.0	Surface	1.0	0.5	95	17.6	17.6	7.9	7.9	29.5	29.5	97.7	97.7	7.8	7.8	8.4	8.5	10	10	77	81	821514	810554	<0.2	<0.2	1.0	1.0
						1.0	0.5	98	17.6		7.9		29.5		97.7		7.8		8.4		10		79				<0.2		0.9	
					Middle	4.5	0.5	97	17.4	17.4	7.9	7.9	29.5	29.5	97.2	97.2	7.8		8.5		10		80				<0.2		1.0	
						4.5	0.5	102	17.4		7.9		29.5		97.2		7.8		8.6		10		79				<0.2		0.9	
					Bottom	8.0	0.5	102	17.4	17.4	7.9	7.9	29.5	29.5	97.5	97.5	7.8	7.8	8.5		12		84				<0.2		1.0	
						8.0	0.5	106	17.4		7.9		29.5		97.5		7.8		8.6		10		85				<0.2		1.0	
IM12	Fine	Rough	12:49	9.3	Surface	1.0	0.5	89	17.7	17.7	7.9	7.9	29.5	29.5	98.3	98.3	7.9	7.9	7.6	8.3	11	11	78	81	821154	811508	<0.2	<0.2	1.0	1.0
						1.0	0.5	93	17.7		7.9		29.5		98.3		7.9		7.6		11		80				<0.2		1.0	
					Middle	4.7	0.5	99	17.6	17.6	7.9	7.9	29.5	29.5	98.0	98.0	7.8		8.0		12		80				<0.2		1.1	
						4.7	0.5	99	17.6		7.9		29.5		98.0		7.8		8.1		11		79				<0.2		1.0	
					Bottom	8.3	0.4	98	17.5	17.5	7.9	7.9	29.6	29.6	98.8	98.8	7.9	7.9	9.3		10		82				<0.2		1.0	
						8.3	0.4	98	17.5		7.9		29.6		98.8		7.9		9.3		12		84				<0.2		1.0	
SR2	Fine	Moderate	13:11	4.7	Surface	1.0	0.4	86	17.8	17.8	7.9	7.9	29.5	29.5	97.9	97.9	7.8	7.8	7.8	8.8	8	8	76	80	821480	814152	<0.2	<0.2	0.9	0.9
						1.0	0.4	93	17.8		7.9		29.5		97.9		7.8		7.8		8		78				<0.2		0.9	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	87	17.8	17.8	7.9	7.9	29.6	29.6	99.4	99.5	7.9	7.9	9.7		8		83				<0.2		0.9	
						3.7	0.3	92	17.8		7.9		29.6		99.5		7.9		9.7		7		84				<0.2		1.0	
SR3	Fine	Rough	12:10	9.4	Surface	1.0	0.5	110	17.4	17.4	7.9	7.9	29.5	29.5	97.7	97.7	7.8	7.8	17.3	19.3	18	18	-	-	822141	807575	-	-	-	-
						1.0	0.5	111	17.4		7.9		29.5		97.7		7.8		17.4		18		-				-		-	
					Middle	4.7	0.5	95	17.4	17.4	7.9	7.9	29.5	29.5	97.5	97.5	7.8		18.9		18		-				-		-	
						4.7	0.5	103	17.3		7.9		29.5		97.5		7.8		19.1		19		-				-		-	
					Bottom	8.4	0.4	106	17.2	17.2	7.9	7.9	29.6	29.6	97.3	97.3	7.8	7.8	21.6		17		-				-		-	
						8.4	0.4	114	17.2		7.9		29.6		97.3		7.8		21.7		17		-				-		-	
SR4A	Sunny	Moderate	13:16	9.1	Surface	1.0	0.5	96	14.1	14.1	7.8	7.8	34.2	34.2	98.2	98.3	8.2	8.2	14.2	14.7	17	18	-	-	817198	807791	-	-	-	-
						1.0	0.5	103	14.1		7.8		34.2		98.3		8.2		14.4		17		-				-		-	
					Middle	4.6	0.4	100	14.1	14.1	7.8	7.8	34.2	34.2	98.9	99.0	8.2		14.6		17		-				-		-	
						4.6	0.4	102	14.1		7.8		34.2		99.0		8.2		14.7		18		-				-		-	
					Bottom	8.1	0.4	98	14.1	14.1	7.8	7.8	34.3	34.3	100.2	100.3	8.3	8.3	15.1		19		-				-		-	
						8.1	0.4	100	14.1		7.8		34.3		100.3		8.3		15.1		20		-				-		-	
SR5A	Sunny	Calm	13:34	4.9	Surface	1.0	0.1	200	14.8	14.8	7.8	7.8	33.0	33.0	100.1	100.2	8.3	8.3	7.1	7.2	9	9	-	-	816580	810686	-	-	-	-
						1.0	0.1	200	14.8		7.8		33.0		100.2		8.3		7.1		9		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	198	14.6	14.6	7.8	7.8	33.2	33.2	101.9	102.0	8.5	8.5	7.3		8		-				-		-	
						3.9	0.1	205	14.5		7.8		33.2		102.0		8.5		7.3		10		-				-		-	
SR6	Sunny	Calm	13:56	4.5	Surface	1.0	0.2	101	15.0	15.0	7.8	7.8	33.0	33.0	98.8	98.8	8.1	8.1	6.2	6.9	9	9	-	-	817913	814653	-	-	-	-
						1.0	0.2	110	14.9		7.8		33.0		98.8		8.1		6.2		8		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	114	14.8	14.8	7.8	7.8	33.0	33.0	100.0	100.1	8.3	8.3	7.5		9		-				-		-	
						3.5	0.2	116	14.8		7.8		33.0		100.1		8.3		7.5		9		-				-		-	
SR7	Fine	Moderate	13:58	17.0	Surface	1.0	0.6	98	18.0	18.0	7.9	7.9	30.1	30.1	94.9	94.9	7.5	7.5	4.7	6.0	5	6	-	-	823633	823733	-	-	-	-
						1.0	0.6	105	18.0		7.9		30.1		94.9		7.5		4.7		6		-				-		-	
					Middle	8.5	0.5	93	17.9	17.9	7.9	7.9	30.1	30.1	93.9	93.9	7.4		6.1		5		-				-		-	
						8.5	0.5	101	17.9		7.9		30.1		93.9		7.4		6.1		5		-				-		-	
					Bottom	16.0	0.3	127	17.8	17.8	7.9	7.9	30.2	30.2	93.6	93.6	7.4	7.4	7.1		8		-				-		-	
						16.0	0.3	127	17.8		7.9		30.2		93.6		7.4		7.1		9		-				-		-	
SR8	Fine	Moderate	12:56	5.0	Surface	1.0	0.3	163	17.5	17.5	7.9	7.9	29.4	29.4	100.0	100.0	8.0	8.0	12.2	12.7	12	14	-	-	820429	811608	-	-	-	-
						1.0	0.4	167	17.5		7.9		29.4		100.0		8.0		12.2		14		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.3	196	17.4	17.4	7.8	7.8	29.5	29.5	106.7	106.9	8.6	8.6	13.1		14		-				-		-	
						4.0	0.3	196	17.4		7.8		29.5		107.0		8.6		13.1		16		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 14 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Sunny	Moderate	10:25	8.5	Surface	1.0	0.8	65	14.2	14.2	7.8	7.8	33.9	33.9	96.6	96.7	8.0	8.0	71.5	80.9	74	106	83	84	815634	804264	<0.2	<0.2	0.6	0.6
						1.0	0.8	67	14.2		7.8		33.9		96.7		8.0		71.5		68		83				<0.2		0.6	
					Middle	4.3	0.9	65	14.2	14.2	7.8	7.8	34.0	34.0	96.7	96.7	8.0		82.5		84		84				<0.2		0.6	
						4.3	0.9	67	14.2		7.8		34.0		96.7		8.0		82.4		92		84				<0.2		0.5	
					Bottom	7.5	0.8	55	14.2	14.2	7.8	7.8	34.0	34.0	97.1	97.1	8.1	8.1	89.0		154		85				<0.2		0.6	
						7.5	0.8	55	14.2		7.8		34.0		97.1		8.1		88.4		166		85				<0.2		0.5	
C2	Fine	Moderate	10:23	12.8	Surface	1.0	0.5	150	17.8	17.8	7.8	7.8	27.3	27.3	94.4	94.4	7.6	7.6	8.5	10.5	8	9	75	80	825676	806936	<0.2	<0.2	1.8	2.0
						1.0	0.5	158	17.8		7.8		27.3		94.4		7.6		8.5		8		76				<0.2		2.0	
					Middle	6.4	0.6	125	17.8	17.8	7.8	7.8	27.5	27.5	94.2	94.2	7.6		9.0		8		79				<0.2		2.2	
						6.4	0.6	134	17.8		7.8		27.5		94.2		7.6		9.2		9		80				<0.2		2.0	
					Bottom	11.8	0.4	257	17.7	17.7	7.8	7.8	27.8	27.8	95.1	95.1	7.7	7.7	14.0		12		83				<0.2		1.8	
						11.8	0.5	258	17.7		7.8		27.8		95.1		7.7		14.0		11		84				<0.2		1.9	
C3	Fine	Moderate	08:51	11.3	Surface	1.0	0.7	263	17.6	17.6	7.9	7.9	29.4	29.4	95.9	95.9	7.7	7.7	8.1	14.7	8	13	78	81	822094	817812	<0.2	<0.2	0.9	1.0
						1.0	0.7	270	17.6		7.9		29.4		95.9		7.7		8.2		8		78				<0.2		1.1	
					Middle	5.7	0.6	264	17.6	17.6	7.9	7.9	29.5	29.5	95.2	95.2	7.6		14.5		10		81				<0.2		1.1	
						5.7	0.7	272	17.6		7.9		29.5		95.2		7.6		14.5		11		79				<0.2		0.9	
					Bottom	10.3	0.5	268	17.6	17.6	7.9	7.9	29.6	29.6	95.1	95.1	7.6	7.6	21.4		20		84				<0.2		1.0	
						10.3	0.5	269	17.6		7.9		29.6		95.1		7.6		21.4		21		83				<0.2		1.0	
IM1	Sunny	Moderate	10:42	7.7	Surface	1.0	0.8	54	14.5	14.5	7.8	7.8	33.5	33.5	97.4	97.4	8.1	8.1	13.6	14.6	15	21	83	83	818342	806456	<0.2	<0.2	0.8	0.7
						1.0	0.8	56	14.5		7.8		33.5		97.4		8.1		13.6		14		83				<0.2		0.8	
					Middle	3.9	0.7	72	14.5	14.5	7.8	7.8	33.6	33.6	97.2	97.2	8.1		15.3		19		83				<0.2		0.7	
						3.9	0.7	73	14.5		7.8		33.6		97.2		8.1		15.4		21		83				<0.2		0.6	
					Bottom	6.7	0.7	94	14.5	14.5	7.8	7.8	33.6	33.6	97.4	97.4	8.1	8.1	14.8		26		84				<0.2		0.7	
						6.7	0.7	102	14.5		7.8		33.6		97.4		8.1		14.9		28		84				<0.2		0.6	
IM2	Sunny	Moderate	10:48	8.7	Surface	1.0	0.7	52	14.6	14.6	7.8	7.8	33.4	33.4	96.6	96.6	8.0	8.0	23.0	33.9	61	60	82	83	818856	806210	<0.2	<0.2	0.7	0.8
						1.0	0.7	54	14.6		7.8		33.4		96.6		8.0		23.4		58		81				<0.2		0.8	
					Middle	4.4	0.6	75	14.4	14.4	7.8	7.8	33.5	33.5	96.3	96.3	8.0		38.1		58		82				<0.2		0.9	
						4.4	0.6	80	14.4		7.8		33.5		96.3		8.0		38.1		58		83				<0.2		0.9	
					Bottom	7.7	0.6	62	14.4	14.4	7.8	7.8	33.6	33.6	96.5	96.5	8.0	8.0	40.6		60		84				<0.2		0.8	
						7.7	0.6	67	14.4		7.8		33.6		96.5		8.0		40.4		62		84				<0.2		0.8	
IM3	Sunny	Moderate	10:55	8.5	Surface	1.0	0.5	113	14.5	14.5	7.8	7.8	33.4	33.4	96.2	96.2	8.0	8.0	41.3	47.9	44	58	83	84	819412	806000	<0.2	<0.2	1.0	1.0
						1.0	0.5	117	14.5		7.8		33.4		96.2		8.0		41.4		48		83				<0.2		1.1	
					Middle	4.3	0.5	94	14.5	14.5	7.8	7.8	33.4	33.4	96.3	96.3	8.0		46.5		60		84				<0.2		0.9	
						4.3	0.6	98	14.5		7.8		33.4		96.2		8.0		46.8		63		84				<0.2		0.9	
					Bottom	7.5	0.5	101	14.4	14.4	7.8	7.8	33.5	33.5	96.8	96.8	8.0	8.0	55.7		67		85				<0.2		0.9	
						7.5	0.5	107	14.4		7.8		33.5		96.8		8.0		55.7		68		85				<0.2		0.9	
IM4	Sunny	Moderate	11:05	8.3	Surface	1.0	0.6	98	14.6	14.6	7.8	7.8	33.4	33.4	97.0	97.0	8.0	8.0	26.9	77.4	33	52	82	82	819564	805058	<0.2	<0.2	0.7	0.7
						1.0	0.6	107	14.6		7.8		33.4		97.0		8.0		27.0		33		81				<0.2		0.7	
					Middle	4.2	0.5	110	14.3	14.3	7.8	7.8	33.5	33.5	96.3	96.4	8.0		100.5		59		82				<0.2		0.8	
						4.2	0.6	115	14.3		7.8		33.5		96.4		8.0		100.1		60		83				<0.2		0.8	
					Bottom	7.3	0.5	138	14.3	14.3	7.8	7.8	33.5	33.5	97.0	97.0	8.1	8.1	105.2		64		83				<0.2		0.8	
						7.3	0.6	151	14.3		7.8		33.5		97.0		8.1		104.8		62		83				<0.2		0.6	
IM5	Sunny	Moderate	11:15	7.2	Surface	1.0	0.6	91	14.5	14.5	7.8	7.8	33.3	33.3	95.9	95.9	8.0	8.0	47.9	71.2	58	83	80	81	820544	804904	<0.2	<0.2	0.8	0.8
						1.0	0.6	92	14.5		7.8		33.3		95.9		8.0		48.0		57		80				<0.2		0.7	
					Middle	3.6	0.6	95	14.4	14.4	7.8	7.8	33.3	33.3	95.7	95.7	7.9		77.0		96		81				<0.2		0.8	
						3.6	0.7	101	14.4		7.8		33.3		95.7		7.9		77.8		90		81				<0.2		0.8	
					Bottom	6.2	0.6	87	14.4	14.4	7.8	7.8	33.4	33.4	95.7	95.7	7.9	7.9	88.2		96		82				<0.2		0.9	
						6.2	0.7	90	14.4		7.8		33.4		95.7		7.9		88.0		99		82				<0.2		0.8	
IM6	Sunny	Moderate	11:08	7.1	Surface	1.0	0.6	57	17.6	17.6	7.9	7.9	29.1	29.1	96.9	96.9	7.8	7.8	36.7	48.8	30	54	80	81	821079	805838	<0.2	<0.2	0.9	0.9
						1.0	0.7	60	17.6		7.9		29.1		96.9		7.8		36.7		32		80				<0.2		0.9	
					Middle	3.6	0.6	66	17.6	17.6	7.9	7.9	29.1	29.1	96.9	96.9	7.8		53.5		54		81				<0.2		1.0	
						3.6	0.6	72	17.6		7.9		29.1		96.9		7.8		52.9		56		81				<0.2		0.8	
					Bottom	6.1	0.6	69	17.5	17.5	7.9	7.9	29.1	29.1	97.4	97.4	7.8	7.8	56.5		78		82				<0.2		1.0	
						6.1	0.6	72	17.5		7.9		29.1		97.4		7.8		56.5		73		82				<0.2		1.0	
IM7	Sunny	Moderate	10:58	8.4	Surface	1.0	0.9	67	17.8	17.8	7.9	7.9	29.0	29.0	96.6	96.6	7.7	7.7	15.7	19.9	18	19	82	83	821337	806818	<0.2	<0.2	1.0	1.0
						1.0	0.9	69	17.8		7.9		29.0		96.6		7.7		15.7		18		82				<0.2		0.8	
					Middle	4.2	0.7	73	17.6	17.6	7.9	7.9	29.1	29.1	96.1	96.1	7.7		19.4		19		83				<0.2		1.0	
						4.2	0.8	75	17.6		7.9		29.1		96.1		7.7		19.5		18		83				<0.2		1.0	
					Bottom	7.4	0.6	105	17.5	17.5	7.9	7.9	29.4	29.4	96.2	96.2	7.7	7.7	24.6		20		84				<0.2		1.1	
						7.4	0.6	113	17.5		7.9		29.4		96.2		7.7		24.4		21		84				<0.2		0.9	
IM8	Fine	Moderate	10:00	8.4	Surface	1.0	0.4	179	17.7	17.7	7.8	7.8	27.6	27.6	96.4	96.4	7.8	7.8	9.4	9.7	12	11	77	80	821702	807850	<0.2	<0.2	1.6	1.4
						1.0	0.4	180	17.7		7.8		27.6		96.4		7.8		9.4		10		76				<0.2		1.4	
					Middle	4.2	0.4	160	17.7	17.7	7.8	7.8	27.6	27.6	96.7	96.7	7.8		10.4		11		79				<0.2		1.4	
						4.2	0.4	172	17.7		7.8		27.6		96.7		7.8		9.9		11		80				<0.2		1.3	
					Bottom	7.4	0.4	195	17.7	17.7	7.8	7.8	27.7	27.7	97.9	97.9	7.9	7.9	9.6		11		84				<0.2		1.4	
						7.4	0.4	199	17.7		7.8		27.7		97.9		7.9		9.6		10		85				<0.2		1.5	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 14 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Fine	Moderate	09:53	7.4	Surface	1.0	0.5	254	17.7	17.7	7.9	7.9	28.5	28.5	96.4	96.4	7.7	7.8	15.8	18.7	18	20	76	80	822107	808819	<0.2	<0.2	1.5	1.4
						1.0	0.5	257	17.7		7.9		28.5		96.4		7.7		15.9		17		78				<0.2		1.1	
					Middle	3.7	0.4	235	17.7	17.7	7.9	7.9	28.7	28.7	96.6	96.6	7.8		18.6		21		81				<0.2		1.4	
						3.7	0.4	256	17.7		7.9		28.7		96.6		7.8		18.6		20		80				<0.2		1.3	
					Bottom	6.4	0.4	232	17.6	17.6	7.9	7.9	28.8	28.8	98.4	98.4	7.9	7.9	21.8		22		83				<0.2		1.5	
						6.4	0.4	245	17.6		7.9		28.8		98.4		7.9		21.7		23		84				<0.2		1.5	
IM10	Fine	Moderate	09:47	7.8	Surface	1.0	0.7	272	17.5	17.5	7.9	7.9	29.3	29.3	97.2	97.2	7.8	7.8	28.6	35.8	31	37	77	81	822250	809836	<0.2	<0.2	0.9	1.0
						1.0	0.7	281	17.5		7.9		29.3		97.2		7.8		28.6		32		78				<0.2		1.0	
					Middle	3.9	0.7	280	17.5	17.5	7.9	7.9	29.4	29.4	97.4	97.4	7.8		36.8		40		82				<0.2		1.0	
						3.9	0.7	295	17.5		7.9		29.4		97.4		7.8		37.0		39		80				<0.2		0.9	
					Bottom	6.8	0.8	281	17.5	17.5	7.9	7.9	29.4	29.4	97.9	97.9	7.9	7.9	41.9		39		84				<0.2		1.2	
						6.8	0.8	302	17.5		7.9		29.4		97.9		7.9		42.1		40		83				<0.2		1.2	
IM11	Fine	Moderate	09:39	8.2	Surface	1.0	0.6	284	17.4	17.4	7.9	7.9	29.6	29.6	97.4	97.4	7.8	7.8	18.6	20.3	22	26	79	81	821506	810550	<0.2	<0.2	0.8	0.7
						1.0	0.7	303	17.4		7.9		29.6		97.4		7.8		18.6		24		77				<0.2		0.7	
					Middle	4.1	0.5	282	17.4	17.4	7.9	7.9	29.6	29.6	97.4	97.4	7.8		20.9		26		81				<0.2		0.6	
						4.1	0.5	299	17.4		7.9		29.6		97.4		7.8		20.9		28		80				<0.2		0.6	
					Bottom	7.2	0.5	276	17.4	17.4	7.8	7.8	29.6	29.6	101.1	101.1	8.1	8.1	21.5		27		83				<0.2		0.7	
						7.2	0.5	284	17.4		7.8		29.6		101.1		8.1		21.5		29		84				<0.2		0.6	
IM12	Fine	Moderate	09:32	8.7	Surface	1.0	0.7	271	17.5	17.5	7.9	7.9	29.4	29.4	97.3	97.3	7.8	7.8	20.4	20.8	18	25	79	81	821143	811514	<0.2	<0.2	0.8	0.8
						1.0	0.8	275	17.5		7.9		29.4		97.3		7.8		20.1		20		78				<0.2		0.7	
					Middle	4.4	0.7	276	17.5	17.5	7.9	7.9	29.4	29.4	97.5	97.5	7.8		21.4		29		80				<0.2		1.0	
						4.4	0.7	297	17.5		7.9		29.4		97.5		7.8		21.4		28		79				<0.2		0.8	
					Bottom	7.7	0.6	279	17.4	17.4	7.9	7.9	29.5	29.5	99.9	99.9	8.0	8.0	20.7		28		83				<0.2		0.8	
						7.7	0.6	296	17.4		7.9		29.5		99.9		8.0		20.7		29		84				<0.2		0.7	
SR2	Fine	Moderate	09:09	4.6	Surface	1.0	0.3	110	17.5	17.5	7.9	7.9	29.4	29.4	97.1	97.1	7.8	7.8	20.5	20.9	24	23	77	80	821464	814168	<0.2	<0.2	0.9	0.9
						1.0	0.3	117	17.5		7.9		29.4		97.1		7.8		20.6		22		78				<0.2		0.9	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	119	17.4	17.4	7.9	7.9	29.5	29.5	98.6	98.6	7.9	7.9	21.3		23		83				<0.2		0.9	
						3.6	0.3	119	17.4		7.9		29.5		98.6		7.9		21.3		22		83				<0.2		0.8	
SR3	Fine	Moderate	10:06	9.1	Surface	1.0	0.5	128	17.8	17.8	7.8	7.8	27.4	27.4	96.0	96.0	7.8	7.8	7.9	10.5	6	11	-	-	822157	807585	-	-	-	-
						1.0	0.6	134	17.8		7.8		27.4		95.9		7.8		8.0		5		-				-		-	
					Middle	4.6	0.5	177	17.7	17.7	7.8	7.8	27.5	27.5	96.1	96.1	7.8		12.0		10		-				-		-	
						4.6	0.5	185	17.7		7.8		27.5		96.1		7.8		12.2		10		-				-		-	
					Bottom	8.1	0.5	128	17.7	17.7	7.8	7.8	27.5	27.5	97.2	97.2	7.9	7.9	11.5		16		-				-		-	
						8.1	0.5	133	17.7		7.8		27.5		97.2		7.9		11.5		17		-				-		-	
SR4A	Sunny	Moderate	10:00	8.3	Surface	1.0	0.2	181	14.3	14.3	7.8	7.8	33.4	33.4	96.5	96.6	8.0	8.1	14.5	14.7	16	23	-	-	817173	807791	-	-	-	-
						1.0	0.3	186	14.3		7.8		33.4		96.6		8.0		14.5		18		-				-		-	
					Middle	4.2	0.2	176	14.3	14.3	7.8	7.8	33.5	33.5	96.6	96.7	8.1		14.3		24		-				-		-	
						4.2	0.3	182	14.3		7.8		33.5		96.7		8.1		14.3		26		-				-		-	
					Bottom	7.3	0.3	163	14.2	14.2	7.8	7.8	33.5	33.5	97.2	97.2	8.1	8.1	15.2		25		-				-		-	
						7.3	0.3	176	14.2		7.8		33.5		97.2		8.1		15.2		26		-				-		-	
SR5A	Sunny	Moderate	09:43	4.6	Surface	1.0	0.3	282	14.2	14.2	7.8	7.8	32.9	32.9	97.2	97.2	8.1	8.1	11.5	12.5	15	15	-	-	816612	810676	-	-	-	-
						1.0	0.4	295	14.2		7.8		32.9		97.2		8.1		11.5		16		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	283	14.2	14.2	7.8	7.8	33.0	33.0	97.5	97.5	8.2	8.2	13.5		15		-				-		-	
						3.6	0.2	287	14.2		7.8		33.0		97.5		8.2		13.5		14		-				-		-	
SR6	Sunny	Moderate	09:19	4.5	Surface	1.0	0.2	230	14.4	14.4	7.7	7.7	31.8	31.8	96.2	96.2	8.1	8.1	8.4	9.0	10	15	-	-	817898	814647	-	-	-	-
						1.0	0.2	240	14.4		7.7		31.8		96.2		8.1		8.4		9		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	233	14.4	14.4	7.7	7.7	31.5	31.5	96.8	96.8	8.1	8.1	9.6		19		-				-		-	
						3.5	0.2	253	14.4		7.7		31.5		96.8		8.1		9.6		21		-				-		-	
SR7	Fine	Calm	08:02	17.5	Surface	1.0	0.3	230	17.6	17.6	7.9	7.9	29.6	29.6	95.2	95.2	7.6	7.6	7.5	9.2	11	15	-	-	823619	823726	-	-	-	-
						1.0	0.3	251	17.6		7.9		29.6		95.2		7.6		7.6		10		-				-		-	
					Middle	8.8	0.3	108	17.6	17.6	7.9	7.9	29.8	29.8	95.1	95.1	7.6		9.4		15		-				-		-	
						8.8	0.3	111	17.6		7.9		29.8		95.1		7.6		9.5		13		-				-		-	
					Bottom	16.5	0.4	116	17.6	17.6	7.9	7.9	29.8	29.8	96.1	96.1	7.7	7.7	10.5		21		-				-		-	
						16.5	0.4	126	17.6		7.9		29.8		96.1		7.7		10.5		19		-				-		-	
SR8	Fine	Moderate	09:23	5.2	Surface	1.0	0.3	205	17.5	17.5	7.9	7.9	29.1	29.1	97.8	97.8	7.9	7.9	14.7	15.3	18	22	-	-	820430	811596	-	-	-	-
						1.0	0.3	211	17.5		7.9		29.1		97.8		7.9		14.8		17		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	230	17.5	17.5	7.9	7.9	29.2	29.2	98.5	98.6	7.9	7.9	15.8		28		-				-		-	
						4.2	0.3	239	17.5		7.9		29.2		98.6		7.9		16.0		26		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 14 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Moderate	15:08	8.8	Surface	1.0	0.5	184	14.8	14.8	7.8	7.8	34.1	34.1	98.0	98.0	8.0	8.0	10.3	12.1	14	17	83	84	815627	804253	<0.2	<0.2	0.7	0.7
						1.0	0.5	189	14.8		7.8		34.1		98.0		8.0		10.2		16		84				<0.2		0.7	
					Middle	4.4	0.4	193	14.5	14.5	7.8	7.8	34.2	34.2	97.4	97.4	8.0		12.1		15		84				<0.2		0.8	
						4.4	0.4	202	14.5		7.8		34.2		97.4		8.0		12.2		17		84				<0.2		0.7	
					Bottom	7.8	0.4	226	14.2	14.2	7.8	7.8	34.8	34.8	98.1	98.1	8.1	8.1	14.0		19		85				<0.2		0.5	
						7.8	0.4	243	14.2		7.8		34.8		98.1		8.1		13.8		21		85				<0.2		0.6	
C2	Fine	Moderate	13:33	12.7	Surface	1.0	0.4	111	18.3	18.3	7.8	7.8	27.3	27.3	97.6	97.6	7.8	7.8	8.6	13.2	8	11	74	79	825688	806949	<0.2	<0.2	1.8	1.7
						1.0	0.4	114	18.3		7.8		27.3		97.6		7.8		8.7		9		75				<0.2		1.8	
					Middle	6.4	0.4	97	18.1	18.1	7.8	7.8	27.9	27.9	97.0	97.0	7.8		12.5		11		78				<0.2		1.6	
						6.4	0.4	105	18.1		7.8		27.9		97.0		7.8		12.5		10		79				<0.2		1.5	
					Bottom	11.7	0.2	193	17.7	17.7	7.8	7.8	28.7	28.7	97.0	97.0	7.8	7.8	18.4		14		82				<0.2		1.8	
						11.7	0.2	210	17.7		7.8		28.7		97.0		7.8		18.3		14		84				<0.2		1.7	
C3	Fine	Calm	15:26	12.1	Surface	1.0	0.5	82	17.9	17.9	7.9	7.9	29.5	29.5	96.2	96.2	7.6	7.6	9.4	11.4	9	13	78	81	822089	817816	<0.2	<0.2	0.9	0.9
						1.0	0.5	88	17.9		7.9		29.5		96.1		7.6		9.4		11		77				<0.2		0.8	
					Middle	6.1	0.4	73	17.7	17.7	7.9	7.9	29.8	29.8	95.0	95.0	7.6		10.5		11		82				<0.2		0.8	
						6.1	0.5	77	17.7		7.9		29.8		95.0		7.6		10.5		12		81				<0.2		1.1	
					Bottom	11.1	0.4	100	17.7	17.7	7.9	7.9	29.9	29.9	96.3	96.3	7.7	7.7	14.4		15		83				<0.2		0.8	
						11.1	0.4	101	17.7		7.9		29.9		96.3		7.7		14.4		17		84				<0.2		0.8	
IM1	Sunny	Moderate	14:48	7.5	Surface	1.0	0.3	142	15.3	15.3	7.8	7.8	34.3	34.3	99.6	99.6	8.1	8.1	9.9	10.7	12	13	83	84	818356	806458	<0.2	<0.2	0.6	0.6
						1.0	0.3	151	15.3		7.8		34.3		99.6		8.1		9.9		11		83				<0.2		0.7	
					Middle	3.8	0.3	145	15.0	15.0	7.8	7.8	34.5	34.5	98.8	98.8	8.1		10.7		14		83				<0.2		0.6	
						3.8	0.3	156	15.0		7.8		34.5		98.8		8.1		10.8		13		83				<0.2		0.6	
					Bottom	6.5	0.2	139	14.8	14.8	7.8	7.8	34.6	34.6	98.8	98.8	8.1	8.1	11.6		15		84				<0.2		0.6	
						6.5	0.3	142	14.8		7.8		34.6		98.8		8.1		11.5		13		85				<0.2		0.6	
IM2	Sunny	Moderate	14:42	8.2	Surface	1.0	0.3	143	14.7	14.7	7.8	7.8	34.5	34.5	97.4	97.4	8.0	8.0	13.6	18.2	16	20	80	81	818851	806196	<0.2	<0.2	0.5	0.5
						1.0	0.4	154	14.7		7.8		34.5		97.4		8.0		13.5		15		80				<0.2		0.7	
					Middle	4.1	0.3	178	14.5	14.5	7.8	7.8	34.6	34.6	97.0	97.0	8.0		18.9		19		81				<0.2		0.6	
						4.1	0.3	190	14.5		7.8		34.6		96.9		8.0		18.9		17		81				<0.2		0.4	
					Bottom	7.2	0.3	182	14.4	14.4	7.8	7.8	34.6	34.6	97.5	97.5	8.0	8.0	22.3		26		82				<0.2		0.5	
						7.2	0.3	188	14.4		7.8		34.6		97.5		8.0		22.2		26		82				<0.2		0.4	
IM3	Sunny	Moderate	14:34	8.7	Surface	1.0	0.5	122	14.6	14.6	7.8	7.8	34.5	34.5	97.5	97.5	8.0	8.0	13.5	16.2	16	18	81	82	819412	806015	<0.2	<0.2	0.4	0.5
						1.0	0.5	123	14.6		7.8		34.5		97.4		8.0		13.4		15		81				<0.2		0.4	
					Middle	4.4	0.4	146	14.5	14.5	7.8	7.8	34.5	34.5	97.2	97.2	8.0		15.5		16		82				<0.2		0.5	
						4.4	0.4	152	14.5		7.8		34.5		97.2		8.0		15.6		17		82				<0.2		0.6	
					Bottom	7.7	0.4	168	14.3	14.3	7.8	7.8	34.6	34.6	98.1	98.2	8.1	8.1	19.7		21		83				<0.2		0.5	
						7.7	0.4	181	14.3		7.8		34.6		98.2		8.1		19.5		23		83				<0.2		0.5	
IM4	Sunny	Moderate	14:28	7.9	Surface	1.0	0.3	153	15.0	15.0	7.8	7.8	33.9	33.9	98.3	98.4	8.1	8.1	12.3	13.3	16	16	83	83	819561	805025	<0.2	<0.2	0.5	0.6
						1.0	0.3	165	15.0		7.8		33.9		98.4		8.1		12.3		16		82				<0.2		0.6	
					Middle	4.0	0.3	168	14.7	14.7	7.8	7.8	34.0	34.0	97.6	97.6	8.0		12.7		15		83				<0.2		0.6	
						4.0	0.3	169	14.7		7.8		34.0		97.6		8.0		12.8		14		83				<0.2		0.6	
					Bottom	6.9	0.2	172	14.4	14.4	7.8	7.8	34.5	34.5	97.1	97.2	8.0	8.0	14.8		16		84				<0.2		0.6	
						6.9	0.3	175	14.4		7.8		34.5		97.2		8.0		14.7		19		84				<0.2		0.7	
IM5	Sunny	Moderate	14:18	7.3	Surface	1.0	0.4	148	14.9	14.9	7.8	7.8	33.6	33.6	97.7	97.8	8.0	8.0	14.2	24.5	18	21	80	81	820564	804908	<0.2	<0.2	0.8	0.8
						1.0	0.4	159	14.9		7.8		33.6		97.8		8.0		14.2		19		79				<0.2		0.7	
					Middle	3.7	0.3	174	14.4	14.4	7.8	7.8	33.9	33.9	96.6	96.6	8.0		18.6		22		81				<0.2		0.7	
						3.7	0.4	188	14.4		7.8		33.9		96.6		8.0		18.7		20		81				<0.2		0.8	
					Bottom	6.3	0.3	187	14.2	14.2	7.8	7.8	34.5	34.5	96.2	96.3	8.0	8.0	40.5		25		82				<0.2		0.7	
						6.3	0.3	199	14.2		7.8		34.5		96.3		8.0		40.5		24		82				<0.2		0.8	
IM6	Sunny	Moderate	14:07	7.2	Surface	1.0	0.6	129	14.9	14.9	7.8	7.8	33.9	33.9	98.4	98.4	8.1	8.1	22.5	24.8	25	26	81	82	821058	805843	<0.2	<0.2	0.6	0.6
						1.0	0.6	130	14.9		7.8		33.9		98.3		8.1		22.5		24		81				<0.2		0.7	
					Middle	3.6	0.5	132	14.6	14.6	7.8	7.8	34.0	34.0	97.2	97.2	8.0		17.3		28		82				<0.2		0.6	
						3.6	0.5	141	14.6		7.8		34.0		97.2		8.0		17.3		27		82				<0.2		0.6	
					Bottom	6.2	0.5	153	14.3	14.3	7.8	7.8	34.3	34.3	97.4	97.5	8.1	8.1	34.4		27		83				<0.2		0.6	
						6.2	0.5	167	14.3		7.8		34.3		97.5		8.1		34.5		25		83				<0.2		0.6	
IM7	Sunny	Moderate	13:57	8.5	Surface	1.0	0.5	107	14.7	14.7	7.8	7.8	34.1	34.1	97.7	97.7	8.0	8.0	16.5	27.1	19	23	83	84	821348	806851	<0.2	<0.2	0.7	0.7
						1.0	0.6	112	14.7		7.8		34.1		97.7		8.0		16.6		20		83				<0.2		0.6	
					Middle	4.3	0.4	115	14.4	14.4	7.8	7.8	34.2	34.2	97.0	97.0	8.0		25.2		21		84				<0.2		0.6	
						4.3	0.5	122	14.4		7.8		34.2		97.0		8.0		25.3		22		84				<0.2		0.8	
					Bottom	7.5	0.5	128	14.4	14.4	7.8	7.8	34.3	34.3	97.3	97.3	8.0	8.0	39.4		26		85				<0.2		0.6	
						7.5	0.5	138	14.4		7.8		34.3		97.3		8.0		39.7		27		85				<0.2		0.6	
IM8	Fine	Moderate	14:04	8.4	Surface	1.0	0.6	98	17.7	17.7	7.9	7.9	29.8	29.8	99.3	99.3	7.9	7.9	23.6	28.7	25	25	77	81	821686	807828	<0.2	<0.2	0.9	0.7
						1.0	0.6	107	17.7		7.9		29.8		99.3		7.9		23.7		24		78				<0.2		0.7	
					Middle	4.2	0.6	112	17.6	17.6	7.9	7.9	29.8	29.8	99.1	99.1	7.9		29.2		26		81				<0.2		0.7	
						4.2	0.6	122	17.6		7.9		29.8		99.1		7.9		29.5		25		80				<0.2		0.5	
					Bottom	7.4	0.5	100	17.4	17.4	7.9	7.9	29.9	29.9	99.6	99.6	8.0	8.0	33.4		26		83				<0.2		0.6	
						7.4	0.5	109	17.4		7.9		29.9		99.6		8.0		33.0		26		84				<0.2		0.5	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 14 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Fine	Moderate	14:11	7.7	Surface	1.0	0.5	93	17.8	17.8	7.9	7.9	29.5	29.5	98.5	98.5	7.9	7.9	24.9	**40.8**	21	34	76	80	822087	808807	<0.2	<0.2	0.6	0.6
						1.0	0.6	94	17.8		7.9		29.5		98.4		7.9		25.3		20		77				<0.2		0.6	
					Middle	3.9	0.5	91	17.5	17.5	7.9	7.9	29.6	29.6	97.9	97.9	7.8		40.5		23		81				<0.2		0.5	
						3.9	0.5	95	17.5		7.9		29.6		97.9		7.8		40.3		23		79				<0.2		0.5	
					Bottom	6.7	0.5	85	17.5	17.5	7.9	7.9	29.6	29.6	98.9	98.9	7.9	7.9	56.9		56		83				<0.2		0.5	
						6.7	0.5	88	17.5		7.9		29.6		98.9		7.9		56.9		60		84				<0.2		0.6	
IM10	Fine	Moderate	14:17	7.5	Surface	1.0	0.6	92	17.8	17.8	7.9	7.9	29.4	29.4	99.1	99.1	7.9	7.9	19.4		17	23	78	80	822235	809857	<0.2	<0.2	1.0	1.0
						1.0	0.6	92	17.8		7.9		29.4		99.1		7.9		19.6		18		77				<0.2		1.1	
					Middle	3.8	0.5	90	17.7	17.7	7.9	7.9	29.3	29.3	99.2	99.2	7.9		23.6		20		79				<0.2		1.2	
						3.8	0.5	90	17.7		7.9		29.3		99.2		7.9		23.9		18		80				<0.2		1.0	
					Bottom	6.5	0.4	97	17.6	17.6	7.9	7.9	29.4	29.4	100.5	100.5	8.1	8.1	30.2		33		82				<0.2		0.9	
						6.5	0.4	100	17.6		7.9		29.4		100.5		8.1		30.2		33		83				<0.2		1.0	
IM11	Fine	Moderate	14:24	7.0	Surface	1.0	0.7	101	18.0	18.0	7.9	7.9	29.1	29.1	99.3	99.3	7.9	7.9	8.8		11	14	78	81	821484	810540	<0.2	<0.2	1.0	1.0
						1.0	0.8	108	18.0		7.9		29.1		99.3		7.9		8.9		10		80				<0.2		0.9	
					Middle	3.5	0.6	108	17.8	17.8	7.9	7.9	29.2	29.2	98.8	98.8	7.9		12.0	11.5	14		81				<0.2		1.1	
						3.5	0.6	110	17.8		7.9		29.2		98.8		7.9		12.1		14		82				<0.2		1.2	
					Bottom	6.0	0.6	105	17.6	17.6	7.9	7.9	29.3	29.3	100.2	100.2	8.0	8.0	13.5		15		84				<0.2		1.0	
						6.0	0.6	112	17.6		7.9		29.3		100.2		8.0		13.4		17		83				<0.2		0.9	
IM12	Fine	Moderate	14:32	8.5	Surface	1.0	0.7	99	17.9	17.9	7.9	7.9	29.2	29.2	99.4	99.4	7.9	8.0	7.9		9	12	79	82	821154	811511	<0.2	<0.2	1.0	1.0
						1.0	0.7	102	17.9		7.9		29.2		99.3		7.9		8.0		10		80				<0.2		1.1	
					Middle	4.3	0.6	92	17.8	17.8	7.9	7.9	29.3	29.3	99.6	99.6	8.0		8.0	8.0	12		82				<0.2		1.0	
						4.3	0.7	98	17.8		7.9		29.3		99.6		8.0		8.0		14		80				<0.2		1.0	
					Bottom	7.5	0.4	104	17.7	17.7	7.9	7.9	29.3	29.3	100.7	100.8	8.0	8.1	8.0		14		84				<0.2		0.9	
						7.5	0.4	113	17.7		7.9		29.3		100.8		8.1		8.0		13		85				<0.2		0.9	
SR2	Fine	Moderate	15:06	4.8	Surface	1.0	0.5	85	17.7	17.7	7.9	7.9	29.4	29.4	97.1	97.1	7.8	7.8	9.8		10	11	79	81	821455	814179	<0.2	<0.2	0.9	0.9
						1.0	0.5	85	17.7		7.9		29.4		97.1		7.8		9.8		10		79				<0.2		1.0	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-	11.2	-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.4	86	17.7	17.7	7.9	7.9	29.4	29.4	97.7	97.7	7.8	7.8	12.4		12		83				<0.2		0.8	
						3.8	0.4	89	17.7		7.9		29.4		97.7		7.8		12.6		13		83				<0.2		0.8	
SR3	Fine	Moderate	13:55	9.5	Surface	1.0	0.5	137	18.2	18.2	7.8	7.9	27.7	27.7	97.7	97.7	7.8	7.8	6.9		11	14	-	-	822143	807578	-	-	-	-
						1.0	0.5	145	18.2		7.9		27.7		97.7		7.8		6.8		9		-				-		-	
					Middle	4.8	0.5	94	17.9	17.9	7.9	7.9	28.5	28.5	97.3	97.3	7.8		19.0	16.5	15		-				-		-	
						4.8	0.6	102	17.9		7.9		28.5		97.3		7.8		19.2		14		-				-		-	
					Bottom	8.5	0.5	86	17.7	17.7	7.9	7.9	28.9	28.9	96.9	96.9	7.8	7.8	23.4		17		-				-		-	
						8.5	0.5	90	17.7		7.9		28.9		96.9		7.8		23.4		18		-				-		-	
SR4A	Sunny	Moderate	15:34	7.9	Surface	1.0	0.4	107	14.6	14.6	7.8	7.8	34.3	34.3	96.9	96.9	8.0	8.0	17.1		23	24	-	-	817199	807816	-	-	-	-
						1.0	0.4	112	14.6		7.8		34.3		96.9		8.0		17.1		24		-				-		-	
					Middle	4.0	0.4	100	14.5	14.5	7.8	7.8	34.3	34.3	96.8	96.8	8.0		19.1	18.4	23		-				-		-	
						4.0	0.4	104	14.5		7.8		34.3		96.8		8.0		19.2		25		-				-		-	
					Bottom	6.9	0.4	121	14.6	14.6	7.9	7.9	34.4	34.4	97.2	97.2	8.0	8.0	18.9		24		-				-		-	
						6.9	0.4	123	14.6		7.9		34.4		97.2		8.0		19.0		25		-				-		-	
SR5A	Sunny	Calm	15:51	4.6	Surface	1.0	0.1	175	15.4	15.4	7.8	7.8	34.1	34.1	102.6	102.7	8.3	8.3	6.5		10	9	-	-	816597	810693	-	-	-	-
						1.0	0.1	186	15.4		7.8		34.1		102.7		8.3		6.5		8		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-	7.8	-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	194	15.1	15.1	7.8	7.8	34.2	34.2	101.1	101.1	8.3	8.3	9.2		10		-				-		-	
						3.6	0.1	209	15.1		7.8		34.2		101.1		8.3		9.1		8		-				-		-	
SR6	Sunny	Calm	16:15	3.7	Surface	1.0	0.2	121	14.8	14.8	7.8	7.8	34.1	34.1	99.8	99.8	8.2	8.2	7.5		10	11	-	-	817912	814675	-	-	-	-
						1.0	0.2	123	14.8		7.8		34.1		99.8		8.2		7.6		9		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-	8.2	-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.2	134	14.6	14.6	7.8	7.8	34.1	34.1	99.6	99.7	8.2	8.2	8.9		12		-				-		-	
						2.7	0.2	140	14.6		7.8		34.1		99.7		8.2		8.7		13		-				-		-	
SR7	Fine	Calm	15:55	17.7	Surface	1.0	0.4	63	17.9	17.9	7.9	7.9	30.0	30.0	95.2	95.2	7.6	7.6	5.2		4	7	-	-	823623	823729	-	-	-	-
						1.0	0.4	63	17.9		7.9		30.0		95.2		7.6		5.2		5		-				-		-	
					Middle	8.9	0.4	60	17.8	17.8	7.9	7.9	30.0	30.0	94.8	94.8	7.5		6.4	6.7	7		-				-		-	
						8.9	0.4	64	17.8		7.9		30.0		94.8		7.5		6.2		6		-				-		-	
					Bottom	16.7	0.3	129	17.8	17.8	7.9	7.9	30.0	30.0	94.8	94.8	7.5	7.5	8.5		8		-				-		-	
						16.7	0.3	137	17.8		7.9		30.0		94.8		7.5		8.5		10		-				-		-	
SR8	Fine	Moderate	14:52	5.2	Surface	1.0	0.2	160.0	18.1	18.1	7.9	7.9	29.4	29.4	99.7	99.7	7.9	7.9	10.0		13	14	-	-	820414	811607	-	-	-	-
						1.0	0.2	160.0	18.1		7.9		29.4		99.7		7.9		10.0		12		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-	10.7	-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	159.0	17.6	17.6	7.9	7.9	29.4	29.4	99.6	99.6	8.0	8.0	11.1		15		-				-		-	
						4.2	0.3	172.0	17.6		7.9		29.4		99.6		8.0		11.8		16		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 16 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Sunny	Moderate	10:26	8.6	Surface	1.0	0.6	65	14.8	14.8	7.8	7.8	32.5	32.5	97.1	97.1	8.0	8.0	9.4	16.7	13	18	83	84	815639	804232	<0.2	<0.2	1.0	0.9
						1.0	0.6	69	14.8		7.8		32.5		97.1		8.1		9.4		13		83				<0.2		0.8	
					Middle	4.3	0.5	75	14.7	14.7	7.8	7.8	32.7	32.7	96.7	96.8	8.0		13.5		16		84				<0.2		0.9	
						4.3	0.5	80	14.7		7.8		32.7		96.8		8.0		13.6		18		84				<0.2		0.9	
					Bottom	7.6	0.5	71	14.6	14.6	7.8	7.8	32.9	32.9	97.3	97.3	8.1	8.1	27.4		26		85				<0.2		0.9	
						7.6	0.5	71	14.6		7.8		32.9		97.3		8.1		26.7		24		85				<0.2		0.8	
C2	Sunny	Moderate	11:29	12.2	Surface	1.0	0.5	157	18.2	18.2	7.9	7.9	25.9	25.9	95.7	95.7	7.7	7.7	6.0	9.5	3	6	79	81	825663	806963	<0.2	<0.2	2.3	1.8
						1.0	0.5	164	18.2		7.9		25.9		95.7		7.7		6.0		3		80				<0.2		2.3	
					Middle	6.1	0.6	194	17.9	17.9	7.9	7.9	27.5	27.5	94.8	94.8	7.6		10.2		5		81				<0.2		1.6	
						6.1	0.6	199	17.9		7.9		27.5		94.8		7.6		10.2		5		81				<0.2		1.6	
					Bottom	11.2	0.4	255	17.9	17.9	7.9	7.9	27.6	27.6	95.5	95.5	7.7	7.7	12.2		11		84				<0.2		1.6	
						11.2	0.4	256	17.9		7.9		27.6		95.5		7.7		12.2		10		82				<0.2		1.6	
C3	Sunny	Moderate	09:33	11.3	Surface	1.0	0.5	262	17.9	17.9	7.9	7.9	28.8	28.8	96.7	96.7	7.7	7.7	5.3	9.0	7	10	80	82	822115	817784	<0.2	<0.2	1.1	1.0
						1.0	0.5	272	17.9		7.9		28.8		96.6		7.7		5.3		5		79				<0.2		1.1	
					Middle	5.7	0.5	266	17.8	17.8	7.9	7.9	29.2	29.2	96.1	96.1	7.7		7.9		10		82				<0.2		0.9	
						5.7	0.6	283	17.8		7.9		29.2		96.1		7.7		7.9		10		81				<0.2		1.1	
					Bottom	10.3	0.4	264	17.8	17.8	7.9	7.9	29.2	29.2	96.0	96.0	7.7	7.7	13.8		15		86				<0.2		1.0	
						10.3	0.4	276	17.8		7.9		29.2		96.0		7.7		13.8		13		86				<0.2		1.0	
IM1	Sunny	Moderate	10:44	7.7	Surface	1.0	0.6	84	15.2	15.2	8.0	8.0	31.8	31.8	97.0	97.0	8.0	8.0	5.2	16.3	9	15	80	81	818366	806453	<0.2	<0.2	1.2	1.2
						1.0	0.7	88	15.2		8.0		31.8		97.0		8.0		5.2		9		80				<0.2		1.4	
					Middle	3.9	0.6	145	14.8	14.8	8.0	8.0	32.2	32.2	96.1	96.1	8.0		7.5		12		81				<0.2		1.2	
						3.9	0.6	147	14.8		8.0		32.2		96.1		8.0		7.3		12		81				<0.2		1.1	
					Bottom	6.7	0.5	164	14.6	14.6	8.0	8.0	32.7	32.7	95.4	95.4	7.9	7.9	36.2		24		82				<0.2		0.9	
						6.7	0.5	178	14.6		8.0		32.7		95.4		7.9		36.3		23		82				<0.2		1.1	
IM2	Sunny	Moderate	10:50	8.5	Surface	1.0	0.8	106	15.3	15.3	7.9	7.9	31.4	31.4	96.9	96.9	8.0	8.0	4.8	17.5	7	21	81	81	818851	806173	<0.2	<0.2	1.3	1.3
						1.0	0.8	114	15.3		7.9		31.4		96.9		8.0		4.8		6		80				<0.2		1.4	
					Middle	4.3	0.7	105	14.7	14.7	7.9	7.9	32.4	32.4	95.8	95.8	8.0		16.9		22		81				<0.2		1.3	
						4.3	0.8	112	14.7		7.9		32.4		95.8		8.0		17.0		21		82				<0.2		1.2	
					Bottom	7.5	0.6	117	14.7	14.7	7.9	7.9	32.4	32.4	95.8	95.8	8.0	8.0	30.9		33		82				<0.2		1.2	
						7.5	0.6	126	14.7		7.9		32.4		95.8		8.0		30.3		35		82				<0.2		1.2	
IM3	Sunny	Moderate	10:58	8.6	Surface	1.0	0.6	123	15.1	15.1	7.8	7.8	31.2	31.2	96.4	96.4	8.0	8.0	4.6	18.6	6	23	80	81	819397	806002	<0.2	<0.2	1.6	1.4
						1.0	0.7	127	15.1		7.8		31.2		96.4		8.0		4.6		7		81				<0.2		1.5	
					Middle	4.3	0.5	102	14.8	14.8	7.9	7.9	32.0	32.0	95.7	95.7	7.9		11.1		15		81				<0.2		1.3	
						4.3	0.6	102	14.8		7.8		32.0		95.7		8.0		11.3		15		82				<0.2		1.3	
					Bottom	7.6	0.5	98	14.8	14.8	7.9	7.9	32.3	32.3	95.8	95.8	8.0	8.0	39.9		47		82				<0.2		1.2	
						7.6	0.5	106	14.8		7.9		32.3		95.8		8.0		39.8		49		82				<0.2		1.4	
IM4	Sunny	Moderate	11:08	8.1	Surface	1.0	0.7	117	15.2	15.2	7.8	7.8	31.4	31.4	97.3	97.4	8.1	8.1	5.2	13.3	13	19	82	83	819572	805033	<0.2	<0.2	1.7	1.4
						1.0	0.7	117	15.1		7.8		31.4		97.4		8.1		5.3		11		82				<0.2		1.5	
					Middle	4.1	0.7	99	14.9	14.9	7.8	7.8	31.9	31.9	96.7	96.7	8.0		7.2		12		82				<0.2		1.3	
						4.1	0.7	101	14.9		7.8		31.9		96.7		8.0		7.4		13		83				<0.2		1.4	
					Bottom	7.1	0.7	112	14.8	14.8	7.8	7.8	32.4	32.4	97.0	97.1	8.0	8.1	27.7		30		84				<0.2		1.2	
						7.1	0.7	121	14.8		7.8		32.4		97.1		8.1		26.7		33		84				<0.2		1.1	
IM5	Sunny	Moderate	11:17	6.9	Surface	1.0	0.6	143	15.1	15.1	7.8	7.8	31.4	31.4	96.8	96.9	8.0	8.0	3.7	21.8	5	21	79	80	820549	804919	<0.2	<0.2	1.5	1.4
						1.0	0.7	152	15.1		7.8		31.4		96.9		8.0		3.7		3		80				<0.2		1.4	
					Middle	3.5	0.5	107	14.9	14.9	7.8	7.8	31.9	31.9	96.1	96.1	8.0		18.6		13		80				<0.2		1.4	
						3.5	0.5	112	14.9		7.8		31.9		96.1		8.0		18.4		14		81				<0.2		1.4	
					Bottom	5.9	0.5	97	14.8	14.8	7.8	7.8	32.1	32.1	96.4	96.4	8.0	8.0	43.4		46		81				<0.2		1.2	
						5.9	0.6	106	14.8		7.8		32.1		96.4		8.0		43.2		44		81				<0.2		1.4	
IM6	Sunny	Moderate	11:26	7.1	Surface	1.0	0.7	79	15.4	15.4	7.8	7.8	31.3	31.3	96.8	96.8	8.0	8.0	4.3	13.5	6	15	81	81	821068	805838	<0.2	<0.2	1.5	1.5
						1.0	0.8	81	15.4		7.8		31.3		96.8		8.0		4.4		4		80				<0.2		1.6	
					Middle	3.6	0.7	95	14.9	14.9	7.8	7.8	31.9	31.9	95.7	95.7	7.9		12.5		16		81				<0.2		1.4	
						3.6	0.8	102	14.9		7.8		31.9		95.7		7.9		12.6		14		81				<0.2		1.4	
					Bottom	6.1	0.7	106	14.9	14.9	7.8	7.8	32.0	32.0	95.9	96.0	8.0	8.0	23.4		23		82				<0.2		1.5	
						6.1	0.7	107	14.9		7.8		32.0		96.0		8.0		23.5		25		82				<0.2		1.7	
IM7	Sunny	Moderate	11:33	7.9	Surface	1.0	0.6	42	15.2	15.2	7.8	7.8	30.9	30.9	96.6	96.6	8.0	8.0	3.8	10.4	5	13	83	84	821332	806821	<0.2	<0.2	2.0	1.5
						1.0	0.6	44	15.2		7.8		30.9		96.6		8.0		3.8		5		83				<0.2		2.0	
					Middle	4.0	0.7	42	15.0	15.0	7.8	7.8	31.7	31.7	96.0	96.0	8.0		6.2		11		84				<0.2		1.6	
						4.0	0.7	43	15.0		7.8		31.7		96.0		8.0		6.3		12		84				<0.2		1.5	
					Bottom	6.9	0.5	77	14.8	14.8	7.8	7.8	32.8	32.8	95.8	95.8	7.9	7.9	21.3		21		84				<0.2		1.0	
						6.9	0.5	77	14.8		7.8		32.8		95.8		7.9		21.1		23		85				<0.2		1.1	
IM8	Sunny	Moderate	11:06	7.3	Surface	1.0	0.3	160	18.4	18.4	7.9	7.9	25.6	25.6	98.0	98.0	7.9	7.9	4.5	7.0	7	7	81	83	821699	807829	<0.2	<0.2	2.5	2.1
						1.0	0.3	160	18.4		7.9		25.6		98.0		7.9		4.5		6		81				<0.2		2.8	
					Middle	3.7	0.4	164	18.1	18.1	7.9	7.9	26.5	26.5	97.2	97.2	7.9		6.5		8		83				<0.2		2.0	
						3.7	0.4	172	18.1		7.9		26.5		97.2		7.9		6.5		6		82				<0.2		2.0	
					Bottom	6.3	0.4	164	17.9	17.9	7.9	7.9	27.8	27.8	96.9	96.9	7.8	7.8	9.9		8		84				<0.2		1.5	
						6.3	0.4	176	17.9		7.9		27.8		96.9		7.8		9.9		8		84				<0.2		1.6	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 16 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Sunny	Moderate	10:59	7.5	Surface	1.0	0.4	259	18.1	18.1	7.9	7.9	27.4	27.4	97.7	97.7	7.8	7.8	6.6	8.6	6	9	82	83	822079	808804	<0.2	<0.2	1.8	1.6
						1.0	0.4	279	18.1		7.9		27.4		97.7		7.8		6.6		6		81				<0.2		1.7	
					Middle	3.8	0.4	264	18.0	18.0	7.9	7.9	27.8	27.8	97.3	97.3	7.8		9.4		8		82				<0.2		1.6	
						3.8	0.4	273	18.0		7.9		27.8		97.3		7.8		9.4		9		82				<0.2		1.6	
					Bottom	6.5	0.3	266	18.0	18.0	7.9	7.9	27.8	27.8	97.5	97.5	7.8	7.8	9.7		13		85				<0.2		1.6	
						6.5	0.3	277	18.0		7.9		27.8		97.5		7.8		9.7		13		84				<0.2		1.4	
IM10	Sunny	Moderate	10:52	8.2	Surface	1.0	0.6	301	18.2	18.2	7.9	7.9	28.0	28.0	97.7	97.7	7.8	7.8	9.0	16.1	6	13	83	83	822248	809845	<0.2	<0.2	1.3	1.2
						1.0	0.6	302	18.2		7.9		28.0		97.7		7.8		9.1		7		82				<0.2		1.3	
					Middle	4.1	0.6	301	17.8	17.8	7.9	7.9	28.5	28.5	96.9	96.9	7.8		15.6		11		83				<0.2		1.2	
						4.1	0.6	317	17.8		7.9		28.5		96.9		7.8		15.6		10		83				<0.2		1.2	
					Bottom	7.2	0.4	288	17.8	17.8	7.9	7.9	28.6	28.6	97.4	97.5	7.8	7.8	23.5		23		85				<0.2		1.1	
						7.2	0.5	315	17.8		7.9		28.6		97.5		7.8		23.8		21		84				<0.2		1.1	
IM11	Sunny	Moderate	10:45	8.2	Surface	1.0	0.7	277	18.0	18.0	7.9	7.9	27.9	27.9	98.3	98.3	7.9	7.9	7.0	14.1	9	20	83	84	821483	810546	<0.2	<0.2	1.5	1.5
						1.0	0.8	284	18.0		7.9		27.9		98.3		7.9		7.0		8		83				<0.2		1.7	
					Middle	4.1	0.7	283	17.8	17.8	7.9	7.9	28.5	28.5	97.6	97.6	7.8		11.7		24		85				<0.2		1.5	
						4.1	0.7	292	17.8		7.9		28.5		97.6		7.8		11.7		25		85				<0.2		1.6	
					Bottom	7.2	0.5	276	17.7	17.7	7.9	7.9	28.8	28.8	97.3	97.3	7.8	7.8	23.7		28		85				<0.2		1.5	
						7.2	0.5	282	17.7		7.9		28.8		97.3		7.8		23.3		27		85				<0.2		1.3	
IM12	Sunny	Moderate	10:38	8.6	Surface	1.0	0.7	275	17.9	17.9	7.9	7.9	28.9	28.9	97.4	97.4	7.8	7.8	11.6	12.9	12	15	83	84	821150	811534	<0.2	<0.2	1.4	1.3
						1.0	0.8	298	17.9		7.9		28.9		97.4		7.8		11.6		13		82				<0.2		1.5	
					Middle	4.3	0.6	271	17.7	17.7	7.9	7.9	29.1	29.1	96.9	96.9	7.8		12.8		15		84				<0.2		1.3	
						4.3	0.6	297	17.7		7.9		29.1		96.9		7.8		12.8		14		83				<0.2		1.3	
					Bottom	7.6	0.5	278	17.7	17.7	7.9	7.9	29.1	29.1	96.9	96.9	7.8	7.8	14.4		17		86				<0.2		1.2	
						7.6	0.6	278	17.7		7.9		29.1		96.9		7.8		14.4		16		85				<0.2		1.3	
SR2	Sunny	Moderate	10:08	4.0	Surface	1.0	0.2	155	17.8	17.8	7.9	7.9	28.9	28.9	96.7	96.7	7.7	7.7	16.4	17.2	18	22	82	84	821475	814146	<0.2	<0.2	1.1	1.1
						1.0	0.2	163	17.8		7.9		28.9		96.7		7.7		16.1		17		81				<0.2		1.1	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	141	17.8	17.8	7.9	7.9	28.9	28.9	96.6	96.6	7.7	7.7	18.1		27		87				<0.2		1.2	
						3.0	0.2	142	17.8		7.9		28.9		96.6		7.7		18.1		27		86				<0.2		1.0	
SR3	Sunny	Moderate	11:10	8.9	Surface	1.0	0.4	175	18.1	18.1	7.9	7.9	26.0	26.0	97.3	97.3	7.9	7.9	5.0	9.2	7	11	-	-	822163	807553	-	-	-	-
						1.0	0.4	185	18.1		7.9		26.0		97.3		7.9		5.0		5		-				-		-	
					Middle	4.5	0.5	191	18.0	18.0	7.9	7.9	26.8	26.8	96.8	96.8	7.8		6.9		9		-				-		-	
						4.5	0.5	210	18.0		7.9		26.8		96.8		7.8		6.9		10		-				-		-	
					Bottom	7.9	0.4	195	17.9	17.9	7.9	7.9	27.8	27.8	96.8	96.8	7.8	7.8	15.8		18		-				-		-	
						7.9	0.4	205	17.9		7.9		27.8		96.8		7.8		15.8		18		-				-		-	
SR4A	Sunny	Moderate	10:03	8.9	Surface	1.0	0.4	239	14.8	14.8	7.8	7.8	32.7	32.7	96.2	96.2	8.0	8.0	18.0	19.0	23	23	-	-	817204	807810	-	-	-	-
						1.0	0.4	242	14.8		7.8		32.7		96.2		8.0		18.0		24		-				-		-	
					Middle	4.5	0.3	243	14.8	14.8	7.8	7.8	32.7	32.7	96.2	96.2	8.0		20.1		22		-				-		-	
						4.5	0.3	263	14.8		7.8		32.7		96.2		8.0		20.2		22		-				-		-	
					Bottom	7.9	0.3	241	14.8	14.8	7.8	7.8	32.7	32.7	96.6	96.6	8.0	8.0	18.8		24		-				-		-	
						7.9	0.3	262	14.8		7.8		32.7		96.6		8.0		18.7		22		-				-		-	
SR5A	Sunny	Moderate	09:45	4.1	Surface	1.0	0.4	256	14.7	14.7	7.8	7.8	32.3	32.3	97.0	97.1	8.1	8.1	13.1	12.1	14	14	-	-	816609	810685	-	-	-	-
						1.0	0.4	269	14.7		7.8		32.3		97.1		8.1		13.2		13		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.3	260	14.6	14.6	7.8	7.8	32.3	32.3	97.2	97.3	8.1	8.1	11.0		14		-				-		-	
						3.1	0.4	268	14.6		7.8		32.3		97.3		8.1		11.0		16		-				-		-	
SR6	Sunny	Moderate	09:20	4.5	Surface	1.0	0.2	240	14.6	14.6	7.8	7.8	30.4	30.4	94.5	94.5	8.0	8.0	51.3	**54.3**	74	**76**	-	-	817894	814648	-	-	-	-
						1.0	0.2	263	14.6		7.8		30.4		94.5		8.0		51.4		75		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	234	14.6	14.6	7.8	7.8	30.3	30.3	94.5	94.6	8.0	8.0	57.3		78		-				-		-	
						3.5	0.2	257	14.6		7.8		30.3		94.6		8.0		57.3		78		-				-		-	
SR7	Sunny	Moderate	08:47	17.2	Surface	1.0	0.2	170	17.7	17.7	7.9	7.9	29.3	29.3	95.8	95.8	7.7	7.7	4.7	4.8	7	9	-	-	823630	823731	-	-	-	-
						1.0	0.2	176	17.7		7.9		29.3		95.8		7.7		4.7		6		-				-		-	
					Middle	8.6	0.2	176	17.7	17.7	7.9	7.9	29.3	29.3	95.2	95.2	7.6		4.8		10		-				-		-	
						8.6	0.2	191	17.7		7.9		29.3		95.1		7.6		4.8		9		-				-		-	
					Bottom	16.2	0.2	166	17.7	17.7	7.9	7.9	29.4	29.4	94.7	94.7	7.6	7.6	5.0		10		-				-		-	
						16.2	0.2	180	17.7		7.9		29.4		94.7		7.6		4.9		10		-				-		-	
SR8	Sunny	Moderate	10:21	5.1	Surface	1.0	0.2	189	18.1	18.1	7.9	7.9	27.7	27.7	97.9	97.9	7.8	7.8	8.9	9.6	8	10	-	-	820399	811596	-	-	-	-
						1.0	0.2	189	18.0		7.9		27.7		97.9		7.8		9.0		10		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.3	265	17.8	17.8	7.9	7.9	28.3	28.3	97.6	97.6	7.8	7.8	10.2		11		-				-		-	
						4.1	0.3	276	17.8		7.9		28.3		97.6		7.8		10.2		11		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 16 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Sunny	Moderate	15:41	8.5	Surface	1.0	0.2	159	15.0	15.0	7.9	7.9	33.6	33.6	98.4	98.4	8.1	8.1	6.7	8.7	9	11	83	84	815609	804266	<0.2	<0.2	0.8	0.8
						1.0	0.2	169	15.0		7.9		33.6		98.4		8.1		6.8		7		83				<0.2		0.8	
					Middle	4.3	0.2	160	14.6	14.6	7.9	7.9	34.1	34.1	97.3	97.3	8.0		8.5		11		83				<0.2		0.6	
						4.3	0.2	164	14.6		7.9		34.1		97.2		8.0		8.6		13		84				<0.2		0.8	
					Bottom	7.5	0.3	163	14.5	14.5	7.9	7.9	34.4	34.4	97.1	97.1	8.0	8.0	10.6		12		84				<0.2		0.9	
						7.5	0.3	175	14.5		7.9		34.4		97.1		8.0		10.7		13		85				<0.2		0.8	
C2	Sunny	Moderate	14:41	12.3	Surface	1.0	0.3	110	18.4	18.4	7.9	7.9	26.9	26.9	96.7	96.7	7.7	7.7	10.1	12.0	4	9	82	84	825700	806933	<0.2	<0.2	2.2	1.9
						1.0	0.3	120	18.4		7.9		26.9		96.7		7.7		10.1		5		81				<0.2		2.4	
					Middle	6.2	0.2	154	17.9	17.9	7.9	7.9	28.2	28.2	95.3	95.3	7.6		13.9		9		84				<0.2		1.9	
						6.2	0.2	164	17.9		7.9		28.2		95.3		7.6		13.9		8		84				<0.2		1.9	
					Bottom	11.3	0.2	221	17.9	17.9	7.9	7.9	29.0	29.0	95.7	95.7	7.6	7.6	12.0		13		85				<0.2		1.5	
						11.3	0.2	233	17.9		7.9		29.0		95.7		7.6		12.0		15		85				<0.2		1.3	
C3	Sunny	Moderate	17:05	12.0	Surface	1.0	0.4	72	18.0	18.0	7.9	7.9	29.1	29.1	96.2	96.2	7.6	7.6	6.1	7.2	4	6	76	80	822102	817805	<0.2	<0.2	1.0	1.0
						1.0	0.4	74	18.0		7.9		29.1		96.2		7.6		6.1		6		76				<0.2		1.1	
					Middle	6.0	0.3	86	17.9	17.9	7.9	7.9	29.4	29.4	94.2	94.2	7.5		7.8		6		81				<0.2		1.0	
						6.0	0.3	87	17.9		7.9		29.4		94.2		7.5		7.8		5		82				<0.2		1.0	
					Bottom	11.0	0.2	96	17.8	17.8	7.9	7.9	29.7	29.7	93.6	93.6	7.5	7.5	7.8		6		83				<0.2		0.8	
						11.0	0.3	99	17.8		7.9		29.7		93.6		7.5		7.8		6		84				<0.2		0.8	
IM1	Sunny	Moderate	15:22	7.7	Surface	1.0	0.3	148	15.2	15.2	7.9	7.9	33.9	33.9	98.5	98.5	8.0	8.0	9.8	12.0	13	16	82	83	818367	806458	<0.2	<0.2	0.7	0.6
						1.0	0.3	152	15.2		7.9		33.9		98.5		8.0		9.7		11		83				<0.2		0.7	
					Middle	3.9	0.2	189	15.0	15.0	7.9	7.9	34.0	34.0	97.5	97.6	8.0		12.1		14		83				<0.2		0.6	
						3.9	0.3	203	15.0		7.9		34.0		97.6		8.0		12.1		14		83				<0.2		0.6	
					Bottom	6.7	0.2	191	14.8	14.8	7.9	7.9	34.1	34.1	97.6	97.6	8.0	8.0	14.3		21		84				<0.2		0.5	
						6.7	0.2	198	14.8		7.9		34.1		97.6		8.0		14.2		21		83				<0.2		0.5	
IM2	Sunny	Moderate	15:17	8.9	Surface	1.0	0.2	127	15.4	15.4	7.9	7.9	33.8	33.8	98.2	98.2	8.0	8.0	11.8	13.8	11	15	80	81	818862	806181	<0.2	<0.2	0.7	0.8
						1.0	0.2	133	15.3		7.9		33.8		98.1		8.0		12.2		12		80				<0.2		0.7	
					Middle	4.5	0.1	129	14.8	14.8	7.9	7.9	34.0	34.0	97.1	97.1	8.0		15.4		12		81				<0.2		0.8	
						4.5	0.1	140	14.8		7.9		34.0		97.1		8.0		15.4		14		81				<0.2		0.8	
					Bottom	7.9	0.1	175	14.9	14.9	7.9	7.9	34.0	34.0	97.7	97.7	8.0	8.0	14.0		18		81				<0.2		0.7	
						7.9	0.1	188	14.9		7.9		34.0		97.7		8.0		13.7		20		81				<0.2		0.8	
IM3	Sunny	Moderate	15:10	8.7	Surface	1.0	0.3	158	15.5	15.5	7.9	7.9	33.6	33.6	99.0	99.0	8.0	8.0	8.6	10.9	9	12	81	82	819417	806005	<0.2	<0.2	0.8	0.8
						1.0	0.3	158	15.5		7.9		33.6		99.0		8.0		8.7		8		81				<0.2		0.8	
					Middle	4.4	0.3	182	15.1	15.1	7.9	7.9	33.8	33.8	97.8	97.8	8.0		11.2		11		82				<0.2		0.7	
						4.4	0.3	184	15.1		7.9		33.8		97.8		8.0		11.2		12		82				<0.2		0.8	
					Bottom	7.7	0.3	193	14.8	14.8	7.9	7.9	33.9	33.9	97.8	97.8	8.0	8.0	12.9		16		83				<0.2		0.8	
						7.7	0.4	199	14.8		7.9		33.9		97.8		8.0		12.9		18		83				<0.2		0.7	
IM4	Sunny	Moderate	15:02	8.2	Surface	1.0	0.3	158	15.6	15.6	8.0	8.0	33.3	33.3	98.9	98.9	8.0	8.0	8.9	12.1	10	12	80	81	819564	805048	<0.2	<0.2	0.9	0.9
						1.0	0.3	159	15.6		8.0		33.3		98.8		8.0		9.0		9		80				<0.2		0.9	
					Middle	4.1	0.3	156	15.0	15.0	8.0	8.0	33.6	33.6	97.4	97.4	8.0		12.4		13		81				<0.2		0.9	
						4.1	0.3	164	15.0		8.0		33.6		97.4		8.0		12.5		13		81				<0.2		0.7	
					Bottom	7.2	0.3	181	14.8	14.8	8.0	8.0	33.8	33.8	97.4	97.4	8.0	8.0	15.0		14		81				<0.2		1.1	
						7.2	0.3	191	14.8		8.0		33.8		97.4		8.0		14.8		15		82				<0.2		1.0	
IM5	Sunny	Moderate	14:56	7.1	Surface	1.0	0.3	133	15.2	15.2	7.9	7.9	33.5	33.5	97.9	98.0	8.0	8.0	13.2	15.0	13	16	80	82	820561	804908	<0.2	<0.2	1.0	0.8
						1.0	0.4	136	15.2		7.9		33.5		98.0		8.0		13.3		14		81				<0.2		0.8	
					Middle	3.6	0.3	148	14.8	14.8	7.9	7.9	33.7	33.7	97.0	97.0	8.0		14.9		14		82				<0.2		0.7	
						3.6	0.3	159	14.8		7.9		33.7		97.0		8.0		14.8		16		82				<0.2		0.8	
					Bottom	6.1	0.3	148	14.7	14.7	7.9	7.9	33.8	33.8	97.2	97.2	8.0	8.0	17.0		20		83				<0.2		0.8	
						6.1	0.3	160	14.7		7.9		33.8		97.2		8.0		16.9		20		83				<0.2		0.7	
IM6	Sunny	Moderate	14:47	7.1	Surface	1.0	0.4	128	15.3	15.3	7.9	7.9	33.7	33.7	98.4	98.4	8.0	8.0	12.8	13.8	14	16	79	81	821077	805845	<0.2	<0.2	0.7	0.8
						1.0	0.4	138	15.3		7.9		33.7		98.4		8.0		12.8		14		80				<0.2		0.7	
					Middle	3.6	0.3	122	15.2	15.2	7.9	7.9	33.6	33.6	98.2	98.2	8.0		13.2		16		81				<0.2		0.6	
						3.6	0.4	122	15.2		7.9		33.6		98.2		8.0		13.1		14		81				<0.2		0.7	
					Bottom	6.1	0.3	151	14.8	14.8	7.9	7.9	33.8	33.8	97.7	97.7	8.0	8.0	15.5		18		81				<0.2		1.0	
						6.1	0.3	157	14.8		7.9		33.8		97.7		8.0		15.6		18		82				<0.2		0.9	
IM7	Sunny	Moderate	14:39	8.8	Surface	1.0	0.4	118	15.4	15.4	7.8	7.8	33.3	33.3	98.4	98.4	8.0	8.0	11.6	14.3	12	17	83	84	821355	806817	<0.2	<0.2	0.8	0.9
						1.0	0.5	129	15.4		7.8		33.3		98.4		8.0		11.6		14		84				<0.2		0.9	
					Middle	4.4	0.5	108	15.0	15.0	7.8	7.8	33.4	33.4	97.5	97.5	8.0		14.7		18		84				<0.2		1.0	
						4.4	0.5	117	15.0		7.8		33.4		97.5		8.0		14.8		18		84				<0.2		0.9	
					Bottom	7.8	0.4	109	14.9	14.9	7.8	7.8	33.4	33.4	97.4	97.4	8.0	8.0	16.4		18		85				<0.2		0.8	
						7.8	0.4	110	14.9		7.8		33.4		97.4		8.0		16.4		20		85				<0.2		0.7	
IM8	Sunny	Moderate	15:06	8.6	Surface	1.0	0.4	139	18.6	18.6	7.9	7.9	27.6	27.6	99.6	99.6	7.9	7.9	12.6	17.9	6	11	81	83	821679	807820	<0.2	<0.2	1.7	1.3
						1.0	0.4	152	18.6		7.9		27.6		99.6		7.9		12.6		7		81				<0.2		1.5	
					Middle	4.3	0.4	112	17.9	17.9	7.9	7.9	28.9	28.9	98.0	98.0	7.8		16.6		10		84				<0.2		1.2	
						4.3	0.4	121	17.9		7.9		28.9		98.0		7.8		16.6		11		83				<0.2		1.3	
					Bottom	7.6	0.4	110	17.9	17.9	7.9	7.9	29.2	29.2	98.1	98.1	7.8	7.8	24.4		16		86				<0.2		0.8	
						7.6	0.4	119	17.9		7.9		29.2		98.1		7.8		24.4		18		85				<0.2		1.0	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 16 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Sunny	Moderate	15:15	7.4	Surface	1.0	0.6	100	18.4	18.4	7.9	7.9	27.3	27.3	99.1	99.1	7.9	7.9	9.6	12.9	5	12	82	83	822106	808793	<0.2	<0.2	2.0	1.4
						1.0	0.6	106	18.4		7.9		27.3		99.1		7.9		9.6		4		81				<0.2		1.8	
					Middle	3.7	0.5	77	18.1	18.1	7.9	7.9	28.6	28.6	98.3	98.3	7.8		13.8		12		83				<0.2		1.2	
						3.7	0.5	83	18.1		7.9		28.6		98.3		7.8		13.8		13		83				<0.2		1.4	
					Bottom	6.4	0.5	79	18.1	18.1	7.9	7.9	28.8	28.8	98.3	98.3	7.8	7.8	15.4		19		85				<0.2		1.1	
						6.4	0.5	81	18.1		7.9		28.8		98.3		7.8		15.4		18		85				<0.2		1.1	
IM10	Sunny	Moderate	15:27	7.9	Surface	1.0	0.5	86	18.7	18.7	7.9	7.9	27.5	27.5	100.1	100.1	7.9	7.9	10.3	18.3	7	15	80	82	822254	809838	<0.2	<0.2	1.6	1.1
						1.0	0.5	90	18.7		7.9		27.5		100.1		7.9		10.3		6		80				<0.2		1.5	
					Middle	4.0	0.4	92	18.0	18.0	7.9	7.9	28.9	28.9	98.0	98.0	7.8		20.4		19		82				<0.2		0.9	
						4.0	0.4	97	18.0		7.9		28.9		98.0		7.8		20.4		19		83				<0.2		0.9	
					Bottom	6.9	0.3	101	17.9	17.9	7.9	7.9	29.0	29.0	97.6	97.6	7.8	7.8	24.3		20		85				<0.2		0.9	
						6.9	0.3	110	17.9		7.9		29.0		97.6		7.8		24.3		21		84				<0.2		0.9	
IM11	Sunny	Moderate	15:39	7.6	Surface	1.0	0.6	145	18.6	18.6	7.9	7.9	28.1	28.1	100.3	100.3	7.9	7.9	7.8	14.9	3	9	77	81	821509	810555	<0.2	<0.2	1.5	1.1
						1.0	0.6	156	18.6		7.9		28.1		100.3		7.9		7.8		4		78				<0.2		1.4	
					Middle	3.8	0.6	130	18.2	18.2	8.0	8.0	28.7	28.7	98.7	98.7	7.8		13.1		6		80				<0.2		1.0	
						3.8	0.6	139	18.2		8.0		28.7		98.7		7.8		13.1		6		81				<0.2		1.1	
					Bottom	6.6	0.6	124	18.0	18.0	7.9	7.9	29.1	29.1	97.7	97.7	7.8	7.8	23.8		17		84				<0.2		0.8	
						6.6	0.7	133	18.0		7.9		29.1		97.7		7.8		23.8		17		84				<0.2		0.7	
IM12	Sunny	Moderate	15:47	9.2	Surface	1.0	0.6	99	18.8	18.8	8.0	8.0	27.8	27.8	99.7	99.7	7.9	7.9	8.1	11.8	3	6	79	82	821171	811513	<0.2	<0.2	1.2	1.4
						1.0	0.7	101	18.8		8.0		27.8		99.7		7.9		8.1		3		80				<0.2		1.2	
					Middle	4.6	0.6	112	18.0	18.0	7.9	7.9	28.8	28.8	97.2	97.2	7.8		12.4		4		81				<0.2		1.9	
						4.6	0.7	115	18.0		7.9		28.8		97.2		7.8		12.4		5		82				<0.2		1.8	
					Bottom	8.2	0.5	116	18.0	18.0	7.9	7.9	28.8	28.8	97.0	97.0	7.7	7.7	14.8		11		84				<0.2		1.2	
						8.2	0.5	120	18.0		7.9		28.8		97.0		7.7		14.8		12		84				<0.2		1.2	
SR2	Sunny	Moderate	16:46	4.2	Surface	1.0	0.3	196	18.5	18.5	7.9	7.9	28.2	28.2	99.0	99.0	7.8	7.8	6.8	7.1	4	6	76	77	821481	814179	<0.2	<0.2	1.8	1.6
						1.0	0.3	212	18.5		7.9		28.2		99.0		7.8		6.8		4		76				<0.2		1.7	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	190	18.1	18.1	7.9	7.9	28.6	28.6	98.1	98.1	7.8	7.8	7.3		7		78				<0.2		1.4	
						3.2	0.2	204	18.1		7.9		28.6		98.1		7.8		7.3		7		78				<0.2		1.4	
SR3	Sunny	Moderate	15:01	9.2	Surface	1.0	0.4	142	18.2	18.2	7.9	7.9	27.6	27.6	98.8	98.8	7.9	7.9	10.7	17.5	5	9	-	-	822160	807590	-	-	-	-
						1.0	0.4	145	18.2		7.9		27.6		98.8		7.9		10.7		3		-				-		-	
					Middle	4.6	0.4	115	18.4	18.4	7.9	7.9	28.0	28.0	99.3	99.3	7.9		13.0		11		-				-		-	
						4.6	0.4	120	18.4		7.9		28.0		99.3		7.9		13.0		9		-				-		-	
					Bottom	8.2	0.4	87	18.0	18.0	7.9	7.9	28.8	28.8	98.0	98.0	7.8	7.8	28.7		14		-				-		-	
						8.2	0.4	87	18.0		7.9		28.8		98.0		7.8		28.7		12		-				-		-	
SR4A	Sunny	Moderate	16:01	8.7	Surface	1.0	0.3	109	15.3	15.3	7.9	7.9	33.9	33.9	98.8	98.8	8.0	8.0	10.3	11.4	9	12	-	-	817184	807806	-	-	-	-
						1.0	0.3	111	15.3		7.9		33.9		98.8		8.0		10.4		10		-				-		-	
					Middle	4.4	0.3	97	15.2	15.2	7.9	7.9	33.9	33.9	98.4	98.4	8.0		11.3		12		-				-		-	
						4.4	0.4	101	15.2		7.9		33.9		98.4		8.0		11.4		14		-				-		-	
					Bottom	7.7	0.3	94	15.2	15.2	7.9	7.9	34.0	34.0	98.4	98.4	8.0	8.0	12.5		13		-				-		-	
						7.7	0.3	98	15.2		7.9		34.0		98.4		8.0		12.5		12		-				-		-	
SR5A	Sunny	Moderate	16:18	4.1	Surface	1.0	0.2	136	15.9	16.0	7.9	7.9	34.1	34.1	103.1	103.1	8.3	8.3	8.4	8.4	10	10	-	-	816583	810692	-	-	-	-
						1.0	0.2	148	16.0		7.9		34.1		103.1		8.3		8.4		11		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.2	144	15.9	15.9	7.9	7.9	34.1	34.1	101.3	101.3	8.1	8.1	8.3		9		-				-		-	
						3.1	0.2	150	15.9		7.9		34.1		101.2		8.1		8.3		10		-				-		-	
SR6	Sunny	Moderate	16:41	4.0	Surface	1.0	0.1	218	17.0	17.0	7.9	7.9	33.3	33.3	100.5	100.5	7.9	7.9	7.5	9.8	5	9	-	-	817886	814666	-	-	-	-
						1.0	0.2	233	17.0		7.9		33.3		100.4		7.9		7.6		6		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	133	14.8	14.8	7.9	7.9	34.2	34.2	97.8	97.9	8.0	8.0	12.0		13		-				-		-	
						3.0	0.2	133	14.8		7.9		34.2		97.9		8.0		12.0		11		-				-		-	
SR7	Sunny	Moderate	17:32	16.2	Surface	1.0	0.4	55	18.2	18.2	7.9	7.9	29.5	29.5	96.1	96.1	7.6	7.6	3.7	3.9	4	5	-	-	823627	823724	-	-	-	-
						1.0	0.4	55	18.2		7.9		29.5		96.1		7.6		3.7		4		-				-		-	
					Middle	8.1	0.5	39	18.0	18.0	7.9	7.9	29.6	29.6	95.3	95.3	7.6		4.1		5		-				-		-	
						8.1	0.5	42	18.0		7.9		29.6		95.3		7.6		4.1		5		-				-		-	
					Bottom	15.2	0.4	89	18.1	18.1	7.9	7.9	29.6	29.6	95.1	95.1	7.5	7.5	3.8		4		-				-		-	
						15.2	0.4	96	18.1		7.9		29.6		95.1		7.5		3.8		5		-				-		-	
SR8	Sunny	Moderate	15:54	5.3	Surface	1.0	0.4	91.0	18.2	18.2	7.9	7.9	28.7	28.7	98.5	98.5	7.8	7.8	7.9	7.9	7	8	-	-	820412	811584	-	-	-	-
						1.0	0.4	94.0	18.2		7.9		28.7		98.5		7.8		7.9		9		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.3	92.0	18.0	18.0	7.9	7.9	28.8	28.8	98.1	98.2	7.8	7.8	7.9		7		-				-		-	
						4.3	0.3	97.0	18.0		7.9		28.7		98.2		7.8		7.8		8		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 18 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Moderate	11:30	8.6	Surface	1.0	0.6	115	15.3	15.3	8.2	8.2	32.4	32.4	99.6	99.6	8.2	8.2	4.9	11.1	8	11	83	84	815626	804257	<0.2	<0.2	1.2	1.1
						1.0	0.6	121	15.3		8.2		32.4		99.6		8.2		4.9		6		83				<0.2		1.3	
					Middle	4.3	0.6	78	14.9	14.9	8.3	8.3	33.4	33.5	98.1	98.1	8.1		9.2		9		84				<0.2		1.5	
						4.3	0.7	84	14.8		8.3		33.5		98.0		8.1		9.4		8		84				<0.2		1.4	
					Bottom	7.6	0.5	80	14.3	14.3	8.3	8.3	34.7	34.7	97.2	97.2	8.0	8.0	19.2		18		84				<0.2		0.7	
						7.6	0.5	80	14.3		8.3		34.7		97.2		8.0		19.1		19		85				<0.2		0.7	
C2	Fine	Moderate	12:05	12.4	Surface	1.0	0.4	199	18.8	18.8	7.9	7.9	25.5	25.5	99.6	99.6	8.0	7.9	3.0	7.3	4	4	80	81	825676	806944	<0.2	<0.2	3.0	2.3
						1.0	0.5	207	18.8		7.9		25.5		99.6		8.0		3.0		4		76				<0.2		3.0	
					Middle	6.2	0.5	302	18.6	18.6	7.9	7.9	27.3	27.3	97.7	97.7	7.8		3.5		3		83				<0.2		2.2	
						6.2	0.5	302	18.6		7.9		27.3		97.7		7.8		3.6		4		81				<0.2		2.2	
					Bottom	11.4	0.4	198	18.4	18.4	7.9	7.9	27.8	27.8	96.5	96.5	7.7	7.7	15.4		4		84				<0.2		1.8	
						11.4	0.4	200	18.4		7.9		27.8		96.5		7.7		15.4		2		83				<0.2		1.8	
C3	Fine	Moderate	10:27	11.5	Surface	1.0	0.5	221	18.8	18.8	7.9	7.9	27.6	27.6	98.6	98.6	7.8	7.8	2.8	3.3	4	4	79	82	822095	817807	<0.2	<0.2	1.6	1.6
						1.0	0.5	238	18.8		7.9		27.6		98.5		7.8		2.8		3		80				<0.2		1.6	
					Middle	5.8	0.4	228	18.5	18.5	7.9	7.9	28.1	28.1	96.9	96.9	7.7		3.5		2		83				<0.2		1.7	
						5.8	0.5	246	18.5		7.9		28.1		96.8		7.7		3.5		3		82				<0.2		1.6	
					Bottom	10.5	0.5	238	18.3	18.3	7.8	7.8	28.7	28.7	97.0	97.1	7.7	7.7	3.6		4		85				<0.2		1.4	
						10.5	0.5	251	18.3		7.8		28.7		97.1		7.7		3.7		5		85				<0.2		1.6	
IM1	Sunny	Moderate	11:48	7.7	Surface	1.0	0.6	134	16.2	16.2	8.1	8.1	31.2	31.2	101.6	101.6	8.3	8.3	1.8	6.4	2	6	80	81	818356	806475	<0.2	<0.2	1.8	1.6
						1.0	0.6	139	16.2		8.1		31.2		101.6		8.3		1.8		2		80				<0.2		1.8	
					Middle	3.9	0.6	187	15.8	15.8	8.2	8.2	31.9	31.9	100.7	100.7	8.2		2.9		<2		81				<0.2		1.7	
						3.9	0.6	187	15.8		8.2		31.9		100.6		8.2		3.0		3		81				<0.2		1.8	
					Bottom	6.7	0.5	201	15.2	15.2	8.3	8.3	33.2	33.2	99.0	99.0	8.1	8.1	14.3		12		82				<0.2		1.0	
						6.7	0.6	214	15.2		8.3		33.2		99.0		8.1		14.4		13		82				<0.2		1.7	
IM2	Sunny	Moderate	11:54	8.7	Surface	1.0	0.7	127	15.9	15.9	7.9	7.9	31.5	31.6	100.0	100.0	8.2	8.1	2.4	4.2	<2	3	81	81	818845	806204	<0.2	<0.2	1.7	1.9
						1.0	0.7	136	15.9		7.9		31.6		99.9		8.1		2.4		<2		80				<0.2		1.7	
					Middle	4.4	0.6	112	15.6	15.6	7.9	7.9	32.5	32.5	98.9	98.9	8.1		3.9		<2		81				<0.2		2.3	
						4.4	0.6	118	15.6		7.9		32.5		98.9		8.1		3.9		<2		82				<0.2		2.2	
					Bottom	7.7	0.5	177	15.4	15.4	7.9	7.9	33.1	33.1	98.6	98.6	8.0	8.0	6.2		6		82				<0.2		1.6	
						7.7	0.6	182	15.4		7.9		33.1		98.6		8.0		6.4		6		82				<0.2		1.6	
IM3	Sunny	Moderate	12:01	8.5	Surface	1.0	0.4	128	16.1	16.1	7.9	7.9	30.8	30.8	100.5	100.5	8.2	8.2	1.8	3.7	<2	4	79	81	819407	806025	<0.2	<0.2	2.5	1.9
						1.0	0.4	135	16.1		7.9		30.7		100.5		8.2		1.7		<2		80				<0.2		2.3	
					Middle	4.3	0.4	152	15.8	15.8	7.9	7.9	31.6	31.6	99.1	99.1	8.1		2.8		4		81				<0.2		2.1	
						4.3	0.4	165	15.8		7.9		31.6		99.0		8.1		2.9		2		81				<0.2		1.9	
					Bottom	7.5	0.4	133	15.4	15.4	7.9	7.9	33.1	33.1	97.9	98.0	8.0	8.0	6.8		7		81				<0.2		1.3	
						7.5	0.4	139	15.4		7.9		33.1		98.0		8.0		6.2		9		81				<0.2		1.2	
IM4	Sunny	Moderate	12:10	8.2	Surface	1.0	0.5	141	16.2	16.2	7.8	7.8	28.4	28.4	101.4	101.4	8.4	8.3	1.5	4.8	<2	7	83	83	819579	805026	<0.2	<0.2	2.6	1.8
						1.0	0.5	149	16.2		7.8		28.3		101.4		8.4		1.6		<2		83				<0.2		2.7	
					Middle	4.1	0.5	106	15.8	15.8	7.9	7.9	31.3	31.3	99.5	99.5	8.2		3.5		4		83				<0.2		1.7	
						4.1	0.5	113	15.8		7.9		31.3		99.4		8.1		3.6		6		83				<0.2		1.8	
					Bottom	7.2	0.4	117	15.2	15.2	7.9	7.9	33.3	33.3	97.8	97.9	8.0	8.0	9.3		14		84				<0.2		1.0	
						7.2	0.5	117	15.2		7.9		33.3		97.9		8.0		9.2		16		84				<0.2		1.1	
IM5	Sunny	Moderate	12:17	6.9	Surface	1.0	0.6	119	16.0	16.0	7.9	7.9	29.5	29.5	100.2	100.2	8.3	8.2	2.1	5.5	2	6	80	81	820547	804936	<0.2	<0.2	2.4	1.6
						1.0	0.6	119	16.0		7.9		29.5		100.1		8.3		2.2		2		80				<0.2		2.3	
					Middle	3.5	0.5	113	15.7	15.7	7.8	7.8	31.5	31.5	98.8	98.8	8.1		3.3		4		81				<0.2		1.4	
						3.5	0.6	122	15.7		7.8		31.5		98.8		8.1		3.4		3		81				<0.2		1.6	
					Bottom	5.9	0.5	117	15.2	15.2	7.9	7.9	33.3	33.3	97.2	97.2	8.0	8.0	11.2		14		81				<0.2		1.1	
						5.9	0.5	126	15.2		7.9		33.3		97.2		8.0		11.0		12		81				<0.2		0.9	
IM6	Sunny	Moderate	12:26	7.1	Surface	1.0	0.5	125	16.5	16.6	7.8	7.8	30.2	30.2	100.3	100.3	8.2	8.1	1.9	6.4	<2	5	83	84	821058	805810	<0.2	<0.2	2.1	1.4
						1.0	0.6	125	16.6		7.8		30.2		100.3		8.1		1.9		<2		83				<0.2		2.0	
					Middle	3.6	0.5	76	15.5	15.5	7.9	7.9	32.5	32.5	97.4	97.4	8.0		5.6		2		84				<0.2		1.4	
						3.6	0.5	79	15.5		7.9		32.5		97.4		8.0		5.8		4		84				<0.2		1.4	
					Bottom	6.1	0.4	107	15.3	15.3	7.9	7.9	33.2	33.2	97.8	97.8	8.0	8.0	11.5		10		85				<0.2		0.8	
						6.1	0.5	109	15.3		7.9		33.2		97.8		8.0		11.5		10		85				<0.2		0.9	
IM7	Sunny	Moderate	12:34	7.6	Surface	1.0	0.5	130	16.1	16.1	7.9	7.9	29.5	29.5	99.4	99.4	8.2	8.1	2.9	5.7	<2	6	83	84	821335	806842	<0.2	<0.2	2.2	1.6
						1.0	0.5	136	16.1		7.9		29.5		99.3		8.2		2.9		<2		83				<0.2		2.1	
					Middle	3.8	0.5	88	15.5	15.5	7.9	7.9	32.7	32.7	97.5	97.5	8.0		6.3		5		84				<0.2		1.3	
						3.8	0.5	92	15.5		7.9		32.7		97.5		8.0		6.4		6		84				<0.2		1.4	
					Bottom	6.6	0.4	82	15.4	15.4	7.9	7.9	32.9	32.9	97.6	97.7	8.0	8.0	8.1		11		85				<0.2		1.2	
						6.6	0.4	86	15.4		7.9		32.9		97.8		8.0		7.7		10		85				<0.2		1.1	
IM8	Fine	Moderate	11:40	8.4	Surface	1.0	0.3	221	19.0	19.0	7.9	7.9	24.4	24.4	101.9	101.9	8.2	8.2	3.5	3.9	4	3	77	82	821678	807819	<0.2	<0.2	2.8	2.5
						1.0	0.3	222	19.0		7.9		24.4		101.9		8.2		3.5		3		80				<0.2		2.5	
					Middle	4.2	0.3	233	18.8	18.8	7.9	7.9	25.0	25.0	101.2	101.2	8.1		3.7		4		83				<0.2		2.4	
						4.2	0.3	237	18.8		7.9		25.0		101.2		8.1		3.7		3		82				<0.2		2.4	
					Bottom	7.4	0.3	189	18.8	18.8	7.9	7.9	25.5	25.5	100.5	100.5	8.1	8.1	4.5		3		84				<0.2		2.3	
						7.4	0.4	193	18.8		7.9		25.5		100.5		8.1		4.5		3		84				<0.2		2.4	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 18 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Fine	Moderate	11:32	7.3	Surface	1.0	0.3	194	19.5	19.5	7.9	7.9	23.4	23.4	102.1	102.1	8.2	8.1	3.7	5.1	3	3	77	81	822074	808820	<0.2	<0.2	2.8	2.4
						1.0	0.4	208	19.5		7.9		23.4		102.1		8.2		3.7		3		79				<0.2		2.6	
					Middle	3.7	0.3	210	18.9	18.9	7.9	7.9	25.3	25.3	100.3	100.3	8.0		4.9		4		81				<0.2		2.4	
						3.7	0.4	218	18.9		7.9		25.3		100.3		8.0		4.9		2		82				<0.2		2.4	
					Bottom	6.3	0.4	197	18.7	18.7	7.9	7.9	26.5	26.5	99.5	99.5	7.9	7.9	6.8		3		84				<0.2		2.0	
						6.3	0.4	199	18.7		7.9		26.5		99.5		7.9		6.8		2		84				<0.2		2.1	
IM10	Fine	Moderate	11:25	7.8	Surface	1.0	0.6	266	19.1	19.1	7.9	7.9	25.0	25.0	100.9	100.9	8.1	8.0	3.8	7.9	2	3	79	82	822251	809831	<0.2	<0.2	2.4	2.4
						1.0	0.6	288	19.1		7.9		25.0		100.9		8.1		3.9		3		80				<0.2		2.1	
					Middle	3.9	0.6	273	18.7	18.7	7.9	7.9	26.4	26.4	99.0	99.0	7.9		5.8		2		83				<0.2		2.4	
						3.9	0.6	273	18.7		7.9		26.4		99.0		7.9		5.9		4		82				<0.2		2.4	
					Bottom	6.8	0.5	261	18.6	18.6	7.9	7.9	27.6	27.6	97.5	97.5	7.7	7.7	13.9		2		85				<0.2		2.4	
						6.8	0.6	264	18.6		7.9		27.6		97.5		7.7		13.9		3		85				<0.2		2.6	
IM11	Fine	Moderate	11:17	8.3	Surface	1.0	0.6	259	19.0	19.0	7.9	7.9	26.0	26.0	100.3	100.3	8.0	8.0	4.3	7.6	2	3	78	82	821482	810542	<0.2	<0.2	2.1	1.7
						1.0	0.7	283	19.0		7.9		26.0		100.2		8.0		4.3		2		79				<0.2		2.2	
					Middle	4.2	0.7	272	18.8	18.8	7.9	7.9	26.4	26.4	98.7	98.7	7.9		6.8		2		81				<0.2		1.4	
						4.2	0.8	283	18.8		7.9		26.4		98.7		7.9		7.0		3		83				<0.2		1.5	
					Bottom	7.3	0.6	253	18.6	18.6	7.9	7.9	27.8	27.8	97.9	97.9	7.8	7.8	11.6		2		84				<0.2		1.4	
						7.3	0.7	260	18.6		7.9		27.8		97.9		7.8		11.6		4		84				<0.2		1.6	
IM12	Fine	Moderate	11:10	8.1	Surface	1.0	0.8	260	18.7	18.7	7.9	7.9	26.8	26.8	99.1	99.1	7.9	7.9	4.9	10.1	3	13	79	82	821166	811503	<0.2	<0.2	2.3	1.7
						1.0	0.9	267	18.7		7.9		26.8		99.1		7.9		4.9		3		79				<0.2		2.0	
					Middle	4.1	0.9	267	18.6	18.6	7.9	7.9	27.4	27.4	97.9	97.9	7.8		9.2		18		82				<0.2		1.4	
						4.1	0.9	275	18.6		7.9		27.4		97.9		7.8		9.4		19		83				<0.2		1.3	
					Bottom	7.1	0.7	258	18.5	18.5	7.9	7.9	28.1	28.1	97.9	98.0	7.8	7.8	16.1		18		84				<0.2		1.6	
						7.1	0.7	266	18.5		7.9		28.1		98.0		7.8		16.0		19		85				<0.2		1.6	
SR2	Fine	Moderate	10:49	4.6	Surface	1.0	0.2	187	18.5	18.5	7.9	7.9	27.9	27.9	96.4	96.5	7.7	7.7	4.9	5.5	3	4	78	81	821471	814185	<0.2	<0.2	1.6	1.5
						1.0	0.2	204	18.5		7.9		27.9		96.5		7.7		5.0		4		79				<0.2		1.7	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	174	18.5	18.5	7.8	7.8	28.2	28.2	96.5	96.5	7.7	7.7	6.0		4		84				<0.2		1.4	
						3.6	0.2	176	18.5		7.8		28.2		96.5		7.7		6.1		5		84				<0.2		1.2	
SR3	Fine	Moderate	11:45	9.2	Surface	1.0	0.3	199	19.0	19.0	7.9	7.9	23.3	23.3	101.1	101.1	8.2	8.1	4.3	4.7	<2	3	-	-	822162	807551	-	-	-	-
						1.0	0.4	211	19.0		7.9		23.3		101.1		8.2		4.3		<2		-				-		-	
					Middle	4.6	0.4	226	18.8	18.8	7.9	7.9	25.3	25.3	100.3	100.3	8.0		5.1		3		-				-		-	
						4.6	0.4	242	18.8		7.9		25.3		100.3		8.0		5.1		3		-				-		-	
					Bottom	8.2	0.4	124	18.7	18.7	7.9	7.9	26.0	26.0	99.8	99.8	8.0	8.0	4.7		3		-				-		-	
						8.2	0.4	128	18.7		7.9		26.0		99.8		8.0		4.7		4		-				-		-	
SR4A	Sunny	Moderate	11:08	7.3	Surface	1.0	0.4	236	15.9	15.9	8.2	8.2	32.5	32.5	99.6	99.6	8.1	8.1	6.3	7.0	7	8	-	-	817182	807810	-	-	-	-
						1.0	0.4	252	15.9		8.2		32.5		99.6		8.1		6.4		7		-				-		-	
					Middle	3.7	0.4	231	15.8	15.8	8.2	8.2	32.5	32.5	99.1	99.1	8.0		6.8		6		-				-		-	
						3.7	0.4	250	15.8		8.2		32.5		99.1		8.0		6.8		6		-				-		-	
					Bottom	6.3	0.3	216	15.7	15.7	8.2	8.2	32.8	32.8	98.9	99.0	8.0	8.0	7.9		11		-				-		-	
						6.3	0.4	222	15.7		8.2		32.8		99.0		8.0		7.8		9		-				-		-	
SR5A	Sunny	Calm	10:48	4.2	Surface	1.0	0.2	284	15.7	15.7	8.2	8.2	33.3	33.3	98.9	98.9	8.0	8.0	5.1	5.9	5	7	-	-	816576	810700	-	-	-	-
						1.0	0.2	297	15.7		8.2		33.3		98.9		8.0		5.1		7		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	296	15.6	15.6	8.2	8.2	33.5	33.5	99.3	99.3	8.1	8.1	6.8		9		-				-		-	
						3.2	0.2	309	15.6		8.2		33.5		99.3		8.1		6.7		7		-				-		-	
SR6	Sunny	Calm	10:26	3.8	Surface	1.0	0.3	253	15.6	15.6	8.0	8.0	31.3	31.3	99.5	99.5	8.2	8.2	5.3	8.1	7	13	-	-	817889	814681	-	-	-	-
						1.0	0.3	253	15.6		8.0		31.3		99.4		8.2		5.4		7		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.2	240	15.6	15.6	7.9	7.9	32.2	32.2	99.7	99.8	8.2	8.2	11.0		18		-				-		-	
						2.8	0.2	256	15.6		7.9		32.2		99.8		8.2		10.8		18		-				-		-	
SR7	Fine	Calm	09:55	17.3	Surface	1.0	0.2	183	18.4	18.4	7.9	7.9	28.2	28.2	98.4	98.4	7.8	7.8	2.1	2.5	<2	5	-	-	823641	823727	-	-	-	-
						1.0	0.2	191	18.4		7.9		28.2		98.4		7.8		2.1		<2		-				-		-	
					Middle	8.7	0.2	211	18.3	18.3	7.9	7.9	28.6	28.6	97.8	97.8	7.8		2.6		6		-				-		-	
						8.7	0.2	216	18.3		7.9		28.6		97.8		7.8		2.5		6		-				-		-	
					Bottom	16.3	0.2	168	18.2	18.2	7.9	7.9	29.0	29.0	99.2	99.3	7.9	7.9	2.8		6		-				-		-	
						16.3	0.2	169	18.2		7.9		29.0		99.3		7.9		2.8		7		-				-		-	
SR8	Fine	Moderate	11:04	4.8	Surface	1.0	0.2	250	19.2	19.2	7.9	7.9	25.6	25.6	99.8	99.8	7.9	7.9	6.8	9.2	4	9	-	-	820436	811578	-	-	-	-
						1.0	0.2	268	19.2		7.9		25.6		99.8		7.9		6.9		6		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.3	268	18.7	18.7	7.8	7.8	26.9	26.9	98.2	98.2	7.8	7.8	11.6		13		-				-		-	
						3.8	0.3	268	18.7		7.8		26.9		98.2		7.8		11.6		11		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 18 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Moderate	17:34	9.1	Surface	1.0	0.4	134	15.8	15.8	7.9	7.9	32.6	32.6	101.6	101.6	8.3	8.2	2.9	4.6	8	8	83	84	815638	804243	<0.2	<0.2	1.0	0.8
						1.0	0.4	141	15.8		7.9		32.6		101.6		8.3		3.0		7		84				<0.2		1.2	
					Middle	4.6	0.3	122	15.2	15.2	7.9	7.9	33.6	33.6	99.0	99.0	8.1		4.5		7		84				<0.2		0.7	
						4.6	0.4	124	15.2		7.9		33.6		99.0		8.1		4.6		8		84				<0.2		0.8	
					Bottom	8.1	0.3	145	14.7	14.7	7.9	7.9	34.4	34.4	97.4	97.4	8.0	8.0	6.1		9		85				<0.2		0.4	
						8.1	0.3	158	14.7		7.9		34.4		97.4		8.0		6.2		9		85				<0.2		0.4	
C2	Fine	Moderate	16:30	12.5	Surface	1.0	0.3	173	19.0	19.0	7.9	7.9	25.0	25.0	102.1	102.1	8.2	8.1	3.6	5.3	3	2	76	81	825669	806952	<0.2	<0.2	2.3	2.2
						1.0	0.3	184	19.0		7.9		25.0		102.0		8.2		3.6		2		77				<0.2		2.4	
					Middle	6.3	0.3	180	18.7	18.7	7.9	7.9	26.6	26.6	99.5	99.5	7.9		5.6		2		81				<0.2		2.1	
						6.3	0.3	183	18.7		7.9		26.6		99.4		7.9		5.7		3		82				<0.2		2.1	
					Bottom	11.5	0.3	247	18.5	18.5	7.9	7.9	27.3	27.3	100.1	100.1	8.0	8.0	6.7		2		84				<0.2		2.1	
						11.5	0.3	252	18.5		7.9		27.3		100.1		8.0		6.7		2		85				<0.2		2.2	
C3	Fine	Moderate	18:11	12.3	Surface	1.0	0.4	64	19.0	19.0	7.9	7.9	28.0	28.0	98.6	98.6	7.7	7.6	2.2	2.5	3	3	79	82	822127	817807	<0.2	<0.2	1.4	1.4
						1.0	0.4	70	19.0		7.9		28.0		98.6		7.7		2.2		4		80				<0.2		1.5	
					Middle	6.2	0.3	100	18.4	18.4	7.9	7.9	29.0	29.0	95.2	95.2	7.5		2.5		2		81				<0.2		1.2	
						6.2	0.3	103	18.4		7.9		29.0		95.2		7.5		2.5		3		80				<0.2		1.4	
					Bottom	11.3	0.2	128	18.0	18.0	7.9	7.9	29.6	29.6	94.9	94.9	7.5	7.5	2.8		3		84				<0.2		1.4	
						11.3	0.2	128	18.0		7.9		29.6		94.9		7.5		2.8		3		85				<0.2		1.2	
IM1	Sunny	Moderate	17:12	7.8	Surface	1.0	0.3	183	16.5	16.5	7.9	7.9	31.2	31.2	102.7	102.7	8.3	8.2	3.0	5.8	4	5	79	80	818355	806467	<0.2	<0.2	1.4	1.8
						1.0	0.3	196	16.5		7.9		31.2		102.7		8.3		3.0		4		80				<0.2		1.4	
					Middle	3.9	0.3	147	15.8	15.8	7.9	7.9	32.3	32.3	99.9	99.9	8.1		4.7		6		80				<0.2		1.6	
						3.9	0.3	160	15.8		7.9		32.3		99.8		8.1		4.8		5		81				<0.2		1.8	
					Bottom	6.8	0.3	156	15.2	15.2	7.9	7.9	33.5	33.5	97.3	97.3	7.9	7.9	9.5		5		81				<0.2		2.3	
						6.8	0.4	165	15.2		7.9		33.5		97.3		7.9		9.6		4		81				<0.2		2.2	
IM2	Sunny	Moderate	17:06	8.7	Surface	1.0	0.3	190	16.6	16.6	7.9	7.9	30.8	30.8	104.5	104.5	8.4	8.4	1.6	2.8	6	4	81	82	818869	806184	<0.2	<0.2	2.2	1.9
						1.0	0.4	207	16.6		7.9		30.8		104.5		8.4		1.6		4		81				<0.2		2.5	
					Middle	4.4	0.4	155	16.2	16.2	7.9	7.9	31.6	31.6	101.9	101.9	8.3		2.5		4		82				<0.2		2.0	
						4.4	0.4	163	16.2		7.9		31.6		101.8		8.3		2.5		4		82				<0.2		1.8	
					Bottom	7.7	0.4	108	15.4	15.6	7.9	7.9	33.4	33.2	98.5	98.7	8.0	8.0	4.4		4		83				<0.2		1.4	
						7.7	0.4	116	15.7		7.9		33.0		98.9		8.0		4.3		4		83				<0.2		1.5	
IM3	Sunny	Moderate	16:58	8.7	Surface	1.0	0.3	180	16.8	16.9	7.9	7.9	29.4	29.4	104.6	104.6	8.5	8.4	1.3	5.2	5	5	80	81	819402	806037	<0.2	<0.2	2.1	1.4
						1.0	0.4	195	16.9		7.9		29.3		104.6		8.5		1.3		5		80				<0.2		2.3	
					Middle	4.4	0.4	107	16.1	16.1	7.9	7.9	31.6	31.6	101.0	101.0	8.2		3.9		4		81				<0.2		1.3	
						4.4	0.4	109	16.1		7.9		31.6		101.0		8.2		4.0		4		81				<0.2		1.4	
					Bottom	7.7	0.3	133	15.1	15.1	7.9	7.9	33.8	33.8	97.6	97.6	8.0	8.0	10.5		7		82				<0.2		0.6	
						7.7	0.4	146	15.1		7.9		33.8		97.6		8.0		10.4		7		82				<0.2		0.7	
IM4	Sunny	Moderate	16:50	8.4	Surface	1.0	0.3	129	16.9	16.9	7.9	7.9	28.6	28.6	102.2	102.2	8.3	8.2	3.0	8.3	4	9	81	82	819551	805045	<0.2	<0.2	2.2	1.8
						1.0	0.3	139	16.9		7.9		28.6		102.1		8.3		3.1		6		81				<0.2		2.2	
					Middle	4.2	0.3	139	15.2	15.2	7.9	7.9	33.4	33.4	98.2	98.2	8.0		7.1		5		82				<0.2		1.9	
						4.2	0.3	139	15.2		7.9		33.4		98.1		8.0		7.2		3		82				<0.2		1.7	
					Bottom	7.4	0.3	155	15.0	15.0	7.9	7.9	33.9	33.9	97.1	97.2	7.9	8.0	14.8		19		83				<0.2		1.2	
						7.4	0.3	164	15.0		7.9		33.9		97.2		8.0		14.6		19		83				<0.2		1.3	
IM5	Sunny	Moderate	16:42	7.2	Surface	1.0	0.4	165	16.0	16.0	7.9	7.9	31.0	31.0	99.9	99.9	8.2	8.1	7.1	12.5	7	16	79	81	820582	804932	<0.2	<0.2	2.0	1.3
						1.0	0.4	170	16.0		7.9		31.0		99.8		8.2		7.2		9		80				<0.2		2.3	
					Middle	3.6	0.4	157	15.2	15.2	7.9	7.9	33.4	33.4	96.7	96.7	7.9		15.7		20		81				<0.2		0.8	
						3.6	0.4	166	15.2		7.9		33.4		96.7		7.9		15.6		19		81				<0.2		0.8	
					Bottom	6.2	0.3	150	15.1	15.1	7.9	7.9	33.5	33.5	96.5	96.6	7.9	7.9	14.6		21		82				<0.2		0.8	
						6.2	0.4	151	15.1		7.9		33.5		96.6		7.9		14.5		20		81				<0.2		0.9	
IM6	Sunny	Moderate	16:34	7.3	Surface	1.0	0.4	160	16.0	16.0	7.9	7.9	31.0	31.0	100.0	100.0	8.2	8.1	5.9	11.4	9	15	83	83	821042	805821	<0.2	<0.2	1.6	1.2
						1.0	0.4	172	16.0		7.9		31.0		100.0		8.2		6.0		8		81				<0.2		1.5	
					Middle	3.7	0.4	150	15.4	15.4	7.9	7.9	32.9	32.9	97.2	97.2	7.9		13.6		17		83				<0.2		1.0	
						3.7	0.4	161	15.4		7.9		32.9		97.2		7.9		13.7		18		83				<0.2		0.9	
					Bottom	6.3	0.3	167	15.3	15.3	7.9	7.9	33.1	33.1	97.1	97.2	7.9	7.9	14.6		18		84				<0.2		1.1	
						6.3	0.3	181	15.3		7.9		33.1		97.2		7.9		14.6		17		84				<0.2		0.9	
IM7	Sunny	Moderate	16:25	8.7	Surface	1.0	0.5	122	16.7	16.7	7.9	7.9	29.4	29.4	102.2	102.2	8.3	8.2	1.8	4.5	3	7	82	83	821352	806846	<0.2	<0.2	2.1	1.8
						1.0	0.5	124	16.7		7.9		29.4		102.1		8.3		1.9		3		83				<0.2		2.2	
					Middle	4.4	0.6	109	15.5	15.5	8.0	8.0	32.4	32.4	98.1	98.1	8.0		5.5		7		83				<0.2		2.0	
						4.4	0.6	111	15.5		8.0		32.4		98.0		8.0		5.6		7		84				<0.2		1.8	
					Bottom	7.7	0.5	138	15.4	15.4	8.0	8.0	32.8	32.8	98.3	98.3	8.0	8.0	5.9		9		84				<0.2		1.2	
						7.7	0.5	146	15.4		8.0		32.8		98.3		8.0		6.0		10		84				<0.2		1.2	
IM8	Fine	Moderate	16:57	8.6	Surface	1.0	0.4	95	19.2	19.2	7.9	7.9	26.2	26.2	103.4	103.4	8.2	8.1	3.7	4.9	8	8	76	81	821713	807826	<0.2	<0.2	2.3	2.3
						1.0	0.4	104	19.2		7.9		26.2		103.3		8.2		3.8		6		77				<0.2		2.3	
					Middle	4.3	0.4	103	18.7	18.7	7.9	7.9	27.5	27.5	100.0	99.8	7.9		5.0		10		82				<0.2		2.2	
						4.3	0.4	112	18.7		7.9		27.5		99.6		7.9		5.1		9		81				<0.2		2.0	
					Bottom	7.6	0.4	118	18.5	18.5	7.9	7.9	28.1	28.1	97.8	97.8	7.8	7.8	5.9		8		83				<0.2		2.3	
						7.6	0.4	118	18.5		7.9		28.1		97.8		7.8		5.9		8		84				<0.2		2.6	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 18 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Fine	Moderate	17:06	7.4	Surface	1.0	0.6	106	19.2	19.2	7.9	7.9	26.3	26.3	102.7	102.7	8.1	8.0	3.8	4.8	3	6	77	82	822097	808818	<0.2	<0.2	2.3	2.3
						1.0	0.6	109	19.2		7.9		26.3		102.6		8.1		3.8		2		78				<0.2		2.2	
					Middle	3.7	0.6	121	19.1	19.1	7.9	7.9	26.4	26.4	100.1	100.0	7.9		4.6		6		83				<0.2		1.8	
						3.7	0.6	130	19.1		7.9		26.4		99.9		7.9		4.7		6		82				<0.2		2.8	
					Bottom	6.4	0.7	123	18.6	18.6	7.9	7.9	27.8	27.8	97.4	97.4	7.7	7.7	5.9		8		84				<0.2		2.3	
						6.4	0.7	128	18.6		7.9		27.8		97.4		7.7		5.9		10		85				<0.2		2.2	
IM10	Fine	Moderate	17:13	8.1	Surface	1.0	0.6	129	19.4	19.4	7.9	7.9	26.2	26.2	101.9	101.9	8.0	7.9	3.1	3.6	6	6	78	81	822222	809830	<0.2	<0.2	2.5	2.3
						1.0	0.6	135	19.4		7.9		26.2		101.9		8.0		3.1		6		78				<0.2		2.4	
					Middle	4.1	0.6	160	19.3	19.3	7.9	7.9	27.3	27.3	99.8	99.8	7.8		3.5		4		82				<0.2		2.3	
						4.1	0.6	166	19.3		7.9		27.3		99.8		7.8		3.5		4		80				<0.2		2.5	
					Bottom	7.1	0.5	156	18.8	18.8	7.9	7.9	27.8	27.8	97.5	97.5	7.7	7.7	4.1		7		83				<0.2		2.0	
						7.1	0.6	158	18.8		7.9		27.8		97.5		7.7		4.1		6		84				<0.2		2.1	
IM11	Fine	Moderate	17:22	7.9	Surface	1.0	0.4	130	19.1	19.1	7.9	7.9	27.3	27.3	100.9	100.9	8.0	7.9	3.6	3.9	4	7	80	82	821501	810547	<0.2	<0.2	2.3	2.0
						1.0	0.4	134	19.1		7.9		27.3		100.8		7.9		3.5		5		79				<0.2		2.3	
					Middle	4.0	0.3	143	18.9	18.9	7.9	7.9	27.7	27.7	99.5	99.5	7.8		3.9		6		82				<0.2		1.8	
						4.0	0.4	148	18.9		7.9		27.7		99.5		7.8		3.9		5		81				<0.2		1.9	
					Bottom	6.9	0.3	130	18.6	18.6	7.9	7.9	28.0	28.0	99.0	99.0	7.8	7.8	4.2		11		84				<0.2		1.9	
						6.9	0.4	135	18.6		7.9		28.0		99.0		7.8		4.2		10		84				<0.2		1.7	
IM12	Fine	Moderate	17:27	9.1	Surface	1.0	0.6	128	19.4	19.4	7.9	7.9	26.3	26.3	101.2	101.2	8.0	7.9	4.0	4.9	4	4	81	82	821151	811536	<0.2	<0.2	2.4	1.8
						1.0	0.6	139	19.4		7.9		26.3		101.2		8.0		4.0		3		79				<0.2		2.2	
					Middle	4.6	0.5	140	18.8	18.8	7.9	7.9	27.8	27.8	98.5	98.5	7.8		4.7		4		82				<0.2		1.6	
						4.6	0.5	150	18.8		7.9		27.8		98.5		7.8		4.7		6		81				<0.2		1.7	
					Bottom	8.1	0.5	127	18.5	18.5	7.9	7.9	28.1	28.1	98.3	98.3	7.8	7.8	6.1		4		83				<0.2		1.3	
						8.1	0.5	129	18.5		7.9		28.1		98.3		7.8		6.1		5		84				<0.2		1.3	
SR2	Fine	Moderate	17:50	4.7	Surface	1.0	0.4	121	19.0	19.0	7.9	7.9	27.7	27.7	99.2	99.2	7.8	7.8	5.7	6.8	6	6	79	81	821473	814169	<0.2	<0.2	1.6	1.6
						1.0	0.4	127	19.0		7.9		27.7		99.2		7.8		5.7		6		79				<0.2		1.8	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.4	106	18.6	18.6	7.9	7.9	28.2	28.2	97.8	97.8	7.7	7.7	7.8		5		83				<0.2		1.4	
						3.7	0.4	113	18.6		7.9		28.2		97.8		7.7		7.8		5		84				<0.2		1.4	
SR3	Fine	Moderate	16:52	9.0	Surface	1.0	0.4	125	19.4	19.4	7.9	7.9	25.7	25.7	103.7	103.6	8.2	8.1	3.9	4.5	4	6	-	-	822139	807587	-	-	-	-
						1.0	0.4	130	19.4		7.9		25.7		103.5		8.2		4.0		6		-				-		-	
					Middle	4.5	0.5	103	19.1	19.1	7.9	7.9	26.2	26.2	100.5	100.5	8.0		4.1		6		-				-		-	
						4.5	0.5	106	19.1		7.9		26.2		100.4		8.0		4.2		7		-				-		-	
					Bottom	8.0	0.4	119	18.5	18.5	7.9	7.9	28.2	28.2	97.7	97.7	7.7	7.7	5.3		7		-				-		-	
						8.0	0.4	128	18.5		7.9		28.2		97.6		7.7		5.3		6		-				-		-	
SR4A	Sunny	Calm	17:55	7.1	Surface	1.0	0.4	98	16.3	16.3	7.9	7.9	31.7	31.7	101.5	101.5	8.2	8.2	5.3	7.0	9	9	-	-	817188	807802	-	-	-	-
						1.0	0.4	107	16.3		7.9		31.7		101.4		8.2		5.3		8		-				-		-	
					Middle	3.6	0.4	99	16.3	16.3	7.9	7.9	31.7	31.8	100.0	100.0	8.1		6.6		7		-				-		-	
						3.6	0.4	99	16.3		7.9		31.8		99.9		8.1		6.7		8		-				-		-	
					Bottom	6.1	0.3	85	15.8	15.8	7.9	7.9	32.7	32.7	98.3	98.3	8.0	8.0	9.2		10		-				-		-	
						6.1	0.3	87	15.8		7.9		32.7		98.3		8.0		9.1		9		-				-		-	
SR5A	Sunny	Calm	18:11	5.1	Surface	1.0	0.1	120	16.5	16.5	7.9	7.9	32.7	32.7	100.4	100.4	8.0	8.0	7.8	7.5	10	9	-	-	816581	810713	-	-	-	-
						1.0	0.1	120	16.5		7.9		32.7		100.3		8.0		7.8		9		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	123	16.4	16.4	7.8	7.8	33.0	33.0	99.2	99.2	7.9	7.9	7.2		9		-				-		-	
						4.1	0.2	126	16.4		7.8		33.0		99.2		7.9		7.2		9		-				-		-	
SR6	Sunny	Calm	18:35	4.5	Surface	1.0	0.2	129	16.3	16.3	7.8	7.8	32.1	32.1	99.8	99.8	8.0	8.0	9.2	9.1	11	11	-	-	817883	814676	-	-	-	-
						1.0	0.2	131	16.3		7.8		32.1		99.7		8.0		9.1		11		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	110	16.1	16.1	7.8	7.8	33.0	33.0	98.6	98.6	7.9	7.9	9.0		10		-				-		-	
						3.5	0.2	118	16.1		7.8		33.0		98.6		7.9		9.1		11		-				-		-	
SR7	Fine	Moderate	18:41	17.3	Surface	1.0	0.3	97	18.2	18.2	7.9	7.9	29.6	29.6	95.4	95.4	7.5	7.5	2.6	2.7	4	6	-	-	823634	823727	-	-	-	-
						1.0	0.3	100	18.2		7.9		29.6		95.4		7.5		2.6		3		-				-		-	
					Middle	8.7	0.3	101	18.2	18.2	7.9	7.9	29.6	29.6	95.2	95.2	7.5		2.9		4		-				-		-	
						8.7	0.3	110	18.2		7.9		29.6		95.2		7.5		2.9		6		-				-		-	
					Bottom	16.3	0.2	116	18.1	18.1	7.9	7.9	29.6	29.6	95.8	95.8	7.6	7.6	2.7		9		-				-		-	
						16.3	0.3	121	18.1		7.9		29.6		95.8		7.6		2.7		8		-				-		-	
SR8	Fine	Moderate	17:35	5.0	Surface	1.0	0.7	180	19.0	19.0	7.9	7.9	27.6	27.6	98.5	98.5	7.8	7.8	7.0	7.5	8	9	-	-	820408	811598	-	-	-	-
						1.0	0.8	187	19.0		7.9		27.6		98.4		7.8		7.1		6		-				-		-	
					Middle	0.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						0.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.7	194	18.7	18.7	7.9	7.9	28.0	28.0	97.2	97.2	7.7	7.7	7.9		10		-				-		-	
						4.0	0.7	198	18.7		7.9		28.0		97.2		7.7		7.9		11		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 21 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Cloudy	Rough	13:51	8.8	Surface	1.0	0.7	160	15.8	15.8	7.8	7.8	32.3	32.3	103.9	103.9	8.5	8.4	3.2	4.9	5	4	83	84	815638	804244	<0.2	<0.2	1.1	0.9
						1.0	0.7	170	15.8		7.8		32.3		103.8		8.4		3.3		4		83				<0.2		0.9	
					Middle	4.4	0.7	126	15.4	15.4	7.8	7.8	32.9	33.0	102.2	102.2	8.3		4.6		4		84				<0.2		1.0	
						4.4	0.7	134	15.4		7.8		33.0		102.2		8.4		4.7		4		84				<0.2		1.0	
					Bottom	7.8	0.7	142	15.2	15.2	7.8	7.8	33.6	33.6	102.6	102.7	8.4	8.4	6.7		5		85				<0.2		0.6	
						7.8	0.7	151	15.2		7.8		33.6		102.7		8.4		6.7		4		85				<0.2		0.6	
C2	Cloudy	Rough	12:35	12.4	Surface	1.0	0.9	265	19.4	19.4	8.0	8.0	27.0	27.0	108.8	108.8	8.5	8.2	2.4	2.9	2	3	76	81	825685	806953	<0.2	<0.2	2.2	2.3
						1.0	1.0	269	19.4		8.0		27.0		108.8		8.5		2.4		3		77				<0.2		2.4	
					Middle	6.2	0.8	250	18.7	18.7	8.0	8.0	28.3	28.3	100.1	100.1	7.9		3.2		3		82				<0.2		2.4	
						6.2	0.8	263	18.7		8.0		28.3		100.1		7.9		3.2		3		81				<0.2		2.3	
					Bottom	11.4	0.8	229	18.5	18.5	7.9	7.9	28.7	28.7	102.8	102.8	8.1	8.1	3.1		2		84				<0.2		2.1	
						11.4	0.8	248	18.5		7.9		28.7		102.8		8.1		3.1		3		84				<0.2		2.1	
C3	Cloudy	Rough	14:54	11.4	Surface	1.0	0.7	248	18.4	18.4	8.0	8.0	29.6	29.6	97.9	97.9	7.7	7.6	2.1	2.3	4	5	79	82	822096	817788	<0.2	<0.2	0.8	0.7
						1.0	0.7	268	18.4		8.0		29.6		97.9		7.7		2.1		3		79				<0.2		0.8	
					Middle	5.7	0.6	252	18.1	18.1	8.0	8.0	29.9	29.9	94.8	94.8	7.5		2.4		4		83				<0.2		0.6	
						5.7	0.6	262	18.1		8.0		29.9		94.8		7.5		2.4		4		83				<0.2		0.7	
					Bottom	10.4	0.5	239	18.1	18.1	8.0	8.0	29.9	29.9	95.3	95.6	7.5	7.6	2.3		8		85				<0.2		0.8	
						10.4	0.5	254	18.1		7.9		29.9		95.8		7.6		2.4		7		84				<0.2		0.6	
IM1	Cloudy	Rough	13:31	7.8	Surface	1.0	0.6	224	15.6	15.6	7.8	7.8	32.8	32.8	103.2	103.2	8.4	8.4	2.5	2.7	4	6	80	81	818343	806447	<0.2	<0.2	0.9	1.0
						1.0	0.6	236	15.6		7.8		32.8		103.2		8.4		2.5		5		80				<0.2		1.0	
					Middle	3.9	0.5	211	15.6	15.6	7.8	7.8	32.8	32.8	102.7	102.7	8.4		2.6		6		81				<0.2		1.1	
						3.9	0.5	226	15.5		7.8		32.8		102.7		8.4		2.6		5		81				<0.2		1.0	
					Bottom	6.8	0.6	197	15.5	15.5	7.8	7.8	32.9	32.9	102.7	102.8	8.4	8.4	2.9		6		82				<0.2		0.9	
						6.8	0.6	213	15.5		7.8		32.9		102.8		8.4		2.9		7		82				<0.2		0.9	
IM2	Cloudy	Rough	13:25	8.4	Surface	1.0	0.5	205	15.6	15.6	7.8	7.8	32.5	32.5	101.9	101.9	8.3	8.3	1.2	1.4	5	5	80	82	818855	806198	<0.2	<0.2	1.2	1.2
						1.0	0.5	219	15.6		7.8		32.5		101.9		8.3		1.2		6		81				<0.2		1.1	
					Middle	4.2	0.5	210	15.6	15.6	7.8	7.8	32.5	32.5	101.7	101.7	8.3		1.5		5		82				<0.2		1.4	
						4.2	0.5	210	15.6		7.8		32.5		101.7		8.3		1.6		6		82				<0.2		1.3	
					Bottom	7.4	0.5	203	15.5	15.5	7.8	7.8	32.6	32.6	102.0	102.1	8.3	8.3	1.5		5		82				<0.2		1.1	
						7.4	0.5	211	15.5		7.8		32.6		102.1		8.3		1.5		5		82				<0.2		1.1	
IM3	Cloudy	Rough	13:14	8.5	Surface	1.0	0.8	224	15.8	15.8	7.8	7.8	32.2	32.2	102.8	102.8	8.4	8.4	0.9	1.1	6	5	81	82	819395	806038	<0.2	<0.2	1.3	1.3
						1.0	0.8	235	15.8		7.8		32.2		102.8		8.4		0.9		4		81				<0.2		1.4	
					Middle	4.3	0.8	239	15.8	15.8	7.8	7.8	32.2	32.2	102.5	102.5	8.3		1.0		4		82				<0.2		1.4	
						4.3	0.8	245	15.8		7.8		32.2		102.5		8.4		1.0		4		81				<0.2		1.4	
					Bottom	7.5	0.7	233	15.9	15.9	7.8	7.8	32.1	32.1	102.7	102.8	8.3	8.3	1.2		4		82				<0.2		1.1	
						7.5	0.8	245	15.9		7.8		32.1		102.8		8.3		1.3		5		82				<0.2		1.1	
IM4	Cloudy	Rough	13:04	8.1	Surface	1.0	0.8	239	15.7	15.7	7.8	7.8	32.1	32.1	103.4	103.4	8.4	8.4	1.1	1.1	4	6	81	82	819559	805038	<0.2	<0.2	1.2	1.2
						1.0	0.9	249	15.7		7.8		32.1		103.4		8.4		1.1		5		81				<0.2		1.2	
					Middle	4.1	0.8	238	15.7	15.7	7.8	7.8	32.1	32.1	103.0	103.0	8.4		1.1		6		82				<0.2		1.1	
						4.1	0.8	245	15.7		7.8		32.1		103.0		8.4		1.1		4		82				<0.2		1.2	
					Bottom	7.1	0.7	229	15.6	15.6	7.8	7.8	32.2	32.2	102.6	102.6	8.4	8.4	1.2		8		82				<0.2		1.3	
						7.1	0.7	231	15.6		7.8		32.2		102.5		8.4		1.1		10		83				<0.2		1.3	
IM5	Cloudy	Rough	12:53	6.8	Surface	1.0	0.9	261	15.9	15.9	7.8	7.8	31.3	31.3	104.7	104.7	8.6	8.6	0.8	1.0	4	5	80	81	820544	804932	<0.2	<0.2	1.5	1.7
						1.0	1.0	277	15.9		7.8		31.3		104.7		8.6		0.8		5		81				<0.2		1.5	
					Middle	3.4	0.8	256	15.8	15.8	7.8	7.8	31.4	31.4	103.7	103.7	8.5		1.1		4		81				<0.2		1.8	
						3.4	0.9	259	15.8		7.8		31.4		103.7		8.5		1.1		5		81				<0.2		1.7	
					Bottom	5.8	0.9	250	15.8	15.8	7.8	7.8	31.5	31.5	103.0	103.0	8.4	8.4	1.2		5		82				<0.2		1.7	
						5.8	0.9	269	15.8		7.8		31.4		103.0		8.4		1.2		5		82				<0.2		1.7	
IM6	Cloudy	Rough	12:46	6.5	Surface	1.0	0.8	217	15.9	15.9	7.8	7.8	31.2	31.2	102.9	102.9	8.4	8.4	1.5	1.8	3	4	83	84	821059	805839	<0.2	<0.2	1.6	1.6
						1.0	0.8	220	15.9		7.8		31.2		102.9		8.4		1.5		4		83				<0.2		1.7	
					Middle	3.3	0.8	226	15.9	15.9	7.8	7.8	31.2	31.2	102.7	102.7	8.4		1.7		3		83				<0.2		1.5	
						3.3	0.9	230	15.9		7.8		31.2		102.7		8.4		1.7		4		84				<0.2		1.5	
					Bottom	5.5	0.8	235	16.0	16.0	7.8	7.8	31.2	31.2	102.5	102.5	8.4	8.4	2.0		4		84				<0.2		1.6	
						5.5	0.8	247	16.0		7.8		31.2		102.5		8.4		2.1		4		84				<0.2		1.7	
IM7	Cloudy	Rough	12:37	8.1	Surface	1.0	1.0	216	15.9	15.9	7.8	7.8	31.3	31.3	102.1	102.2	8.3	8.3	1.2	1.6	4	4	82	84	821362	806823	<0.2	<0.2	1.4	1.5
						1.0	1.0	219	15.9		7.8		31.3		102.2		8.4		1.2		3		83				<0.2		1.6	
					Middle	4.1	0.9	237	15.8	15.8	7.8	7.8	31.3	31.3	101.4	101.4	8.3		1.7		3		84				<0.2		1.6	
						4.1	1.0	244	15.8		7.8		31.3		101.4		8.3		1.7		4		84				<0.2		1.6	
					Bottom	7.1	0.9	212	15.8	15.8	7.8	7.8	31.4	31.4	102.0	102.0	8.3	8.3	1.9		6		84				<0.2		1.5	
						7.1	0.9	232	15.8		7.8		31.4		102.0		8.3		1.8		5		85				<0.2		1.4	
IM8	Cloudy	Rough	13:06	8.7	Surface	1.0	0.7	250	18.7	18.7	8.0	8.0	28.5	28.5	102.2	102.2	8.1	8.1	4.4	5.0	3	5	77	81	821712	807822	<0.2	<0.2	1.3	1.3
						1.0	0.7	250	18.7		8.0		28.5		102.2		8.1		4.4		4		77				<0.2		1.2	
					Middle	4.4	0.6	243	18.6	18.6	8.0	8.0	28.5	28.5	101.2	101.2	8.0		5.3		5		81				<0.2		1.2	
						4.4	0.7	245	18.6		8.0		28.5		101.2		8.0		5.3		6		81				<0.2		1.3	
					Bottom	7.7	0.6	243	18.5	18.5	8.0	8.0	28.5	28.5	100.8	100.8	8.0	8.0	5.4		4		84				<0.2		1.3	
						7.7	0.6	254	18.5		8.0		28.5		100.8		8.0		5.4		5		84				<0.2		1.3	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 21 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Cloudy	Rough	13:17	7.6	Surface	1.0	0.7	253	18.7	18.7	8.0	8.0	28.6	28.6	102.7	102.7	8.1	8.1	3.9	4.4	5	5	77	81	822088	808806	<0.2	<0.2	1.2	1.3
						1.0	0.7	260	18.7		8.0		28.6		102.7		8.1		3.9		5		78				<0.2		1.3	
					Middle	3.8	0.7	255	18.7	18.7	8.0	8.0	28.6	28.6	102.1	102.1	8.0		4.8		4		82				<0.2		1.3	
						3.8	0.7	275	18.7		8.0		28.6		102.1		8.0		4.8		6		81				<0.2		1.5	
					Bottom	6.6	0.8	228	18.7	18.7	8.0	8.0	28.6	28.6	101.6	101.6	8.0	8.0	4.4		6		84				<0.2		1.2	
						6.6	0.8	234	18.7		8.0		28.6		101.6		8.0		4.4		5		84				<0.2		1.1	
IM10	Cloudy	Rough	13:29	7.5	Surface	1.0	0.9	262	18.7	18.7	8.0	8.0	28.7	28.7	102.3	102.3	8.1	8.1	3.4	4.3	4	5	78	81	822238	809826	<0.2	<0.2	1.1	1.1
						1.0	1.0	277	18.7		8.0		28.7		102.3		8.1		3.4		4		79				<0.2		1.2	
					Middle	3.8	0.9	256	18.6	18.6	8.0	8.0	28.7	28.7	101.4	101.4	8.0		4.1		6		82				<0.2		1.1	
						3.8	1.0	281	18.6		8.0		28.7		101.4		8.0		4.1		5		82				<0.2		1.2	
					Bottom	6.5	0.8	250	18.6	18.6	8.0	8.0	28.7	28.7	100.7	100.7	7.9	7.9	5.4		7		84				<0.2		1.0	
						6.5	0.8	250	18.6		8.0		28.7		100.7		7.9		5.4		6		83				<0.2		1.1	
IM11	Cloudy	Rough	13:42	7.9	Surface	1.0	0.7	260	18.7	18.7	8.0	8.0	28.7	28.7	100.4	100.4	7.9	7.9	4.2	5.3	2	4	80	82	821499	810550	<0.2	<0.2	1.0	1.0
						1.0	0.8	273	18.7		8.0		28.7		100.4		7.9		4.2		3		79				<0.2		1.0	
					Middle	4.0	0.6	259	18.6	18.6	8.0	8.0	28.8	28.8	99.7	99.7	7.9		5.1		5		82				<0.2		1.0	
						4.0	0.7	279	18.6		8.0		28.8		99.7		7.9		5.1		4		81				<0.2		1.0	
					Bottom	6.9	0.6	251	18.6	18.6	8.0	8.0	28.8	28.8	99.3	99.3	7.8	7.8	6.4		4		84				<0.2		1.0	
						6.9	0.6	267	18.6		8.0		28.8		99.3		7.8		6.6		4		84				<0.2		1.0	
IM12	Cloudy	Rough	13:56	7.9	Surface	1.0	0.6	260	18.7	18.7	7.9	7.9	28.7	28.7	98.3	98.3	7.7	7.7	4.4	5.0	6	6	78	81	821173	811504	<0.2	<0.2	1.2	1.1
						1.0	0.7	263	18.7		7.9		28.7		98.3		7.7		4.4		5		78				<0.2		1.1	
					Middle	4.0	0.6	267	18.6	18.6	7.9	7.9	28.7	28.7	97.1	97.1	7.7		5.0		6		82				<0.2		1.1	
						4.0	0.6	289	18.6		7.9		28.7		97.1		7.7		5.0		6		82				<0.2		1.1	
					Bottom	6.9	0.6	257	18.5	18.5	7.9	7.9	29.0	29.0	96.7	96.7	7.6	7.6	5.7		5		84				<0.2		1.0	
						6.9	0.6	276	18.5		7.9		29.0		96.7		7.6		5.7		7		84				<0.2		0.9	
SR2	Cloudy	Rough	14:26	4.6	Surface	1.0	0.3	144	18.5	18.5	8.0	8.0	29.2	29.2	100.4	100.3	7.9	7.9	4.4	4.5	6	6	79	82	821457	814164	<0.2	<0.2	0.9	0.9
						1.0	0.3	155	18.5		8.0		29.2		100.2		7.9		4.5		5		78				<0.2		0.8	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	148	18.5	18.5	7.9	7.9	29.2	29.2	100.0	100.0	7.9	7.9	4.5		7		85				<0.2		1.0	
						3.6	0.3	154	18.5		7.9		29.2		100.0		7.9		4.5		7		85				<0.2		1.0	
SR3	Cloudy	Rough	12:58	9.1	Surface	1.0	0.9	238	18.8	18.8	8.0	8.0	28.4	28.4	103.2	103.2	8.1	8.1	4.1	4.3	5	5	-	-	822136	807578	-	-	-	-
						1.0	0.9	250	18.8		8.0		28.4		103.2		8.1		4.1		5		-				-		-	
					Middle	4.6	0.9	248	18.8	18.8	8.0	8.0	28.4	28.4	102.7	102.7	8.1		4.3		5		-				-		-	
						4.6	1.0	266	18.8		8.0		28.4		102.7		8.1		4.3		5		-				-		-	
					Bottom	8.1	0.9	245	18.8	18.8	8.0	8.0	28.4	28.4	102.4	102.4	8.1	8.1	4.6		5		-				-		-	
						8.1	0.9	253	18.8		8.0		28.4		102.4		8.1		4.6		6		-				-		-	
SR4A	Cloudy	Moderate	14:14	8.9	Surface	1.0	0.4	238	16.5	16.5	7.8	7.8	32.0	32.0	101.9	101.9	8.2	8.2	5.5	6.6	10	11	-	-	817181	807828	-	-	-	-
						1.0	0.5	257	16.5		7.8		32.0		101.9		8.2		5.5		10		-				-		-	
					Middle	4.5	0.3	230	16.4	16.4	7.8	7.8	32.1	32.1	101.8	101.8	8.2		6.1		10		-				-		-	
						4.5	0.3	248	16.4		7.8		32.1		101.8		8.2		6.1		10		-				-		-	
					Bottom	7.9	0.3	233	16.2	16.2	7.8	7.8	32.2	32.2	102.4	102.4	8.3	8.3	8.1		12		-				-		-	
						7.9	0.4	244	16.2		7.8		32.2		102.4		8.3		8.2		12		-				-		-	
SR5A	Cloudy	Moderate	14:33	5.2	Surface	1.0	0.2	247	16.4	16.4	7.8	7.8	31.7	31.7	104.1	104.1	8.4	8.4	4.3	4.3	10	12	-	-	816602	810704	-	-	-	-
						1.0	0.2	259	16.4		7.8		31.7		104.1		8.4		4.3		10		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	234	16.4	16.4	7.8	7.8	31.7	31.7	104.2	104.3	8.4	8.4	4.3		12		-				-		-	
						4.2	0.2	242	16.4		7.8		31.7		104.3		8.4		4.4		14		-				-		-	
SR6	Cloudy	Moderate	14:58	4.8	Surface	1.0	0.3	222	16.1	16.1	7.8	7.8	31.8	31.8	102.0	102.0	8.3	8.3	19.5	19.4	28	28	-	-	817902	814652	-	-	-	-
						1.0	0.3	226	16.1		7.8		31.8		102.0		8.3		19.5		28		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	198	16.1	16.1	7.8	7.8	31.8	31.8	102.4	102.5	8.3	8.3	19.2		29		-				-		-	
						3.8	0.2	198	16.1		7.8		31.8		102.5		8.3		19.5		27		-				-		-	
SR7	Cloudy	Moderate	15:38	16.2	Surface	1.0	0.2	205	18.2	18.2	8.0	8.0	29.9	29.9	96.1	96.1	7.6	7.6	2.3	2.4	6	6	-	-	823625	823743	-	-	-	-
						1.0	0.2	224	18.2		8.0		29.9		96.1		7.6		2.3		4		-				-		-	
					Middle	8.1	0.2	116	18.1	18.1	8.0	8.0	30.0	30.0	95.6	95.6	7.6		2.5		5		-				-		-	
						8.1	0.2	124	18.1		8.0		30.0		95.6		7.6		2.5		5		-				-		-	
					Bottom	15.2	0.2	159	18.0	18.0	8.0	8.0	30.1	30.1	95.8	95.8	7.6	7.6	2.4		9		-				-		-	
						15.2	0.2	169	18.0		8.0		30.1		95.8		7.6		2.4		8		-				-		-	
SR8	Cloudy	Rough	14:06	5.5	Surface	1.0	0.3	229	18.8	18.8	7.9	7.9	28.8	28.8	97.7	97.7	7.7	7.7	5.9	5.9	10	11	-	-	820413	811612	-	-	-	-
						1.0	0.3	230	18.8		7.9		28.8		97.7		7.7		5.9		12		-				-		-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.3	219	18.6	18.6	7.9	7.9	28.8	28.8	97.7	97.7	7.7	7.7	5.9		11		-				-		-	
						4.5	0.3	230	18.6		7.9		28.8		97.7		7.7		5.9		12		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 21 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Cloudy	Moderate	10:18	8.6	Surface	1.0	0.5	191	15.7	15.7	7.9	7.9	30.4	30.4	104.5	104.5	8.6	8.6	2.3	3.4	5	6	83	84	815631	804240	<0.2	<0.2	1.4	1.3
						1.0	0.5	200	15.7		7.9		30.4		104.5		8.6		2.4		5		83				<0.2		1.3	
					Middle	4.3	0.5	185	15.7	15.7	7.9	7.9	30.5	30.5	103.4	103.4	8.5		2.7		6		84				<0.2		1.5	
						4.3	0.6	185	15.7		7.9		30.5		103.4		8.5		2.7		6		84				<0.2		1.4	
					Bottom	7.6	0.5	173	15.0	15.0	7.9	7.9	32.3	32.3	100.3	100.4	8.3	8.3	5.1		7		85				<0.2		0.9	
						7.6	0.6	173	15.0		7.9		32.3		100.4		8.3		5.0		7		85				<0.2		1.1	
C2	Cloudy	Moderate	11:41	11.4	Surface	1.0	0.5	259	19.2	19.2	8.0	8.0	27.2	27.2	105.4	105.4	8.3	8.1	2.4	2.9	5	5	77	81	825681	806945	<0.2	<0.2	2.1	2.2
						1.0	0.5	268	19.2		8.0		27.2		105.4		8.3		2.4		4		77				<0.2		2.1	
					Middle	5.7	0.4	256	18.7	18.7	8.0	8.0	28.0	28.0	98.4	98.4	7.8		2.8		4		81				<0.2		2.0	
						5.7	0.4	268	18.7		8.0		28.0		98.4		7.8		2.8		6		82				<0.2		2.2	
					Bottom	10.4	0.2	227	18.4	18.4	7.9	7.9	28.9	28.9	97.0	97.0	7.7	7.7	3.5		4		84				<0.2		2.3	
						10.4	0.2	245	18.4		7.9		28.9		97.0		7.7		3.5		4		84				<0.2		2.2	
C3	Cloudy	Moderate	09:35	13.0	Surface	1.0	0.3	244	18.4	18.4	7.9	7.9	29.5	29.5	96.7	96.7	7.6	7.6	2.1	2.1	3	4	80	82	822114	817803	<0.2	<0.2	1.0	1.0
						1.0	0.4	244	18.4		7.9		29.5		96.7		7.6		2.1		3		79				<0.2		1.1	
					Middle	6.5	0.2	218	18.3	18.3	7.9	7.9	29.5	29.5	96.0	96.0	7.6		2.0		4		82				<0.2		1.0	
						6.5	0.2	219	18.3		7.9		29.5		96.0		7.6		2.0		3		83				<0.2		1.1	
					Bottom	12.0	0.2	220	18.2	18.2	7.9	7.9	29.8	29.8	95.3	95.3	7.5	7.5	2.1		5		85				<0.2		0.9	
						12.0	0.2	234	18.2		7.9		29.8		95.3		7.5		2.1		3		84				<0.2		1.1	
IM1	Cloudy	Moderate	10:40	7.3	Surface	1.0	0.3	196	15.5	15.5	7.8	7.8	31.7	31.7	102.3	102.3	8.4	8.4	2.6	3.2	6	6	80	81	818349	806451	<0.2	<0.2	1.3	1.1
						1.0	0.3	202	15.5		7.8		31.7		102.2		8.4		2.7		6		80				<0.2		1.3	
					Middle	3.7	0.2	178	15.5	15.5	7.8	7.8	31.7	31.7	101.3	101.3	8.3		3.1		6		81				<0.2		1.0	
						3.7	0.3	194	15.5		7.8		31.7		101.2		8.3		3.1		4		81				<0.2		1.0	
					Bottom	6.3	0.3	166	15.2	15.2	7.8	7.8	32.2	32.2	100.7	100.7	8.3	8.3	3.8		7		81				<0.2		0.9	
						6.3	0.3	167	15.2		7.8		32.1		100.7		8.3		3.7		9		82				<0.2		0.8	
IM2	Cloudy	Moderate	10:47	8.3	Surface	1.0	0.3	208	15.5	15.5	7.8	7.8	31.7	31.7	103.2	103.2	8.5	8.5	1.9	2.4	4	6	81	82	818846	806190	<0.2	<0.2	1.0	1.1
						1.0	0.3	225	15.5		7.8		31.7		103.2		8.5		1.9		6		81				<0.2		1.1	
					Middle	4.2	0.3	192	15.5	15.5	7.8	7.8	31.7	31.7	102.2	102.2	8.4		2.3		8		82				<0.2		1.3	
						4.2	0.3	194	15.5		7.8		31.7		102.2		8.4		2.3		6		82				<0.2		1.1	
					Bottom	7.3	0.2	156	15.4	15.4	7.8	7.8	31.9	31.9	101.0	101.0	8.3	8.3	3.0		6		82				<0.2		1.0	
						7.3	0.2	160	15.4		7.8		31.9		101.0		8.3		2.9		6		82				<0.2		0.9	
IM3	Cloudy	Rough	10:55	8.1	Surface	1.0	0.8	217	15.6	15.6	7.8	7.8	31.5	31.5	102.9	102.9	8.4	8.4	1.3	1.6	5	6	82	83	819428	805999	<0.2	<0.2	1.2	1.1
						1.0	0.9	233	15.6		7.8		31.5		102.9		8.4		1.3		5		83				<0.2		1.1	
					Middle	4.1	0.7	218	15.6	15.6	7.9	7.9	31.5	31.5	102.5	102.5	8.4		1.3		5		83				<0.2		1.1	
						4.1	0.7	218	15.6		7.9		31.5		102.4		8.4		1.3		7		83				<0.2		1.1	
					Bottom	7.1	0.7	198	15.5	15.6	7.9	7.9	31.7	31.7	100.7	100.7	8.3	8.3	2.1		6		84				<0.2		1.0	
						7.1	0.7	206	15.6		7.9		31.7		100.7		8.3		2.1		6		84				<0.2		1.1	
IM4	Cloudy	Rough	11:05	7.7	Surface	1.0	0.9	228	15.7	15.7	7.9	7.9	31.5	31.5	104.3	104.3	8.6	8.6	1.4	1.5	5	5	80	81	819558	805033	<0.2	<0.2	1.1	1.0
						1.0	0.9	246	15.7		7.9		31.5		104.3		8.6		1.5		4		81				<0.2		1.0	
					Middle	3.9	0.8	226	15.6	15.6	7.9	7.9	31.5	31.5	104.0	104.0	8.5		1.5		6		81				<0.2		1.1	
						3.9	0.8	235	15.6		7.9		31.5		104.0		8.5		1.5		6		82				<0.2		1.0	
					Bottom	6.7	0.8	223	15.5	15.6	7.8	7.8	31.7	31.7	103.5	103.5	8.5	8.5	1.5		5		82				<0.2		0.9	
						6.7	0.9	224	15.6		7.8		31.7		103.5		8.5		1.5		5		82				<0.2		1.1	
IM5	Cloudy	Rough	11:13	6.8	Surface	1.0	0.7	235	15.7	15.7	7.8	7.8	31.2	31.2	104.0	104.0	8.5	8.5	0.8	1.0	4	4	79	80	820549	804924	<0.2	<0.2	1.5	1.4
						1.0	0.7	256	15.7		7.8		31.2		104.0		8.5		0.8		2		80				<0.2		1.3	
					Middle	3.4	0.7	238	15.7	15.7	7.8	7.8	31.2	31.2	102.9	102.9	8.4		1.1		3		80				<0.2		1.3	
						3.4	0.7	252	15.7		7.8		31.2		102.9		8.4		1.2		4		80				<0.2		1.4	
					Bottom	5.8	0.9	211	15.7	15.7	7.8	7.8	31.3	31.3	101.8	101.9	8.4	8.4	1.1		3		81				<0.2		1.3	
						5.8	1.0	229	15.7		7.8		31.3		101.9		8.4		1.1		5		81				<0.2		1.4	
IM6	Cloudy	Rough	11:28	6.2	Surface	1.0	0.7	243	15.9	15.9	7.8	7.8	30.7	30.7	104.7	104.7	8.6	8.6	1.1	1.5	4	5	82	83	821062	805829	<0.2	<0.2	1.5	1.5
						1.0	0.7	253	15.9		7.8		30.7		104.7		8.6		1.1		5		82				<0.2		1.4	
					Middle	3.1	0.6	237	15.9	15.9	7.8	7.8	30.7	30.7	103.5	103.5	8.5		1.2		5		83				<0.2		1.6	
						3.1	0.7	241	15.9		7.8		30.7		103.5		8.5		1.2		4		83				<0.2		1.4	
					Bottom	5.2	0.6	229	15.7	15.8	7.8	7.8	31.2	31.2	102.0	102.0	8.4	8.4	2.3		4		84				<0.2		1.4	
						5.2	0.6	241	15.8		7.8		31.1		102.0		8.4		2.1		6		84				<0.2		1.6	
IM7	Cloudy	Rough	11:40	8.0	Surface	1.0	0.9	229	15.9	15.9	7.8	7.8	31.0	31.0	102.1	102.1	8.4	8.4	0.7	1.4	4	4	83	84	821351	806839	<0.2	<0.2	1.3	1.4
						1.0	0.9	238	15.9		7.8		31.0		102.1		8.4		0.7		3		83				<0.2		1.3	
					Middle	4.0	0.7	224	15.9	15.9	7.8	7.8	31.1	31.1	101.4	101.4	8.3		1.2		4		83				<0.2		1.4	
						4.0	0.8	224	15.9		7.8		31.1		101.4		8.3		1.2		3		84				<0.2		1.4	
					Bottom	7.0	0.7	226	15.7	15.7	7.8	7.8	31.4	31.4	100.9	101.0	8.3	8.3	2.4		4		84				<0.2		1.4	
						7.0	0.7	227	15.7		7.8		31.4		101.0		8.3		2.3		4		85				<0.2		1.3	
IM8	Cloudy	Moderate	11:14	8.2	Surface	1.0	0.5	220	18.7	18.7	8.0	8.0	28.1	28.1	103.3	103.3	8.2	8.1	3.8	4.3	6	5	77	81	821691	807856	<0.2	<0.2	1.6	1.5
						1.0	0.6	224	18.7		8.0		28.1		103.3		8.2		3.8		4		77				<0.2		1.5	
					Middle	4.1	0.5	230	18.7	18.7	8.0	8.0	28.1	28.1	101.7	101.7	8.0		4.1		4		82				<0.2		1.4	
						4.1	0.6	248	18.7		8.0		28.1		101.6		8.0		4.1		5		82				<0.2		1.4	
					Bottom	7.2	0.6	183	18.4	18.4	8.0	8.0	28.3	28.3	100.4	100.4	8.0	8.0	4.9		4		84				<0.2		1.4	
						7.2	0.6	199	18.4		8.0		28.3		100.4		8.0		4.9		4		84				<0.2		1.5	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 21 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	11:06	7.5	Surface	1.0	0.4	227	18.6	18.6	8.0	8.0	28.3	28.3	100.8	100.8	8.0	8.0	4.3	4.3	4	4	78	81	822105	808814	<0.2	<0.2	1.3	1.3
						1.0	0.5	230	18.6		8.0		28.3		100.8		8.0		4.3		4		78				<0.2		1.2	
					Middle	3.8	0.4	201	18.6	18.6	8.0	8.0	28.4	28.4	100.4	100.4	7.9		4.1		5		81				<0.2		1.2	
						3.8	0.4	207	18.6		8.0		28.4		100.4		7.9		4.1		4		81				<0.2		1.3	
					Bottom	6.5	0.4	164	18.4	18.4	8.0	8.0	28.6	28.6	100.0	100.0	7.9	7.9	4.6		4		84				<0.2		1.2	
						6.5	0.5	169	18.4		8.0		28.6		100.0		7.9		4.6		3		83				<0.2		1.3	
IM10	Cloudy	Moderate	10:59	8.8	Surface	1.0	0.5	246	18.8	18.8	8.0	8.0	28.3	28.3	101.4	101.4	8.0	8.0	3.0	3.6	4	4	78	81	822220	809824	<0.2	<0.2	1.2	1.3
						1.0	0.5	262	18.8		8.0		28.3		101.4		8.0		3.0		5		78				<0.2		1.4	
					Middle	4.4	0.5	241	18.8	18.8	8.0	8.0	28.3	28.4	100.0	100.0	7.9		3.3		4		82				<0.2		1.4	
						4.4	0.5	261	18.8		8.0		28.4		100.0		7.9		3.3		3		82				<0.2		1.3	
					Bottom	7.8	0.4	194	18.6	18.6	7.9	7.9	28.7	28.7	98.3	98.3	7.8	7.8	4.5		3		84				<0.2		1.2	
						7.8	0.4	197	18.6		7.9		28.7		98.3		7.8		4.5		4		84				<0.2		1.2	
IM11	Cloudy	Moderate	10:46	8.1	Surface	1.0	0.5	235	18.7	18.7	8.0	8.0	28.4	28.4	99.6	99.6	7.9	7.9	3.2	3.3	5	4	77	81	821509	810530	<0.2	<0.2	1.3	1.3
						1.0	0.5	256	18.7		8.0		28.4		99.6		7.9		3.2		3		77				<0.2		1.2	
					Middle	4.1	0.4	211	18.7	18.7	7.9	7.9	28.4	28.4	98.8	98.8	7.8		3.3		4		82				<0.2		1.3	
						4.1	0.4	214	18.7		7.9		28.4		98.8		7.8		3.3		4		81				<0.2		1.2	
					Bottom	7.1	0.4	180	18.6	18.6	7.9	7.9	28.6	28.6	98.1	98.1	7.7	7.7	3.5		4		84				<0.2		1.2	
						7.1	0.5	187	18.6		7.9		28.6		98.1		7.7		3.5		2		84				<0.2		1.4	
IM12	Cloudy	Moderate	10:37	7.5	Surface	1.0	0.5	225	18.7	18.7	7.9	7.9	28.4	28.4	98.6	98.6	7.8	7.8	3.5	3.6	3	5	78	81	821142	811508	<0.2	<0.2	1.4	1.2
						1.0	0.6	243	18.7		7.9		28.4		98.6		7.8		3.5		3		77				<0.2		1.2	
					Middle	3.8	0.4	203	18.7	18.7	7.9	7.9	28.4	28.4	98.0	98.0	7.7		3.4		4		81				<0.2		1.2	
						3.8	0.4	212	18.7		7.9		28.4		98.0		7.7		3.4		5		82				<0.2		1.2	
					Bottom	6.5	0.5	176	18.7	18.7	7.9	7.9	28.5	28.5	96.4	96.4	7.6	7.6	3.8		7		84				<0.2		1.1	
						6.5	0.5	178	18.7		7.9		28.5		96.4		7.6		3.8		5		84				<0.2		1.1	
SR2	Cloudy	Moderate	09:57	4.5	Surface	1.0	0.2	198	18.5	18.5	7.9	7.9	28.8	28.8	95.8	95.8	7.6	7.6	3.9	3.9	4	4	80	83	821479	814146	<0.2	<0.2	1.4	1.3
						1.0	0.2	205	18.5		7.9		28.8		95.8		7.6		3.9		4		81				<0.2		1.5	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	191	18.5	18.5	7.9	7.9	28.9	28.9	96.2	96.2	7.6	7.6	3.9		4		84				<0.2		1.1	
						3.5	0.2	201	18.5		7.9		28.9		96.2		7.6		3.9		4		85				<0.2		1.1	
SR3	Cloudy	Moderate	11:20	9.0	Surface	1.0	0.6	195	18.8	18.8	8.0	8.0	27.9	27.9	102.6	102.6	8.1	8.1	3.6	3.8	4	4	-	-	822158	807582	-	-	-	-
						1.0	0.6	205	18.8		8.0		27.9		102.6		8.1		3.6		4		-				-		-	
					Middle	4.5	0.7	207	18.7	18.7	8.0	8.0	27.9	28.0	101.4	101.4	8.0		3.8		4		-				-		-	
						4.5	0.7	212	18.7		8.0		28.0		101.4		8.0		3.8		4		-				-		-	
					Bottom	8.0	0.6	197	18.6	18.6	8.0	8.0	28.2	28.2	101.4	101.4	8.0	8.0	3.9		3		-				-		-	
						8.0	0.6	201	18.6		8.0		28.2		101.4		8.0		3.9		4		-				-		-	
SR4A	Cloudy	Moderate	09:58	8.2	Surface	1.0	0.3	203	15.9	15.9	8.0	8.0	30.6	30.6	99.0	99.0	8.1	8.1	5.7	6.1	6	9	-	-	817178	807822	-	-	-	-
						1.0	0.3	215	15.9		8.0		30.6		99.0		8.1		5.7		7		-				-		-	
					Middle	4.1	0.3	201	15.9	15.9	8.0	8.0	30.6	30.6	99.4	99.4	8.1		6.1		7		-				-		-	
						4.1	0.3	202	15.9		8.0		30.6		99.4		8.1		6.1		6		-				-		-	
					Bottom	7.2	0.3	205	15.9	15.9	8.0	8.0	30.6	30.6	100.2	100.2	8.2	8.2	6.4		12		-				-		-	
						7.2	0.3	225	15.9		8.0		30.6		100.2		8.2		6.4		14		-				-		-	
SR5A	Cloudy	Moderate	09:39	4.8	Surface	1.0	0.1	196	16.2	16.2	8.0	8.0	29.8	29.8	99.9	99.9	8.2	8.2	4.5	5.4	5	6	-	-	816584	810706	-	-	-	-
						1.0	0.1	198	16.2		8.0		29.8		99.9		8.2		4.6		7		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	198	16.1	16.1	8.0	8.0	29.9	29.9	100.3	100.3	8.2	8.2	6.2		6		-				-		-	
						3.8	0.1	206	16.1		8.0		29.9		100.2		8.2		6.3		6		-				-		-	
SR6	Cloudy	Moderate	09:16	4.3	Surface	1.0	0.2	161	15.8	15.8	7.9	7.9	28.0	28.0	102.9	102.9	8.6	8.6	1.8	2.1	5	5	-	-	817910	814655	-	-	-	-
						1.0	0.2	164	15.8		7.9		28.0		102.9		8.6		1.8		5		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	173	15.8	15.8	7.8	7.8	27.9	27.9	102.2	102.2	8.5	8.5	2.3		5		-				-		-	
						3.3	0.2	187	15.8		7.8		27.9		102.1		8.5		2.3		5		-				-		-	
SR7	Cloudy	Moderate	09:01	15.5	Surface	1.0	0.2	202	18.2	18.2	7.9	7.9	29.7	29.7	95.0	95.0	7.5	7.5	2.3	2.4	3	3	-	-	823638	823752	-	-	-	-
						1.0	0.2	216	18.2		7.9		29.7		95.0		7.5		2.3		3		-				-		-	
					Middle	7.8	0.1	143	18.1	18.1	7.9	7.9	29.9	29.9	94.7	94.7	7.5		2.4		2		-				-		-	
						7.8	0.1	154	18.1		7.9		29.9		94.7		7.5		2.4		3		-				-		-	
					Bottom	14.5	0.1	186	18.1	18.1	7.9	7.9	30.0	30.0	96.1	96.1	7.6	7.6	2.5		3		-				-		-	
						14.5	0.2	203	18.1		7.9		30.0		96.1		7.6		2.5		4		-				-		-	
SR8	Cloudy	Moderate	10:13	5.2	Surface	1.0	0.2	194	18.7	18.7	7.9	7.9	28.5	28.5	97.8	97.8	7.7	7.7	5.3	5.0	6	6	-	-	820409	811578	-	-	-	-
						1.0	0.2	208	18.7		7.9		28.5		97.7		7.7		5.3		6		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	136	18.5	18.5	7.9	7.9	28.8	28.8	96.9	96.9	7.7	7.7	4.6		5		-				-		-	
						4.2	0.2	138	18.5		7.9		28.8		96.9		7.7		4.6		6		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 24 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Cloudy	Rough	16:46	8.2	Surface	1.0	0.4	174	14.7	14.7	7.8	7.8	31.8	31.8	100.4	100.4	8.4	8.4	3.2	4.4	7	6	83	84	815615	804257	<0.2	<0.2	1.5	1.3
						1.0	0.4	186	14.7		7.8		31.8		100.4		8.4		3.2		5		83				<0.2		1.4	
					Middle	4.1	0.4	134	14.7	14.7	7.8	7.8	32.6	32.6	101.5	101.5	8.4		4.6		4		83				<0.2		1.5	
						4.1	0.4	140	14.7		7.8		32.6		101.5		8.4		4.6		4		84				<0.2		1.5	
					Bottom	7.2	0.4	96	14.6	14.6	7.8	7.8	33.6	33.6	102.6	102.6	8.5	8.5	5.4		8		84				<0.2		0.8	
						7.2	0.4	101	14.6		7.8		33.6		102.6		8.5		5.3		10		84				<0.2		0.8	
C2	Cloudy	Moderate	15:39	11.7	Surface	1.0	0.4	189	18.2	18.2	8.0	8.0	27.9	27.9	97.5	97.5	7.8	7.8	3.8	4.1	3	4	77	81	825696	806935	<0.2	<0.2	1.5	1.6
						1.0	0.5	195	18.2		8.0		27.9		97.5		7.8		3.8		4		76				<0.2		1.7	
					Middle	5.9	0.4	213	18.3	18.3	8.0	8.0	28.0	28.0	96.6	96.6	7.7		4.2		3		82				<0.2		2.0	
						5.9	0.4	232	18.3		8.0		28.0		96.6		7.7		4.2		4		81				<0.2		1.7	
					Bottom	10.7	0.4	194	18.3	18.3	8.0	8.0	28.4	28.4	96.7	96.7	7.7	7.7	4.3		4		83				<0.2		1.5	
						10.7	0.4	198	18.3		8.0		28.4		96.7		7.7		4.3		4		84				<0.2		1.4	
C3	Cloudy	Moderate	17:37	11.6	Surface	1.0	0.6	260	17.7	17.7	8.0	8.0	29.1	29.1	96.7	96.7	7.7	7.7	4.2	6.2	3	4	79	83	822124	817798	<0.2	<0.2	0.6	0.7
						1.0	0.6	278	17.7		8.0		29.1		96.7		7.7		4.2		4		80				<0.2		0.7	
					Middle	5.8	0.8	258	17.8	17.8	8.0	8.0	30.0	30.0	96.1	96.1	7.6		5.5		4		83				<0.2		0.9	
						5.8	0.8	261	17.8		8.0		30.0		96.1		7.6		5.5		4		83				<0.2		0.8	
					Bottom	10.6	0.6	263	17.8	17.8	8.0	8.0	30.2	30.2	96.5	96.5	7.7	7.7	8.9		6		85				<0.2		0.7	
						10.6	0.7	274	17.8		8.0		30.2		96.5		7.7		8.9		5		85				<0.2		0.7	
IM1	Cloudy	Rough	16:25	7.2	Surface	1.0	0.3	195	15.0	15.0	7.8	7.8	32.1	32.1	97.8	97.8	8.1	8.2	6.1	9.5	8	8	82	83	818367	806477	<0.2	<0.2	1.2	1.2
						1.0	0.3	210	15.0		7.8		32.1		97.8		8.1		6.1		7		81				<0.2		1.2	
					Middle	3.6	0.3	177	15.0	15.0	7.8	7.8	32.3	32.3	99.5	99.6	8.2		7.5		7		83				<0.2		1.4	
						3.6	0.3	193	15.0		7.8		32.2		99.6		8.2		7.6		8		83				<0.2		1.2	
					Bottom	6.2	0.3	140	14.7	14.7	7.8	7.8	34.1	34.1	100.8	100.9	8.3	8.3	14.8		9		83				<0.2		1.2	
						6.2	0.3	145	14.7		7.8		34.1		100.9		8.3		14.8		8		83				<0.2		1.1	
IM2	Cloudy	Rough	16:19	8.1	Surface	1.0	0.4	214	15.0	15.0	7.8	7.8	31.1	31.1	99.0	99.0	8.3	8.3	4.1	6.5	5	6	81	82	818862	806196	<0.2	<0.2	1.4	1.4
						1.0	0.4	214	15.0		7.8		31.1		99.0		8.3		4.1		4		81				<0.2		1.6	
					Middle	4.1	0.3	197	15.0	15.0	7.8	7.8	31.2	31.2	100.1	100.1	8.3		6.1		5		81				<0.2		1.7	
						4.1	0.3	204	14.9		7.8		31.2		100.1		8.3		6.2		5		82				<0.2		1.6	
					Bottom	7.1	0.3	150	14.8	14.8	7.8	7.8	33.7	33.7	101.1	101.1	8.3	8.3	9.3		9		83				<0.2		1.0	
						7.1	0.4	164	14.8		7.8		33.7		101.1		8.3		9.3		9		82				<0.2		1.0	
IM3	Cloudy	Rough	16:09	8.2	Surface	1.0	0.4	217	15.1	15.1	7.7	7.7	30.9	30.9	99.2	99.3	8.3	8.4	5.1	6.1	6	7	82	82	819401	806036	<0.2	<0.2	1.9	1.6
						1.0	0.4	218	15.1		7.7		30.9		99.3		8.3		5.1		7		81				<0.2		1.8	
					Middle	4.1	0.4	222	15.1	15.1	7.7	7.7	31.0	31.0	100.5	100.5	8.4		6.2		8		82				<0.2		1.7	
						4.1	0.4	242	15.1		7.7		31.0		100.5		8.4		6.2		9		83				<0.2		1.9	
					Bottom	7.2	0.3	186	15.0	15.0	7.7	7.7	32.7	32.7	101.8	101.9	8.4	8.4	6.9		7		83				<0.2		1.1	
						7.2	0.3	200	15.0		7.7		32.7		101.9		8.4		6.8		7		83				<0.2		1.2	
IM4	Cloudy	Rough	16:00	7.6	Surface	1.0	0.4	202	15.1	15.1	7.7	7.7	30.9	30.9	98.6	98.6	8.2	8.3	6.7	8.7	7	10	82	83	819573	805034	<0.2	<0.2	1.7	1.5
						1.0	0.4	211	15.1		7.7		30.9		98.6		8.2		6.7		6		82				<0.2		1.8	
					Middle	3.8	0.3	207	15.1	15.1	7.7	7.7	31.0	31.0	99.4	99.4	8.3		8.8		9		83				<0.2		1.6	
						3.8	0.4	220	15.1		7.7		31.0		99.4		8.3		8.9		8		83				<0.2		1.5	
					Bottom	6.6	0.3	201	15.0	15.0	7.8	7.8	32.5	32.5	100.3	100.4	8.3	8.3	10.6		13		84				<0.2		1.3	
						6.6	0.3	202	15.0		7.8		32.5		100.4		8.3		10.6		14		84				<0.2		1.3	
IM5	Cloudy	Rough	15:52	6.6	Surface	1.0	0.4	204	15.2	15.2	7.7	7.7	30.7	30.7	97.9	97.9	8.1	8.2	5.1	9.7	6	10	80	81	820575	804911	<0.2	<0.2	1.6	1.5
						1.0	0.4	215	15.2		7.7		30.7		97.9		8.1		5.2		5		80				<0.2		1.8	
					Middle	3.3	0.3	199	15.2	15.2	7.7	7.7	30.9	30.9	98.9	98.9	8.2		8.9		9		81				<0.2		1.7	
						3.3	0.4	211	15.2		7.7		30.9		98.9		8.2		9.0		8		81				<0.2		1.7	
					Bottom	5.6	0.3	162	15.0	15.0	7.8	7.8	33.1	33.1	100.0	100.0	8.2	8.2	14.9		16		82				<0.2		1.1	
						5.6	0.3	169	15.0		7.8		33.1		100.0		8.2		14.9		14		81				<0.2		0.9	
IM6	Cloudy	Rough	15:43	6.4	Surface	1.0	0.5	191	15.2	15.2	7.7	7.7	30.6	30.6	98.2	98.2	8.2	8.3	8.0	13.0	7	10	80	81	821062	805808	<0.2	<0.2	1.5	1.3
						1.0	0.6	204	15.2		7.7		30.6		98.2		8.2		8.0		8		81				<0.2		1.4	
					Middle	3.2	0.5	200	15.2	15.2	7.7	7.7	30.7	30.7	99.4	99.4	8.3		12.3		7		81				<0.2		1.4	
						3.2	0.5	210	15.2		7.7		30.7		99.3		8.3		12.5		9		82				<0.2		1.5	
					Bottom	5.4	0.4	196	15.1	15.1	7.8	7.8	32.6	32.6	100.4	100.5	8.3	8.3	18.3		13		82				<0.2		1.1	
						5.4	0.4	215	15.1		7.8		32.6		100.5		8.3		18.6		13		82				<0.2		1.1	
IM7	Cloudy	Rough	15:31	7.9	Surface	1.0	0.3	216	15.3	15.3	7.7	7.7	30.5	30.5	98.7	98.8	8.2	8.3	5.7	7.7	5	5	83	84	821353	806840	<0.2	<0.2	1.8	1.7
						1.0	0.4	222	15.3		7.7		30.5		98.8		8.2		5.8		6		83				<0.2		1.8	
					Middle	4.0	0.3	230	15.3	15.3	7.7	7.7	30.7	30.7	100.4	100.4	8.3		7.7		5		84				<0.2		1.7	
						4.0	0.3	249	15.3		7.7		30.7		100.4		8.3		7.9		5		84				<0.2		1.6	
					Bottom	6.9	0.3	215	15.3	15.3	7.7	7.7	31.0	31.0	101.5	101.5	8.4	8.4	9.6		6		84				<0.2		1.7	
						6.9	0.3	224	15.3		7.7		30.9		101.5		8.4		9.2		5		85				<0.2		1.7	
IM8	Cloudy	Moderate	16:05	8.1	Surface	1.0	0.4	192	18.1	18.1	8.0	8.0	26.8	26.8	99.6	99.6	8.0	8.1	5.9	6.2	5	6	76	81	821690	807819	<0.2	<0.2	2.0	1.9
						1.0	0.4	198	18.1		8.0		26.8		99.6		8.0		5.9		5		77				<0.2		2.0	
					Middle	4.1	0.5	214	18.2	18.2	8.0	8.0	26.9	26.9	100.8	100.8	8.1		6.3		5		81				<0.2		1.7	
						4.1	0.5	214	18.2		8.0		26.9		100.8		8.1		6.3		5		82				<0.2		2.0	
					Bottom	7.1	0.4	225	18.2	18.2	8.0	8.0	27.0	27.0	104.2	104.2	8.4	8.4	6.4		8		84				<0.2		1.8	
						7.1	0.5	238	18.2		8.0		27.0		104.2		8.4		6.4		6		83				<0.2		1.8	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 24 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	16:14	7.4	Surface	1.0	0.5	232	18.2	18.2	8.0	8.0	27.1	27.1	99.7	99.7	8.0	8.0	6.4	7.7	6	6	77	81	822104	808826	<0.2	<0.2	1.9	2.0
						1.0	0.6	235	18.2		8.0		27.1		99.7		8.0		6.4		5		76				<0.2		1.9	
					Middle	3.7	0.5	229	18.2	18.2	8.0	8.0	27.1	27.1	100.4	100.4	8.0		7.2		6		82				<0.2		2.0	
						3.7	0.5	241	18.2		8.0		27.1		100.4		8.0		7.2		7		82				<0.2		2.1	
					Bottom	6.4	0.5	219	18.2	18.2	8.0	8.0	27.2	27.2	102.2	102.2	8.2	8.2	9.5		7		84				<0.2		2.0	
						6.4	0.5	220	18.2		8.0		27.2		102.2		8.2		9.5		7		83				<0.2		2.1	
IM10	Cloudy	Moderate	16:23	8.3	Surface	1.0	0.5	256	18.1	18.1	8.0	8.0	27.3	27.3	99.6	99.6	8.0	8.0	5.9	9.1	4	6	77	81	822232	809823	<0.2	<0.2	1.8	1.7
						1.0	0.5	280	18.1		8.0		27.3		99.6		8.0		5.9		5		78				<0.2		1.8	
					Middle	4.2	0.5	248	18.1	18.1	8.0	8.0	27.4	27.4	99.9	99.9	8.0		8.6		5		82				<0.2		1.6	
						4.2	0.6	250	18.1		8.0		27.4		99.9		8.0		8.6		7		81				<0.2		1.7	
					Bottom	7.3	0.5	260	18.0	18.0	8.0	8.0	27.7	27.7	100.6	100.6	8.1	8.1	12.9		6		84				<0.2		1.5	
						7.3	0.5	268	18.0		8.0		27.7		100.6		8.1		12.9		6		84				<0.2		1.6	
IM11	Cloudy	Moderate	16:32	8.6	Surface	1.0	0.6	240	18.0	18.0	8.0	8.0	27.5	27.5	97.4	97.4	7.8	7.8	7.8	12.6	6	13	78	81	821498	810556	<0.2	<0.2	1.4	1.2
						1.0	0.6	242	18.0		8.0		27.5		97.4		7.8		7.8		5		77				<0.2		1.3	
					Middle	4.3	0.6	250	18.1	18.1	8.0	8.0	27.7	27.7	97.0	97.0	7.8		9.5		8		82				<0.2		1.5	
						4.3	0.6	270	18.1		8.0		27.7		97.0		7.8		9.5		7		82				<0.2		1.3	
					Bottom	7.6	0.5	249	18.3	18.3	8.0	8.0	28.6	28.6	97.4	97.4	7.7	7.7	20.6		26		84				<0.2		1.0	
						7.6	0.6	262	18.3		8.0		28.6		97.4		7.7		20.6		24		84				<0.2		0.9	
IM12	Cloudy	Moderate	16:41	8.1	Surface	1.0	0.6	258	18.0	18.0	8.0	8.0	27.5	27.5	97.7	97.7	7.8	7.8	6.8	12.3	4	6	78	81	821181	811517	<0.2	<0.2	1.2	1.5
						1.0	0.6	283	18.0		8.0		27.5		97.7		7.8		6.8		4		78				<0.2		1.3	
					Middle	4.1	0.6	260	18.2	18.2	8.0	8.0	27.7	27.7	96.9	96.9	7.8		9.2		6		82				<0.2		1.7	
						4.1	0.7	278	18.2		8.0		27.7		96.9		7.8		9.2		5		82				<0.2		1.5	
					Bottom	7.1	0.5	263	18.2	18.2	8.0	8.0	29.2	29.2	98.0	98.0	7.8	7.8	20.9		6		84				<0.2		1.7	
						7.1	0.6	279	18.2		8.0		29.2		98.0		7.8		20.9		8		84				<0.2		1.5	
SR2	Cloudy	Moderate	17:07	4.8	Surface	1.0	0.2	123	18.0	18.0	8.0	8.0	28.2	28.2	97.9	97.9	7.8	7.8	5.3	5.5	5	7	80	82	821443	814161	<0.2	<0.2	1.4	1.4
						1.0	0.2	125	18.0		8.0		28.2		97.9		7.8		5.3		5		79				<0.2		1.6	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	113	18.0	18.0	8.0	8.0	28.3	28.3	100.8	100.8	8.1	8.1	5.7		8		84				<0.2		1.2	
						3.8	0.2	121	18.0		8.0		28.3		100.8		8.1		5.7		8		84				<0.2		1.2	
SR3	Cloudy	Moderate	15:59	9.0	Surface	1.0	0.6	187	18.2	18.2	8.0	8.0	27.1	27.1	98.4	98.4	7.9	7.9	7.7	9.4	6	12	-	-	822152	807555	-	-	-	-
						1.0	0.6	197	18.2		8.0		27.1		98.4		7.9		7.7		6		-				-		-	
					Middle	4.5	0.5	203	18.2	18.2	8.0	8.0	27.6	27.6	98.8	98.9	7.9		10.2		14		-				-		-	
						4.5	0.6	220	18.2		8.0		27.6		98.9		7.9		10.2		15		-				-		-	
					Bottom	8.0	0.5	185	18.2	18.2	8.0	8.0	27.7	27.7	99.6	99.6	8.0	8.0	10.4		14		-				-		-	
						8.0	0.6	188	18.2		8.0		27.7		99.6		8.0		10.4		16		-				-		-	
SR4A	Cloudy	Calm	17:11	7.8	Surface	1.0	0.4	254	15.1	15.1	7.8	7.8	31.5	31.5	97.3	97.3	8.1	8.2	11.4	12.5	14	16	-	-	817175	807806	-	-	-	-
						1.0	0.4	263	15.1		7.8		31.5		97.3		8.1		11.5		16		-				-		-	
					Middle	3.9	0.4	243	15.2	15.2	7.8	7.8	31.6	31.6	99.2	99.2	8.2		12.7		16		-				-		-	
						3.9	0.4	244	15.2		7.8		31.6		99.2		8.2		12.7		16		-				-		-	
					Bottom	6.8	0.3	222	15.2	15.2	7.7	7.7	32.0	32.0	101.7	101.8	8.4	8.4	13.2		17		-				-		-	
						6.8	0.3	240	15.2		7.7		32.0		101.8		8.4		13.2		18		-				-		-	
SR5A	Cloudy	Calm	17:33	4.9	Surface	1.0	0.2	299	15.5	15.5	7.7	7.7	31.7	31.7	98.4	98.4	8.1	8.1	7.0	7.2	11	11	-	-	816602	810700	-	-	-	-
						1.0	0.2	320	15.5		7.7		31.7		98.4		8.1		7.1		11		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.2	293	15.5	15.5	7.7	7.7	31.7	31.7	101.1	101.2	8.3	8.3	7.2		11		-				-		-	
						3.9	0.3	308	15.5		7.7		31.7		101.2		8.3		7.3		11		-				-		-	
SR6	Cloudy	Calm	17:59	4.2	Surface	1.0	0.2	221	15.2	15.2	7.8	7.8	30.9	30.9	100.1	100.2	8.3	8.3	11.4	11.1	15	17	-	-	817909	814661	-	-	-	-
						1.0	0.2	230	15.2		7.8		30.9		100.2		8.3		11.3		14		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	174	15.2	15.2	7.8	7.8	31.1	31.1	102.5	102.6	8.5	8.5	10.8		18		-				-		-	
						3.2	0.2	184	15.2		7.7		31.1		102.6		8.5		11.0		19		-				-		-	
SR7	Cloudy	Moderate	18:13	17.2	Surface	1.0	0.2	228	17.7	17.7	8.0	8.0	30.3	30.3	96.6	96.6	7.7	7.7	4.8	5.2	10	10	-	-	823616	823743	-	-	-	-
						1.0	0.2	238	17.7		8.0		30.3		96.6		7.7		4.9		9		-				-		-	
					Middle	8.6	0.3	231	17.7	17.7	8.0	8.0	30.4	30.4	97.0	97.0	7.7		5.4		10		-				-		-	
						8.6	0.3	233	17.7		8.0		30.4		97.0		7.7		5.4		8		-				-		-	
					Bottom	16.2	0.3	230	17.7	17.7	8.0	8.0	30.5	30.5	100.9	100.9	8.0	8.0	5.3		10		-				-		-	
						16.2	0.3	252	17.7		8.0		30.5		100.9		8.0		5.3		10		-				-		-	
SR8	Cloudy	Moderate	16:48	5.2	Surface	1.0	0.4	230	18.0	18.0	8.0	8.0	27.5	27.5	99.6	99.6	8.0	8.0	11.6	13.5	12	16	-	-	820435	811601	-	-	-	-
						1.0	0.5	245	18.0		8.0		27.5		99.6		8.0		11.6		13		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.5	209	18.1	18.1	8.0	8.0	27.6	27.6	102.0	102.0	8.2	8.2	15.4		19		-				-		-	
						4.2	0.5	228	18.1		8.0		27.6		102.0		8.2		15.4		20		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 24 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Rough	12:12	8.2	Surface	1.0	1.3	213	14.4	14.4	7.8	7.8	33.0	33.0	99.6	99.6	8.3	8.3	9.5	10.0	4	6	83	84	815612	804253	<0.2	<0.2	1.5	0.9
						1.0	1.3	231	14.4		7.8		33.0		99.5		8.3		9.5		4		83				<0.2		1.4	
					Middle	4.1	1.3	206	14.5	14.5	7.8	7.8	33.0	33.0	99.4	99.4	8.3		9.9		6		84				<0.2		0.9	
						4.1	1.3	209	14.4		7.8		33.0		99.3		8.3		9.9		6		84				<0.2		0.8	
					Bottom	7.2	1.3	220	14.5	14.5	7.8	7.8	33.2	33.2	99.2	99.2	8.3	8.3	10.5		10		84				<0.2		0.5	
						7.2	1.5	227	14.5		7.8		33.2		99.2		8.3		10.5		8		85				<0.2		0.5	
C2	Cloudy	Moderate	13:10	11.3	Surface	1.0	0.7	166	18.1	18.1	8.0	8.0	27.1	27.1	97.4	97.4	7.8	7.7	5.7	5.7	4	4	76	80	825667	806941	<0.2	<0.2	1.7	1.8
						1.0	0.7	175	18.1		8.0		27.1		97.4		7.8		5.7		5		76				<0.2		1.6	
					Middle	5.7	0.5	159	18.2	18.2	8.0	8.0	28.9	28.9	96.5	96.5	7.6		5.5		4		82				<0.2		2.0	
						5.7	0.5	167	18.2		8.0		28.9		96.5		7.6		5.5		5		81				<0.2		1.9	
					Bottom	10.3	0.4	166	18.2	18.2	8.0	8.0	29.5	29.5	97.9	97.9	7.7	7.8	5.8		3		83				<0.2		2.0	
						10.3	0.4	173	18.2		8.0		29.5		97.9		7.8		5.8		4		83				<0.2		1.8	
C3	Cloudy	Moderate	10:58	12.4	Surface	1.0	0.3	114	17.9	17.9	8.0	8.0	30.1	30.1	96.3	96.3	7.6	7.7	3.9	4.5	4	4	79	82	822128	817783	<0.2	<0.2	0.6	0.6
						1.0	0.3	120	17.9		8.0		30.1		96.3		7.6		3.9		5		79				<0.2		0.5	
					Middle	6.2	0.2	101	17.9	17.9	8.0	8.0	30.1	30.1	96.6	96.7	7.7		4.5		4		82				<0.2		0.6	
						6.2	0.3	106	17.9		8.0		30.1		96.7		7.7		4.5		4		83				<0.2		0.7	
					Bottom	11.4	0.2	156	17.8	17.8	8.0	8.0	30.3	30.3	98.2	98.3	7.8	7.8	4.9		4		84				<0.2		0.6	
						11.4	0.2	170	17.8		8.0		30.3		98.3		7.8		5.0		4		84				<0.2		0.8	
IM1	Cloudy	Rough	12:39	7.1	Surface	1.0	0.4	178	15.0	15.0	7.7	7.7	30.7	30.7	98.0	98.0	8.2	8.2	3.4	12.8	3	4	79	81	818341	806458	<0.2	<0.2	1.6	0.8
						1.0	0.5	191	15.0		7.7		30.7		98.0		8.2		3.5		2		80				<0.2		1.4	
					Middle	3.6	0.4	180	14.8	14.8	7.8	7.8	31.6	31.7	98.7	98.7	8.2		12.0		4		81				<0.2		0.7	
						3.6	0.4	195	14.8		7.8		31.7		98.7		8.2		12.4		4		81				<0.2		0.5	
					Bottom	6.1	0.4	187	14.7	14.7	7.8	7.8	33.4	33.4	98.8	98.9	8.2	8.2	22.9		4		81				<0.2		0.4	
						6.1	0.4	187	14.7		7.8		33.4		98.9		8.2		22.8		4		81				<0.2		0.3	
IM2	Cloudy	Rough	12:51	8.1	Surface	1.0	0.5	197	15.0	15.0	7.7	7.7	30.4	30.4	98.9	99.0	8.3	8.3	3.2	5.6	4	4	80	81	818855	806176	<0.2	<0.2	1.5	1.6
						1.0	0.6	200	15.0		7.7		30.4		99.0		8.3		3.2		2		80				<0.2		1.7	
					Middle	4.1	0.5	193	14.8	14.8	7.8	7.8	31.4	31.4	99.2	99.3	8.3		6.2		3		81				<0.2		1.4	
						4.1	0.5	204	14.8		7.8		31.4		99.3		8.3		6.4		3		81				<0.2		1.5	
					Bottom	7.1	0.6	218	14.8	14.8	7.7	7.7	32.6	32.6	99.6	99.6	8.3	8.3	7.4		6		82				<0.2		1.7	
						7.1	0.6	219	14.8		7.7		32.5		99.6		8.3		7.2		6		82				<0.2		1.6	
IM3	Rainy	Rough	13:02	8.2	Surface	1.0	0.6	207	14.9	14.9	7.8	7.8	31.3	31.3	99.1	99.1	8.3	8.3	8.3	7.6	6	7	82	83	819430	806020	<0.2	<0.2	1.3	1.3
						1.0	0.6	225	14.9		7.8		31.3		99.1		8.3		8.3		6		82				<0.2		1.2	
					Middle	4.1	0.5	212	14.9	14.9	7.7	7.7	31.3	31.3	99.6	99.6	8.3		7.1		6		83				<0.2		1.3	
						4.1	0.5	229	14.9		7.7		31.3		99.6		8.3		7.0		8		83				<0.2		1.2	
					Bottom	7.2	0.5	218	14.9	14.9	7.7	7.7	31.4	31.4	100.1	100.1	8.3	8.3	7.5		7		83				<0.2		1.2	
						7.2	0.5	220	14.9		7.7		31.4		100.1		8.3		7.4		6		84				<0.2		1.3	
IM4	Rainy	Rough	13:12	7.5	Surface	1.0	0.6	189	15.0	15.0	7.7	7.7	31.0	31.0	98.4	98.4	8.2	8.3	9.6	11.4	9	11	81	81	819569	805026	<0.2	<0.2	1.3	1.3
						1.0	0.6	195	15.0		7.7		31.0		98.4		8.2		9.6		10		80				<0.2		1.5	
					Middle	3.8	0.5	189	15.0	15.0	7.7	7.7	31.2	31.2	99.3	99.3	8.3		11.9		10		81				<0.2		1.3	
						3.8	0.5	205	15.0		7.7		31.2		99.3		8.3		12.0		11		81				<0.2		1.4	
					Bottom	6.5	0.4	209	14.9	14.9	7.7	7.7	32.9	32.9	100.1	100.1	8.3	8.3	12.7		12		82				<0.2		1.0	
						6.5	0.4	216	14.9		7.7		32.8		100.1		8.3		12.7		13		82				<0.2		1.2	
IM5	Rainy	Rough	13:25	6.6	Surface	1.0	0.7	186	15.1	15.1	7.7	7.7	30.5	30.5	98.1	98.1	8.2	8.2	5.9	9.8	6	9	80	81	820568	804912	<0.2	<0.2	1.4	1.4
						1.0	0.7	190	15.1		7.7		30.5		98.1		8.2		5.9		7		80				<0.2		1.5	
					Middle	3.3	0.6	176	15.1	15.1	7.7	7.7	30.7	30.7	98.5	98.5	8.2		8.8		8		81				<0.2		1.6	
						3.3	0.6	181	15.1		7.7		30.7		98.5		8.2		8.9		6		81				<0.2		1.5	
					Bottom	5.6	0.4	186	15.1	15.1	7.7	7.7	31.7	31.7	99.7	99.8	8.3	8.3	14.6		13		81				<0.2		1.3	
						5.6	0.5	189	15.1		7.7		31.7		99.8		8.3		14.6		14		82				<0.2		1.2	
IM6	Rainy	Rough	13:37	6.5	Surface	1.0	0.6	188	15.2	15.2	7.7	7.7	30.5	30.5	98.0	98.0	8.2	8.3	5.1	8.6	5	7	81	82	821077	805809	<0.2	<0.2	1.6	1.7
						1.0	0.6	193	15.2		7.7		30.5		98.0		8.2		5.2		7		81				<0.2		1.8	
					Middle	3.3	0.5	195	15.2	15.2	7.7	7.7	30.6	30.6	99.2	99.2	8.3		9.2		6		82				<0.2		1.8	
						3.3	0.5	207	15.2		7.7		30.6		99.2		8.3		9.3		7		82				<0.2		1.6	
					Bottom	5.5	0.5	198	15.1	15.1	7.7	7.7	32.9	32.9	100.3	100.3	8.3	8.3	11.5		6		82				<0.2		1.6	
						5.5	0.5	203	15.1		7.7		32.9		100.3		8.3		11.1		8		83				<0.2		1.6	
IM7	Rainy	Rough	13:47	7.7	Surface	1.0	0.4	212	15.3	15.3	7.7	7.7	30.5	30.5	97.8	97.9	8.1	8.2	4.8	6.0	4	6	83	84	821360	806847	<0.2	<0.2	1.6	1.7
						1.0	0.4	224	15.3		7.7		30.5		97.9		8.1		4.8		5		83				<0.2		1.7	
					Middle	3.9	0.3	205	15.3	15.3	7.7	7.7	30.7	30.7	99.0	99.1	8.2		6.6		4		83				<0.2		1.9	
						3.9	0.3	205	15.3		7.7		30.7		99.1		8.2		6.7		5		84				<0.2		1.7	
					Bottom	6.7	0.4	191	15.3	15.3	7.7	7.7	31.1	31.1	100.0	100.1	8.3	8.3	6.5		9		84				<0.2		1.6	
						6.7	0.4	201	15.3		7.7		31.0		100.1		8.3		6.3		9		85				<0.2		1.6	
IM8	Cloudy	Moderate	12:35	8.0	Surface	1.0	0.7	154	18.2	18.2	8.0	8.0	27.2	27.2	99.3	99.3	8.0	8.0	10.2	13.2	8	10	76	80	821712	807842	<0.2	<0.2	1.6	1.5
						1.0	0.7	165	18.2		8.0		27.2		99.3		8.0		10.2		6		76				<0.2		1.6	
					Middle	4.0	0.6	139	18.2	18.2	8.0	8.0	27.5	27.5	99.5	99.5	8.0		12.7		10		81				<0.2		1.6	
						4.0	0.6	139	18.2		8.0		27.5		99.5		8.0		12.7		10		81				<0.2		1.4	
					Bottom	7.0	0.8	149	18.1	18.1	8.0	8.0	28.4	28.4	100.4	100.4	8.0	8.0	16.6		15		83				<0.2		1.4	
						7.0	0.9	155	18.1		8.0		28.4		100.4		8.0		16.6		13		84				<0.2		1.4	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 24 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	12:25	7.1	Surface	1.0	0.7	128	18.2	18.2	8.0	8.0	27.3	27.3	99.1	99.1	7.9	8.0	9.8	11.0	10	9	78	81	822108	808793	<0.2	<0.2	1.6	1.6
						1.0	0.7	130	18.2		8.0		27.3		99.1		7.9		9.8		8		78				<0.2		1.6	
					Middle	3.6	0.7	125	18.2	18.2	8.0	8.0	27.3	27.3	99.5	99.5	8.0		10.1		8		81				<0.2		1.6	
						3.6	0.7	132	18.2		8.0		27.3		99.5		8.0		10.1		9		82				<0.2		1.7	
					Bottom	6.1	0.7	110	18.1	18.1	8.0	8.0	27.6	27.6	101.5	101.5	8.1	8.1	13.1		10		84				<0.2		1.6	
						6.1	0.8	110	18.1		8.0		27.6		101.5		8.1		13.1		9		83				<0.2		1.7	
IM10	Cloudy	Moderate	12:15	8.0	Surface	1.0	0.9	130	18.0	18.0	8.0	8.0	27.4	27.4	100.4	100.4	8.1	8.1	9.1	12.7	9	9	77	81	822238	809837	<0.2	<0.2	1.2	1.3
						1.0	1.0	141	18.0		8.0		27.4		100.4		8.1		9.1		10		77				<0.2		1.2	
					Middle	4.0	0.9	121	18.0	18.0	8.0	8.0	27.6	27.6	101.0	101.0	8.1		12.5		9		81				<0.2		1.5	
						4.0	0.9	122	18.0		8.0		27.6		101.0		8.1		12.6		9		82				<0.2		1.3	
					Bottom	7.0	0.8	119	18.1	18.1	8.0	8.0	27.7	27.7	103.3	103.4	8.3	8.3	16.5		9		84				<0.2		1.2	
						7.0	0.9	125	18.1		8.0		27.7		103.4		8.3		16.2		9		84				<0.2		1.4	
IM11	Cloudy	Moderate	12:05	8.0	Surface	1.0	0.8	118	18.1	18.1	8.0	8.0	27.3	27.3	98.2	98.2	7.9	7.9	8.2	10.1	5	8	78	81	821496	810529	<0.2	<0.2	1.4	1.7
						1.0	0.8	127	18.1		8.0		27.3		98.2		7.9		8.2		6		78				<0.2		1.5	
					Middle	4.0	0.7	118	18.3	18.3	8.0	8.0	27.6	27.6	97.5	97.5	7.8		10.6		6		82				<0.2		1.9	
						4.0	0.8	129	18.3		8.0		27.6		97.5		7.8		10.6		8		82				<0.2		1.8	
					Bottom	7.0	0.7	135	18.3	18.3	8.0	8.0	27.8	27.8	98.1	98.1	7.8	7.8	11.6		13		84				<0.2		1.8	
						7.0	0.7	138	18.3		8.0		27.8		98.1		7.8		11.6		12		84				<0.2		1.7	
IM12	Cloudy	Moderate	11:54	8.5	Surface	1.0	0.8	107	18.2	18.2	8.0	8.0	27.4	27.4	97.6	97.6	7.8	7.8	6.3	6.5	5	6	77	81	821173	811534	<0.2	<0.2	1.7	1.7
						1.0	0.8	115	18.2		8.0		27.4		97.6		7.8		6.3		5		78				<0.2		1.7	
					Middle	4.3	0.8	114	18.3	18.3	8.0	8.0	27.8	27.8	97.7	97.7	7.8		6.2		8		82				<0.2		1.9	
						4.3	0.9	114	18.3		8.0		27.8		97.7		7.8		6.2		7		81				<0.2		1.8	
					Bottom	7.5	0.6	132	18.3	18.3	8.0	8.0	28.3	28.3	99.6	99.7	7.9	7.9	7.1		7		84				<0.2		1.5	
						7.5	0.7	133	18.3		8.0		28.3		99.7		7.9		7.1		6		83				<0.2		1.5	
SR2	Cloudy	Moderate	11:26	4.6	Surface	1.0	0.5	76	18.1	18.1	8.0	8.0	28.1	28.1	97.4	97.4	7.8	7.8	6.0	6.9	5	5	80	82	821461	814161	<0.2	<0.2	1.5	1.5
						1.0	0.5	77	18.1		8.0		28.1		97.4		7.8		6.0		5		79				<0.2		1.4	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.4	134	18.3	18.3	7.9	7.9	28.8	28.8	98.9	99.0	7.8	7.8	7.7		5		85				<0.2		1.4	
						3.6	0.4	134	18.3		7.9		28.8		99.0		7.8		7.7		6		85				<0.2		1.5	
SR3	Cloudy	Moderate	12:42	8.2	Surface	1.0	0.7	172	18.3	18.3	8.0	8.0	26.9	26.9	97.6	97.7	7.8	7.9	7.6	10.2	6	7	-	-	822162	807570	-	-	-	-
						1.0	0.8	181	18.3		8.0		26.9		97.7		7.8		7.7		7		-				-		-	
					Middle	4.1	0.7	179	18.3	18.3	8.0	8.0	27.0	27.0	98.2	98.2	7.9		9.4		8		-				-		-	
						4.1	0.7	194	18.3		8.0		27.0		98.2		7.9		9.4		6		-				-		-	
					Bottom	7.2	1.0	135	18.2	18.2	8.0	8.0	27.6	27.6	99.3	99.3	7.9	7.9	13.5		8		-				-		-	
						7.2	1.0	144	18.2		8.0		27.6		99.3		7.9		13.5		8		-				-		-	
SR4A	Cloudy	Moderate	11:48	8.0	Surface	1.0	0.4	99	15.1	15.1	7.7	7.7	30.4	30.4	97.0	97.0	8.1	8.1	12.1	17.7	14	19	-	-	817195	807824	-	-	-	-
						1.0	0.4	103	15.1		7.7		30.4		97.0		8.1		12.2		15		-				-		-	
					Middle	4.0	0.3	105	15.1	15.1	7.7	7.7	30.7	30.7	97.0	97.0	8.1		17.8		18		-				-		-	
						4.0	0.3	112	15.1		7.7		30.7		97.0		8.1		17.9		17		-				-		-	
					Bottom	7.0	0.3	94	15.1	15.1	7.7	7.7	31.1	31.1	97.1	97.1	8.1	8.1	23.1		26		-				-		-	
						7.0	0.3	94	15.1		7.7		31.1		97.1		8.1		23.1		26		-				-		-	
SR5A	Cloudy	Moderate	11:27	4.2	Surface	1.0	0.1	168	15.5	15.5	7.8	7.8	30.4	30.4	94.6	94.6	7.8	7.8	9.7	10.9	12	13	-	-	816576	810706	-	-	-	-
						1.0	0.1	184	15.5		7.8		30.4		94.6		7.8		9.7		14		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	184	15.5	15.5	7.7	7.7	30.4	30.4	97.4	97.4	8.1	8.1	12.1		14		-				-		-	
						3.2	0.2	200	15.5		7.7		30.4		97.3		8.1		12.1		13		-				-		-	
SR6	Rainy	Moderate	11:00	4.1	Surface	1.0	0.4	165	15.0	15.0	7.7	7.7	27.6	27.6	103.7	103.8	8.8	8.8	5.3	5.4	9	8	-	-	817900	814669	-	-	-	-
						1.0	0.4	175	15.0		7.7		27.6		103.8		8.8		5.3		8		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.5	186	15.0	15.0	7.6	7.6	26.8	26.8	108.5	108.5	9.3	9.3	5.5		7		-				-		-	
						3.1	0.5	199	15.0		7.6		26.8		108.5		9.3		5.5		8		-				-		-	
SR7	Cloudy	Moderate	10:24	15.5	Surface	1.0	0.3	168	17.8	17.8	7.9	7.9	30.3	30.3	97.1	97.1	7.7	7.8	4.5	4.8	4	4	-	-	823617	823723	-	-	-	-
						1.0	0.3	182	17.8		7.9		30.3		97.1		7.7		4.5		4		-				-		-	
					Middle	7.8	0.2	118	17.8	17.8	7.9	7.9	30.4	30.4	97.8	97.8	7.8		4.8		5		-				-		-	
						7.8	0.3	126	17.8		7.9		30.4		97.8		7.8		4.8		4		-				-		-	
					Bottom	14.5	0.2	136	17.8	17.8	7.9	7.9	30.4	30.4	99.6	99.6	7.9	7.9	5.0		4		-				-		-	
						14.5	0.2	143	17.8		7.9		30.4		99.6		7.9		5.0		4		-				-		-	
SR8	Cloudy	Moderate	11:45	5.1	Surface	1.0	0.5	180	18.4	18.4	8.0	8.0	28.1	28.1	97.5	97.5	7.7	7.7	9.8	10.1	10	9	-	-	820408	811601	-	-	-	-
						1.0	0.6	197	18.4		8.0		28.1		97.5		7.7		9.8		8		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.6	181	18.4	18.4	8.0	8.0	28.7	28.7	100.0	100.1	7.9	7.9	10.3		9		-				-		-	
						4.1	0.6	192	18.4		8.0		28.7		100.1		7.9		10.3		8		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 26 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Cloudy	Rough	07:05	8.8	Surface	1.0	0.8	137	14.2	14.2	7.8	7.8	33.3	33.3	98.5	98.5	8.2	8.2	14.0	16.1	14	17	83	84	815606	804231	<0.2	<0.2	0.5	0.6
						1.0	0.9	144	14.2		7.8		33.3		98.5		8.2		14.1		13		83				<0.2		0.6	
					Middle	4.4	0.9	111	14.2	14.2	7.8	7.8	33.3	33.3	98.6	98.6	8.2		14.4		18		84				<0.2		0.5	
						4.4	1.0	119	14.2		7.8		33.3		98.6		8.2		14.5		19		84				<0.2		0.6	
					Bottom	7.8	1.0	106	14.2	14.2	7.8	7.8	33.6	33.6	98.6	98.6	8.2	8.2	19.9		19		85				<0.2		0.6	
						7.8	1.0	114	14.2		7.8		33.6		98.5		8.2		19.9		18		85				<0.2		0.7	
C2	Fine	Moderate	08:16	12.2	Surface	1.0	0.5	168	17.7	17.7	8.0	8.0	28.1	28.1	95.4	95.4	7.7	7.7	6.0	8.3	3	5	76	81	825696	806930	<0.2	<0.2	1.4	1.4
						1.0	0.5	175	17.7		8.0		28.1		95.4		7.7		6.0		5		77				<0.2		1.4	
					Middle	6.1	0.5	185	17.8	17.8	8.0	8.0	28.1	28.1	95.5	95.5	7.7		8.0		4		82				<0.2		1.3	
						6.1	0.5	185	17.8		8.0		28.1		95.5		7.7		8.1		4		82				<0.2		1.3	
					Bottom	11.2	0.4	247	17.9	17.9	7.9	7.9	28.3	28.3	96.4	96.4	7.7	7.7	10.7		5		84				<0.2		1.3	
						11.2	0.4	250	17.9		7.9		28.3		96.4		7.7		10.7		6		84				<0.2		1.4	
C3	Fine	Moderate	06:25	12.5	Surface	1.0	0.3	240	17.5	17.5	8.0	8.0	29.9	29.9	96.8	96.8	7.7	7.8	5.2	7.1	3	5	80	83	822100	817810	<0.2	<0.2	0.6	0.6
						1.0	0.3	261	17.5		8.0		29.9		96.7		7.7		5.3		5		81				<0.2		0.6	
					Middle	6.3	0.3	261	17.6	17.6	8.0	8.0	30.1	30.1	98.0	98.0	7.8		7.7		5		83				<0.2		0.6	
						6.3	0.3	280	17.6		8.0		30.1		98.0		7.8		7.7		7		82				<0.2		0.7	
					Bottom	11.5	0.3	256	17.6	17.6	8.0	8.0	30.1	30.1	100.5	100.5	8.0	8.0	8.4		6		85				<0.2		0.6	
						11.5	0.3	280	17.6		8.0		30.1		100.5		8.0		8.4		6		85				<0.2		0.7	
IM1	Cloudy	Rough	07:25	7.8	Surface	1.0	0.8	145	14.5	14.5	7.8	7.8	32.6	32.6	96.7	96.7	8.1	8.1	9.7	15.0	11	14	81	82	818360	806477	<0.2	<0.2	0.8	0.7
						1.0	0.8	156	14.5		7.8		32.6		96.6		8.1		9.9		10		81				<0.2		0.8	
					Middle	3.9	0.9	140	14.5	14.5	7.8	7.8	32.6	32.6	97.2	97.2	8.1		16.6		11		82				<0.2		0.7	
						3.9	0.9	149	14.5		7.8		32.6		97.1		8.1		16.6		12		82				<0.2		0.7	
					Bottom	6.8	0.8	144	14.5	14.5	7.8	7.8	32.7	32.7	97.4	97.4	8.1	8.1	18.6		19		83				<0.2		0.7	
						6.8	0.8	156	14.5		7.8		32.7		97.4		8.1		18.5		19		83				<0.2		0.6	
IM2	Cloudy	Rough	07:32	8.7	Surface	1.0	0.6	157	14.4	14.4	7.8	7.8	32.9	32.9	96.8	96.8	8.1	8.1	11.6	13.5	13	18	81	82	818852	806175	<0.2	<0.2	0.6	0.7
						1.0	0.6	158	14.4		7.8		32.9		96.8		8.1		11.6		12		81				<0.2		0.6	
					Middle	4.4	0.6	133	14.5	14.5	7.8	7.8	32.8	32.8	96.9	97.0	8.1		13.3		15		82				<0.2		0.8	
						4.4	0.6	137	14.5		7.8		32.8		97.0		8.1		13.4		15		81				<0.2		0.9	
					Bottom	7.7	0.7	122	14.5	14.5	7.8	7.8	32.8	32.8	97.3	97.4	8.1	8.1	15.6		25		82				<0.2		0.7	
						7.7	0.8	133	14.5		7.8		32.8		97.4		8.1		15.7		25		82				<0.2		0.8	
IM3	Cloudy	Rough	07:41	8.8	Surface	1.0	0.7	144	14.2	14.2	7.8	7.8	33.3	33.3	97.5	97.5	8.2	8.2	13.6	15.0	22	21	80	81	819405	806034	<0.2	<0.2	0.8	0.8
						1.0	0.7	147	14.2		7.8		33.3		97.5		8.2		13.6		22		80				<0.2		0.7	
					Middle	4.4	0.7	127	14.2	14.2	7.8	7.8	33.3	33.3	98.0	98.1	8.2		14.3		21		81				<0.2		0.6	
						4.4	0.8	129	14.2		7.8		33.3		98.1		8.2		14.4		20		81				<0.2		0.8	
					Bottom	7.8	0.7	152	14.2	14.2	7.8	7.8	33.4	33.4	98.7	98.7	8.3	8.3	17.3		21		81				<0.2		0.9	
						7.8	0.7	160	14.2		7.8		33.3		98.7		8.3		17.0		22		82				<0.2		0.8	
IM4	Cloudy	Rough	07:51	8.1	Surface	1.0	0.6	141	14.2	14.2	7.8	7.8	33.4	33.4	97.8	97.8	8.2	8.2	15.4	19.2	18	21	81	82	819552	805037	<0.2	<0.2	0.8	0.7
						1.0	0.7	144	14.2		7.8		33.4		97.8		8.2		15.4		17		80				<0.2		0.7	
					Middle	4.1	0.6	142	14.2	14.2	7.8	7.8	33.4	33.4	97.7	97.8	8.2		16.4		20		82				<0.2		0.7	
						4.1	0.6	154	14.2		7.8		33.4		97.8		8.2		16.4		19		82				<0.2		0.7	
					Bottom	7.1	0.6	156	14.2	14.2	7.8	7.8	33.4	33.4	98.0	98.0	8.2	8.2	25.9		25		83				<0.2		0.6	
						7.1	0.7	157	14.2		7.8		33.4		98.0		8.2		25.8		25		82				<0.2		0.7	
IM5	Cloudy	Rough	07:59	7.1	Surface	1.0	0.6	149	14.2	14.2	7.8	7.8	33.1	33.1	97.8	97.8	8.2	8.2	8.5	12.3	11	13	80	81	820571	804910	<0.2	<0.2	0.8	0.8
						1.0	0.6	161	14.2		7.8		33.1		97.7		8.2		8.5		10		80				<0.2		0.8	
					Middle	3.6	0.5	118	14.2	14.2	7.8	7.8	33.2	33.2	97.7	97.7	8.2		10.9		13		81				<0.2		0.7	
						3.6	0.5	126	14.2		7.8		33.2		97.7		8.2		10.8		14		81				<0.2		0.7	
					Bottom	6.1	0.5	138	14.3	14.3	7.8	7.8	33.3	33.3	98.4	98.4	8.2	8.2	17.8		15		82				<0.2		0.9	
						6.1	0.5	144	14.3		7.8		33.3		98.4		8.2		17.5		14		81				<0.2		0.8	
IM6	Cloudy	Rough	08:09	7.2	Surface	1.0	0.5	116	14.2	14.2	7.8	7.8	33.1	33.1	97.4	97.4	8.1	8.1	9.7	18.0	11	17	82	84	821058	805827	<0.2	<0.2	0.8	0.8
						1.0	0.6	120	14.2		7.8		33.1		97.4		8.1		9.8		12		83				<0.2		0.8	
					Middle	3.6	0.5	121	14.2	14.2	7.8	7.8	33.1	33.1	97.3	97.3	8.1		11.1		13		83				<0.2		0.7	
						3.6	0.5	131	14.2		7.8		33.1		97.3		8.1		11.1		13		84				<0.2		0.8	
					Bottom	6.2	0.5	116	14.2	14.2	7.8	7.8	33.3	33.3	97.7	97.7	8.2	8.2	33.2		28		84				<0.2		0.8	
						6.2	0.5	120	14.2		7.8		33.3		97.6		8.2		33.1		27		85				<0.2		0.8	
IM7	Cloudy	Rough	08:17	8.6	Surface	1.0	0.7	112	14.5	14.5	7.8	7.8	32.8	32.8	96.9	96.9	8.1	8.1	13.1	17.0	14	15	83	84	821359	806829	<0.2	<0.2	0.9	0.8
						1.0	0.8	122	14.5		7.8		32.8		96.9		8.1		13.1		14		83				<0.2		0.8	
					Middle	4.3	0.7	124	14.5	14.5	7.8	7.8	32.7	32.7	97.4	97.4	8.1		15.7		15		84				<0.2		0.8	
						4.3	0.7	131	14.5		7.8		32.7		97.4		8.1		15.9		15		84				<0.2		0.8	
					Bottom	7.6	0.7	101	14.5	14.5	7.8	7.8	32.9	32.9	99.1	99.1	8.3	8.3	22.1		17		85				<0.2		0.9	
						7.6	0.7	102	14.5		7.8		32.9		99.1		8.3		22.1		17		85				<0.2		0.7	
IM8	Rainy	Moderate	07:47	8.4	Surface	1.0	0.7	144	17.5	17.5	8.0	8.0	28.8	28.8	96.7	96.7	7.8	7.8	15.0	18.0	11	15	77	81	821677	807845	<0.2	<0.2	0.9	1.1
						1.0	0.7	154	17.5		8.0		28.8		96.7		7.8		15.0		12		77				<0.2		1.0	
					Middle	4.2	0.8	140	17.5	17.5	8.0	8.0	28.8	28.8	96.9	96.9	7.8		19.8		14		82				<0.2		1.1	
						4.2	0.9	141	17.5		8.0		28.8		96.9		7.8		19.8		13		82				<0.2		1.0	
					Bottom	7.4	0.7	174	17.5	17.5	8.0	8.0	28.8	28.8	98.6	98.6	7.9	7.9	19.2		20		84				<0.2		1.1	
						7.4	0.7	174	17.5		8.0		28.8		98.6		7.9		19.2		19		84				<0.2		1.2	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 26 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Rainy	Moderate	07:38	7.3	Surface	1.0	0.6	159	17.6	17.6	8.0	8.0	28.4	28.4	97.2	97.2	7.8	7.9	6.2	7.7	6	6	77	81	822110	808827	<0.2	<0.2	1.2	1.4
						1.0	0.6	171	17.6		8.0		28.4		97.2		7.8		6.2		5		78				<0.2		1.4	
					Middle	3.7	0.6	165	17.6	17.6	8.0	8.0	28.5	28.5	98.5	98.5	7.9		8.0		6		82				<0.2		1.4	
						3.7	0.7	175	17.6		8.0		28.5		98.5		7.9		8.0		5		83				<0.2		1.4	
					Bottom	6.3	0.6	169	17.7	17.7	8.0	8.0	28.6	28.6	100.5	100.5	8.1	8.1	9.0		8		83				<0.2		1.5	
						6.3	0.6	179	17.7		8.0		28.6		100.5		8.1		9.0		7		83				<0.2		1.6	
IM10	Rainy	Moderate	07:29	8.2	Surface	1.0	0.7	232	17.4	17.4	8.0	8.0	28.8	28.8	96.8	96.8	7.8	7.8	10.2	12.1	7	9	77	81	822240	809853	<0.2	<0.2	1.2	1.2
						1.0	0.7	239	17.4		8.0		28.8		96.8		7.8		10.2		9		78				<0.2		1.2	
					Middle	4.1	0.7	223	17.5	17.5	8.0	8.0	28.8	28.8	97.0	97.0	7.8		12.5		8		83				<0.2		1.2	
						4.1	0.7	226	17.5		8.0		28.8		97.0		7.8		12.5		7		83				<0.2		1.1	
					Bottom	7.2	0.6	221	17.5	17.5	8.0	8.0	28.8	28.8	97.4	97.4	7.8	7.8	13.6		12		84				<0.2		1.2	
						7.2	0.6	228	17.5		8.0		28.8		97.4		7.8		13.6		12		83				<0.2		1.2	
IM11	Rainy	Moderate	07:20	8.3	Surface	1.0	0.5	232	17.5	17.5	8.0	8.0	28.8	28.8	97.9	97.9	7.9	8.0	8.6	9.3	9	11	78	82	821491	810528	<0.2	<0.2	0.9	1.0
						1.0	0.5	234	17.5		8.0		28.8		97.9		7.9		8.6		10		78				<0.2		0.9	
					Middle	4.2	0.4	244	17.5	17.5	8.0	8.0	28.8	28.8	99.2	99.3	8.0		9.3		12		83				<0.2		1.0	
						4.2	0.5	261	17.5		8.0		28.8		99.3		8.0		9.4		12		83				<0.2		1.0	
					Bottom	7.3	0.5	240	17.5	17.5	8.0	8.0	28.8	28.8	103.1	103.2	8.3	8.3	10.0		11		84				<0.2		1.0	
						7.3	0.5	254	17.5		8.0		28.8		103.3		8.3		9.9		11		84				<0.2		0.9	
IM12	Rainy	Moderate	07:12	9.1	Surface	1.0	0.5	229	17.6	17.6	8.0	8.0	28.8	28.8	96.7	96.7	7.8	7.9	10.3	10.9	10	11	80	82	821150	811501	<0.2	<0.2	0.9	1.0
						1.0	0.5	237	17.6		8.0		28.8		96.7		7.8		10.3		11		79				<0.2		1.0	
					Middle	4.6	0.5	232	17.6	17.6	8.0	8.0	28.8	28.8	97.7	97.7	7.9		11.4		10		83				<0.2		1.0	
						4.6	0.5	243	17.6		8.0		28.8		97.7		7.9		11.4		10		82				<0.2		1.2	
					Bottom	8.1	0.4	215	17.6	17.6	8.0	8.0	28.8	28.8	101.0	101.1	8.1	8.1	11.2		12		84				<0.2		1.1	
						8.1	0.4	230	17.6		8.0		28.8		101.1		8.1		10.9		14		84				<0.2		1.0	
SR2	Fine	Moderate	06:49	4.3	Surface	1.0	0.5	250	17.6	17.6	8.0	8.0	29.1	29.1	98.4	98.4	7.9	7.9	11.0	11.2	10	11	81	83	821457	814166	<0.2	<0.2	0.9	0.9
						1.0	0.5	268	17.6		8.0		29.1		98.4		7.9		11.0		10		81				<0.2		0.8	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.5	235	17.7	17.7	8.0	8.0	29.1	29.1	102.3	102.3	8.2	8.2	11.4		12		85				<0.2		0.9	
						3.3	0.5	242	17.7		8.0		29.1		102.3		8.2		11.4		12		85				<0.2		1.0	
SR3	Rainy	Moderate	07:53	9.0	Surface	1.0	0.7	74	17.5	17.5	8.0	8.0	28.7	28.7	97.9	98.0	7.9	8.0	9.7	11.4	9	11	-	-	822153	807580	-	-	-	-
						1.0	0.8	77	17.5		8.0		28.7		98.0		7.9		9.7		8		-				-		-	
					Middle	4.5	0.7	110	17.5	17.5	8.0	8.0	28.8	28.8	99.5	99.6	8.0		12.2		11		-				-		-	
						4.5	0.7	120	17.5		8.0		28.8		99.6		8.0		12.2		11		-				-		-	
					Bottom	8.0	0.6	147	17.4	17.4	8.0	8.0	28.9	28.9	102.2	102.2	8.2	8.2	12.3		12		-				-		-	
						8.0	0.7	155	17.4		8.0		28.9		102.2		8.2		12.3		12		-				-		-	
SR4A	Fine	Moderate	06:42	8.2	Surface	1.0	0.3	184	14.5	14.5	7.8	7.8	31.1	31.1	94.1	94.1	7.9	8.0	9.3	10.1	10	12	-	-	817197	807803	-	-	-	-
						1.0	0.3	200	14.5		7.8		31.1		94.1		7.9		9.2		10		-				-		-	
					Middle	4.1	0.3	162	14.5	14.5	7.8	7.8	31.1	31.1	94.5	94.5	8.0		8.9		11		-				-		-	
						4.1	0.3	165	14.5		7.8		31.1		94.5		8.0		9.0		11		-				-		-	
					Bottom	7.2	0.3	141	14.4	14.4	7.8	7.8	31.4	31.4	95.7	95.8	8.1	8.1	11.9		14		-				-		-	
						7.2	0.3	141	14.4		7.8		31.4		95.8		8.1		12.0		15		-				-		-	
SR5A	Fine	Calm	06:24	4.6	Surface	1.0	0.2	252	14.8	14.8	7.8	7.8	30.1	30.1	93.0	93.0	7.8	7.8	15.1	14.6	15	15	-	-	816583	810696	-	-	-	-
						1.0	0.2	272	14.8		7.8		30.1		92.9		7.8		14.8		15		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	203	14.7	14.7	7.7	7.7	30.0	30.0	95.5	95.5	8.1	8.1	14.2		15		-				-		-	
						3.6	0.2	220	14.7		7.7		30.0		95.5		8.1		14.2		16		-				-		-	
SR6	Fine	Calm	06:01	4.3	Surface	1.0	0.2	186	14.4	14.4	7.9	7.9	28.0	28.0	98.8	98.9	8.5	8.5	4.7	5.2	8	7	-	-	817913	814674	-	-	-	-
						1.0	0.2	200	14.4		7.9		28.0		98.9		8.5		4.7		7		-				-		-	
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	189	14.5	14.5	7.8	7.8	27.5	27.1	104.2	105.7	9.0	9.2	5.7		7		-				-		-	
						3.3	0.2	198	14.5		7.8		26.7		107.2		9.3		5.6		6		-				-		-	
SR7	Fine	Moderate	05:54	15.2	Surface	1.0	0.3	188	17.5	17.5	8.0	8.0	29.8	29.8	95.9	95.9	7.7	7.7	4.7	5.7	5	6	-	-	823645	823744	-	-	-	-
						1.0	0.3	189	17.5		8.0		29.8		95.9		7.7		4.7		5		-				-		-	
					Middle	7.6	0.3	110	17.6	17.6	8.0	8.0	30.4	30.4	97.2	97.2	7.7		6.0		6		-				-		-	
						7.6	0.3	114	17.6		8.0		30.4		97.2		7.7		6.1		6		-				-		-	
					Bottom	14.2	0.3	106	17.5	17.5	8.0	8.0	30.4	30.4	100.6	100.7	8.0	8.0	6.3		6		-				-		-	
						14.2	0.3	111	17.5		8.0		30.4		100.8		8.0		6.4		7		-				-		-	
SR8	Cloudy	Moderate	07:04	5.5	Surface	1.0	0.4	132	17.5	17.5	8.0	8.0	28.7	28.7	101.3	101.4	8.2	8.2	6.6	6.8	6	6	-	-	820417	811593	-	-	-	-
						1.0	0.4	141	17.5		8.0		28.7		101.4		8.2		6.6		5		-				-		-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.4	178	17.6	17.6	8.0	8.0	28.8	28.8	104.7	104.7	8.4	8.4	7.0		8		-				-		-	
						4.5	0.4	179	17.6		8.0		28.8		104.7		8.4		7.0		6		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 26 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Cloudy	Moderate	12:36	8.8	Surface	1.0	0.7	197	14.2	14.2	7.8	7.8	34.3	34.3	99.2	99.3	8.2	8.3	7.4	8.0	7	8	83	84	815630	804235	<0.2	<0.2	0.5	0.6
						1.0	0.8	213	14.2		7.8		34.3		99.3		8.2		7.5		8		84				<0.2		0.6	
					Middle	4.4	0.7	201	14.2	14.2	7.8	7.8	34.3	34.3	99.6	99.7	8.3		7.9		7		84				<0.2		0.6	
						4.4	0.7	214	14.2		7.8		34.3		99.7		8.3		8.0		9		84				<0.2		0.6	
					Bottom	7.8	0.7	218	14.3	14.3	7.8	7.8	34.4	34.4	100.8	100.8	8.4	8.4	8.5		8		85				<0.2		0.7	
						7.8	0.7	235	14.3		7.8		34.4		100.8		8.4		8.4		9		85				<0.2		0.6	
C2	Cloudy	Moderate	11:28	12.7	Surface	1.0	0.6	137	17.7	17.7	8.0	8.0	28.1	28.1	95.2	95.2	7.7	7.7	9.1	10.3	8	8	76	81	825676	806957	<0.2	<0.2	1.8	1.6
						1.0	0.6	145	17.7		8.0		28.1		95.2		7.7		9.2		8		76				<0.2		1.6	
					Middle	6.4	0.6	219	17.7	17.7	8.0	8.0	28.4	28.4	95.3	95.3	7.7		10.4		9		83				<0.2		1.6	
						6.4	0.7	237	17.7		8.0		28.4		95.3		7.7		10.4		8		83				<0.2		1.6	
					Bottom	11.7	0.6	252	17.6	17.6	8.0	8.0	29.0	29.0	94.8	94.8	7.6	7.6	11.4		7		83				<0.2		1.5	
						11.7	0.6	265	17.6		8.0		29.0		94.8		7.6		11.4		7		83				<0.2		1.7	
C3	Cloudy	Moderate	13:17	12.4	Surface	1.0	0.4	90	17.5	17.5	8.0	8.0	29.9	29.9	97.0	97.0	7.8	7.8	4.0	4.0	4	4	79	83	822119	817817	<0.2	<0.2	0.8	0.8
						1.0	0.4	90	17.5		8.0		29.9		97.0		7.8		4.0		4		79				<0.2		0.8	
					Middle	6.2	0.3	74	17.6	17.6	8.0	8.0	30.0	30.0	97.6	97.6	7.8		3.9		4		83				<0.2		0.7	
						6.2	0.4	75	17.6		8.0		30.0		97.6		7.8		3.9		5		83				<0.2		0.8	
					Bottom	11.4	0.2	96	17.5	17.5	8.0	8.0	30.2	30.2	99.9	99.9	8.0	8.0	4.1		4		86				<0.2		0.9	
						11.4	0.2	103	17.5		8.0		30.2		99.9		8.0		4.1		5		85				<0.2		0.7	
IM1	Cloudy	Moderate	12:17	7.4	Surface	1.0	0.6	184	14.3	14.3	7.8	7.8	33.1	33.1	97.2	97.3	8.1	8.2	6.1	7.5	7	8	82	83	818337	806460	<0.2	<0.2	0.9	0.8
						1.0	0.6	202	14.3		7.8		33.1		97.3		8.1		6.1		7		83				<0.2		0.8	
					Middle	3.7	0.5	184	14.4	14.4	7.8	7.8	33.1	33.1	97.8	97.8	8.2		7.1		6		83				<0.2		0.9	
						3.7	0.6	188	14.4		7.8		33.1		97.8		8.2		7.1		7		84				<0.2		0.8	
					Bottom	6.4	0.7	162	14.4	14.4	7.8	7.8	33.8	33.8	99.1	99.1	8.2	8.2	9.2		11		84				<0.2		0.9	
						6.4	0.8	169	14.4		7.8		33.8		99.1		8.2		9.3		9		84				<0.2		0.7	
IM2	Cloudy	Moderate	12:11	8.3	Surface	1.0	0.5	216	14.4	14.4	7.8	7.8	32.8	32.8	97.1	97.2	8.1	8.2	5.4	6.6	6	6	80	81	818837	806201	<0.2	<0.2	1.0	0.9
						1.0	0.5	234	14.4		7.8		32.8		97.2		8.1		5.4		5		80				<0.2		1.0	
					Middle	4.2	0.4	184	14.5	14.5	7.8	7.8	32.8	32.8	97.8	97.8	8.2		6.3		6		81				<0.2		1.0	
						4.2	0.4	198	14.5		7.8		32.8		97.8		8.2		6.4		6		81				<0.2		0.9	
					Bottom	7.3	0.4	141	14.4	14.4	7.8	7.8	33.6	33.6	99.7	99.8	8.3	8.3	7.9		8		82				<0.2		0.9	
						7.3	0.4	151	14.4		7.8		33.6		99.8		8.3		7.9		7		81				<0.2		0.8	
IM3	Cloudy	Moderate	12:03	8.4	Surface	1.0	0.5	212	14.4	14.4	7.8	7.8	33.1	33.1	96.9	96.9	8.1	8.1	6.3	9.2	7	9	81	82	819406	806021	<0.2	<0.2	1.0	0.8
						1.0	0.5	214	14.4		7.8		33.1		96.9		8.1		6.4		8		81				<0.2		0.9	
					Middle	4.2	0.5	165	14.4	14.4	7.8	7.8	33.3	33.3	97.2	97.2	8.1		8.2		9		82				<0.2		0.7	
						4.2	0.5	181	14.4		7.8		33.3		97.1		8.1		8.1		10		82				<0.2		0.9	
					Bottom	7.4	0.4	165	14.4	14.4	7.8	7.8	33.6	33.6	97.7	97.7	8.1	8.1	13.2		9		82				<0.2		0.6	
						7.4	0.5	170	14.4		7.8		33.6		97.7		8.1		13.2		8		84				<0.2		0.6	
IM4	Cloudy	Moderate	11:55	8.0	Surface	1.0	0.6	167	14.4	14.4	7.8	7.8	33.4	33.4	98.0	98.0	8.2	8.2	8.2	10.3	8	10	81	82	819574	805057	<0.2	<0.2	0.7	0.7
						1.0	0.7	178	14.4		7.8		33.4		98.0		8.2		8.2		8		81				<0.2		0.8	
					Middle	4.0	0.6	184	14.4	14.4	7.8	7.8	33.5	33.5	98.9	98.9	8.2		11.3		9		82				<0.2		0.8	
						4.0	0.6	201	14.4		7.8		33.5		98.9		8.2		11.3		9		82				<0.2		0.7	
					Bottom	7.0	0.7	173	14.4	14.4	7.8	7.8	33.4	33.4	99.8	99.8	8.3	8.3	11.6		14		82				<0.2		0.6	
						7.0	0.8	182	14.4		7.8		33.4		99.8		8.3		11.4		14		82				<0.2		0.8	
IM5	Cloudy	Moderate	11:47	6.9	Surface	1.0	0.6	167	14.2	14.2	7.8	7.8	33.2	33.2	98.0	98.1	8.2	8.2	7.1	8.3	8	9	80	81	820564	804909	<0.2	<0.2	0.8	0.8
						1.0	0.7	170	14.2		7.8		33.2		98.1		8.2		7.2		9		80				<0.2		0.6	
					Middle	3.5	0.6	158	14.3	14.3	7.8	7.8	33.3	33.3	98.6	98.6	8.2		8.6		7		81				<0.2		0.9	
						3.5	0.6	170	14.3		7.8		33.3		98.6		8.2		8.6		9		81				<0.2		0.8	
					Bottom	5.9	0.7	161	14.3	14.3	7.8	7.8	33.4	33.4	99.5	99.5	8.3	8.3	9.2		9		82				<0.2		1.0	
						5.9	0.7	168	14.3		7.8		33.4		99.5		8.3		9.2		11		82				<0.2		0.8	
IM6	Cloudy	Moderate	11:38	7.0	Surface	1.0	0.7	162	14.3	14.3	7.8	7.8	33.5	33.5	97.5	97.5	8.1	8.2	12.1	13.7	12	12	80	81	821061	805822	<0.2	<0.2	0.9	0.8
						1.0	0.7	168	14.3		7.8		33.5		97.5		8.1		12.1		12		81				<0.2		0.8	
					Middle	3.5	0.6	147	14.3	14.3	7.8	7.8	33.5	33.5	97.8	97.8	8.2		12.2		11		81				<0.2		0.7	
						3.5	0.7	158	14.3		7.8		33.5		97.8		8.2		12.3		12		81				<0.2		0.8	
					Bottom	6.0	0.6	154	14.3	14.3	7.8	7.8	33.5	33.5	98.6	98.7	8.2	8.2	16.6		12		82				<0.2		0.8	
						6.0	0.7	169	14.3		7.8		33.5		98.7		8.2		16.6		14		82				<0.2		0.8	
IM7	Cloudy	Moderate	11:28	8.2	Surface	1.0	0.5	115	14.4	14.4	7.8	7.8	32.9	32.9	97.6	97.7	8.2	8.2	9.9	12.4	10	17	82	84	821341	806826	<0.2	<0.2	0.9	0.9
						1.0	0.5	122	14.4		7.8		32.9		97.7		8.2		10.0		10		83				<0.2		1.0	
					Middle	4.1	0.5	110	14.4	14.4	7.8	7.8	33.0	33.0	98.1	98.1	8.2		11.6		10		84				<0.2		1.0	
						4.1	0.5	111	14.4		7.8		33.0		98.1		8.2		11.8		12		84				<0.2		0.9	
					Bottom	7.2	0.5	106	14.3	14.3	7.8	7.8	33.1	33.1	99.4	99.5	8.3	8.3	15.4		31		84				<0.2		0.9	
						7.2	0.5	109	14.3		7.7		33.1		99.5		8.3		15.4		29		85				<0.2		0.9	
IM8	Rainy	Moderate	11:55	8.4	Surface	1.0	0.8	131	17.3	17.3	8.1	8.1	28.9	28.9	97.8	98.0	7.9	7.9	14.4	15.1	13	14	77	81	821678	807848	<0.2	<0.2	1.2	0.9
						1.0	0.9	142	17.3		8.1		28.9		98.1		7.9		14.9		14		77				<0.2		1.0	
					Middle	4.2	0.7	144	17.3	17.3	8.1	8.1	28.9	28.9	98.4	98.4	7.9		15.2		15		82				<0.2		0.8	
						4.2	0.8	146	17.3		8.1		28.9		98.4		7.9		15.2		13		82				<0.2		0.8	
					Bottom	7.4	0.7	149	17.3	17.3	8.0	8.0	29.0	29.0	99.8	99.9	8.1	8.1	15.5		15		83				<0.2		0.9	
						7.4	0.7	151	17.3		8.0		29.0		99.9		8.1		15.4		14		84				<0.2		0.9	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 26 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Rainy	Moderate	12:04	7.5	Surface	1.0	0.5	127	17.4	17.4	8.0	8.0	28.6	28.6	97.6	97.6	7.9	8.0	7.8	9.6	8	7	77	81	822113	808791	<0.2	<0.2	1.0	1.0
						1.0	0.5	129	17.4		8.0		28.6		97.6		7.9		7.8		7		78				<0.2		1.0	
					Middle	3.8	0.6	124	17.4	17.4	8.0	8.0	28.6	28.6	98.9	99.0	8.0		9.8		7		82				<0.2		1.0	
						3.8	0.6	125	17.4		8.0		28.6		99.0		8.0		9.9		8		83				<0.2		1.0	
					Bottom	6.5	0.6	112	17.4	17.4	8.0	8.0	28.8	28.8	101.9	102.0	8.2	8.2	11.2		7		84				<0.2		1.2	
						6.5	0.6	119	17.4		8.0		28.8		102.0		8.2		11.2		7		84				<0.2		1.0	
IM10	Rainy	Moderate	12:14	8.2	Surface	1.0	0.7	127	17.5	17.5	8.0	8.0	28.6	28.6	97.5	97.5	7.9	7.9	6.0	6.4	4	6	78	82	822225	809820	<0.2	<0.2	1.1	1.2
						1.0	0.8	135	17.5		8.0		28.6		97.5		7.9		6.0		4		78				<0.2		0.9	
					Middle	4.1	0.6	136	17.5	17.5	8.0	8.0	28.6	28.7	98.1	98.1	7.9		6.5		6		83				<0.2		1.1	
						4.1	0.7	136	17.5		8.0		28.7		98.1		7.9		6.5		8		82				<0.2		1.2	
					Bottom	7.2	0.8	151	17.4	17.4	8.0	8.0	28.8	28.8	99.6	99.6	8.0	8.0	6.6		7		84				<0.2		1.4	
						7.2	0.9	158	17.4		8.0		28.8		99.6		8.0		6.6		7		84				<0.2		1.2	
IM11	Rainy	Moderate	12:21	8.2	Surface	1.0	0.7	130	17.5	17.5	8.0	8.0	28.8	28.8	97.5	97.6	7.9	7.9	7.1	9.7	6	7	78	81	821505	810555	<0.2	<0.2	0.9	1.1
						1.0	0.8	131	17.5		8.0		28.8		97.6		7.9		7.1		4		78				<0.2		1.1	
					Middle	4.1	0.6	129	17.5	17.5	8.0	8.0	28.8	28.8	98.5	98.6	7.9		7.7		6		83				<0.2		1.1	
						4.1	0.6	137	17.5		8.0		28.8		98.6		7.9		7.7		7		82				<0.2		0.9	
					Bottom	7.2	0.7	130	17.5	17.5	8.0	8.0	28.9	28.9	101.0	101.0	8.1	8.1	14.3		8		84				<0.2		1.2	
						7.2	0.7	132	17.5		8.0		28.9		101.0		8.1		14.3		8		83				<0.2		1.1	
IM12	Rainy	Moderate	12:30	8.0	Surface	1.0	0.7	113	17.5	17.5	8.0	8.0	28.8	28.8	96.8	96.8	7.8	7.8	7.6	8.4	9	10	77	82	821160	811518	<0.2	<0.2	1.0	1.1
						1.0	0.7	113	17.5		8.0		28.8		96.8		7.8		7.7		9		78				<0.2		1.0	
					Middle	4.0	0.7	124	17.5	17.5	8.0	8.0	28.9	28.9	97.5	97.5	7.8		8.3		10		83				<0.2		1.2	
						4.0	0.7	124	17.5		8.0		28.9		97.5		7.8		8.3		10		83				<0.2		1.0	
					Bottom	7.0	0.6	115	17.6	17.6	8.0	8.0	29.1	29.1	99.7	99.7	8.0	8.0	9.1		9		84				<0.2		1.1	
						7.0	0.7	118	17.6		8.0		29.1		99.7		8.0		9.1		11		84				<0.2		1.1	
SR2	Rainy	Moderate	12:54	4.9	Surface	1.0	0.4	82	17.6	17.6	8.0	8.0	28.9	28.9	97.8	97.8	7.8	7.9	6.5	6.7	9	8	80	82	821476	814169	<0.2	<0.2	1.1	1.1
						1.0	0.4	83	17.6		8.0		28.9		97.8		7.9		6.5		8		79				<0.2		1.1	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.4	107	17.6	17.6	8.0	8.0	29.2	29.2	100.2	100.2	8.0	8.0	6.9		8		85				<0.2		1.0	
						3.9	0.4	114	17.6		8.0		29.2		100.2		8.0		6.9		7		85				<0.2		1.0	
SR3	Cloudy	Moderate	11:49	9.0	Surface	1.0	0.7	129	17.3	17.3	8.0	8.0	28.9	28.9	97.8	97.8	7.9	7.9	15.9	16.5	12	12	-	-	822143	807588	-	-	-	-
						1.0	0.8	137	17.3		8.0		28.9		97.8		7.9		15.9		10		-				-		-	
					Middle	4.5	0.8	113	17.3	17.3	8.0	8.0	28.9	28.9	97.9	97.9	7.9		17.7		14		-				-		-	
						4.5	0.8	113	17.3		8.0		28.9		97.9		7.9		17.7		14		-				-		-	
					Bottom	8.0	0.7	115	17.3	17.3	8.0	8.0	28.9	28.9	98.6	98.6	8.0	8.0	16.0		12		-				-		-	
						8.0	0.7	125	17.3		8.0		28.9		98.6		8.0		16.0		12		-				-		-	
SR4A	Cloudy	Moderate	13:01	7.9	Surface	1.0	0.3	118	14.3	14.3	7.8	7.8	33.0	33.0	97.0	97.0	8.1	8.1	12.5	12.4	14	15	-	-	817199	807799	-	-	-	-
						1.0	0.3	120	14.3		7.8		33.0		97.0		8.1		12.6		15		-				-		-	
					Middle	4.0	0.3	114	14.3	14.3	7.8	7.8	33.1	33.1	97.6	97.6	8.1		12.1		14		-				-		-	
						4.0	0.3	115	14.3		7.8		33.1		97.6		8.1		12.1		15		-				-		-	
					Bottom	6.9	0.3	124	14.4	14.4	7.8	7.8	33.1	33.1	99.1	99.1	8.3	8.3	12.4		15		-				-		-	
						6.9	0.3	133	14.4		7.8		33.1		99.1		8.3		12.4		14		-				-		-	
SR5A	Cloudy	Calm	13:20	4.6	Surface	1.0	0.2	251	14.8	14.8	7.7	7.7	31.7	31.7	94.9	94.9	7.9	7.9	12.3	12.9	10	10	-	-	816596	810679	-	-	-	-
						1.0	0.2	255	14.8		7.7		31.7		94.9		7.9		12.2		11		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	230	14.7	14.7	7.7	7.7	31.6	31.6	99.3	99.3	8.3	8.3	13.7		10		-				-		-	
						3.6	0.1	236	14.7		7.7		31.6		99.3		8.3		13.5		10		-				-		-	
SR6	Cloudy	Calm	13:46	4.1	Surface	1.0	0.2	135	14.7	14.7	7.8	7.8	31.4	31.4	94.0	94.1	7.9	7.9	8.1	9.4	7	7	-	-	817908	814681	-	-	-	-
						1.0	0.2	148	14.7		7.8		31.4		94.1		7.9		8.3		5		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	147	14.9	14.9	7.7	7.7	31.7	31.7	95.1	95.1	7.9	7.9	10.5		7		-				-		-	
						3.1	0.2	159	14.9		7.7		31.7		95.1		7.9		10.5		7		-				-		-	
SR7	Cloudy	Moderate	13:49	15.4	Surface	1.0	0.3	76	17.5	17.5	8.0	8.0	30.3	30.3	96.4	96.4	7.7	7.7	4.0	4.4	4	5	-	-	823623	823723	-	-	-	-
						1.0	0.3	79	17.5		8.0		30.3		96.4		7.7		4.0		4		-				-		-	
					Middle	7.7	0.2	88	17.5	17.5	8.0	8.0	30.3	30.3	96.7	96.7	7.7		4.2		4		-				-		-	
						7.7	0.3	93	17.5		8.0		30.3		96.7		7.7		4.2		6		-				-		-	
					Bottom	14.4	0.2	174	17.5	17.5	8.0	8.0	30.4	30.4	98.0	98.0	7.8	7.8	4.9		4		-				-		-	
						14.4	0.2	189	17.5		8.0		30.4		98.0		7.8		4.9		5		-				-		-	
SR8	Rainy	Moderate	12:38	5.2	Surface	1.0	0.5	171	17.6	17.6	8.0	8.0	28.8	28.8	98.1	98.1	7.9	7.9	12.1	12.8	11	12	-	-	820424	811604	-	-	-	-
						1.0	0.5	176	17.6		8.0		28.8		98.1		7.9		12.1		12		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.5	172	17.6	17.6	8.0	8.0	28.9	28.9	101.1	101.1	8.1	8.1	13.4		12		-				-		-	
						4.2	0.5	177	17.6		8.0		28.9		101.1		8.1		13.4		11		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 28 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Fine	Moderate	07:53	8.7	Surface	1.0	0.8	69	14.3	14.3	7.9	7.9	33.3	33.3	98.4	98.4	8.2	8.2	16.0	19.8	19	21	87	90	815626	804259	<0.2	<0.2	0.8	0.8
						1.0	0.8	71	14.3		7.9		33.3		98.4		8.2		16.0		20		88				<0.2		0.7	
					Middle	4.4	0.7	60	14.3	14.3	7.9	7.9	33.2	33.2	98.1	98.1	8.2		18.1		21		90				<0.2		0.7	
						4.4	0.8	63	14.3		7.9		33.2		98.1		8.2		18.1		22		89				<0.2		0.7	
					Bottom	7.7	0.7	71	14.2	14.2	7.9	7.9	33.4	33.4	97.8	97.8	8.2		25.2		22		93				<0.2		0.8	
						7.7	0.7	75	14.2		7.9		33.4		97.8		8.2		25.2		22		94				<0.2		0.8	
C2	Sunny	Moderate	09:10	12.6	Surface	1.0	0.4	269	17.6	17.6	7.9	7.9	28.6	28.6	94.1	94.1	7.6	7.6	10.2	14.8	8	11	85	90	825686	806933	<0.2	<0.2	1.8	1.4
						1.0	0.4	271	17.6		7.9		28.6		94.1		7.6		10.3		9		86				<0.2		1.6	
					Middle	6.3	0.3	146	17.4	17.4	7.9	7.9	28.7	28.7	93.6	93.6	7.6		14.0		12		91				<0.2		1.3	
						6.3	0.3	160	17.4		7.9		28.7		93.6		7.6		14.0		11		92				<0.2		1.1	
					Bottom	11.6	0.3	73	17.3	17.3	7.9	7.9	29.0	29.0	93.4	93.4	7.5	7.5	20.2		14		93				<0.2		1.3	
						11.6	0.3	78	17.3		7.9		29.0		93.4		7.5		20.2		14		94				<0.2		1.4	
C3	Cloudy	Moderate	07:15	11.5	Surface	1.0	0.6	269	17.2	17.2	8.0	8.0	30.3	30.3	95.4	95.4	7.6	7.6	10.2	14.4	15	17	89	92	822115	817810	<0.2	<0.2	0.8	0.9
						1.0	0.6	275	17.2		8.0		30.3		95.4		7.6		10.2		15		89				<0.2		1.0	
					Middle	5.8	0.5	270	17.2	17.2	8.0	8.0	30.3	30.3	95.1	95.1	7.6		14.1		14		93				<0.2		0.8	
						5.8	0.6	280	17.2		8.0		30.3		95.1		7.6		14.1		16		93				<0.2		0.8	
					Bottom	10.5	0.5	272	17.2	17.2	8.0	8.0	30.3	30.3	95.2	95.2	7.6	7.6	19.0		21		95				<0.2		1.1	
						10.5	0.5	275	17.2		8.0		30.3		95.2		7.6		19.0		22		95				<0.2		1.1	
IM1	Fine	Moderate	08:10	7.6	Surface	1.0	0.6	166	14.3	14.3	7.9	7.9	33.6	33.6	97.3	97.3	8.1	8.1	14.9	19.8	16	18	87	89	818357	806445	<0.2	<0.2	0.7	0.6
						1.0	0.6	176	14.3		7.9		33.6		97.3		8.1		15.0		16		87				<0.2		0.7	
					Middle	3.8	0.5	214	14.3	14.3	7.9	7.9	33.5	33.5	97.1	97.1	8.1		21.9		20		90				<0.2		0.5	
						3.8	0.5	222	14.3		7.9		33.5		97.1		8.1		21.9		18		89				<0.2		0.6	
					Bottom	6.6	0.4	191	14.3	14.3	7.9	7.9	33.5	33.5	97.1	97.1	8.1	8.1	22.6		19		90				<0.2		0.6	
						6.6	0.5	196	14.3		7.9		33.5		97.1		8.1		22.6		18		92				<0.2		0.7	
IM2	Fine	Moderate	08:19	8.7	Surface	1.0	0.6	95	14.5	14.5	8.0	8.0	33.7	33.7	97.6	97.6	8.1	8.1	20.0	21.8	23	23	87	90	818842	806175	<0.2	<0.2	0.5	0.6
						1.0	0.7	103	14.5		8.0		33.7		97.6		8.1		20.3		24		88				<0.2		0.5	
					Middle	4.4	0.6	100	14.4	14.4	7.9	7.9	33.8	33.8	97.9	97.9	8.1		21.7		23		90				<0.2		0.6	
						4.4	0.6	104	14.4		7.9		33.8		97.9		8.1		21.7		23		91				<0.2		0.7	
					Bottom	7.7	0.5	108	14.3	14.3	7.9	7.9	33.7	33.7	97.6	97.6	8.1	8.1	23.5		21		93				<0.2		0.6	
						7.7	0.5	109	14.3		7.9		33.7		97.6		8.1		23.5		23		92				<0.2		0.8	
IM3	Fine	Moderate	08:29	8.9	Surface	1.0	0.6	94	14.5	14.5	8.0	8.0	33.7	33.7	97.9	97.9	8.1	8.1	19.2	20.6	22	23	85	90	819414	806028	<0.2	<0.2	1.0	1.2
						1.0	0.6	101	14.5		8.0		33.7		97.9		8.1		19.3		24		87				<0.2		0.9	
					Middle	4.5	0.6	135	14.5	14.5	8.0	8.0	33.7	33.7	97.8	97.8	8.1		20.7		23		91				<0.2		1.0	
						4.5	0.6	143	14.5		8.0		33.7		97.8		8.1		20.7		24		90				<0.2		1.1	
					Bottom	7.9	0.6	95	14.5	14.5	7.9	7.9	33.7	33.7	97.9	97.9	8.1	8.1	21.7		24		93				<0.2		1.7	
						7.9	0.7	100	14.5		7.9		33.7		97.9		8.1		21.7		23		94				<0.2		1.7	
IM4	Fine	Moderate	08:34	8.4	Surface	1.0	0.5	123	14.5	14.5	7.9	7.9	33.8	33.8	98.2	98.2	8.1	8.1	18.2	20.7	21	24	86	90	819558	805046	<0.2	<0.2	0.6	0.6
						1.0	0.5	134	14.5		7.9		33.8		98.2		8.1		18.2		20		87				<0.2		0.7	
					Middle	4.2	0.5	110	14.4	14.5	7.9	7.9	33.8	33.8	98.0	98.0	8.1		20.0		23		90				<0.2		0.6	
						4.2	0.6	111	14.5		7.9		33.8		98.0		8.1		20.1		25		89				<0.2		0.6	
					Bottom	7.4	0.5	132	14.4	14.4	7.9	7.9	33.8	33.8	97.8	97.8	8.1	8.1	23.7		26		92				<0.2		0.6	
						7.4	0.5	141	14.4		7.9		33.8		97.8		8.1		23.7		27		94				<0.2		0.7	
IM5	Fine	Moderate	08:40	7.4	Surface	1.0	0.6	159	14.5	14.5	7.9	7.9	33.9	33.9	97.9	97.9	8.1	8.1	16.9	19.9	22	24	85	90	820544	804907	<0.2	<0.2	0.7	0.9
						1.0	0.6	168	14.5		7.9		33.9		97.9		8.1		16.9		22		87				<0.2		0.8	
					Middle	3.7	0.6	165	14.4	14.4	7.9	7.9	33.9	33.9	97.4	97.5	8.1		21.5		21		91				<0.2		1.0	
						3.7	0.6	174	14.4		7.9		33.9		97.5		8.1		21.4		21		90				<0.2		0.9	
					Bottom	6.4	0.5	169	14.4	14.4	7.9	7.9	33.9	33.9	97.6	97.6	8.1	8.1	21.2		30		93				<0.2		1.0	
						6.4	0.5	177	14.4		7.9		33.9		97.6		8.1		21.2		30		93				<0.2		0.9	
IM6	Fine	Moderate	08:48	7.2	Surface	1.0	0.8	103	14.7	14.7	7.9	7.9	33.2	33.2	96.3	96.3	8.0	8.0	18.2	19.7	23	22	88	90	821063	805815	<0.2	<0.2	1.3	1.2
						1.0	0.8	108	14.7		7.9		33.2		96.3		8.0		18.2		23		88				<0.2		1.2	
					Middle	3.6	0.8	93	14.6	14.6	7.9	7.9	33.2	33.2	96.2	96.2	8.0		20.3		22		91				<0.2		1.2	
						3.6	0.8	94	14.6		7.9		33.2		96.1		8.0		20.3		22		89				<0.2		1.2	
					Bottom	6.2	0.8	115	14.6	14.6	7.9	7.9	33.2	33.2	96.3	96.3	8.0	8.0	20.6		23		92				<0.2		1.1	
						6.2	0.9	122	14.6		7.9		33.2		96.3		8.0		20.6		21		93				<0.2		1.1	
IM7	Fine	Moderate	08:57	8.8	Surface	1.0	0.5	90	14.7	14.7	7.9	7.9	33.2	33.2	95.7	95.8	7.9	7.9	18.3	20.5	23	23	86	90	821358	806849	<0.2	<0.2	1.1	1.2
						1.0	0.5	96	14.7		7.9		33.2		95.8		7.9		18.3		22		88				<0.2		1.2	
					Middle	4.4	0.5	95	14.6	14.6	7.9	7.9	33.2	33.2	95.5	95.5	7.9		20.8		23		91				<0.2		1.3	
						4.4	0.5	99	14.6		7.9		33.2		95.5		7.9		21.1		24		89				<0.2		1.3	
					Bottom	7.8	0.4	92	14.6	14.6	7.9	7.9	33.3	33.3	95.6	95.6	7.9	7.9	22.2		23		92				<0.2		1.2	
						7.8	0.5	94	14.6		7.9		33.3		95.6		7.9		22.2		23		93				<0.2		1.1	
IM8	Sunny	Moderate	08:44	8.5	Surface	1.0	0.4	140	17.4	17.4	8.0	8.0	29.2	29.2	96.6	96.6	7.8	7.8	10.7	15.1	9	10	86	90	821694	807857	<0.2	<0.2	1.3	1.3
						1.0	0.4	146	17.4		8.0		29.2		96.6		7.8		10.8		8		86				<0.2		1.4	
					Middle	4.3	0.5	78	17.2	17.2	8.0	8.0	29.7	29.7	96.3	96.3	7.8		13.9		9		91				<0.2		1.3	
						4.3	0.6	81	17.2		8.0		29.7		96.3		7.8		13.9		11		92				<0.2		1.5	
					Bottom	7.5	0.5	67	17.1	17.1	8.0	8.0	29.9	29.9	96.6	96.6	7.8	7.8	20.7		11		94				<0.2		1.3	
						7.5	0.5	72	17.1		8.0		29.9		96.6		7.8		20.7		10		93				<0.2		1.2	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 28 February 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Sunny	Moderate	08:37	7.5	Surface	1.0	0.5	251	17.4	17.4	8.0	8.0	29.1	29.1	95.6	95.6	7.7	7.7	9.3	10.7	5	8	86	91	822076	808822	<0.2	<0.2	1.3	1.3
						1.0	0.5	252	17.4		8.0		29.1		95.6		7.7		9.3		7		87				<0.2		1.3	
					Middle	3.8	0.4	254	17.3	17.3	8.0	8.0	29.2	29.2	95.3	95.3	7.7		10.4		8		91				<0.2		1.3	
						3.8	0.5	275	17.3		8.0		29.2		95.3		7.7		10.4		10		92				<0.2		1.4	
					Bottom	6.5	0.4	244	17.3	17.3	8.0	8.0	29.4	29.4	95.0	95.0	7.7	7.7	12.3		9		93				<0.2		1.2	
						6.5	0.4	260	17.3		8.0		29.4		95.0		7.7		12.3		10		94				<0.2		1.1	
IM10	Sunny	Moderate	08:27	8.2	Surface	1.0	0.5	256	17.2	17.2	8.0	8.0	30.3	30.3	97.3	97.3	7.8	7.8	14.8	17.0	16	18	87	91	822231	809847	<0.2	<0.2	1.1	1.0
						1.0	0.5	281	17.2		8.0		30.3		97.2		7.8		14.8		17		87				<0.2		0.9	
					Middle	4.1	0.4	255	17.1	17.1	8.0	8.0	30.3	30.3	97.2	97.2	7.8		17.1		18		92				<0.2		1.0	
						4.1	0.4	279	17.1		8.0		30.3		97.2		7.8		17.1		20		91				<0.2		0.9	
					Bottom	7.2	0.4	244	17.1	17.1	8.0	8.0	30.3	30.3	97.1	97.1	7.8	7.8	19.0		18		94				<0.2		1.1	
						7.2	0.4	246	17.1		8.0		30.3		97.1		7.8		19.0		20		93				<0.2		0.9	
IM11	Sunny	Moderate	08:19	8.3	Surface	1.0	0.5	268	17.2	17.2	8.0	8.0	30.1	30.1	96.9	96.9	7.8	7.8	13.0	16.1	14	18	87	91	821497	810538	<0.2	<0.2	1.4	1.5
						1.0	0.5	289	17.2		8.0		30.1		96.9		7.8		13.0		13		87				<0.2		1.5	
					Middle	4.2	0.4	264	17.1	17.1	8.0	8.0	30.1	30.1	96.3	96.3	7.8		16.6		16		92				<0.2		1.6	
						4.2	0.4	272	17.1		8.0		30.1		96.3		7.8		16.6		17		91				<0.2		1.4	
					Bottom	7.3	0.4	233	17.1	17.1	8.0	8.0	30.2	30.2	96.2	96.2	7.7	7.7	18.8		24		94				<0.2		1.4	
						7.3	0.4	248	17.1		8.0		30.2		96.2		7.7		18.8		22		94				<0.2		1.4	
IM12	Sunny	Moderate	08:09	8.7	Surface	1.0	0.5	249	17.1	17.1	8.0	8.0	30.2	30.2	97.1	97.1	7.8	7.8	15.4	17.5	16	18	88	91	821155	811528	<0.2	<0.2	1.2	1.2
						1.0	0.5	266	17.1		8.0		30.2		97.1		7.8		15.4		16		87				<0.2		1.1	
					Middle	4.4	0.4	256	17.1	17.1	8.0	8.0	30.2	30.2	96.8	96.8	7.8		17.8		18		92				<0.2		1.3	
						4.4	0.5	279	17.1		8.0		30.2		96.8		7.8		17.8		17		92				<0.2		1.2	
					Bottom	7.7	0.4	246	17.1	17.1	8.0	8.0	30.2	30.2	97.0	97.0	7.8	7.8	19.4		20		95				<0.2		1.3	
						7.7	0.4	247	17.1		8.0		30.2		97.0		7.8		19.4		21		94				<0.2		1.2	
SR2	Cloudy	Moderate	07:36	4.6	Surface	1.0	0.2	239	17.1	17.1	8.0	8.0	30.2	30.2	97.2	97.2	7.8	7.8	12.3	13.1	12	13	89	92	821449	814148	<0.2	<0.2	1.0	1.2
						1.0	0.2	262	17.1		8.0		30.2		97.2		7.8		12.4		14		88				<0.2		1.1	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	209	17.1	17.1	8.0	8.0	30.3	30.3	97.4	97.4	7.8	7.8	13.8		13		95				<0.2		1.3	
						3.6	0.2	220	17.1		8.0		30.3		97.4		7.8		13.8		12		94				<0.2		1.5	
SR3	Sunny	Moderate	08:51	9.2	Surface	1.0	0.6	65	17.3	17.3	8.0	8.0	29.7	29.8	96.2	96.2	7.7	7.7	12.7	17.8	9	12	-	-	822132	807551	-	-	-	-
						1.0	0.6	65	17.3		8.0		29.8		96.1		7.7		12.9		10		-				-		-	
					Middle	4.6	0.5	71	17.1	17.1	8.0	8.0	29.9	29.9	95.7	95.7	7.7		16.6		11		-				-		-	
						4.6	0.5	75	17.1		8.0		29.9		95.7		7.7		16.6		11		-				-		-	
					Bottom	8.2	0.4	110	17.1	17.1	8.0	8.0	30.0	30.0	95.6	95.6	7.7	7.7	23.9		15		-				-		-	
						8.2	0.4	118	17.1		8.0		30.0		95.6		7.7		23.9		15		-				-		-	
SR4A	Cloudy	Calm	07:31	8.4	Surface	1.0	0.3	199	14.3	14.3	7.8	7.8	32.1	32.1	95.0	95.0	8.0	8.0	14.9	15.9	16	16	-	-	817180	807808	-	-	-	-
						1.0	0.3	209	14.3		7.8		32.1		95.0		8.0		14.8		16		-				-		-	
					Middle	4.2	0.3	138	14.3	14.3	7.8	7.8	32.2	32.2	95.1	95.1	8.0		16.3		16		-				-		-	
						4.2	0.3	145	14.3		7.8		32.2		95.1		8.0		16.2		14		-				-		-	
					Bottom	7.4	0.3	146	14.3	14.3	7.8	7.8	32.2	32.2	95.4	95.4	8.0	8.0	16.5		17		-				-		-	
						7.4	0.3	148	14.3		7.8		32.2		95.4		8.0		16.5		18		-				-		-	
SR5A	Cloudy	Calm	07:13	4.6	Surface	1.0	0.2	143	14.3	14.3	7.8	7.8	31.5	31.5	95.6	95.7	8.1	8.1	8.3	8.6	9	10	-	-	816593	810690	-	-	-	-
						1.0	0.2	151	14.3		7.8		31.5		95.7		8.1		8.3		10		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	137	14.3	14.3	7.8	7.8	31.6	31.6	96.2	96.2	8.1	8.1	8.8		10		-				-		-	
						3.6	0.3	147	14.3		7.8		31.6		96.2		8.1		8.8		10		-				-		-	
SR6	Cloudy	Calm	06:45	3.7	Surface	1.0	0.2	263	14.2	14.2	7.7	7.7	30.3	30.3	95.9	95.9	8.2	8.2	17.8	18.9	16	16	-	-	817909	814656	-	-	-	-
						1.0	0.2	266	14.2		7.7		30.3		95.9		8.2		17.8		17		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.2	237	14.1	14.1	7.7	7.7	30.2	30.2	96.7	96.7	8.3	8.3	19.9		15		-				-		-	
						2.7	0.2	253	14.1		7.7		30.2		96.7		8.3		19.9		17		-				-		-	
SR7	Cloudy	Moderate	06:42	16.2	Surface	1.0	0.2	271	17.2	17.2	8.0	8.0	30.3	30.3	94.0	94.0	7.5	7.5	6.5	7.2	7	9	-	-	823628	823748	-	-	-	-
						1.0	0.2	281	17.2		8.0		30.3		94.0		7.5		6.5		7		-				-		-	
					Middle	8.1	0.2	105	17.2	17.2	8.0	8.0	30.4	30.4	93.7	93.7	7.5		7.3		10		-				-		-	
						8.1	0.3	110	17.2		8.0		30.4		93.7		7.5		7.2		8		-				-		-	
					Bottom	15.2	0.3	107	17.2	17.2	8.0	8.0	30.4	30.4	95.4	95.4	7.6	7.6	7.9		9		-				-		-	
						15.2	0.3	109	17.2		8.0		30.4		95.4		7.6		7.8		10		-				-		-	
SR8	Sunny	Moderate	07:50	5.3	Surface	1.0	0.2	139	17.2	17.2	8.0	8.0	29.8	29.8	97.1	97.1	7.8	7.8	12.0	12.9	10	14	-	-	820436	811608	-	-	-	-
						1.0	0.2	151	17.2		8.0		29.8		97.1		7.8		12.0		10		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.2	150	17.1	17.1	8.0	8.0	29.9	29.9	97.4	97.4	7.8	7.8	13.9		17		-				-		-	
						4.3	0.2	151	17.1		8.0		29.9		97.4		7.8		13.6		19		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 28 February 17 during Mid-Ebb tide

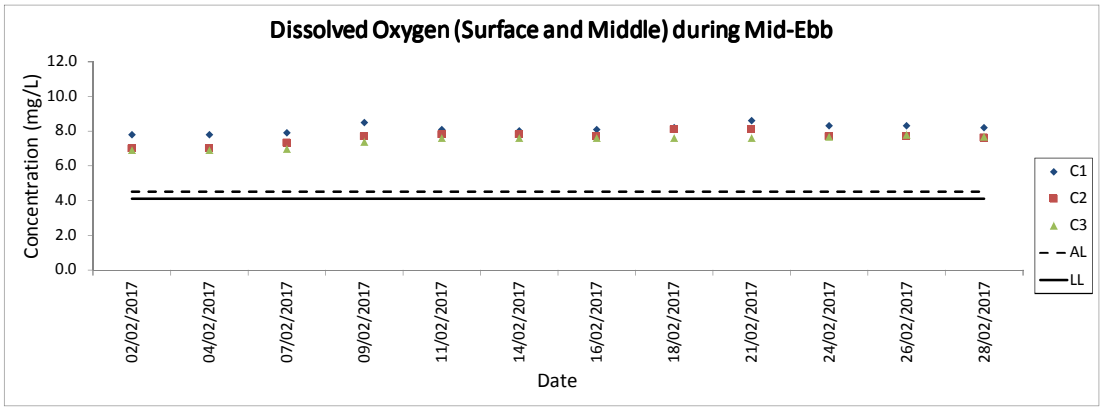
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
C1	Fine	Moderate	13:45	8.8	Surface	1.0	0.3	213	14.7	14.7	7.9	7.9	35.1	35.1	100.6	100.6	8.2	8.2	6.8	8.6	9	9	88	91	815609	804260	<0.2	<0.2	0.4	0.4
						1.0	0.3	218	14.7		7.9		35.1		100.5		8.2		6.8		9		88				<0.2		0.4	
					Middle	4.4	0.4	218	14.3	14.3	7.9	7.9	35.2	35.2	99.3	99.3	8.2		8.6		8		90				<0.2		0.4	
						4.4	0.4	229	14.3		7.9		35.2		99.3		8.2		8.6		10		89				<0.2		0.3	
					Bottom	7.8	0.0	-	14.1	14.1	7.9	7.9	35.3	35.3	99.1	99.1	8.2	8.2	10.5		9		94				<0.2		0.3	
						7.8	0.0	-	14.1		7.9		35.3		99.1		8.2		10.5		9		94				<0.2		0.3	
C2	Cloudy	Moderate	12:46	14.2	Surface	1.0	0.3	118	17.6	17.6	7.9	7.9	28.7	28.7	95.1	95.1	7.6	7.6	12.8	17.5	10	20	85	90	825691	806926	<0.2	<0.2	1.3	1.2
						1.0	0.3	119	17.6		7.9		28.7		95.1		7.6		12.8		10		85				<0.2		1.4	
					Middle	7.1	0.2	128	17.5	17.5	8.0	8.0	29.0	29.0	95.1	95.1	7.6		18.5		24		92				<0.2		1.1	
						7.1	0.2	139	17.5		8.0		29.0		95.1		7.6		18.5		26		92				<0.2		1.1	
					Bottom	13.2	0.2	200	17.2	17.2	8.0	8.0	29.5	29.5	94.7	94.7	7.6	7.6	21.1		24		93				<0.2		1.2	
						13.2	0.2	218	17.2		8.0		29.5		94.7		7.6		21.1		24		94				<0.2		1.3	
C3	Sunny	Moderate	14:27	12.3	Surface	1.0	0.4	61	17.5	17.5	8.0	8.0	30.3	30.3	96.1	96.1	7.7	7.7	6.6	11.0	10	9	90	93	822110	817815	<0.2	0	1.0	0.8
						1.0	0.5	65	17.5		8.0		30.3		96.1		7.7		6.6		9		90				0.2		0.8	
					Middle	6.2	0.3	90	17.4	17.4	8.0	8.0	30.4	30.4	95.1	95.1	7.6		10.9		8		93				<0.2		0.7	
						6.2	0.4	91	17.4		8.0		30.4		95.1		7.6		10.9		8		92				<0.2		0.7	
					Bottom	11.3	0.4	114	17.4	17.4	8.0	8.0	30.5	30.5	94.8	94.8	7.6	7.6	15.6		8		95				<0.2		0.7	
						11.3	0.4	122	17.4		8.0		30.5		94.8		7.6		15.6		8		95				<0.2		0.7	
IM1	Cloudy	Moderate	13:24	7.6	Surface	1.0	0.4	186	15.5	15.5	8.0	8.0	34.2	34.2	100.0	100.0	8.1	8.1	7.7	8.2	14	13	89	91	818357	806444	<0.2	<0.2	0.7	0.5
						1.0	0.4	200	15.5		8.0		34.2		99.9		8.1		7.7		13		90				<0.2		0.5	
					Middle	3.8	0.4	174	14.8	14.8	7.9	7.9	34.5	34.5	98.7	98.7	8.1		8.4		12		91				<0.2		0.4	
						3.8	0.4	180	14.8		7.9		34.5		98.7		8.1		8.3		13		90				<0.2		0.4	
					Bottom	6.6	0.4	168	14.6	14.6	7.9	7.9	34.6	34.6	98.5	98.6	8.1	8.1	8.7		13		93				<0.2		0.6	
						6.6	0.4	183	14.6		7.9		34.6		98.6		8.1		8.6		12		94				<0.2		0.6	
IM2	Cloudy	Moderate	13:17	8.7	Surface	1.0	0.3	157	15.3	15.3	7.9	7.9	34.3	34.3	99.6	99.6	8.1	8.1	8.5	12.0	9	13	87	90	818865	806200	<0.2	<0.2	0.6	0.5
						1.0	0.3	171	15.3		7.9		34.3		99.6		8.1		8.6		10		88				<0.2		0.5	
					Middle	4.4	0.3	152	14.6	14.6	7.9	7.9	34.5	34.5	98.0	98.0	8.1		11.9		15		91				<0.2		0.5	
						4.4	0.3	162	14.6		7.9		34.5		98.0		8.1		12.0		14		90				<0.2		0.6	
					Bottom	7.7	0.3	181	14.5	14.5	7.9	7.9	34.6	34.6	97.9	97.9	8.1	8.1	15.8		14		92				<0.2		0.4	
						7.7	0.3	191	14.5		7.9		34.6		97.9		8.1		14.9		14		92				<0.2		0.5	
IM3	Cloudy	Moderate	13:10	8.8	Surface	1.0	0.4	126	14.8	14.8	7.9	7.9	34.4	34.4	98.7	98.7	8.1	8.1	10.5	12.8	14	16	87	90	819397	806031	<0.2	<0.2	0.4	0.4
						1.0	0.5	131	14.8		7.9		34.4		98.6		8.1		10.5		12		86				<0.2		0.4	
					Middle	4.4	0.4	144	14.5	14.5	7.9	7.9	34.5	34.5	97.6	97.7	8.0		13.9		15		90				<0.2		0.5	
						4.4	0.4	148	14.5		7.9		34.5		97.7		8.1		14.1		15		89				<0.2		0.5	
					Bottom	7.8	0.4	152	14.5	14.5	7.9	7.9	34.6	34.6	97.7	97.7	8.1	8.1	14.0		19		94				<0.2		0.4	
						7.8	0.4	164	14.5		7.9		34.6		97.7		8.1		14.0		18		93				<0.2		0.4	
IM4	Cloudy	Moderate	13:01	8.0	Surface	1.0	0.4	181	14.7	14.7	7.9	7.9	34.4	34.4	98.4	98.4	8.1	8.1	11.6	14.8	11	17	86	90	819582	805036	<0.2	<0.2	0.4	0.5
						1.0	0.4	181	14.7		7.9		34.4		98.4		8.1		11.6		12		86				<0.2		0.5	
					Middle	4.0	0.4	194	14.6	14.6	7.9	7.9	34.5	34.5	98.0	98.0	8.1		13.9		16		91				<0.2		0.4	
						4.0	0.4	200	14.6		7.9		34.5		98.0		8.1		13.9		14		88				<0.2		0.4	
					Bottom	7.0	0.5	188	14.4	14.4	7.9	7.9	34.6	34.6	97.8	97.8	8.1	8.1	18.9		23		94				<0.2		0.6	
						7.0	0.5	195	14.4		7.9		34.6		97.8		8.1		18.9		23		93				<0.2		0.6	
IM5	Cloudy	Moderate	12:53	68.0	Surface	1.0	0.4	180	14.7	14.7	7.9	7.9	34.5	34.5	98.8	98.8	8.1	8.1	13.3	14.9	12	19	89	91	820569	804911	<0.2	<0.2	0.6	0.5
						1.0	0.5	193	14.7		7.9		34.5		98.8		8.1		13.3		13		90				<0.2		0.5	
					Middle	34.0	0.4	188	14.7	14.7	7.9	7.9	34.5	34.5	98.5	98.5	8.1		14.7		14		91				<0.2		0.6	
						34.0	0.4	203	14.7		7.9		34.5		98.5		8.1		14.7		16		90				<0.2		0.5	
					Bottom	67.0	0.5	204	14.7	14.7	8.0	8.0	34.5	34.5	98.3	98.3	8.1	8.1	16.8		30		93				<0.2		0.4	
						67.0	0.5	204	14.7		8.0		34.5		98.3		8.1		16.8		30		92				<0.2		0.5	
IM6	Cloudy	Moderate	12:44	7.2	Surface	1.0	0.3	175	14.6	14.6	7.9	7.9	34.3	34.3	98.1	98.1	8.1	8.1	17.6	20.0	20	22	90	91	821059	805836	<0.2	<0.2	0.5	0.5
						1.0	0.3	188	14.6		7.9		34.3		98.1		8.1		17.7		20		89				<0.2		0.5	
					Middle	3.6	0.3	156	14.5	14.5	7.9	7.9	34.3	34.3	97.9	97.9	8.1		18.4		23		91				<0.2		0.5	
						3.6	0.3	171	14.5		7.9		34.3		97.9		8.1		18.4		22		90				<0.2		0.5	
					Bottom	6.2	0.3	163	14.5	14.5	7.9	7.9	34.3	34.3	97.7	97.7	8.1	8.1	23.8		22		91				<0.2		0.5	
						6.2	0.4	169	14.5		7.9		34.3		97.7		8.1		23.8		23		94				<0.2		0.5	
IM7	Cloudy	Moderate	12:35	9.0	Surface	1.0	0.5	140	14.6	14.6	8.0	8.0	34.2	34.2	98.1	98.2	8.1	8.1	14.1	18.0	17	24	89	91	821355	806854	<0.2	<0.2	0.5	0.6
						1.0	0.5	147	14.6		7.9		34.2		98.2		8.1		14.2		19		90				<0.2		0.5	
					Middle	4.5	0.5	114	14.5	14.5	7.9	7.9	34.2	34.2	97.7	97.7	8.1		19.0		24		90				<0.2		0.5	
						4.5	0.5	120	14.5		7.9		34.2		97.7		8.1		19.0		25		88				<0.2		0.5	
					Bottom	8.0	0.7	153	14.5	14.5	7.9	7.9	34.2	34.2	97.6	97.6	8.1	8.1	20.8		27		93				<0.2		0.8	
						8.0	0.7	155	14.5		7.9		34.2		97.6		8.1		20.8		29		94				<0.2		0.9	
IM8	Cloudy	Moderate	13:17	8.2	Surface	1.0	0.5	97	17.3	17.3	8.1	8.1	30.7	30.7	100.2	100.2	8.0	8.0	15.7	18.4	13	14	86	91	821686	807857	<0.2	<0.2	0.7	0.9
						1.0	0.5	104	17.3		8.1		30.7		100.1		8.0		15.9		13		87				<0.2		0.8	
					Middle	4.1	0.5	85	17.2	17.2	8.0	8.0	30.7	30.7	99.5	99.5	8.0		18.3		11		92				<0.2		0.8	
						4.1	0.5	91	17.2		8.0		30.7		99.5		8.0		18.3		13		91				<0.2		1.0	
					Bottom	7.2	0.4	87	17.1	17.1	8.0	8.0	30.7	30.7	99.7	99.7	8.0	8.0	21.0		16		94				<0.2		0.8	
						7.2	0.5	90	17.1		8.0		30.7		99.7		8.0		21.0		18		94				<0.2		1.0	

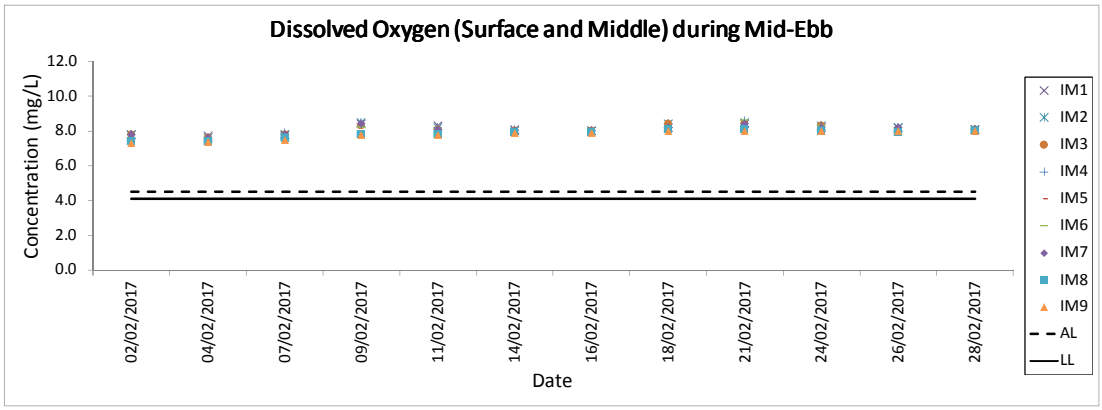
DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 28 February 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	13:27	7.6	Surface	1.0	0.5	94	17.5	17.5	8.0	8.0	30.4	30.4	99.8	99.8	8.0	8.0	13.2	17.9	14	20	86	91	822092	808797	<0.2	<0.2	0.8	0.8
						1.0	0.5	96	17.5		8.0		30.4		99.8		8.0		13.3		14		87				<0.2		0.8	
					Middle	3.8	0.6	94	17.2	17.2	8.0	8.0	30.6	30.6	99.2	99.2	7.9		14.1		13		92				<0.2		0.8	
						3.8	0.6	102	17.2		8.0		30.6		99.2		7.9		14.1		12		93				<0.2		0.7	
					Bottom	6.6	0.5	95	17.2	17.2	8.0	8.0	30.6	30.6	99.3	99.3	8.0	8.0	26.4		33		94				<0.2		0.9	
						6.6	0.6	96	17.2		8.0		30.6		99.3		8.0		26.4		35		93				<0.2		0.7	
IM10	Cloudy	Moderate	13:34	7.7	Surface	1.0	0.5	114	17.6	17.6	8.0	8.0	29.8	29.8	98.7	98.7	7.9	7.9	10.1	16.7	9	10	86	91	822252	809823	<0.2	0	1.2	1.2
						1.0	0.6	116	17.6		8.0		29.8		98.7		7.9		10.2		10		87				<0.2		1.4	
					Middle	3.9	0.5	104	17.2	17.2	8.0	8.0	30.1	30.1	97.8	97.8	7.9		15.9		11		93				<0.2		1.2	
						3.9	0.6	112	17.2		8.0		30.1		97.8		7.9		15.6		11		92				0.2		1.0	
					Bottom	6.7	0.5	97	17.2	17.2	8.0	8.0	30.2	30.2	97.6	97.6	7.8	7.8	24.3		9		94				0.2		1.3	
						6.7	0.5	101	17.2		8.0		30.2		97.6		7.8		24.3		9		94				<0.2		1.3	
IM11	Cloudy	Moderate	13:41	8.7	Surface	1.0	0.5	111	17.6	17.6	8.0	8.0	29.9	29.9	98.6	98.6	7.9	7.9	8.4	11.7	8	11	87	91	821515	810541	<0.2	0	1.2	1.1
						1.0	0.5	114	17.6		8.0		29.9		98.6		7.9		8.4		9		88				0.3		1.3	
					Middle	4.4	0.5	105	17.2	17.2	8.0	8.0	30.0	30.0	97.3	97.3	7.8		11.9		10		92				<0.2		0.9	
						4.4	0.5	107	17.2		8.0		30.0		97.3		7.8		11.9		11		93				<0.2		0.9	
					Bottom	7.7	0.4	97	17.2	17.2	8.0	8.0	30.1	30.1	97.6	97.6	7.8	7.8	14.9		13		94				<0.2		1.1	
						7.7	0.4	105	17.2		8.0		30.1		97.6		7.8		14.9		12		94				<0.2		0.9	
IM12	Cloudy	Moderate	13:49	9.2	Surface	1.0	0.6	98	17.4	17.4	8.0	8.0	30.0	30.0	97.9	97.9	7.8	7.8	8.9	10.0	8	10	88	91	821158	811533	<0.2	<0.2	1.1	1.0
						1.0	0.6	102	17.4		8.0		30.0		97.9		7.8		9.0		10		87				<0.2		1.0	
					Middle	4.6	0.5	114	17.3	17.3	8.0	8.0	30.0	30.0	97.4	97.4	7.8		10.0		10		92				<0.2		0.9	
						4.6	0.5	119	17.3		8.0		30.0		97.4		7.8		10.0		10		92				<0.2		1.1	
					Bottom	8.2	0.4	109	17.2	17.2	8.0	8.0	30.2	30.2	97.2	97.2	7.8	7.8	11.1		10		93				<0.2		0.9	
						8.2	0.5	117	17.2		8.0		30.2		97.2		7.8		11.1		10		94				<0.2		1.0	
SR2	Sunny	Moderate	14:08	4.9	Surface	1.0	0.4	87	17.5	17.5	8.0	8.0	30.2	30.2	97.7	97.7	7.8	7.8	10.2	10.5	9	11	90	92	821480	814152	<0.2	<0.2	0.9	1.0
						1.0	0.4	92	17.5		8.0		30.2		97.7		7.8		9.9		8		89				<0.2		1.0	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.3	94	17.4	17.4	8.0	8.0	30.2	30.2	97.9	97.9	7.8	7.8	10.9		14		95				<0.2		1.0	
						3.9	0.4	96	17.4		8.0		30.2		97.9		7.8		10.9		13		95				<0.2		1.1	
SR3	Cloudy	Moderate	13:06	9.2	Surface	1.0	0.5	130	17.6	17.6	8.0	8.0	29.5	29.5	99.0	99.0	7.9	7.9	14.2	17.8	14	18	-	-	822165	807565	-	-	-	-
						1.0	0.5	131	17.6		8.0		29.5		99.0		7.9		14.2		14		-				-		-	
					Middle	4.6	0.5	105	17.4	17.4	8.0	8.0	30.3	30.3	99.4	99.4	7.9		17.2		17		-				-		-	
						4.6	0.5	112	17.4		8.0		30.3		99.4		7.9		17.4		15		-				-		-	
					Bottom	8.2	0.4	111	17.2	17.2	8.0	8.0	30.5	30.5	99.1	99.1	7.9	7.9	21.8		22		-				-		-	
						8.2	0.5	116	17.2		8.0		30.5		99.1		7.9		21.8		24		-				-		-	
SR4A	Fine	Calm	14:11	8.7	Surface	1.0	0.4	100	14.8	14.8	7.9	7.9	34.6	34.6	99.1	99.1	8.1	8.1	9.3	10.2	11	14	-	-	817173	807798	-	-	-	-
						1.0	0.5	109	14.8		7.9		34.6		99.1		8.1		9.3		12		-				-		-	
					Middle	4.4	0.5	96	14.7	14.7	7.9	7.9	34.7	34.7	98.6	98.6	8.1		10.1		15		-				-		-	
						4.4	0.5	98	14.7		7.9		34.7		98.6		8.1		10.1		13		-				-		-	
					Bottom	7.7	0.5	90	14.6	14.6	7.9	7.9	34.7	34.7	98.5	98.5	8.1	8.1	11.2		16		-				-		-	
						7.7	0.5	94	14.6		7.9		34.7		98.5		8.1		11.3		14		-				-		-	
SR5A	Fine	Calm	14:27	4.1	Surface	1.0	0.2	219	15.1	15.1	7.9	7.9	33.5	33.5	98.1	98.1	8.0	8.0	8.6	10.0	10	13	-	-	816593	810715	-	-	-	-
						1.0	0.2	225	15.1		7.9		33.5		98.1		8.0		8.6		11		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.2	146	14.6	14.6	7.9	7.9	33.9	33.9	97.4	97.4	8.1	8.1	11.4		14		-				-		-	
						3.1	0.2	150	14.6		7.9		33.9		97.4		8.1		11.4		15		-				-		-	
SR6	Fine	Calm	14:48	3.9	Surface	1.0	0.2	118	14.7	14.7	7.9	7.9	33.6	33.6	95.3	95.3	7.9	7.9	15.1	14.7	15	16	-	-	817882	814659	-	-	-	-
						1.0	0.2	123	14.7		7.9		33.6		95.3		7.9		15.3		13		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	155	14.5	14.5	7.9	7.9	33.6	33.6	95.1	95.1	7.9	7.9	14.2		18		-				-		-	
						2.9	0.2	157	14.5		7.9		33.6		95.1		7.9		14.2		16		-				-		-	
SR7	Sunny	Moderate	14:54	15.7	Surface	1.0	0.6	67	17.3	17.3	8.0	8.0	30.6	30.6	94.7	94.7	7.6	7.6	4.2	4.4	2	4	-	-	823642	823739	-	-	-	-
						1.0	0.6	68	17.3		8.0		30.6		94.6		7.6		4.3		4		-				-		-	
					Middle	7.9	0.5	63	17.3	17.3	8.0	8.0	30.6	30.6	94.3	94.3	7.5		4.5		4		-				-		-	
						7.9	0.5	65	17.3		8.0		30.6		94.3		7.5		4.5		4		-				-		-	
					Bottom	14.7	0.3	80	17.3	17.3	8.0	8.0	30.6	30.6	94.4	94.4	7.5	7.5	4.5		6		-				-		-	
						14.7	0.3	86	17.3		8.0		30.6		94.4		7.5		4.5		6		-				-		-	
SR8	Sunny	Moderate	13:54	5.2	Surface	1.0	0.3	145	17.4	17.4	8.0	8.0	30.1	30.1	97.7	97.7	7.8	7.8	9.5	10.7	9	11	-	-	820411	811605	-	-	-	-
						1.0	0.3	158	17.4		8.0		30.1		97.7		7.8		9.6		10		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	154	17.2	17.2	8.0	8.0	30.2	30.2	97.3	97.3	7.8	7.8	11.8		12		-				-		-	
						4.2	0.3	163	17.2		8.0		30.2		97.3		7.8		11.8		11		-				-		-	

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
18/02/2017
21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
C1
C2
C3
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
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21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
IM1
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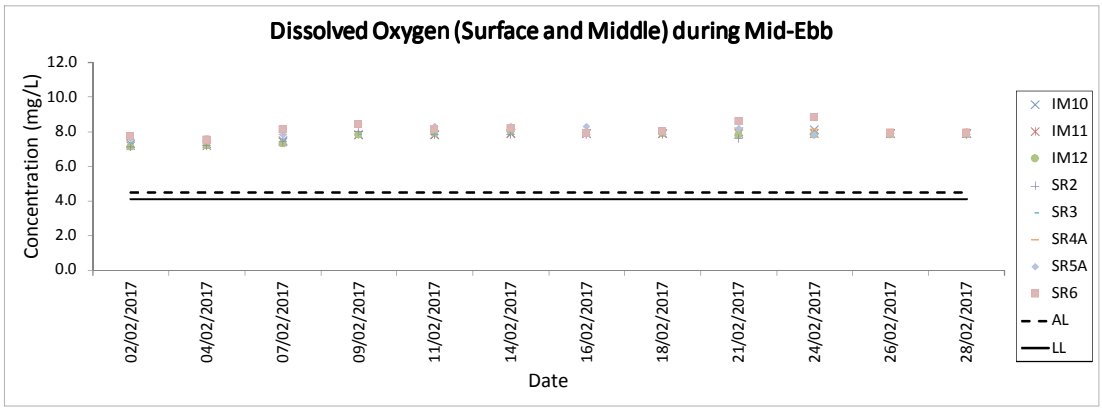
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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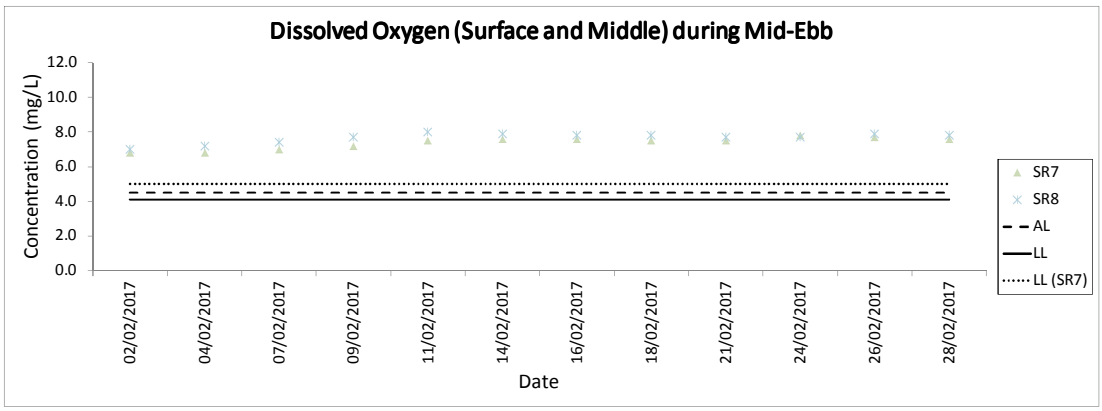
10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
18/02/2017
21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
IM10
IM11
IM12
SR2
SR3
SR4A
SR5A
SR6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
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16/02/2017
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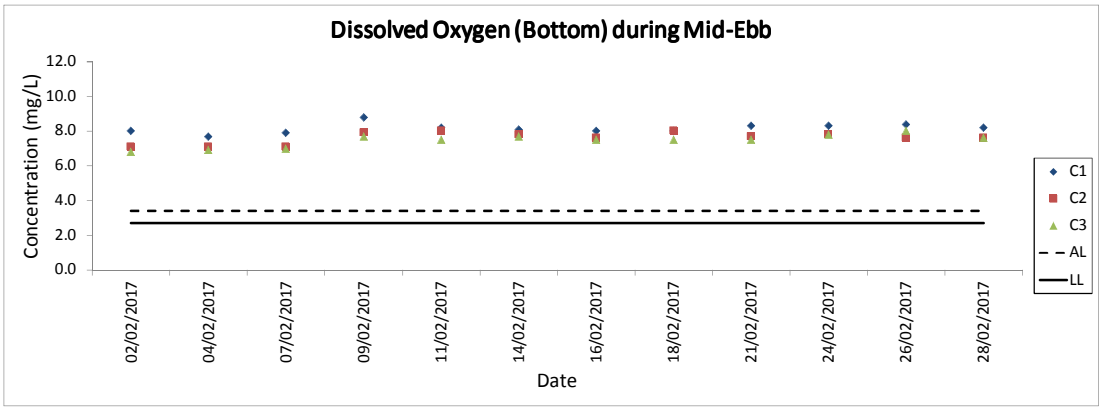
28/02/2017
Date
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
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21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
C1
C2
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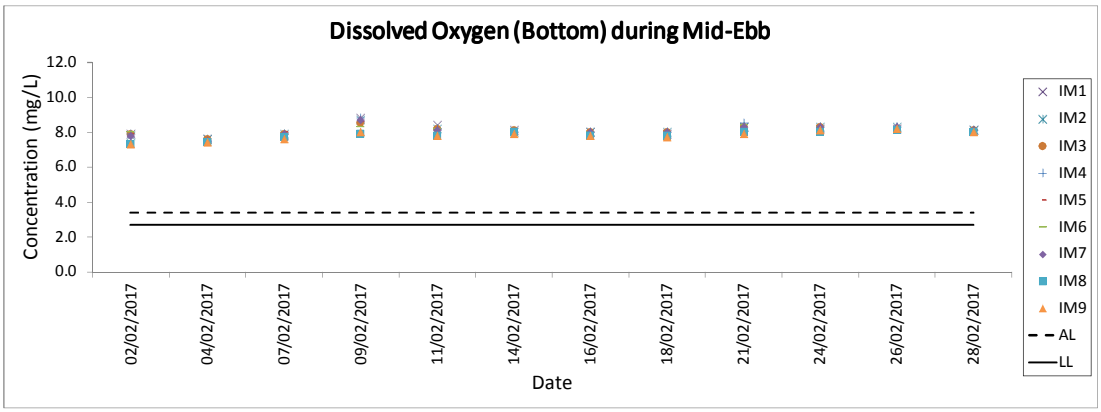
Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
18/02/2017
21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
IM1
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IM4
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IM6
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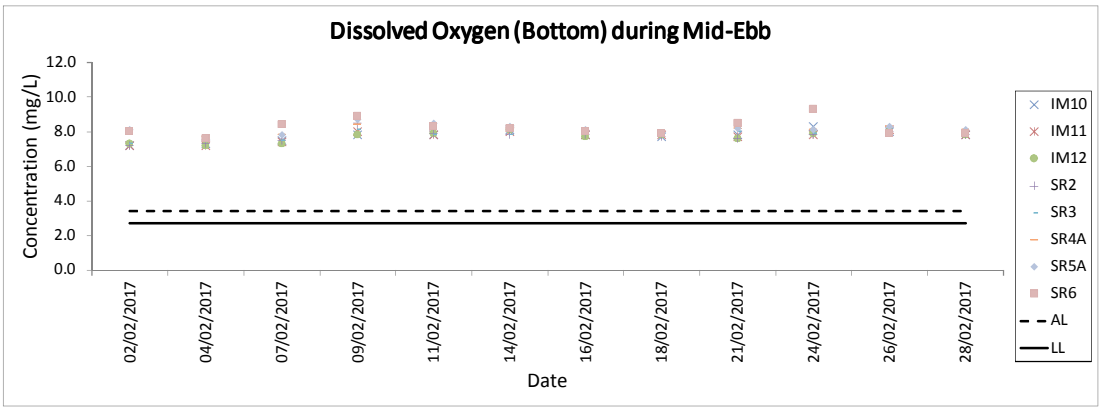
IM8
IM9
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
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18/02/2017
21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
IM10
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IM12
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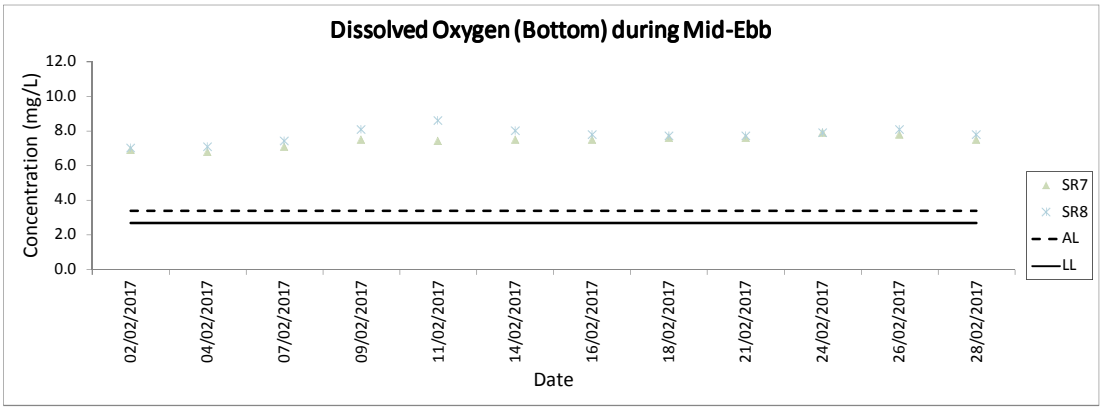
SR4A
SR5A
SR6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
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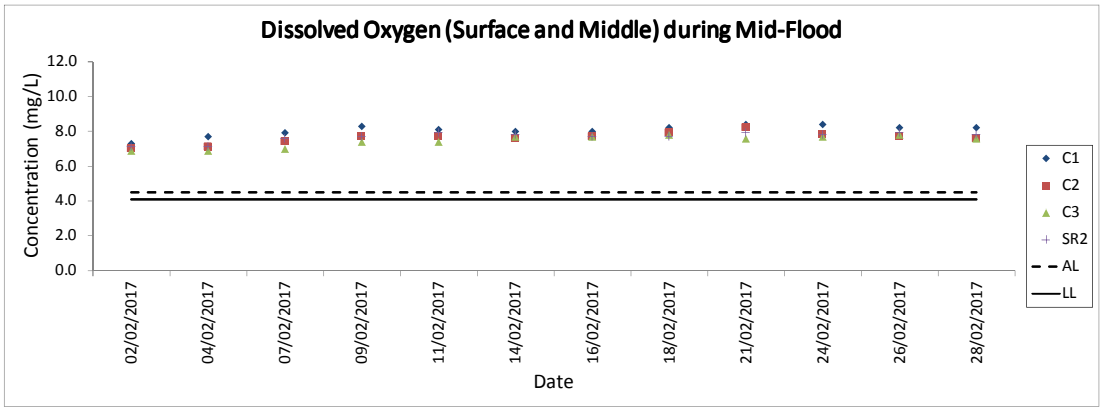
28/02/2017
Date
SR7
SR8
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
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24/02/2017
26/02/2017
28/02/2017
Date
C1
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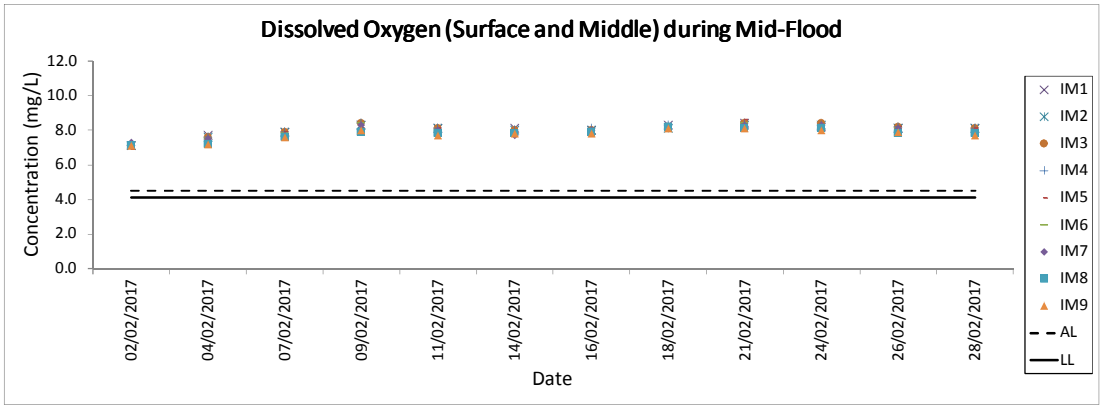
SR2
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
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18/02/2017
21/02/2017
24/02/2017
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28/02/2017
Date
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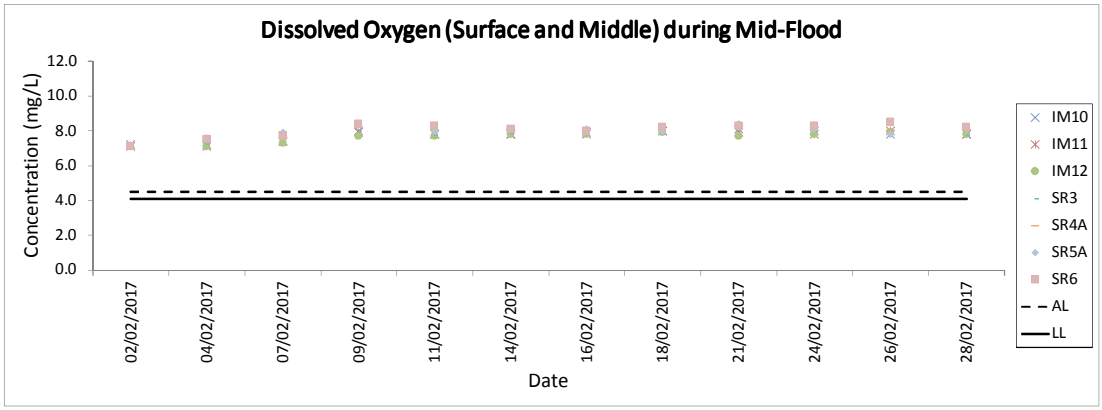
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
18/02/2017
21/02/2017
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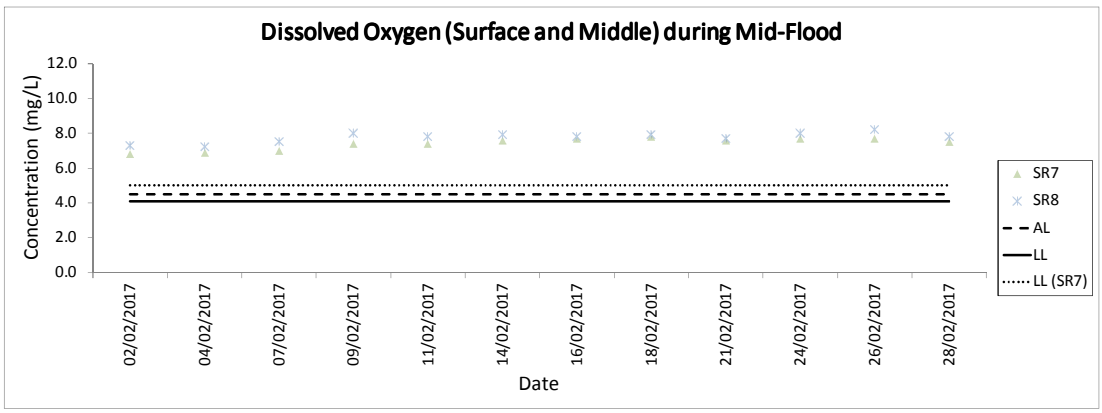
26/02/2017
28/02/2017
Date
IM10
IM11
IM12
SR3
SR4A
SR5A
SR6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
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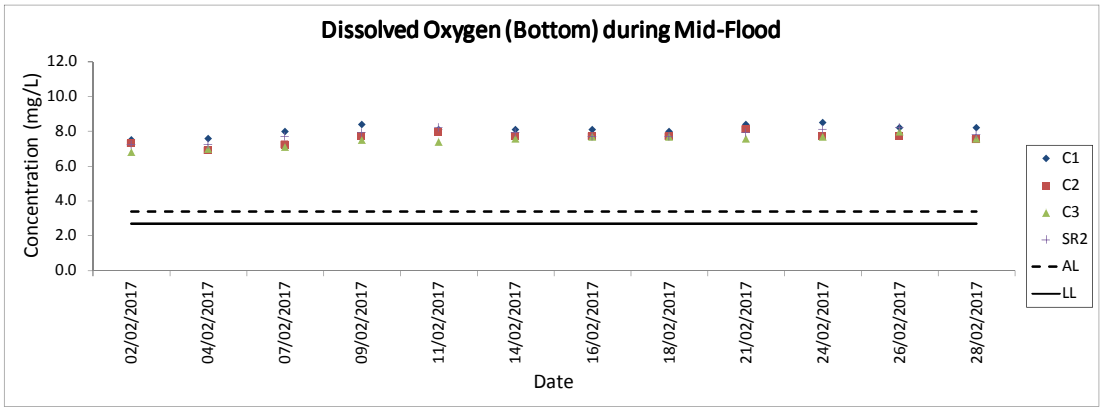
Date
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
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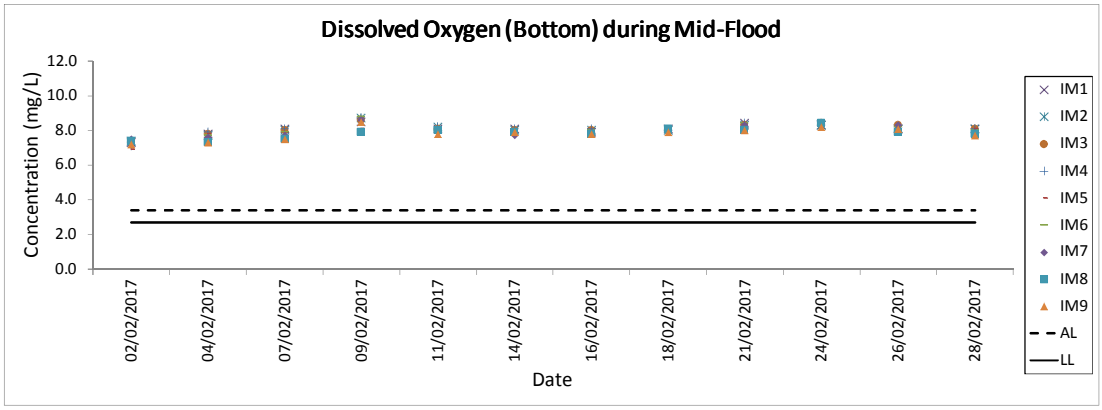
24/02/2017
26/02/2017
28/02/2017
Date
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
18/02/2017
21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
IM1
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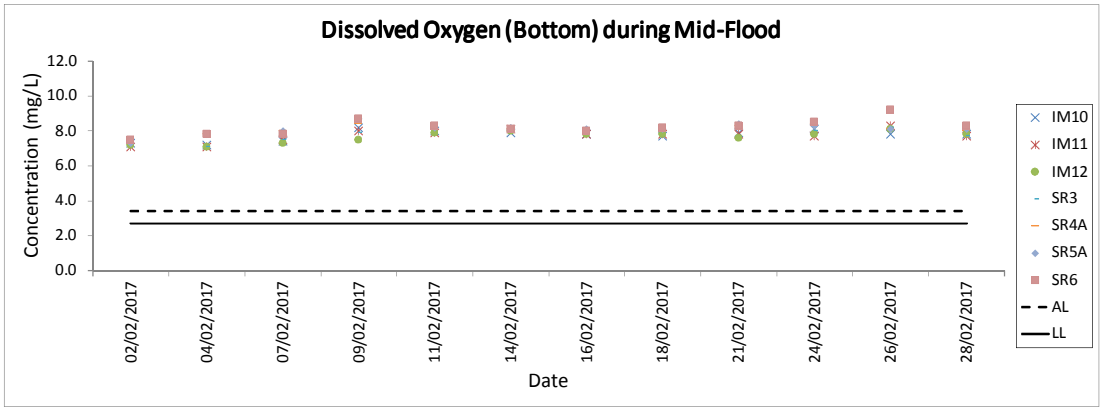
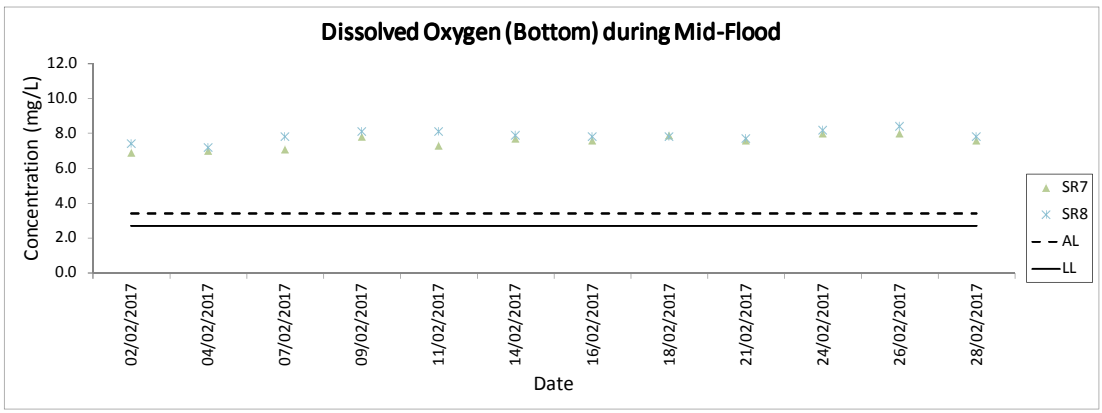
IM3
IM4
IM5
IM6
IM7
IM8
IM9
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
16/02/2017
18/02/2017
21/02/2017
24/02/2017
26/02/2017
28/02/2017
Date
IM10
IM11
IM12
SR3
SR4A
SR5A
SR6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/02/2017
04/02/2017
07/02/2017
09/02/2017
11/02/2017
14/02/2017
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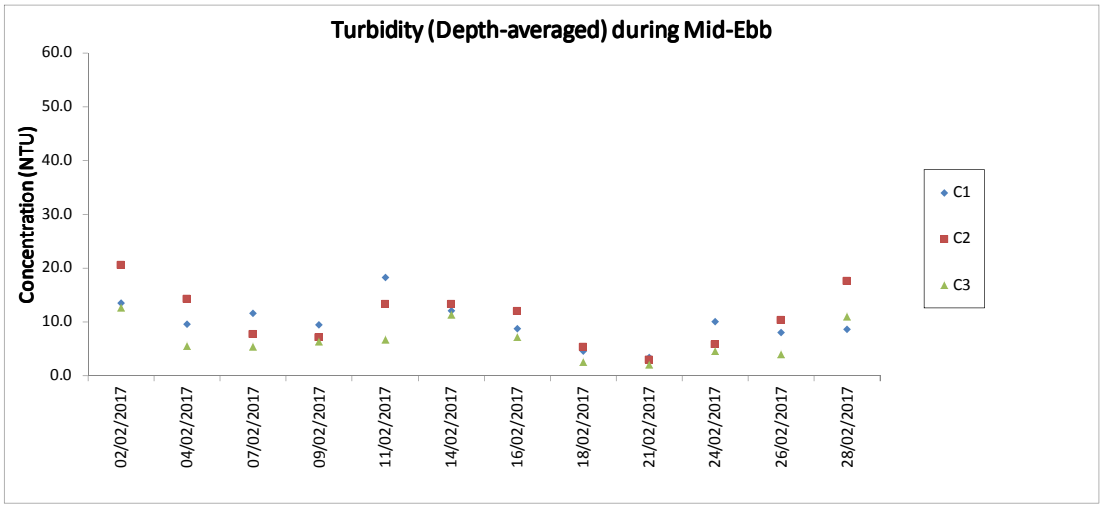
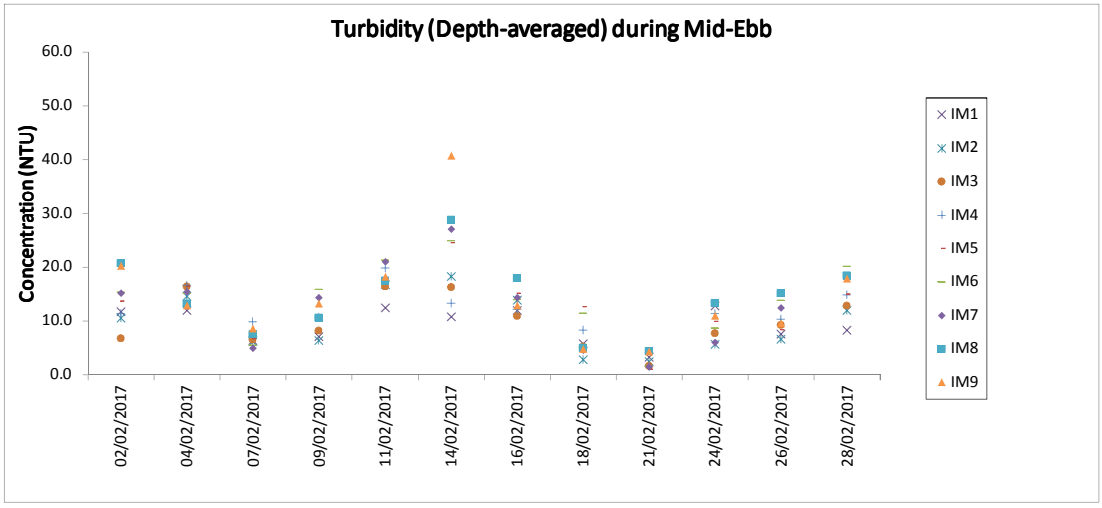
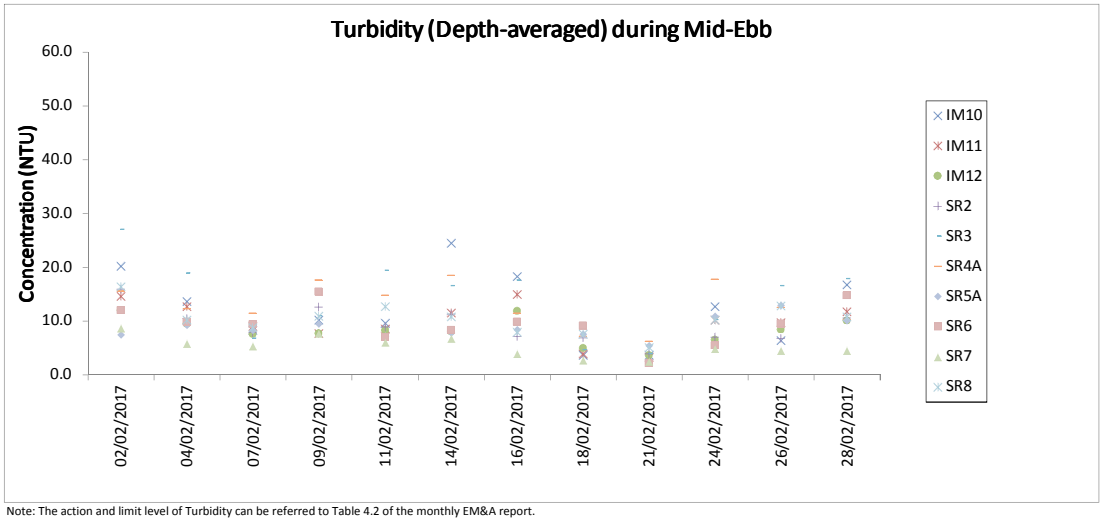
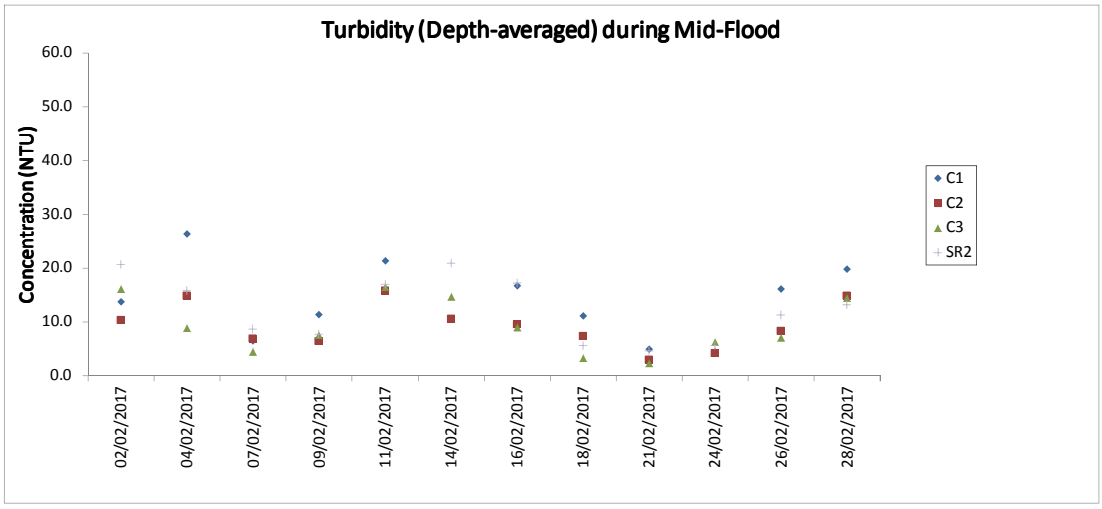
28/02/2017
Date
SR7
SR8
AL
LL

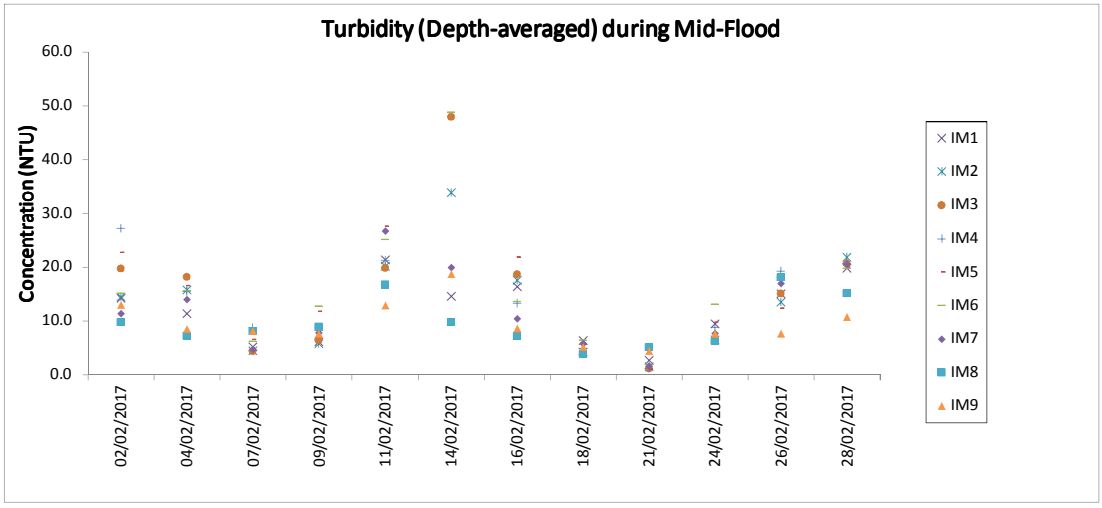


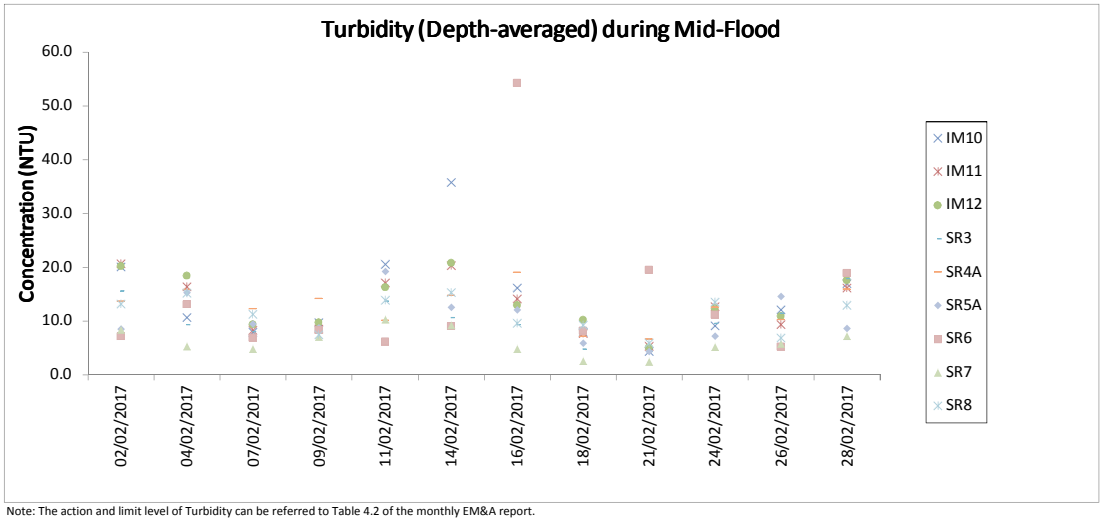




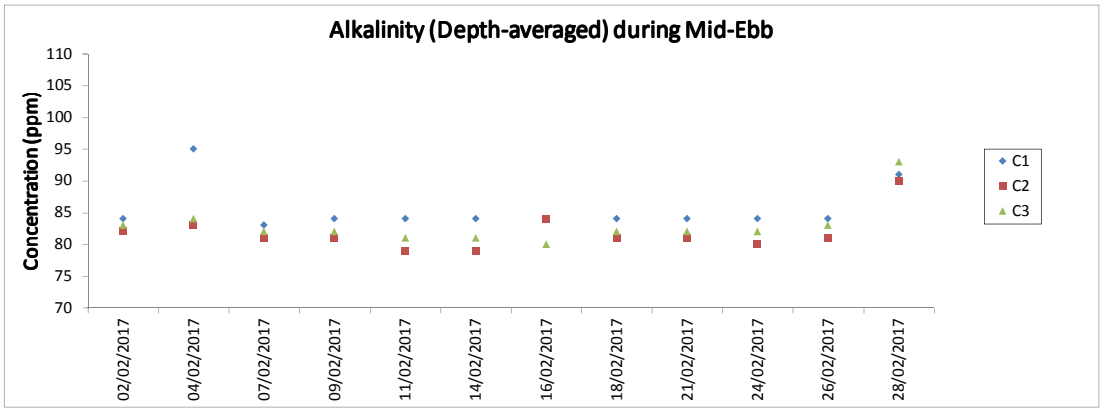
Note: The action and limit level of Turbidity can be referred to Table 4.2 of the monthly EM&A report.

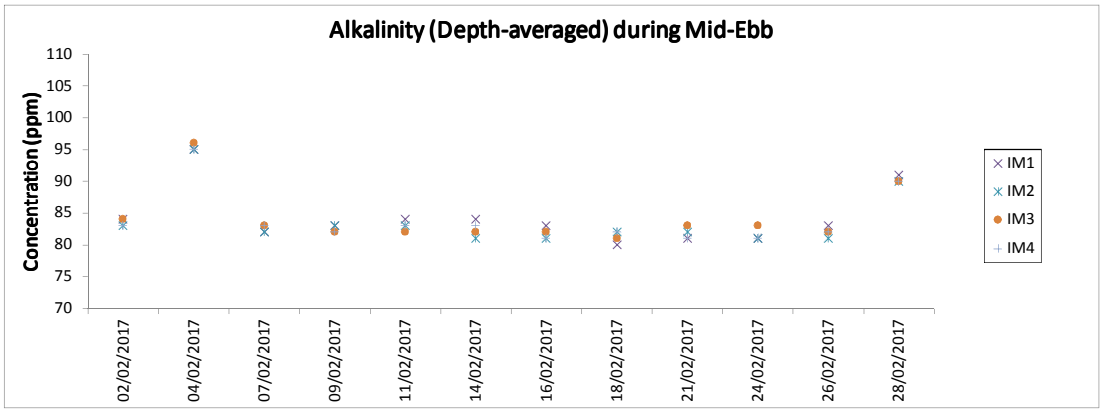


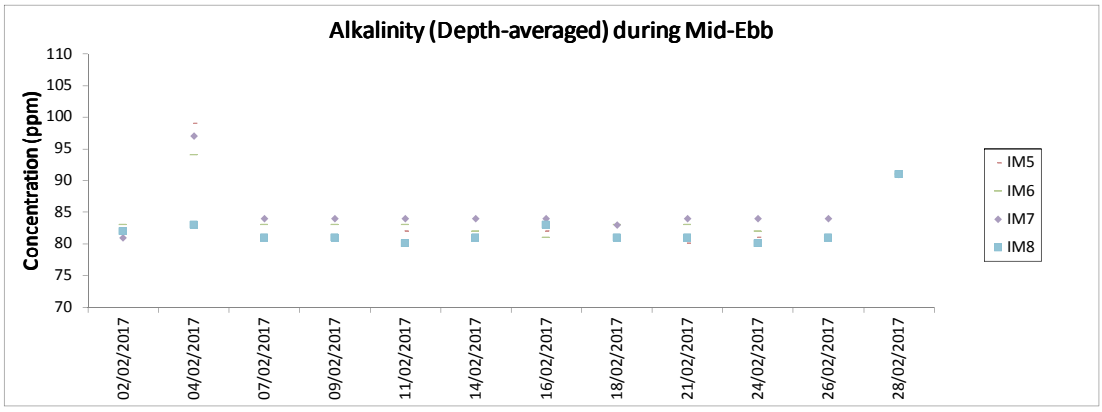


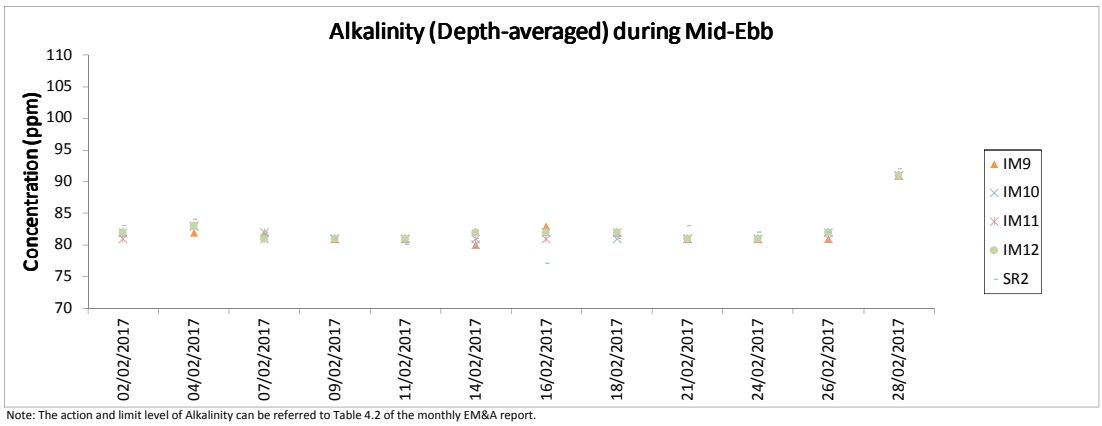


Note: The action and limit level of Turbidity can be referred to Table 4.2 of the monthly EM&A report.

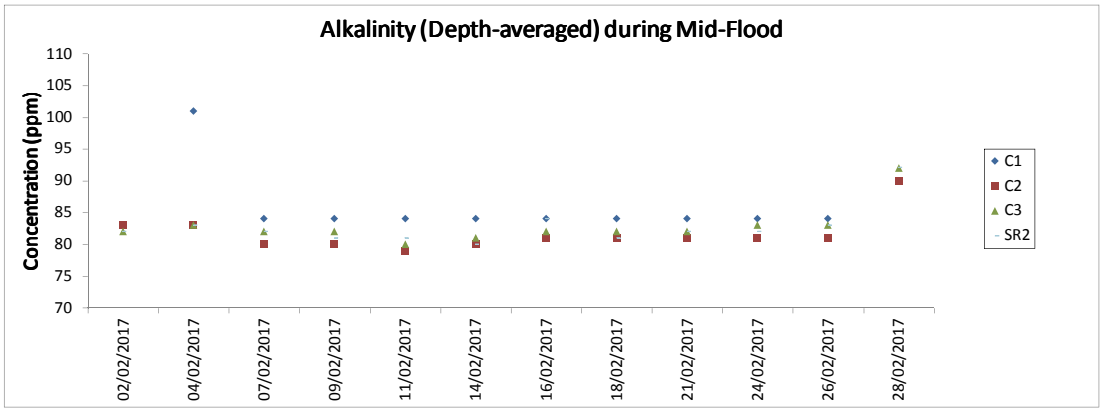


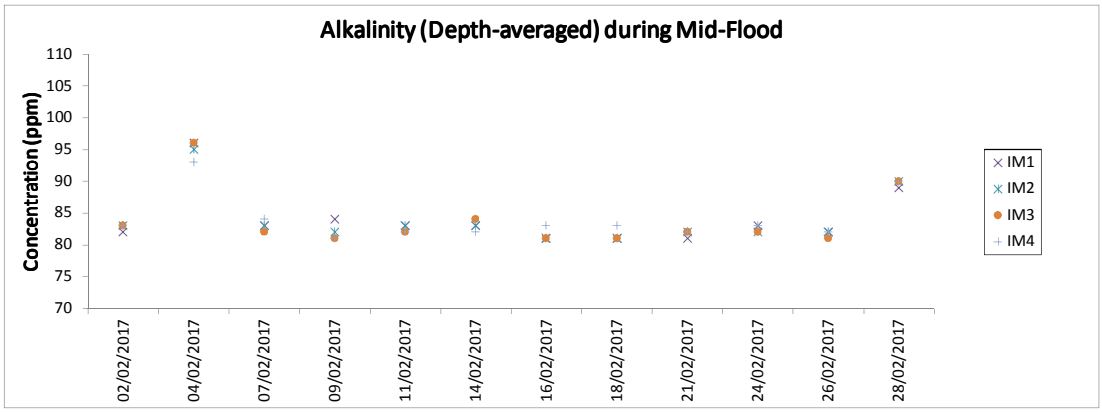


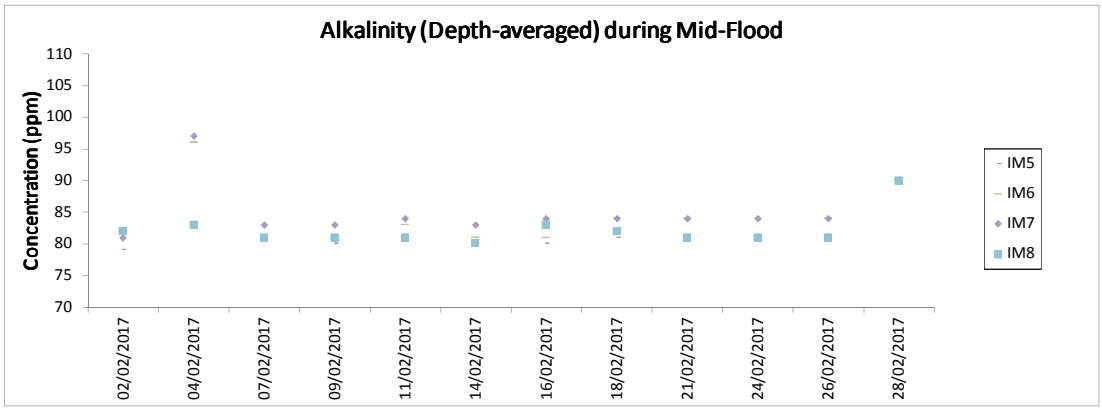


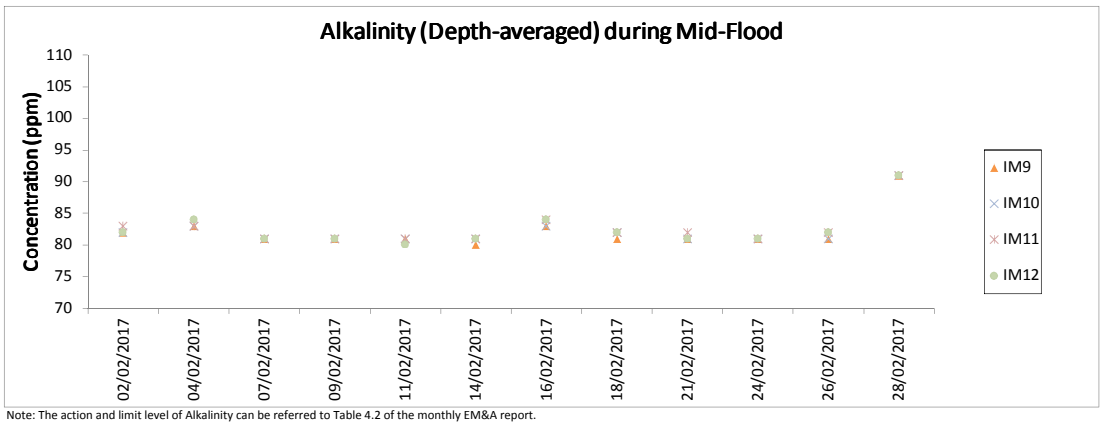


Note: The action and limit level of Alkalinity can be referred to Table 4.2 of the monthly EM&A report.

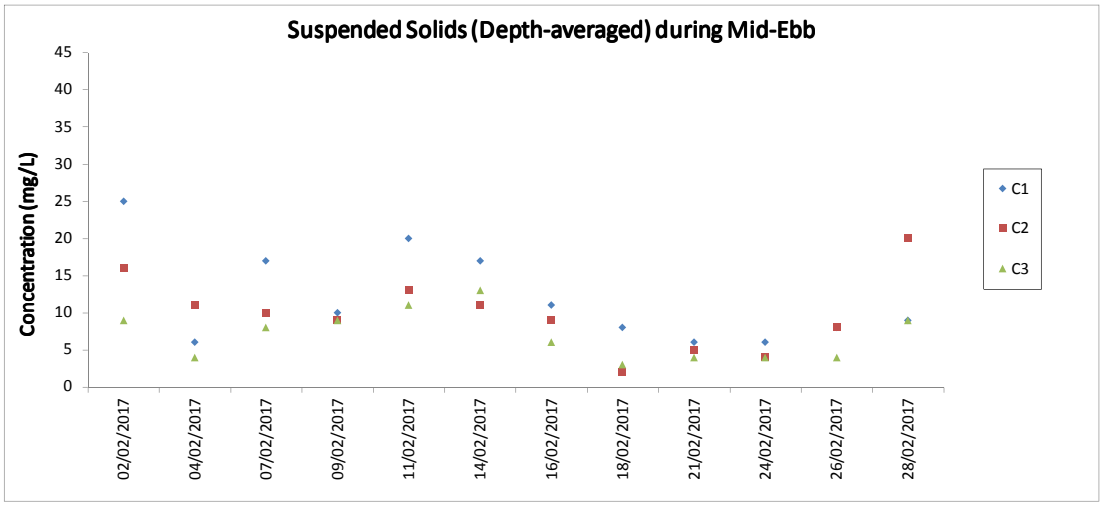


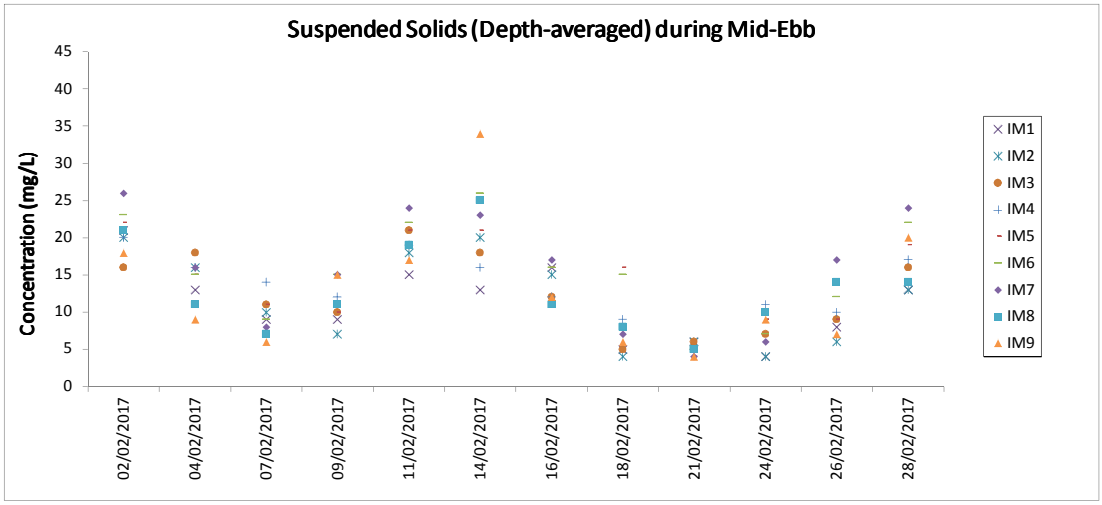


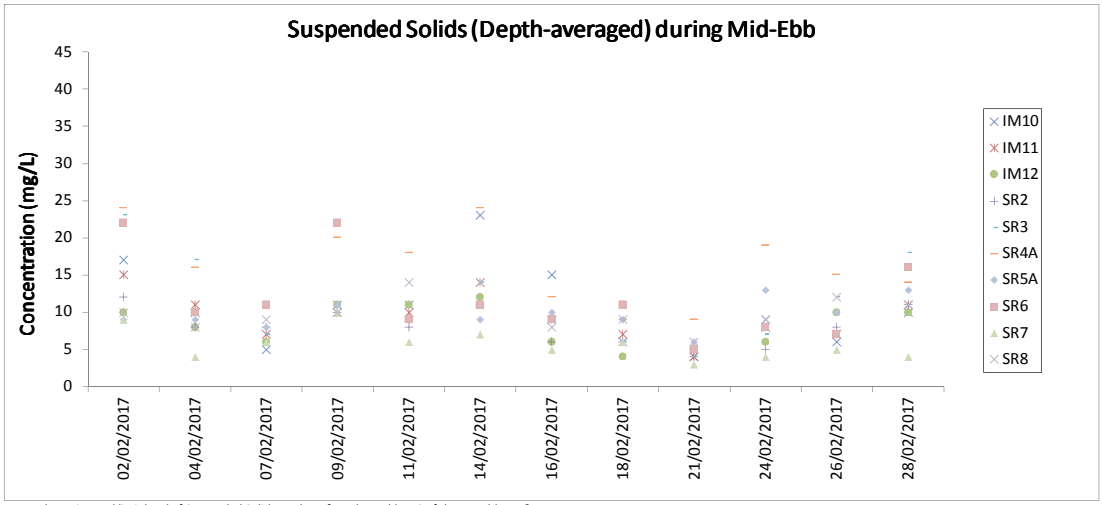




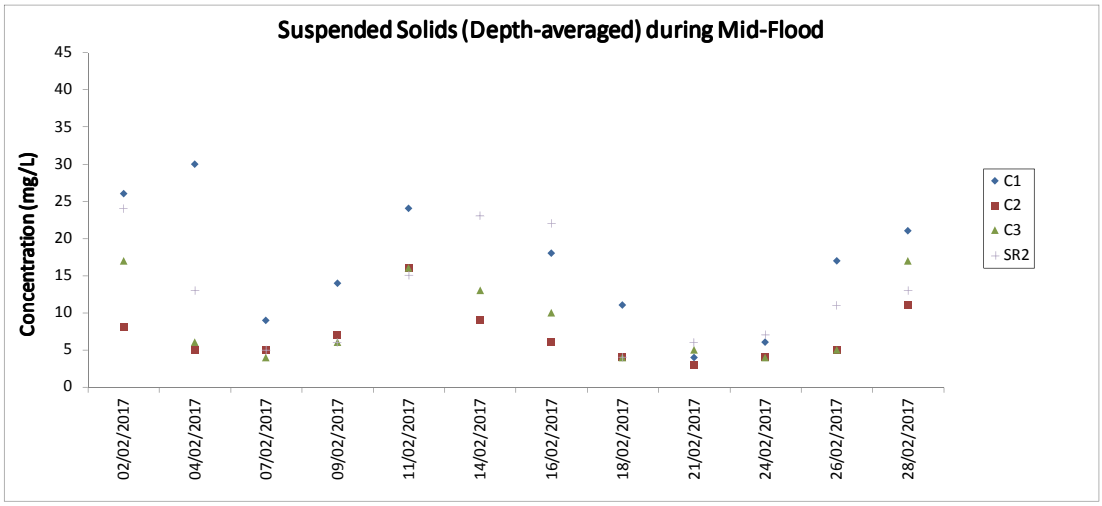
Note: The action and limit level of Alkalinity can be referred to Table 4.2 of the monthly EM&A report.

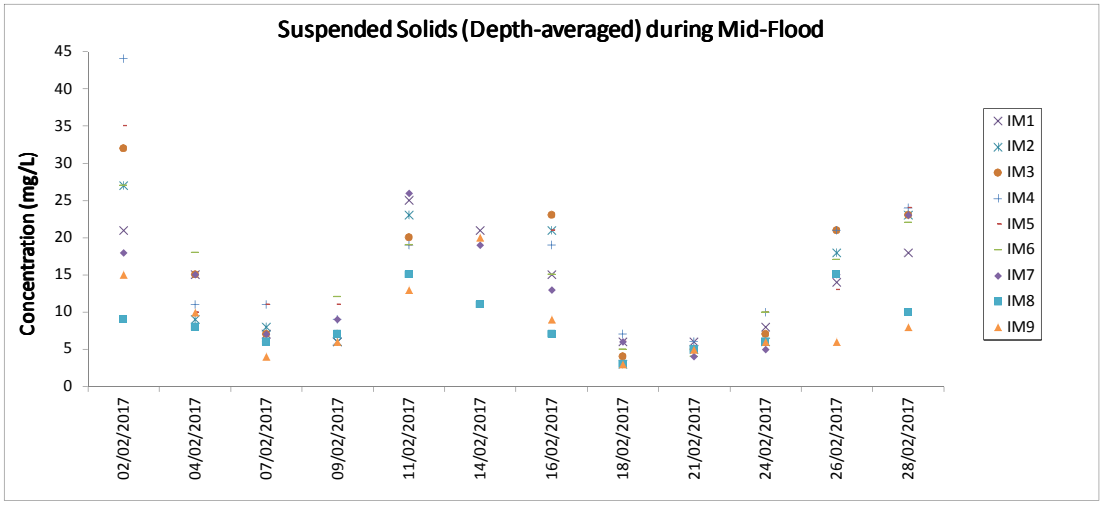


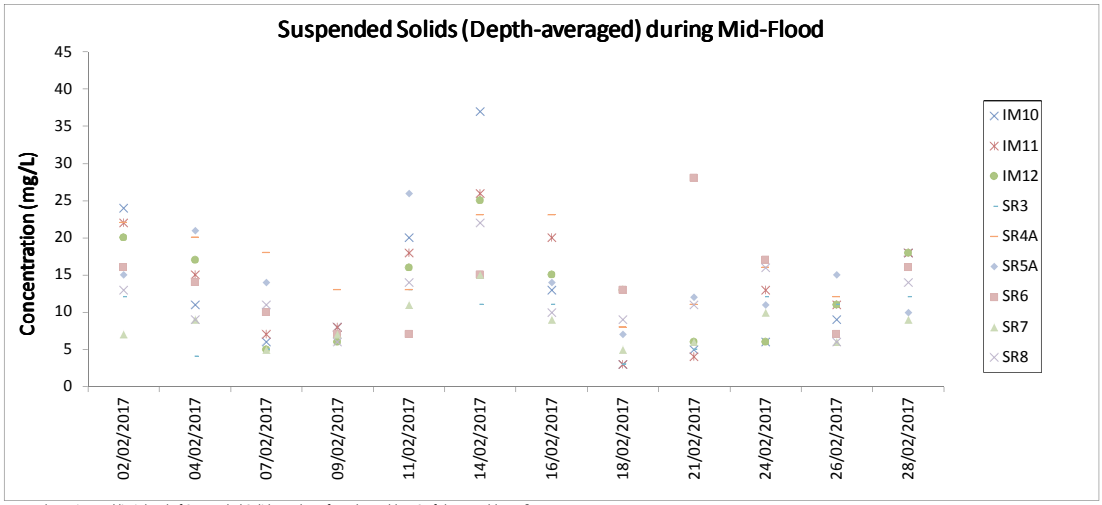




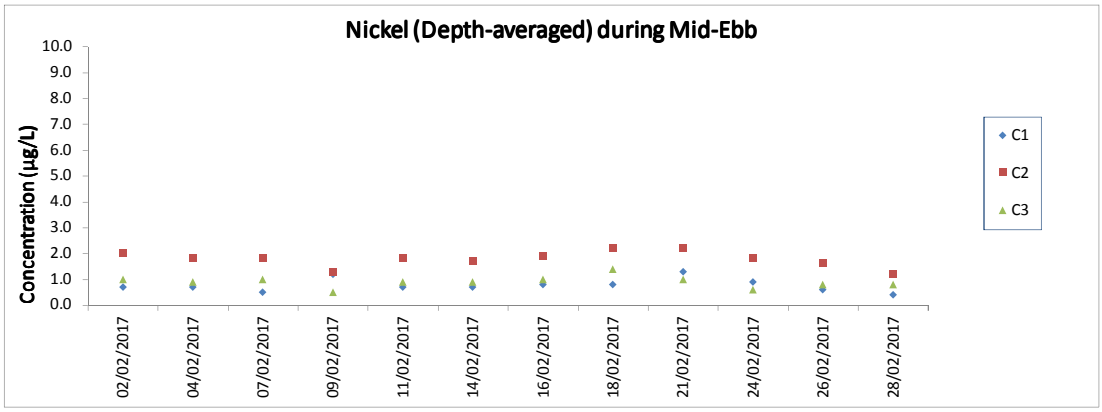
Note: The action and limit level of Suspended Solids can be referred to Table 4.2 of the monthly EM&A report.

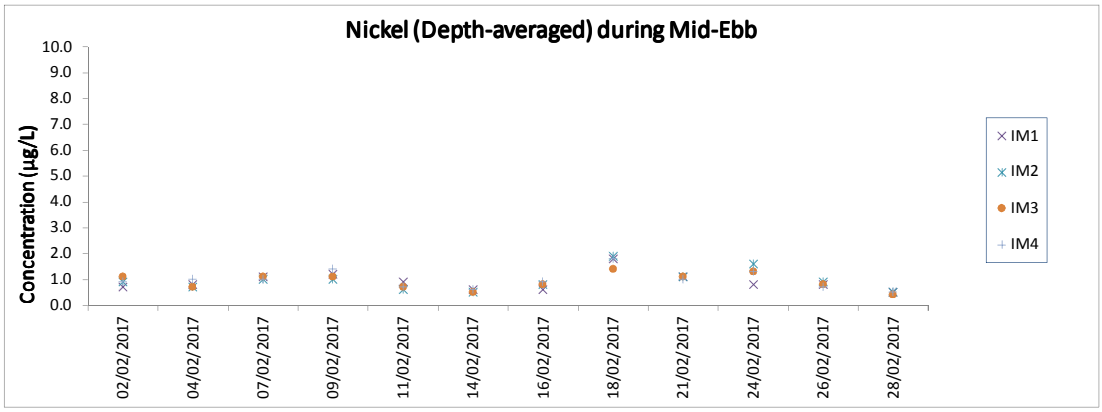


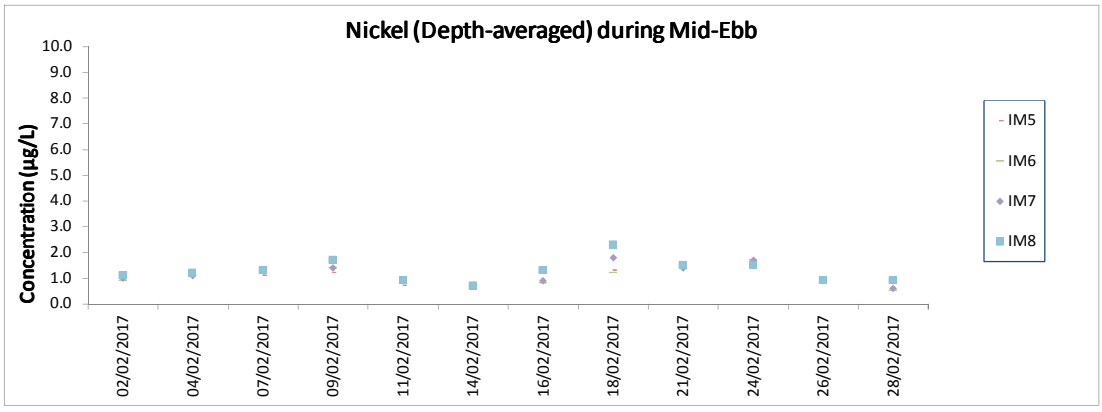


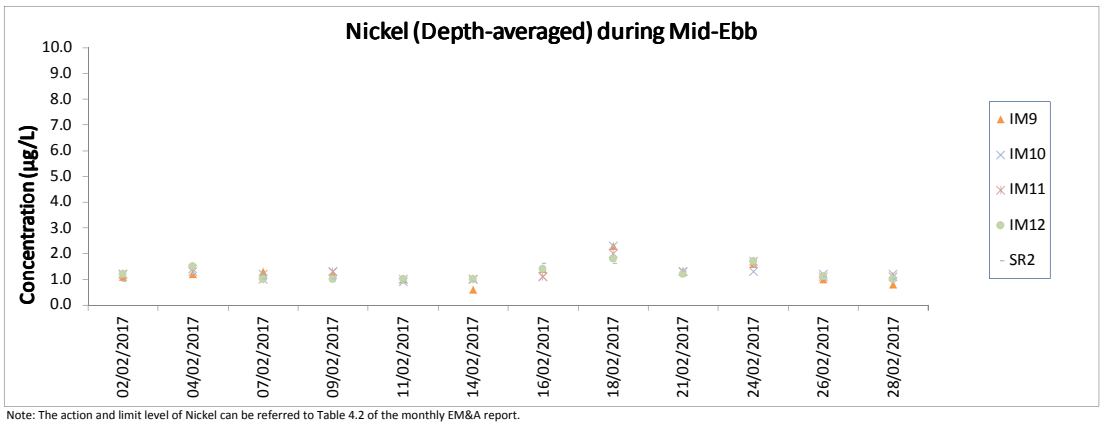


Note: The action and limit level of Suspended Solids can be referred to Table 4.2 of the monthly EM&A report.

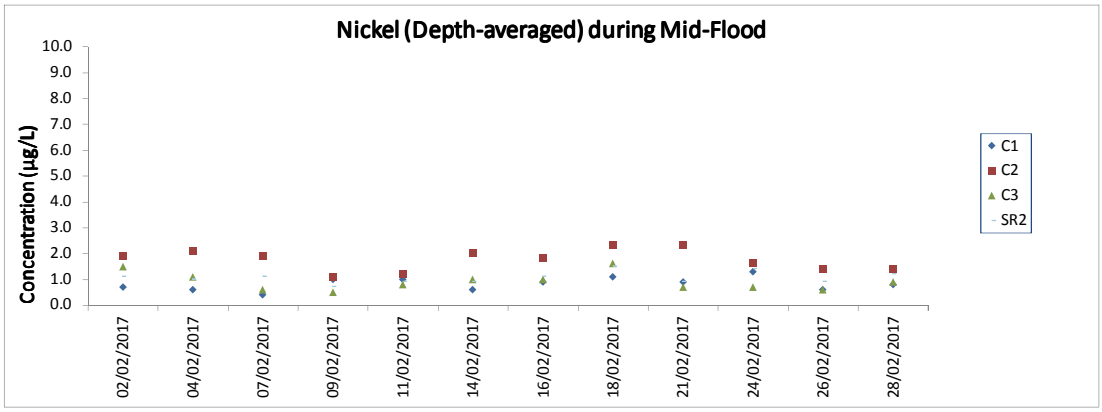


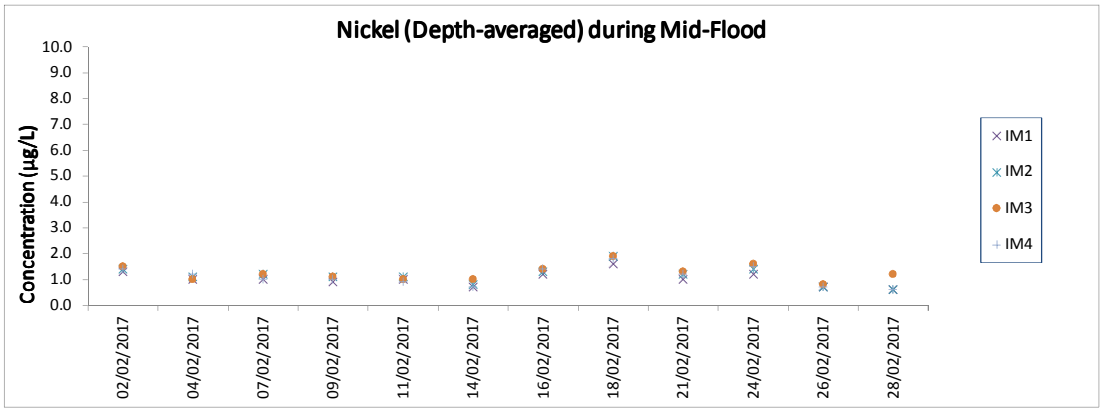


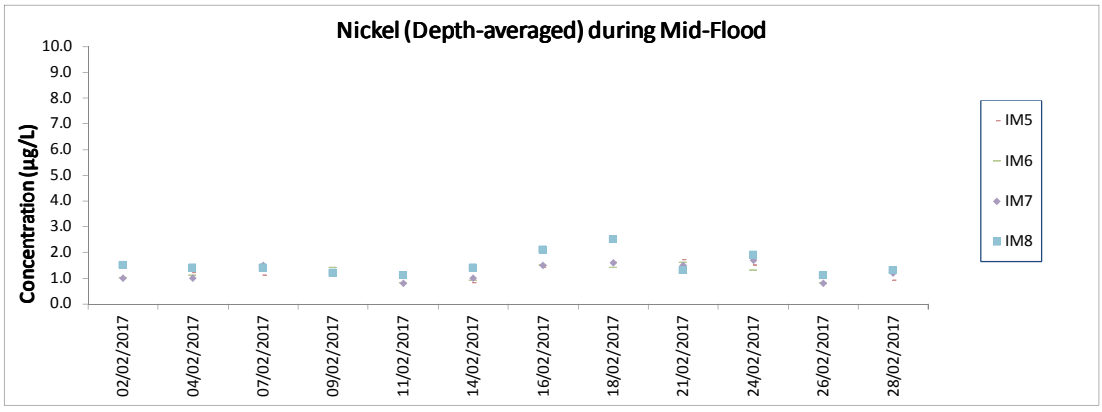


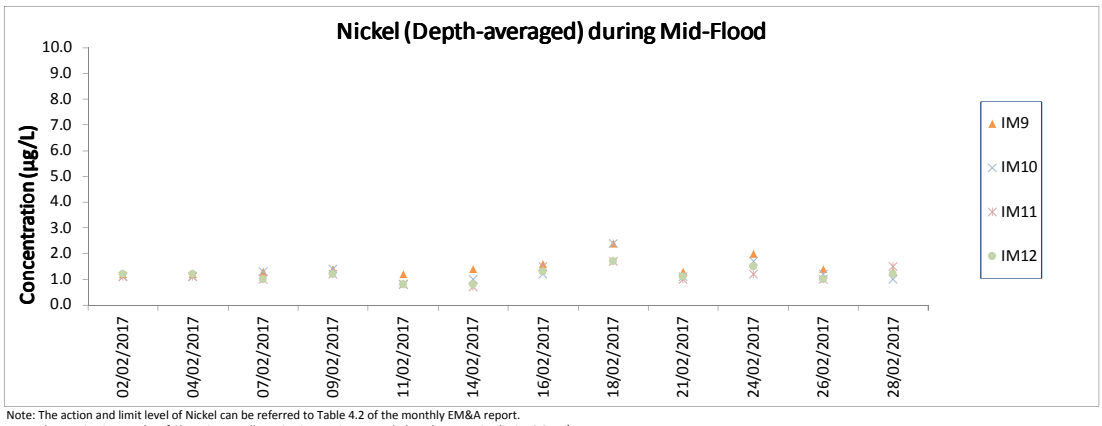


Note: The action and limit level of Nickel can be referred to Table 4.2 of the monthly EM&A report.









Note: The action and limit level of Nickel can be referred to Table 4.2 of the monthly EM&A report.
The monitoring results of Chromium at all monitoring stations were below the reporting limit <0.2 µg/L,
the impact monitoring results of Chromium at all monitoring stations can be referred to Appendix E. of the monthly EM&A report.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey — Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
02-Dec-16	NWL	2	24.31	WINTER	32166	3RS ET
02-Dec-16	NWL	3	54.34	WINTER	32166	3RS ET
02-Dec-16	NWL	4	3.20	WINTER	32166	3RS ET
05-Dec-16	AW	2	4.86	WINTER	32166	3RS ET
05-Dec-16	WL	2	9.23	WINTER	32166	3RS ET
05-Dec-16	WL	3	23.91	WINTER	32166	3RS ET
05-Dec-16	SWL	2	5.52	WINTER	32166	3RS ET
05-Dec-16	SWL	3	1.31	WINTER	32166	3RS ET
13-Dec-16	SWL	2	52.96	WINTER	32166	3RS ET
13-Dec-16	SWL	3	7.50	WINTER	32166	3RS ET
14-Dec-16	AW	3	1.96	WINTER	32166	3RS ET
14-Dec-16	AW	4	2.96	WINTER	32166	3RS ET
14-Dec-16	WL	3	13.26	WINTER	32166	3RS ET
14-Dec-16	WL	4	18.34	WINTER	32166	3RS ET
14-Dec-16	WL	5	2.20	WINTER	32166	3RS ET
14-Dec-16	SWL	3	2.29	WINTER	32166	3RS ET
14-Dec-16	SWL	4	4.41	WINTER	32166	3RS ET
19-Dec-16	NWL	2	39.79	WINTER	32166	3RS ET
19-Dec-16	NWL	3	22.34	WINTER	32166	3RS ET
19-Dec-16	NWL	4	3.20	WINTER	32166	3RS ET
20-Dec-16	NWL	2	7.59	WINTER	32166	3RS ET
20-Dec-16	NEL	1	3.67	WINTER	32166	3RS ET
20-Dec-16	NEL	2	17.41	WINTER	32166	3RS ET
20-Dec-16	NEL	3	22.32	WINTER	32166	3RS ET
20-Dec-16	NEL	4	3.00	WINTER	32166	3RS ET
22-Dec-16	SWL	2	0.90	WINTER	32166	3RS ET
22-Dec-16	SWL	3	25.80	WINTER	32166	3RS ET
22-Dec-16	SWL	4	23.20	WINTER	32166	3RS ET
22-Dec-16	SWL	5	13.20	WINTER	32166	3RS ET
23-Dec-16	NEL	1	7.40	WINTER	32166	3RS ET
23-Dec-16	NEL	2	27.00	WINTER	32166	3RS ET
23-Dec-16	NEL	3	12.80	WINTER	32166	3RS ET
05-Jan-17	AW	2	4.86	WINTER	32166	3RS ET
05-Jan-17	WL	1	12.53	WINTER	32166	3RS ET
05-Jan-17	WL	2	14.38	WINTER	32166	3RS ET
05-Jan-17	SWL	2	6.01	WINTER	32166	3RS ET
06-Jan-17	SWL	1	1.30	WINTER	32166	3RS ET
06-Jan-17	SWL	2	61.20	WINTER	32166	3RS ET
06-Jan-17	SWL	3	1.80	WINTER	32166	3RS ET
09-Jan-17	NWL	1	6.90	WINTER	32166	3RS ET
09-Jan-17	NWL	2	60.46	WINTER	32166	3RS ET
09-Jan-17	NWL	3	15.64	WINTER	32166	3RS ET
10-Jan-17	NEL	2	2.10	WINTER	32166	3RS ET
10-Jan-17	NEL	3	29.22	WINTER	32166	3RS ET
10-Jan-17	NEL	4	16.68	WINTER	32166	3RS ET
12-Jan-17	NWL	2	20.09	WINTER	32166	3RS ET
12-Jan-17	NWL	3	61.01	WINTER	32166	3RS ET

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
12-Jan-17	NWL	4	0.70	WINTER	32166	3RS ET
13-Jan-17	SWL	2	27.52	WINTER	32166	3RS ET
13-Jan-17	SWL	3	28.90	WINTER	32166	3RS ET
13-Jan-17	SWL	4	5.33	WINTER	32166	3RS ET
19-Jan-17	AW	1	4.59	WINTER	32166	3RS ET
19-Jan-17	WL	2	7.20	WINTER	32166	3RS ET
19-Jan-17	WL	3	14.13	WINTER	32166	3RS ET
19-Jan-17	WL	4	11.03	WINTER	32166	3RS ET
19-Jan-17	SWL	3	5.88	WINTER	32166	3RS ET
19-Jan-17	SWL	4	1.00	WINTER	32166	3RS ET
20-Jan-17	NEL	2	23.30	WINTER	32166	3RS ET
20-Jan-17	NEL	3	22.00	WINTER	32166	3RS ET
20-Jan-17	NEL	4	1.60	WINTER	32166	3RS ET
06-Feb-17	AW	2	2.94	WINTER	32166	3RS ET
06-Feb-17	AW	3	1.93	WINTER	32166	3RS ET
06-Feb-17	WL	2	17.00	WINTER	32166	3RS ET
06-Feb-17	WL	3	9.79	WINTER	32166	3RS ET
06-Feb-17	WL	4	3.53	WINTER	32166	3RS ET
06-Feb-17	SWL	4	2.54	WINTER	32166	3RS ET
06-Feb-17	SWL	5	4.35	WINTER	32166	3RS ET
07-Feb-17	NEL	2	5.80	WINTER	32166	3RS ET
07-Feb-17	NEL	3	25.76	WINTER	32166	3RS ET
07-Feb-17	NEL	4	11.47	WINTER	32166	3RS ET
07-Feb-17	NEL	5	4.27	WINTER	32166	3RS ET
09-Feb-17	SWL	2	0.90	WINTER	32166	3RS ET
09-Feb-17	SWL	3	14.17	WINTER	32166	3RS ET
09-Feb-17	SWL	4	15.23	WINTER	32166	3RS ET
09-Feb-17	SWL	5	32.40	WINTER	32166	3RS ET
10-Feb-17	NEL	1	3.30	WINTER	32166	3RS ET
10-Feb-17	NEL	2	8.03	WINTER	32166	3RS ET
10-Feb-17	NEL	3	34.17	WINTER	32166	3RS ET
10-Feb-17	NEL	4	2.00	WINTER	32166	3RS ET
16-Feb-17	AW	1	4.73	WINTER	32166	3RS ET
16-Feb-17	WL	1	18.36	WINTER	32166	3RS ET
16-Feb-17	WL	2	3.10	WINTER	32166	3RS ET
16-Feb-17	WL	3	6.07	WINTER	32166	3RS ET
17-Feb-17	SWL	1	37.70	WINTER	32166	3RS ET
17-Feb-17	SWL	2	29.26	WINTER	32166	3RS ET
20-Feb-17	NWL	1	27.20	WINTER	32166	3RS ET
20-Feb-17	NWL	2	48.10	WINTER	32166	3RS ET
21-Feb-17	NWL	3	14.17	WINTER	32166	3RS ET
21-Feb-17	NWL	4	38.72	WINTER	32166	3RS ET
21-Feb-17	NWL	5	21.81	WINTER	32166	3RS ET

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. November and December 2016) are presented for reference only.

CWD Small Vessel Line-transect Survey — Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
02-Dec-16	1	1129	CWD	2	NWL	3	172	ON	3RS ET	22.3780	113.8768	WINTER	NONE
02-Dec-16	2	1234	CWD	2	NWL	3	187	ON	3RS ET	22.3664	113.8876	WINTER	NONE
05-Dec-16	1	1028	CWD	2	WL	2	34	ON	3RS ET	22.2683	113.8608	WINTER	NONE
05-Dec-16	2	1045	CWD	1	WL	3	100	ON	3RS ET	22.2606	113.8480	WINTER	NONE
05-Dec-16	3	1110	CWD	5	WL	3	171	ON	3RS ET	22.2506	113.8363	WINTER	NONE
05-Dec-16	4	1154	CWD	1	WL	3	42	ON	3RS ET	22.2412	113.8365	WINTER	NONE
05-Dec-16	5	1250	CWD	11	WL	2	276	ON	3RS ET	22.2056	113.8398	WINTER	NONE
13-Dec-16	4	1239	CWD	2	SWL	2	611	ON	3RS ET	22.1771	113.9056	WINTER	NONE
13-Dec-16	5	1350	CWD	5	SWL	3	87	ON	3RS ET	22.1480	113.8884	WINTER	PAIR TRAWLER
13-Dec-16	6	1413	CWD	1	SWL	3	297	ON	3RS ET	22.1691	113.8878	WINTER	NONE
13-Dec-16	7	1436	CWD	1	SWL	2	72	ON	3RS ET	22.1998	113.8876	WINTER	NONE
13-Dec-16	8	1452	CWD	1	SWL	2	280	ON	3RS ET	22.2039	113.8779	WINTER	PURSE SEINE
13-Dec-16	9	1544	CWD	2	SWL	2	90	ON	3RS ET	22.1956	113.8685	WINTER	NONE
19-Dec-16	2	0943	CWD	6	NWL	3	687	ON	3RS ET	22.4160	113.8686	WINTER	NONE
19-Dec-16	3	1026	CWD	2	NWL	2	358	ON	3RS ET	22.3696	113.8679	WINTER	NONE
19-Dec-16	4	1036	CWD	4	NWL	2	460	ON	3RS ET	22.3689	113.8685	WINTER	NONE
19-Dec-16	5	1224	CWD	1	NWL	2	50	ON	3RS ET	22.3817	113.8760	WINTER	NONE
19-Dec-16	6	1234	CWD	4	NWL	2	497	ON	3RS ET	22.3893	113.8778	WINTER	NONE
19-Dec-16	7	1255	CWD	9	NWL	2	119	ON	3RS ET	22.3903	113.8888	WINTER	PURSE SEINE
05-Jan-17	1	1010	CWD	9	WL	2	822	ON	3RS ET	22.2934	113.8612	WINTER	NONE
05-Jan-17	2	1051	CWD	2	WL	2	1361	ON	3RS ET	22.2738	113.8482	WINTER	NONE
05-Jan-17	3	1118	CWD	2	WL	2	118	ON	3RS ET	22.2584	113.8381	WINTER	NONE
05-Jan-17	4	1150	CWD	1	WL	2	65	ON	3RS ET	22.2413	113.8339	WINTER	NONE
05-Jan-17	5	1208	CWD	1	WL	2	86	ON	3RS ET	22.2321	113.8316	WINTER	NONE
05-Jan-17	6	1223	CWD	1	WL	1	115	ON	3RS ET	22.2248	113.8374	WINTER	NONE
05-Jan-17	7	1315	CWD	11	WL	1	84	ON	3RS ET	22.2049	113.8249	WINTER	PAIR TRAWLER
05-Jan-17	8	1347	CWD	1	WL	1	49	ON	3RS ET	22.1961	113.8317	WINTER	NONE
05-Jan-17	9	1356	CWD	1	WL	1	59	ON	3RS ET	22.1960	113.8416	WINTER	NONE
05-Jan-17	10	1436	CWD	5	SWL	2	190	ON	3RS ET	22.1726	113.8527	WINTER	PAIR TRAWLER
06-Jan-17	1	1006	CWD	2	SWL	2	N/A	OFF	3RS ET	22.1938	113.8471	WINTER	NONE
06-Jan-17	2	1453	CWD	1	SWL	1	N/A	OFF	3RS ET	22.2230	113.9451	WINTER	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
12-Jan-17	1	1121	CWD	5	NWL	2	260	ON	3RS ET	22.3739	113.8775	WINTER	NONE
13-Jan-17	1	1016	CWD	3	SWL	3	N/A	OFF	3RS ET	22.1948	113.8538	WINTER	NONE
13-Jan-17	2	1036	CWD	11	SWL	3	435	ON	3RS ET	22.1998	113.8688	WINTER	NONE
13-Jan-17	3	1334	CWD	2	SWL	2	41	ON	3RS ET	22.1547	113.9030	WINTER	NONE
13-Jan-17	4	1434	CWD	1	SWL	3	44	ON	3RS ET	22.1847	113.9278	WINTER	NONE
19-Jan-17	1	0926	CWD	3	AW	1	23	ON	3RS ET	22.3010	113.8864	WINTER	NONE
19-Jan-17	2	1022	CWD	1	WL	3	383	ON	3RS ET	22.2791	113.8613	WINTER	NONE
19-Jan-17	3	1107	CWD	6	WL	2	690	ON	3RS ET	22.2594	113.8430	WINTER	GILLNET
19-Jan-17	4	1131	CWD	1	WL	3	950	ON	3RS ET	22.2504	113.8413	WINTER	NONE
19-Jan-17	5	1217	CWD	2	WL	3	N/A	OFF	3RS ET	22.2234	113.8320	WINTER	NONE
19-Jan-17	6	1403	CWD	4	SWL	3	69	ON	3RS ET	22.1951	113.8587	WINTER	NONE
19-Jan-17	7	1436	CWD	2	WL	3	N/A	OFF	3RS ET	22.2198	113.8341	WINTER	NONE
19-Jan-17	8	1439	CWD	3	WL	3	N/A	OFF	3RS ET	22.2218	113.8351	WINTER	NONE
06-Feb-17	1	1013	CWD	3	WL	3	854	ON	3RS ET	22.2826	113.8613	WINTER	NONE
06-Feb-17	2	1140	CWD	3	WL	2	243	ON	3RS ET	22.2237	113.8323	WINTER	NONE
06-Feb-17	3	1218	CWD	3	WL	3	23	ON	3RS ET	22.2147	113.8300	WINTER	NONE
16-Feb-17	1	0957	CWD	2	AW	1	16	ON	3RS ET	22.2920	113.8749	WINTER	GILLNET
16-Feb-17	2	1037	CWD	5	WL	1	220	ON	3RS ET	22.2953	113.8612	WINTER	NONE
16-Feb-17	3	1121	CWD	4	WL	1	58	ON	3RS ET	22.2628	113.8564	WINTER	NONE
16-Feb-17	4	1147	CWD	3	WL	1	244	ON	3RS ET	22.2602	113.8470	WINTER	NONE
16-Feb-17	5	1206	CWD	2	WL	1	53	ON	3RS ET	22.2535	113.8348	WINTER	NONE
16-Feb-17	6	1215	CWD	3	WL	1	20	ON	3RS ET	22.2504	113.8378	WINTER	NONE
16-Feb-17	7	1231	CWD	7	WL	1	173	ON	3RS ET	22.2418	113.8473	WINTER	NONE
16-Feb-17	8	1304	CWD	2	WL	1	19	ON	3RS ET	22.2414	113.8428	WINTER	NONE
16-Feb-17	9	1315	CWD	2	WL	1	31	ON	3RS ET	22.2382	113.8266	WINTER	NONE
16-Feb-17	10	1333	CWD	14	WL	1	226	ON	3RS ET	22.2308	113.8381	WINTER	PURSE SEINE
16-Feb-17	11	1420	CWD	2	WL	2	452	ON	3RS ET	22.2139	113.8244	WINTER	NONE
16-Feb-17	12	1449	CWD	1	WL	2	29	ON	3RS ET	22.2051	113.8191	WINTER	NONE
17-Feb-17	1	1048	FP	2	SWL	2	174	ON	3RS ET	22.1586	113.9356	WINTER	NONE
17-Feb-17	2	1238	CWD	3	SWL	1	1380	ON	3RS ET	22.2005	113.9079	WINTER	PURSE SEINE
17-Feb-17	3	1349	CWD	2	SWL	1	50	ON	3RS ET	22.1889	113.8879	WINTER	NONE
17-Feb-17	4	1551	CWD	1	SWL	1	N/A	OFF	3RS ET	22.2009	113.8934	WINTER	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
17-Feb-17	5	1559	CWD	1	SWL	1	N/A	OFF	3RS ET	22.2025	113.9121	WINTER	NONE
20-Feb-17	1	1137	CWD	1	NWL	2	259	ON	3RS ET	22.3819	113.8760	WINTER	NONE
21-Feb-17	1	1137	CWD	4	NWL	3	64	ON	3RS ET	22.3866	113.8776	WINTER	NONE

Abbreviations: STG# = Sighting Number; GP SZ = Dolphin Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. December 2016 and January 2017) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report.

Sighting data of finless porpoise (FP) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report. All FP sightings are excluded in calculation.

Calculation of the February 2017 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 312.48 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 19 on-effort sightings and total number of 66 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in February 2017 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in February 2017

$$STG = \frac{19}{312.48}\ x\ 100 = 6.08$$

Encounter Rate by Number of Dolphins (ANI) in February 2017

$$ANI = \frac{66}{312.48}\ x\ 100 = 21.12$$

Calculation of the running quarterly STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 1131.97 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 57 on-effort sightings and total number of 196 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)

$$STG = \frac{57}{1131.97}\ x\ 100 = 5.04$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{196}{1131.97}\ x\ 100 = 17.31$$

CWD Small Vessel Line-transect Survey **Photo Identification**

WLMM071_20170206_1_2

SLMM007_20170206_3_2

WLMM060_20170216_1_1

WLMM071_20170216_1_3

SLMM049_20170216_3_3

WLMM043_20170216_4_4

SLMM010_20170216_10_2

SLMM014_20170216_10_1

	
SLMM022_20170216_10_6	SLMM036_20170216_10_1
	
SLMM047_20170216_10_7	SLMM049_20170216_10_8
	
SLMM052_20170216_10_5	WLMM003_20170216_10_3
	
WLMM007_20170216_10_10	WLMM017_20170216_10_2

	
WLMM025_20170216_10_8	WLMM056_20170216_10_5
	
WLMM073_20170216_10_3	SLMM025_20170216_11_2
	
SLMM011_20170217_2_3	SLMM018_20170217_3_5
	
SLMM031_20170217_2_2	SLMM018_20170217_3_6

	
SLMM031_20170217_3_5	

CWD Land-based Theodolite Tracking

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
14/Feb/17	Sha Chau	8:34	14:34	6:00	2-3	1	0	0
15/Feb/17	Lung Kwu Chau	8:38	14:38	6:00	2-3	2	12	1-4
20/Feb/17	Lung Kwu Chau	8:45	14:45	6:00	1	3-4	0	0
27/Feb/17	Sha Chau	8:45	14:45	6:00	2-4	2	0	0
28/Feb/17	Lung Kwu Chau	8:47	15:02	6:15	1-2	2	12	1-7

Visibility: 1=Excellent, 2=Good, 3=Fair, 4=Poor

Ecological Monitoring

Ecological Monitoring – site photos and location map regarding the monthly ecological monitoring for the egretry area on Sheung Sha Chau and the HDD works

Appendix D. Status of Environmental Permits and Licences

Statutory Reference	Description		Permit/ Reference No.	Status
EIAO	Environmental Permit		EP-489/2014	Approved on 7 Nov 2014
Contract No.	**Description**	**Location**	**Permit/ Reference No.**	**Status**
P560 (R)	Notification of Construction Work under APCO	Launching Site	397150	Receipt acknowledged by EPD on 15 Jan 2016
		Site Office	397151	
		Stockpiling Area	398015	Receipt acknowledged by EPD on 18 Jan 2016
		Sheung Sha Chau	405860	Receipt acknowledged by EPD on 5 Aug 2016
	Construction Noise Permit (General Works)	Launching Site	GW-RS0968-16	Valid from 21 Sep 2016 to 20 Mar 2017
		Stockpiling Area	GW-RS0974-16	Valid from 23 Sep 2016 to 22 Mar 2017
		Sheung Sha Chau	GW-RW0642-16	Valid from 13 Nov 2016 to 26 Mar 2017
	Discharge License under WPCO	Launching Site	WT00024249-2016	Approved on 25 Apr 2016
		Stockpiling Area	WT00024250-2016	Approved on 25 Apr 2016
	Registration as Chemical Waste Producer	Launching Site	WPN 5213-951-L2902-01	Update the Registration on 3 Oct 2016
		Stockpiling Area	WPN 5213-951-L2902-02	Update the Registration on 3 Oct 2016
	Bill Account for disposal		A/C 7023982	Approval granted from EPD on 14 Dec 2015
3201	Notification of Construction Work under APCO	Works area of 3201	406004	Receipt acknowledged by EPD on 10 Aug 2016
	Construction Noise Permit (General Works)	Works area of 3201	GW-RS1276-16	Valid from 14 Dec 2016 to 13 Jun 2017 (Superseded by GW-RS123-17 on 12 Feb 2017)

Statutory Reference	Description		Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3201	GW-RS0123-17	Valid from 12 Feb 2017 to 11 Aug 2017
	Registration as Chemical Waste Producer	Works area of 3201	WPN 5213-951-P3231-01	Completion of Registration on 9 Sep 2016
	Bill Account for disposal		A/C 7025760	Approval granted from EPD on 31 Aug 2016
3202	Notification of Construction Work under APCO	Works area of 3202	407624	Receipt acknowledged by EPD on 15 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3202	GW-RS155-17	Valid from 24 Feb 2017 to 23 Aug 2017
	Construction Noise Permit (General Works)	Site Office of 3202	GW-RS145-17	Valid from 21 Feb 2017 to 20 Aug 2017
	Bill Account for disposal		A/C 7025739	Approval granted from EPD on 31 August 2016
3203	Notification of Construction Work under APCO	Works area of 3203	407053	Receipt acknowledged by EPD on 2 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3203	GW-RS0014-17	Valid from 12 Jan 2017 to 11 Jun 2017
	Registration as Chemical Waste Producer	Works area of 3203	WPN 5213-951-S3954-01	Update the Registration on 12 Dec 2016
	Bill Account for disposal		7025846	Approval granted from EPD on 9 Sep 2016
3204	Notification of Construction Work under APCO	Works area of 3204	406446	Receipt acknowledged by EPD on 19 Aug 2016
		Site Office of 3204	407726	Receipt acknowledged by EPD on 19 Sep 2016
		Site Office of 3204	413046	Receipt acknowledged by EPD on 3 Feb 2017
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS1365-16	Valid from 4 Jan 2017 to 3 Jul 2017 (Superseded by GW-RS135-17 on 17 Feb 2017)
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS135-17	Valid from 17 Feb 2017 to 16 Aug 2017
	Construction Noise Permit (General Works)	Site Office of 3204	GW-RS136-17	Valid from 17 Feb 2017 to 16 Aug 2017

Statutory Reference	Description		Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works Area of 3204	WPN 5213-951-C4102-01	Completion of Registration on 15 Sep 2016
	Bill Account for disposal		A/C 7025969	Approval granted from EPD on 21 Sep 2016
3205	Notification of Construction Work under APCO	Works area of 3205	409041	Receipt acknowledged by EPD on 19 Oct 2016
	Registration as Chemical Waste Producer	Works Area of 3205	WPN 5213-951-B2502-01	Completion of Registration on 13 Jan 2017
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0076-17	Valid from 26 Jan 2017 to 25 Jul 2017 (Superseded by GW-RS0152-17 on 23 Feb 2017)
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0152-17	Valid from 23 Feb 2017 to 22 Aug 2017
	Bill Account for disposal	Works area of 3205	A/C 7026295	Approval granted from EPD on 9 Nov 2016
3206	Notification of Construction Work under APCO	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oct 2016
	Registration as Chemical Waste Producer	Site office of 3206	WPN 5213-951-Z4035-01	Completion of Registration on 18 Nov 2016
	Registration as Chemical Waste Producer	Works area of 3206	WPN 5213-951-Z4035-02	Completion of Registration on 18 Nov 2016
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS1280-16	Valid from 14 Dec 2016 to 13 Mar 2017 (Superseded by GW-RS0119-17 on 10 Feb 2017)
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0119-17	Valid from 10 Feb 2017 to 10 Jun 2017
	Construction Noise Permit (General Works)	Site Office of 3206	GW-RS0148-17	Valid from 27 Feb 2017 to 10 Jun 2017
	Bill Account for disposal	Works area of 3206	70263986	Approval granted from EPD on 16 Nov 2016

Appendix E. Cumulative Statistics on Exceedances, Environmental Complaints, Notification of Summons and Status of Prosecution

Statistics for Exceedances for 1-hour TSP, Noise, Water, Waste and CWD Monitoring

		Total no. recorded in the reporting month	Total no. recorded since the project commenced
1-hr TSP	Action	0	0
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water	Action	0	0
	Limit	0	0
Waste	Action	0	0
	Limit	0	0
CWD	Action	0	0
	Limit	0	0

Remark: Exceedances, which are not project related, are not shown in this table.

Statistics for Complaints, Notifications of Summons and Prosecution

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Prosecutions
This reporting month	0	0	0
From 28 December 2015 to end of the reporting month	2	0	0

Appendix F. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 28 February 2017)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 28 February 2017)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
01-Feb	08:19	3A061	YFT	Arrival	11.1	-	-
01-Feb	08:31	8S210	MFM	Arrival	10.9	-	-
01-Feb	10:01	3A071	MFM	Arrival	12.0	-	-
01-Feb	10:51	3A081	ZUI	Arrival	12.5	-	-
01-Feb	10:52	8S212	MFM	Arrival	11.6	-	-
01-Feb	11:09	8S121	MFM	Departure	12.0	-	-
01-Feb	11:15	3A063	YFT	Arrival	12.6	-	-
01-Feb	12:21	3A168	YFT	Departure	13.4	-	-
01-Feb	12:24	3A181	ZUI	Departure	13.4	-	-
01-Feb	12:51	8S215	MFM	Arrival	13.1	-	-
01-Feb	12:57	3A064	YFT	Arrival	11.5	-	-
01-Feb	13:13	8S123	MFM	Departure	13.1	-	-
01-Feb	13:48	3A082	ZUI	Arrival	13.4	-	-
01-Feb	14:19	3A164	YFT	Departure	11.5	-	-
01-Feb	14:25	3A182	ZUI	Departure	13.7	-	-
01-Feb	15:00	3A065	YFT	Arrival	13.3	-	-
01-Feb	16:17	3A167	YFT	Departure	12.7	-	-
01-Feb	16:36	3A083	ZUI	Arrival	13.6	-	-
01-Feb	16:43	8S218	MFM	Arrival	12.3	-	-
01-Feb	16:53	3A067	YFT	Arrival	11.7	-	-
01-Feb	17:08	8S126	MFM	Departure	13.3	-	-
01-Feb	17:10	3A183	ZUI	Departure	13.3	-	-
01-Feb	19:07	3A166	YFT	Departure	12.4	-	-
01-Feb	19:48	3A084	ZUI	Arrival	12.8	-	-
01-Feb	20:14	3A185	ZUI	Departure	13.8	-	-
01-Feb	21:03	8S2113	MFM	Arrival	12.4	-	-
01-Feb	21:03	3A169	YFT	Departure	12.1	-	-
01-Feb	21:57	8S522	MFM	Departure	12.4	-	-
02-Feb	08:18	3A061	YFT	Arrival	11.9	-	-
02-Feb	08:27	8S210	MFM	Arrival	13.0	-	-
02-Feb	10:01	3A071	MFM	Arrival	10.9	-	-
02-Feb	10:46	8S212	MFM	Arrival	12.4	-	-
02-Feb	10:47	3A081	ZUI	Arrival	12.6	-	-
02-Feb	11:03	8S121	MFM	Departure	12.4	-	-
02-Feb	11:13	3A063	YFT	Arrival	13.0	-	-
02-Feb	12:16	3A181	ZUI	Departure	13.1	-	-
02-Feb	12:22	3A168	YFT	Departure	13.1	-	-
02-Feb	12:46	8S215	MFM	Arrival	12.7	-	-
02-Feb	12:55	3A064	YFT	Arrival	12.6	-	-
02-Feb	13:21	8S123	MFM	Departure	13.4	-	-
02-Feb	13:55	3A082	ZUI	Arrival	12.5	-	-
02-Feb	14:21	3A164	YFT	Departure	13.0	-	-
02-Feb	14:28	3A182	ZUI	Departure	12.8	-	-
02-Feb	14:58	3A065	YFT	Arrival	13.5	-	-
02-Feb	16:18	3A167	YFT	Departure	14.0	-	-
02-Feb	16:39	8S218	MFM	Arrival	12.8	-	-
02-Feb	16:43	3A083	ZUI	Arrival	13.3	-	-
02-Feb	16:52	3A067	YFT	Arrival	13.4	-	-
02-Feb	17:02	8S126	MFM	Departure	13.2	-	-
02-Feb	17:07	3A183	ZUI	Departure	13.1	-	-
02-Feb	19:07	3A166	YFT	Departure	12.2	-	-
02-Feb	19:48	3A084	ZUI	Arrival	12.2	-	-
02-Feb	20:18	3A185	ZUI	Departure	13.8	-	-
02-Feb	20:56	8S2113	MFM	Arrival	10.5	-	-
02-Feb	21:04	3A169	YFT	Departure	13.1	-	-
02-Feb	21:59	8S522	MFM	Departure	12.2	-	-
03-Feb	08:19	3A061	YFT	Arrival	12.9	-	-
03-Feb	08:27	8S210	MFM	Arrival	12.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
03-Feb	10:04	3A071	MFM	Arrival	11.5	-	-
03-Feb	10:40	3A081	ZUI	Arrival	12.6	-	-
03-Feb	10:44	8S212	MFM	Arrival	11.6	-	-
03-Feb	11:10	8S121	MFM	Departure	11.7	-	-
03-Feb	11:19	3A063	YFT	Arrival	12.2	-	-
03-Feb	12:14	3A168	YFT	Departure	12.8	-	-
03-Feb	12:19	3A181	ZUI	Departure	14.1	-	-
03-Feb	12:44	8S215	MFM	Arrival	13.1	-	-
03-Feb	13:07	3A064	YFT	Arrival	13.4	-	-
03-Feb	13:18	8S123	MFM	Departure	12.7	-	-
03-Feb	13:50	3A082	ZUI	Arrival	13.9	-	-
03-Feb	14:21	3A164	YFT	Departure	13.9	-	-
03-Feb	14:36	3A182	ZUI	Departure	13.2	-	-
03-Feb	14:50	3A065	YFT	Arrival	12.8	-	-
03-Feb	16:19	3A167	YFT	Departure	13.1	-	-
03-Feb	16:39	3A083	ZUI	Arrival	13.1	-	-
03-Feb	16:50	8S218	MFM	Arrival	13.0	-	-
03-Feb	16:56	3A067	YFT	Arrival	13.5	-	-
03-Feb	17:09	8S126	MFM	Departure	13.5	-	-
03-Feb	17:10	3A183	ZUI	Departure	13.9	-	-
03-Feb	19:17	3A166	YFT	Departure	13.2	-	-
03-Feb	19:44	3A084	ZUI	Arrival	13.1	-	-
03-Feb	20:16	3A185	ZUI	Departure	13.9	-	-
03-Feb	20:55	8S2113	MFM	Arrival	12.3	-	-
03-Feb	21:02	3A169	YFT	Departure	11.8	-	-
03-Feb	22:03	8S522	MFM	Departure	13.6	-	-
04-Feb	08:13	3A061	YFT	Arrival	12.4	-	-
04-Feb	08:23	8S210	MFM	Arrival	13.4	-	-
04-Feb	09:56	3A071	MFM	Arrival	11.6	-	-
04-Feb	10:45	3A081	ZUI	Arrival	12.7	-	-
04-Feb	10:47	8S212	MFM	Arrival	10.7	-	-
04-Feb	11:02	8S121	MFM	Departure	12.7	-	-
04-Feb	11:20	3A063	YFT	Arrival	12.7	-	-
04-Feb	12:25	3A181	ZUI	Departure	14.0	-	-
04-Feb	12:31	3A168	YFT	Departure	12.4	-	-
04-Feb	12:58	3A064	YFT	Arrival	12.2	-	-
04-Feb	12:58	8S215	MFM	Arrival	11.9	-	-
04-Feb	13:18	8S123	MFM	Departure	12.0	-	-
04-Feb	13:50	3A082	ZUI	Arrival	12.4	-	-
04-Feb	14:14	3A182	ZUI	Departure	13.3	-	-
04-Feb	14:15	3A164	YFT	Departure	13.2	-	-
04-Feb	15:00	3A065	YFT	Arrival	12.6	-	-
04-Feb	16:15	3A167	YFT	Departure	11.9	-	-
04-Feb	16:35	3A083	ZUI	Arrival	13.6	-	-
04-Feb	16:40	8S218	MFM	Arrival	12.2	-	-
04-Feb	16:56	3A067	YFT	Arrival	12.7	-	-
04-Feb	17:07	3A183	ZUI	Departure	13.8	-	-
04-Feb	17:09	8S126	MFM	Departure	11.7	-	-
04-Feb	19:10	3A166	YFT	Departure	12.0	-	-
04-Feb	19:33	3A084	ZUI	Arrival	13.0	≤5	<1
04-Feb	20:15	3A185	ZUI	Departure	13.9	-	-
04-Feb	20:54	8S2113	MFM	Arrival	13.0	-	-
04-Feb	21:05	3A169	YFT	Departure	12.4	-	-
04-Feb	21:59	8S522	MFM	Departure	12.7	-	-
05-Feb	08:23	3A061	YFT	Arrival	11.9	-	-
05-Feb	08:29	8S210	MFM	Arrival	12.1	-	-
05-Feb	09:52	3A071	MFM	Arrival	13.1	-	-
05-Feb	10:39	8S212	MFM	Arrival	12.2	-	-
05-Feb	10:42	3A081	ZUI	Arrival	13.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
05-Feb	11:10	8S121	MFM	Departure	13.6	-	-
05-Feb	11:19	3A063	YFT	Arrival	11.7	-	-
05-Feb	12:22	3A168	YFT	Departure	12.1	-	-
05-Feb	12:25	3A181	ZUI	Departure	14.0	-	-
05-Feb	12:45	8S215	MFM	Arrival	12.9	-	-
05-Feb	13:05	3A064	YFT	Arrival	11.6	-	-
05-Feb	13:14	8S123	MFM	Departure	13.4	-	-
05-Feb	13:23	3A082	ZUI	Arrival	12.9	≤5	<1
05-Feb	14:18	3A182	ZUI	Departure	12.9	-	-
05-Feb	14:21	3A164	YFT	Departure	11.6	-	-
05-Feb	14:56	3A065	YFT	Arrival	12.4	-	-
05-Feb	16:23	3A167	YFT	Departure	12.3	-	-
05-Feb	16:37	3A083	ZUI	Arrival	13.0	-	-
05-Feb	16:51	8S218	MFM	Arrival	11.9	-	-
05-Feb	17:02	3A067	YFT	Arrival	11.8	-	-
05-Feb	17:04	3A183	ZUI	Departure	13.9	-	-
05-Feb	17:11	8S126	MFM	Departure	13.5	-	-
05-Feb	19:15	3A166	YFT	Departure	12.8	-	-
05-Feb	19:46	3A084	ZUI	Arrival	13.0	-	-
05-Feb	20:11	3A185	ZUI	Departure	13.7	-	-
05-Feb	20:56	8S2113	MFM	Arrival	12.0	-	-
05-Feb	21:18	3A169	YFT	Departure	12.4	-	-
05-Feb	21:58	8S522	MFM	Departure	12.2	-	-
06-Feb	08:21	3A061	YFT	Arrival	12.9	-	-
06-Feb	08:23	8S210	MFM	Arrival	12.7	-	-
06-Feb	09:58	3A071	MFM	Arrival	12.5	-	-
06-Feb	10:45	8S212	MFM	Arrival	12.0	-	-
06-Feb	10:48	3A081	ZUI	Arrival	13.2	-	-
06-Feb	11:04	8S121	MFM	Departure	12.0	-	-
06-Feb	11:23	3A063	YFT	Arrival	12.8	-	-
06-Feb	12:12	3A181	ZUI	Departure	13.7	-	-
06-Feb	12:15	3A168	YFT	Departure	12.6	-	-
06-Feb	12:47	8S215	MFM	Arrival	10.2	-	-
06-Feb	12:59	3A064	YFT	Arrival	12.7	-	-
06-Feb	13:16	8S123	MFM	Departure	11.8	-	-
06-Feb	13:51	3A082	ZUI	Arrival	11.7	-	-
06-Feb	14:27	3A164	YFT	Departure	11.8	-	-
06-Feb	14:29	3A182	ZUI	Departure	12.5	-	-
06-Feb	14:57	3A065	YFT	Arrival	11.7	-	-
06-Feb	16:32	3A167	YFT	Departure	13.3	-	-
06-Feb	16:38	3A083	ZUI	Arrival	12.8	-	-
06-Feb	16:50	8S218	MFM	Arrival	10.1	-	-
06-Feb	17:05	3A067	YFT	Arrival	12.8	-	-
06-Feb	17:15	3A183	ZUI	Departure	13.3	-	-
06-Feb	17:19	8S126	MFM	Departure	11.7	-	-
06-Feb	19:38	3A166	YFT	Departure	12.4	≤5	<1
06-Feb	19:52	3A084	ZUI	Arrival	13.3	-	-
06-Feb	20:20	3A185	ZUI	Departure	12.6	-	-
06-Feb	20:54	8S2113	MFM	Arrival	12.5	-	-
06-Feb	21:17	3A169	YFT	Departure	11.6	-	-
06-Feb	22:00	8S522	MFM	Departure	12.5	-	-
07-Feb	08:19	3A061	YFT	Arrival	12.7	-	-
07-Feb	08:32	8S210	MFM	Arrival	10.3	-	-
07-Feb	10:13	3A071	MFM	Arrival	12.7	-	-
07-Feb	10:38	8S212	MFM	Arrival	12.5	-	-
07-Feb	10:50	3A081	ZUI	Arrival	13.3	-	-
07-Feb	11:06	8S121	MFM	Departure	13.0	-	-
07-Feb	11:19	3A063	YFT	Arrival	12.7	-	-
07-Feb	12:12	3A181	ZUI	Departure	13.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
07-Feb	12:18	3A168	YFT	Departure	12.3	-	-
07-Feb	12:50	8S215	MFM	Arrival	12.1	-	-
07-Feb	13:01	3A064	YFT	Arrival	12.6	-	-
07-Feb	13:15	8S123	MFM	Departure	12.9	-	-
07-Feb	13:56	3A082	ZUI	Arrival	12.7	-	-
07-Feb	14:20	3A164	YFT	Departure	11.4	-	-
07-Feb	14:22	3A182	ZUI	Departure	13.1	-	-
07-Feb	15:00	3A065	YFT	Arrival	11.9	-	-
07-Feb	16:30	3A167	YFT	Departure	12.4	≤5	<1
07-Feb	16:43	3A083	ZUI	Arrival	13.2	-	-
07-Feb	16:48	8S218	MFM	Arrival	11.6	-	-
07-Feb	17:01	3A067	YFT	Arrival	12.3	-	-
07-Feb	17:12	8S126	MFM	Departure	12.7	-	-
07-Feb	17:14	3A183	ZUI	Departure	13.5	-	-
07-Feb	19:08	3A166	YFT	Departure	12.7	-	-
07-Feb	19:45	3A084	ZUI	Arrival	13.0	-	-
07-Feb	20:24	3A185	ZUI	Departure	13.6	-	-
07-Feb	20:54	3A169	YFT	Departure	12.2	-	-
07-Feb	20:56	8S2113	MFM	Arrival	11.4	-	-
07-Feb	22:08	8S522	MFM	Departure	12.7	-	-
08-Feb	08:20	3A061	YFT	Arrival	12.2	-	-
08-Feb	08:33	8S210	MFM	Arrival	12.1	-	-
08-Feb	09:59	3A071	MFM	Arrival	6.4	-	-
08-Feb	10:37	8S212	MFM	Arrival	12.3	-	-
08-Feb	10:46	3A081	ZUI	Arrival	12.4	-	-
08-Feb	11:17	3A063	YFT	Arrival	11.4	-	-
08-Feb	11:18	8S121	MFM	Departure	12.9	-	-
08-Feb	12:23	3A181	ZUI	Departure	12.2	-	-
08-Feb	12:23	3A168	YFT	Departure	11.9	-	-
08-Feb	12:46	8S215	MFM	Arrival	12.6	-	-
08-Feb	13:01	3A064	YFT	Arrival	11.8	-	-
08-Feb	13:13	8S123	MFM	Departure	13.0	-	-
08-Feb	13:47	3A082	ZUI	Arrival	12.9	-	-
08-Feb	14:16	3A182	ZUI	Departure	13.5	-	-
08-Feb	14:20	3A164	YFT	Departure	11.3	-	-
08-Feb	15:01	3A065	YFT	Arrival	11.7	-	-
08-Feb	16:23	3A167	YFT	Departure	11.7	-	-
08-Feb	16:38	3A083	ZUI	Arrival	12.3	-	-
08-Feb	16:41	8S218	MFM	Arrival	11.9	-	-
08-Feb	17:02	8S126	MFM	Departure	13.9	-	-
08-Feb	17:04	3A183	ZUI	Departure	13.5	-	-
08-Feb	17:10	3A067	YFT	Arrival	11.6	-	-
08-Feb	19:15	3A166	YFT	Departure	12.3	-	-
08-Feb	19:54	3A084	ZUI	Arrival	12.4	-	-
08-Feb	20:23	3A185	ZUI	Departure	11.0	-	-
08-Feb	20:58	8S2113	MFM	Arrival	12.0	-	-
08-Feb	21:06	3A169	YFT	Departure	12.6	-	-
08-Feb	22:12	8S522	MFM	Departure	11.6	-	-
09-Feb	08:17	3A061	YFT	Arrival	11.3	-	-
09-Feb	08:29	8S210	MFM	Arrival	11.5	-	-
09-Feb	10:09	3A071	MFM	Arrival	11.7	-	-
09-Feb	10:43	3A081	ZUI	Arrival	12.7	-	-
09-Feb	10:47	8S212	MFM	Arrival	10.8	-	-
09-Feb	11:05	8S121	MFM	Departure	11.4	-	-
09-Feb	11:19	3A063	YFT	Arrival	12.0	-	-
09-Feb	12:25	3A168	YFT	Departure	11.6	-	-
09-Feb	12:26	3A181	ZUI	Departure	13.2	-	-
09-Feb	12:42	8S215	MFM	Arrival	13.5	-	-
09-Feb	13:03	3A064	YFT	Arrival	12.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
09-Feb	13:18	8S123	MFM	Departure	12.2	-	-
09-Feb	13:57	3A082	ZUI	Arrival	13.1	-	-
09-Feb	14:17	3A164	YFT	Departure	11.6	-	-
09-Feb	14:19	3A182	ZUI	Departure	13.1	-	-
09-Feb	14:58	3A065	YFT	Arrival	11.9	-	-
09-Feb	16:17	3A167	YFT	Departure	12.6	-	-
09-Feb	16:36	8S218	MFM	Arrival	12.1	-	-
09-Feb	16:39	3A083	ZUI	Arrival	13.1	-	-
09-Feb	17:06	3A067	YFT	Arrival	11.5	-	-
09-Feb	17:08	8S126	MFM	Departure	12.0	-	-
09-Feb	17:15	3A183	ZUI	Departure	13.5	-	-
09-Feb	19:00	3A166	YFT	Departure	13.5	-	-
09-Feb	19:56	3A084	ZUI	Arrival	13.1	-	-
09-Feb	20:12	3A185	ZUI	Departure	13.3	-	-
09-Feb	21:00	8S2113	MFM	Arrival	11.3	-	-
09-Feb	21:01	3A169	YFT	Departure	13.9	-	-
09-Feb	22:00	8S522	MFM	Departure	11.8	-	-
10-Feb	08:20	3A061	YFT	Arrival	11.8	-	-
10-Feb	08:25	8S210	MFM	Arrival	12.5	-	-
10-Feb	09:57	3A071	MFM	Arrival	11.9	-	-
10-Feb	10:40	8S212	MFM	Arrival	12.1	-	-
10-Feb	10:53	3A081	ZUI	Arrival	13.1	-	-
10-Feb	10:59	3A063	YFT	Arrival	13.4	≤5	<1
10-Feb	11:04	8S121	MFM	Departure	12.9	-	-
10-Feb	12:08	3A181	ZUI	Departure	13.9	-	-
10-Feb	12:19	3A168	YFT	Departure	12.9	-	-
10-Feb	12:43	8S215	MFM	Arrival	12.7	-	-
10-Feb	13:04	3A064	YFT	Arrival	12.3	-	-
10-Feb	13:11	8S123	MFM	Departure	12.1	-	-
10-Feb	13:44	3A082	ZUI	Arrival	12.7	-	-
10-Feb	14:12	3A182	ZUI	Departure	13.9	-	-
10-Feb	14:17	3A164	YFT	Departure	11.1	-	-
10-Feb	14:57	3A065	YFT	Arrival	12.8	-	-
10-Feb	16:23	3A167	YFT	Departure	12.9	-	-
10-Feb	16:36	3A083	ZUI	Arrival	12.7	-	-
10-Feb	16:46	8S218	MFM	Arrival	12.3	-	-
10-Feb	16:59	3A067	YFT	Arrival	12.8	-	-
10-Feb	17:04	8S126	MFM	Departure	12.3	-	-
10-Feb	17:06	3A183	ZUI	Departure	13.3	-	-
10-Feb	19:08	3A166	YFT	Departure	12.9	-	-
10-Feb	19:53	3A084	ZUI	Arrival	13.2	-	-
10-Feb	20:17	3A185	ZUI	Departure	12.2	-	-
10-Feb	20:57	8S2113	MFM	Arrival	12.2	-	-
10-Feb	21:00	3A169	YFT	Departure	12.3	-	-
10-Feb	22:02	8S522	MFM	Departure	11.8	-	-
11-Feb	07:58	3A061	YFT	Arrival	13.2	≤5	<1
11-Feb	08:29	8S210	MFM	Arrival	11.8	-	-
11-Feb	10:05	3A071	MFM	Arrival	11.6	-	-
11-Feb	10:40	8S212	MFM	Arrival	12.7	-	-
11-Feb	10:49	3A081	ZUI	Arrival	13.4	-	-
11-Feb	11:03	8S121	MFM	Departure	13.2	-	-
11-Feb	11:24	3A063	YFT	Arrival	13.3	-	-
11-Feb	12:14	3A168	YFT	Departure	12.6	-	-
11-Feb	12:16	3A181	ZUI	Departure	13.5	-	-
11-Feb	12:43	8S215	MFM	Arrival	11.8	-	-
11-Feb	12:58	3A064	YFT	Arrival	12.5	-	-
11-Feb	13:19	8S123	MFM	Departure	11.0	-	-
11-Feb	13:24	3A082	ZUI	Arrival	14.0	-	-
11-Feb	14:17	3A164	YFT	Departure	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
11-Feb	14:18	3A182	ZUI	Departure	13.3	-	-
11-Feb	14:55	3A065	YFT	Arrival	13.0	-	-
11-Feb	16:15	3A167	YFT	Departure	13.2	-	-
11-Feb	16:41	3A083	ZUI	Arrival	12.7	-	-
11-Feb	16:41	8S218	MFM	Arrival	13.5	-	-
11-Feb	16:58	3A067	YFT	Arrival	11.9	-	-
11-Feb	17:06	8S126	MFM	Departure	12.6	-	-
11-Feb	17:10	3A183	ZUI	Departure	13.9	-	-
11-Feb	19:08	3A166	YFT	Departure	12.7	-	-
11-Feb	19:51	3A084	ZUI	Arrival	12.5	-	-
11-Feb	20:09	3A185	ZUI	Departure	14.0	-	-
11-Feb	20:52	8S2113	MFM	Arrival	12.1	-	-
11-Feb	21:02	3A169	YFT	Departure	12.7	-	-
11-Feb	22:15	8S522	MFM	Departure	12.9	-	-
12-Feb	08:14	3A061	YFT	Arrival	12.6	-	-
12-Feb	08:25	8S210	MFM	Arrival	9.2	-	-
12-Feb	10:02	3A071	MFM	Arrival	11.6	-	-
12-Feb	10:32	8S212	MFM	Arrival	12.9	-	-
12-Feb	10:40	3A081	ZUI	Arrival	13.1	-	-
12-Feb	11:13	8S121	MFM	Departure	12.7	-	-
12-Feb	11:18	3A063	YFT	Arrival	12.4	-	-
12-Feb	12:18	3A181	ZUI	Departure	13.3	-	-
12-Feb	12:18	3A168	YFT	Departure	12.3	-	-
12-Feb	12:45	8S215	MFM	Arrival	11.8	-	-
12-Feb	12:55	3A064	YFT	Arrival	13.6	-	-
12-Feb	13:16	8S123	MFM	Departure	11.5	-	-
12-Feb	13:45	3A082	ZUI	Arrival	12.1	-	-
12-Feb	14:16	3A182	ZUI	Departure	11.5	-	-
12-Feb	14:17	3A164	YFT	Departure	13.4	-	-
12-Feb	14:52	3A065	YFT	Arrival	12.3	-	-
12-Feb	16:15	3A167	YFT	Departure	12.7	-	-
12-Feb	16:36	3A083	ZUI	Arrival	13.4	-	-
12-Feb	16:45	8S218	MFM	Arrival	12.0	-	-
12-Feb	16:55	3A067	YFT	Arrival	13.1	-	-
12-Feb	17:05	8S126	MFM	Departure	12.4	-	-
12-Feb	17:11	3A183	ZUI	Departure	13.2	-	-
12-Feb	19:05	3A166	YFT	Departure	12.7	-	-
12-Feb	19:47	3A084	ZUI	Arrival	12.9	-	-
12-Feb	20:13	3A185	ZUI	Departure	13.8	-	-
12-Feb	21:00	8S2113	MFM	Arrival	11.9	-	-
12-Feb	21:00	3A169	YFT	Departure	13.7	-	-
12-Feb	22:01	8S522	MFM	Departure	12.4	-	-
13-Feb	08:16	3A061	YFT	Arrival	11.7	-	-
13-Feb	08:26	8S210	MFM	Arrival	11.6	-	-
13-Feb	10:13	3A071	MFM	Arrival	11.8	-	-
13-Feb	10:37	8S212	MFM	Arrival	12.7	-	-
13-Feb	10:44	3A081	ZUI	Arrival	13.4	-	-
13-Feb	11:13	8S121	MFM	Departure	12.1	-	-
13-Feb	11:22	3A063	YFT	Arrival	12.1	-	-
13-Feb	12:18	3A168	YFT	Departure	12.5	-	-
13-Feb	12:19	3A181	ZUI	Departure	13.4	-	-
13-Feb	12:51	8S215	MFM	Arrival	11.5	-	-
13-Feb	12:58	3A064	YFT	Arrival	12.3	-	-
13-Feb	13:20	8S123	MFM	Departure	11.8	-	-
13-Feb	13:44	3A082	ZUI	Arrival	12.3	-	-
13-Feb	14:18	3A182	ZUI	Departure	13.0	-	-
13-Feb	14:23	3A164	YFT	Departure	12.2	-	-
13-Feb	14:53	3A065	YFT	Arrival	12.1	-	-
13-Feb	16:30	3A167	YFT	Departure	12.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
13-Feb	16:39	8S218	MFM	Arrival	11.8	-	-
13-Feb	16:54	3A083	ZUI	Arrival	13.2	-	-
13-Feb	16:56	3A067	YFT	Arrival	12.1	-	-
13-Feb	17:23	8S126	MFM	Departure	12.9	-	-
13-Feb	17:25	3A183	ZUI	Departure	13.0	-	-
13-Feb	19:13	3A166	YFT	Departure	13.8	-	-
13-Feb	19:56	3A084	ZUI	Arrival	12.8	-	-
13-Feb	20:20	3A185	ZUI	Departure	13.3	-	-
13-Feb	20:57	8S2113	MFM	Arrival	11.9	-	-
13-Feb	21:09	3A169	YFT	Departure	12.6	-	-
13-Feb	21:56	8S522	MFM	Departure	12.3	-	-
14-Feb	08:12	3A061	YFT	Arrival	11.9	-	-
14-Feb	08:29	8S210	MFM	Arrival	11.4	-	-
14-Feb	09:58	3A071	MFM	Arrival	12.5	-	-
14-Feb	10:40	8S212	MFM	Arrival	12.3	-	-
14-Feb	10:47	3A081	ZUI	Arrival	12.6	-	-
14-Feb	11:07	8S121	MFM	Departure	12.1	-	-
14-Feb	11:29	3A063	YFT	Arrival	12.5	-	-
14-Feb	12:15	3A181	ZUI	Departure	13.5	-	-
14-Feb	12:17	3A168	YFT	Departure	12.3	-	-
14-Feb	12:41	8S215	MFM	Arrival	12.6	-	-
14-Feb	12:56	3A064	YFT	Arrival	12.6	-	-
14-Feb	13:25	8S123	MFM	Departure	13.3	-	-
14-Feb	13:52	3A082	ZUI	Arrival	12.7	-	-
14-Feb	14:15	3A182	ZUI	Departure	12.5	-	-
14-Feb	14:23	3A164	YFT	Departure	12.5	-	-
14-Feb	14:54	3A065	YFT	Arrival	13.3	-	-
14-Feb	16:21	3A167	YFT	Departure	13.2	-	-
14-Feb	16:37	3A083	ZUI	Arrival	13.4	-	-
14-Feb	16:38	8S218	MFM	Arrival	12.7	-	-
14-Feb	16:58	3A067	YFT	Arrival	12.7	-	-
14-Feb	16:59	3A183	ZUI	Departure	13.1	-	-
14-Feb	17:02	8S126	MFM	Departure	13.1	-	-
14-Feb	19:00	3A166	YFT	Departure	11.6	-	-
14-Feb	19:47	3A084	ZUI	Arrival	12.7	-	-
14-Feb	20:13	3A185	ZUI	Departure	13.2	-	-
14-Feb	21:00	8S2113	MFM	Arrival	13.0	-	-
14-Feb	21:07	3A169	YFT	Departure	13.5	-	-
14-Feb	21:57	8S522	MFM	Departure	13.1	-	-
15-Feb	08:16	3A061	YFT	Arrival	12.5	-	-
15-Feb	08:25	8S210	MFM	Arrival	12.5	-	-
15-Feb	10:02	3A071	MFM	Arrival	11.5	-	-
15-Feb	10:38	3A081	ZUI	Arrival	13.0	-	-
15-Feb	10:41	8S212	MFM	Arrival	11.5	-	-
15-Feb	11:11	8S121	MFM	Departure	12.9	-	-
15-Feb	11:28	3A063	YFT	Arrival	11.4	-	-
15-Feb	12:13	3A168	YFT	Departure	12.3	-	-
15-Feb	12:20	3A181	ZUI	Departure	13.5	-	-
15-Feb	12:49	8S215	MFM	Arrival	13.0	-	-
15-Feb	13:07	3A064	YFT	Arrival	12.8	-	-
15-Feb	13:14	8S123	MFM	Departure	13.9	-	-
15-Feb	13:54	3A082	ZUI	Arrival	12.9	-	-
15-Feb	14:24	3A164	YFT	Departure	13.5	-	-
15-Feb	14:36	3A182	ZUI	Departure	12.2	-	-
15-Feb	14:54	3A065	YFT	Arrival	12.4	-	-
15-Feb	16:12	3A167	YFT	Departure	12.2	-	-
15-Feb	16:41	3A083	ZUI	Arrival	12.9	-	-
15-Feb	16:44	8S218	MFM	Arrival	13.2	-	-
15-Feb	17:05	3A183	ZUI	Departure	13.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
15-Feb	17:07	3A067	YFT	Arrival	13.0	-	-
15-Feb	17:11	8S126	MFM	Departure	13.7	-	-
15-Feb	19:06	3A166	YFT	Departure	13.1	-	-
15-Feb	19:49	3A084	ZUI	Arrival	12.8	-	-
15-Feb	20:10	3A185	ZUI	Departure	13.5	-	-
15-Feb	20:57	8S2113	MFM	Arrival	12.3	-	-
15-Feb	21:03	3A169	YFT	Departure	12.5	-	-
15-Feb	21:55	8S522	MFM	Departure	13.3	-	-
16-Feb	08:21	3A061	YFT	Arrival	11.8	-	-
16-Feb	08:22	8S210	MFM	Arrival	12.9	-	-
16-Feb	09:53	3A071	MFM	Arrival	11.4	-	-
16-Feb	10:40	8S212	MFM	Arrival	12.1	-	-
16-Feb	10:43	3A081	ZUI	Arrival	12.6	-	-
16-Feb	11:07	8S121	MFM	Departure	12.5	-	-
16-Feb	11:15	3A063	YFT	Arrival	11.3	-	-
16-Feb	12:12	3A168	YFT	Departure	13.1	-	-
16-Feb	12:17	3A181	ZUI	Departure	13.1	-	-
16-Feb	12:47	8S215	MFM	Arrival	12.4	-	-
16-Feb	12:52	3A064	YFT	Arrival	12.2	-	-
16-Feb	13:13	8S123	MFM	Departure	12.5	-	-
16-Feb	13:55	3A082	ZUI	Arrival	13.2	-	-
16-Feb	14:16	3A164	YFT	Departure	12.4	-	-
16-Feb	14:17	3A182	ZUI	Departure	13.2	-	-
16-Feb	14:52	3A065	YFT	Arrival	12.3	-	-
16-Feb	16:14	3A167	YFT	Departure	13.0	-	-
16-Feb	16:34	8S218	MFM	Arrival	12.3	-	-
16-Feb	16:36	3A083	ZUI	Arrival	12.7	-	-
16-Feb	16:53	3A183	ZUI	Departure	13.6	-	-
16-Feb	16:59	8S126	MFM	Departure	12.9	-	-
16-Feb	17:00	3A067	YFT	Arrival	12.3	-	-
16-Feb	19:02	3A166	YFT	Departure	13.1	-	-
16-Feb	19:47	3A084	ZUI	Arrival	12.6	-	-
16-Feb	20:11	3A185	ZUI	Departure	13.4	-	-
16-Feb	20:56	8S2113	MFM	Arrival	12.8	-	-
16-Feb	21:01	3A169	YFT	Departure	12.9	-	-
16-Feb	21:54	8S522	MFM	Departure	12.9	-	-
17-Feb	08:13	3A061	YFT	Arrival	12.6	-	-
17-Feb	08:28	8S210	MFM	Arrival	12.7	-	-
17-Feb	10:01	3A071	MFM	Arrival	11.8	-	-
17-Feb	10:40	8S212	MFM	Arrival	11.2	-	-
17-Feb	10:47	3A081	ZUI	Arrival	12.1	-	-
17-Feb	11:06	8S121	MFM	Departure	11.9	-	-
17-Feb	11:13	3A063	YFT	Arrival	13.0	-	-
17-Feb	12:08	3A181	ZUI	Departure	13.0	-	-
17-Feb	12:16	3A168	YFT	Departure	13.6	-	-
17-Feb	12:49	8S215	MFM	Arrival	11.5	-	-
17-Feb	12:57	3A064	YFT	Arrival	12.9	-	-
17-Feb	13:15	8S123	MFM	Departure	10.9	-	-
17-Feb	13:43	3A082	ZUI	Arrival	12.4	-	-
17-Feb	14:12	3A182	ZUI	Departure	13.3	-	-
17-Feb	14:15	3A164	YFT	Departure	13.4	-	-
17-Feb	14:50	3A065	YFT	Arrival	13.3	-	-
17-Feb	16:40	3A167	YFT	Departure	13.4	-	-
17-Feb	16:45	3A083	ZUI	Arrival	13.1	-	-
17-Feb	16:47	8S218	MFM	Arrival	12.2	-	-
17-Feb	16:59	3A067	YFT	Arrival	11.4	-	-
17-Feb	17:10	3A183	ZUI	Departure	13.2	-	-
17-Feb	17:14	8S126	MFM	Departure	12.4	-	-
17-Feb	19:07	3A166	YFT	Departure	12.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
17-Feb	19:45	3A084	ZUI	Arrival	12.9	-	-
17-Feb	20:13	3A185	ZUI	Departure	12.9	-	-
17-Feb	20:52	8S2113	MFM	Arrival	11.8	-	-
17-Feb	21:02	3A169	YFT	Departure	12.1	-	-
17-Feb	22:00	8S522	MFM	Departure	11.9	-	-
18-Feb	08:21	3A061	YFT	Arrival	13.0	-	-
18-Feb	08:27	8S210	MFM	Arrival	11.8	-	-
18-Feb	09:54	3A071	MFM	Arrival	11.9	-	-
18-Feb	10:30	8S212	MFM	Arrival	12.3	-	-
18-Feb	10:52	3A081	ZUI	Arrival	12.6	-	-
18-Feb	11:04	8S121	MFM	Departure	12.3	-	-
18-Feb	11:17	3A063	YFT	Arrival	12.7	-	-
18-Feb	12:12	3A168	YFT	Departure	12.9	-	-
18-Feb	12:21	3A181	ZUI	Departure	13.9	-	-
18-Feb	12:46	8S215	MFM	Arrival	12.9	-	-
18-Feb	12:57	3A064	YFT	Arrival	12.7	-	-
18-Feb	13:14	8S123	MFM	Departure	13.3	-	-
18-Feb	13:49	3A082	ZUI	Arrival	12.7	-	-
18-Feb	14:22	3A182	ZUI	Departure	13.4	-	-
18-Feb	14:23	3A164	YFT	Departure	13.9	-	-
18-Feb	14:50	3A065	YFT	Arrival	12.9	-	-
18-Feb	16:22	3A167	YFT	Departure	13.3	-	-
18-Feb	16:31	8S218	MFM	Arrival	13.2	-	-
18-Feb	16:36	3A083	ZUI	Arrival	13.1	-	-
18-Feb	16:52	3A067	YFT	Arrival	13.2	-	-
18-Feb	16:59	3A183	ZUI	Departure	13.7	-	-
18-Feb	17:12	8S126	MFM	Departure	13.1	-	-
18-Feb	19:03	3A166	YFT	Departure	11.9	-	-
18-Feb	19:45	3A084	ZUI	Arrival	12.9	-	-
18-Feb	20:21	3A185	ZUI	Departure	13.0	-	-
18-Feb	20:50	8S2113	MFM	Arrival	13.2	-	-
18-Feb	20:59	3A169	YFT	Departure	12.2	-	-
18-Feb	21:52	8S522	MFM	Departure	13.4	-	-
19-Feb	08:12	3A061	YFT	Arrival	12.5	-	-
19-Feb	08:27	8S210	MFM	Arrival	11.4	-	-
19-Feb	09:57	3A071	MFM	Arrival	11.6	-	-
19-Feb	10:34	8S212	MFM	Arrival	12.7	-	-
19-Feb	10:45	3A081	ZUI	Arrival	12.3	-	-
19-Feb	11:01	8S121	MFM	Departure	12.9	-	-
19-Feb	11:18	3A063	YFT	Arrival	12.7	-	-
19-Feb	12:13	3A168	YFT	Departure	12.4	-	-
19-Feb	12:16	3A181	ZUI	Departure	13.3	-	-
19-Feb	12:48	8S215	MFM	Arrival	12.3	-	-
19-Feb	12:53	3A064	YFT	Arrival	12.2	-	-
19-Feb	13:17	8S123	MFM	Departure	12.7	-	-
19-Feb	13:46	3A082	ZUI	Arrival	12.6	-	-
19-Feb	14:16	3A164	YFT	Departure	12.7	-	-
19-Feb	14:24	3A182	ZUI	Departure	13.4	-	-
19-Feb	15:00	3A065	YFT	Arrival	12.7	-	-
19-Feb	16:15	3A167	YFT	Departure	12.7	-	-
19-Feb	16:38	8S218	MFM	Arrival	12.8	-	-
19-Feb	16:47	3A083	ZUI	Arrival	13.5	-	-
19-Feb	16:55	3A067	YFT	Arrival	12.9	-	-
19-Feb	17:02	8S126	MFM	Departure	13.3	-	-
19-Feb	17:07	3A183	ZUI	Departure	13.2	-	-
19-Feb	19:05	3A166	YFT	Departure	12.5	-	-
19-Feb	19:51	3A084	ZUI	Arrival	13.3	-	-
19-Feb	20:10	3A185	ZUI	Departure	13.1	-	-
19-Feb	20:55	8S2113	MFM	Arrival	12.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
19-Feb	20:56	3A169	YFT	Departure	12.8	-	-
19-Feb	21:58	8S522	MFM	Departure	12.8	-	-
20-Feb	08:01	3A061	YFT	Arrival	12.9	≤5	<1
20-Feb	08:29	8S210	MFM	Arrival	12.5	-	-
20-Feb	09:56	3A071	MFM	Arrival	13.3	-	-
20-Feb	10:41	3A081	ZUI	Arrival	12.9	-	-
20-Feb	10:42	8S212	MFM	Arrival	10.6	-	-
20-Feb	11:14	8S121	MFM	Departure	11.3	>15	<1
20-Feb	11:20	3A063	YFT	Arrival	12.4	-	-
20-Feb	12:16	3A181	ZUI	Departure	13.3	-	-
20-Feb	12:21	3A168	YFT	Departure	12.0	-	-
20-Feb	12:43	8S215	MFM	Arrival	12.5	-	-
20-Feb	13:08	3A064	YFT	Arrival	12.3	-	-
20-Feb	13:18	8S123	MFM	Departure	12.1	-	-
20-Feb	13:46	3A082	ZUI	Arrival	11.9	-	-
20-Feb	14:14	3A182	ZUI	Departure	12.3	-	-
20-Feb	14:20	3A164	YFT	Departure	12.3	-	-
20-Feb	14:59	3A065	YFT	Arrival	12.6	-	-
20-Feb	16:14	3A083	ZUI	Arrival	13.1	≤5	<1
20-Feb	16:33	3A167	YFT	Departure	11.7	-	-
20-Feb	16:38	8S218	MFM	Arrival	12.7	-	-
20-Feb	16:56	3A067	YFT	Arrival	13.3	-	-
20-Feb	17:03	8S126	MFM	Departure	13.3	-	-
20-Feb	17:09	3A183	ZUI	Departure	12.9	-	-
20-Feb	19:01	3A166	YFT	Departure	12.7	-	-
20-Feb	19:44	3A084	ZUI	Arrival	12.5	-	-
20-Feb	20:05	3A185	ZUI	Departure	13.2	-	-
20-Feb	20:59	8S2113	MFM	Arrival	12.5	-	-
20-Feb	21:00	3A169	YFT	Departure	12.1	-	-
20-Feb	21:55	8S522	MFM	Departure	11.9	-	-
21-Feb	08:17	3A061	YFT	Arrival	12.3	-	-
21-Feb	08:27	8S210	MFM	Arrival	12.0	-	-
21-Feb	09:53	3A071	MFM	Arrival	13.0	-	-
21-Feb	10:39	8S212	MFM	Arrival	11.8	-	-
21-Feb	10:45	3A081	ZUI	Arrival	13.1	-	-
21-Feb	11:04	8S121	MFM	Departure	13.1	-	-
21-Feb	11:21	3A063	YFT	Arrival	12.4	-	-
21-Feb	12:12	3A181	ZUI	Departure	13.4	-	-
21-Feb	12:18	3A168	YFT	Departure	12.4	-	-
21-Feb	12:49	8S215	MFM	Arrival	12.7	-	-
21-Feb	13:04	3A064	YFT	Arrival	12.3	-	-
21-Feb	13:20	8S123	MFM	Departure	13.0	-	-
21-Feb	13:58	3A082	ZUI	Arrival	11.2	-	-
21-Feb	14:21	3A164	YFT	Departure	12.4	-	-
21-Feb	14:45	3A182	ZUI	Departure	13.2	-	-
21-Feb	14:59	3A065	YFT	Arrival	11.5	-	-
21-Feb	16:21	3A167	YFT	Departure	12.7	-	-
21-Feb	16:43	3A083	ZUI	Arrival	12.8	-	-
21-Feb	16:49	8S218	MFM	Arrival	12.9	-	-
21-Feb	16:55	3A067	YFT	Arrival	13.3	-	-
21-Feb	17:08	8S126	MFM	Departure	13.4	-	-
21-Feb	17:13	3A183	ZUI	Departure	13.5	-	-
21-Feb	18:58	3A166	YFT	Departure	12.0	-	-
21-Feb	19:48	3A084	ZUI	Arrival	12.7	-	-
21-Feb	20:04	3A185	ZUI	Departure	13.5	-	-
21-Feb	21:00	3A169	YFT	Departure	12.1	-	-
21-Feb	21:04	8S2113	MFM	Arrival	11.9	-	-
21-Feb	21:56	8S522	MFM	Departure	11.8	-	-
22-Feb	08:21	3A061	YFT	Arrival	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
22-Feb	08:22	8S210	MFM	Arrival	12.9	-	-
22-Feb	09:54	3A071	MFM	Arrival	12.7	-	-
22-Feb	10:38	8S212	MFM	Arrival	11.6	-	-
22-Feb	10:46	3A081	ZUI	Arrival	12.5	-	-
22-Feb	11:04	8S121	MFM	Departure	11.3	-	-
22-Feb	11:27	3A063	YFT	Arrival	12.3	-	-
22-Feb	12:16	3A181	ZUI	Departure	13.0	-	-
22-Feb	12:18	3A168	YFT	Departure	12.6	-	-
22-Feb	12:26	8S215	MFM	Arrival	13.6	>5 and ≤15	<1
22-Feb	13:09	3A064	YFT	Arrival	13.1	-	-
22-Feb	13:20	8S123	MFM	Departure	12.0	-	-
22-Feb	14:02	3A082	ZUI	Arrival	13.1	-	-
22-Feb	14:16	3A182	ZUI	Departure	12.9	-	-
22-Feb	14:23	3A164	YFT	Departure	13.0	-	-
22-Feb	14:55	3A065	YFT	Arrival	11.4	-	-
22-Feb	16:24	3A167	YFT	Departure	12.7	-	-
22-Feb	16:33	8S218	MFM	Arrival	11.0	-	-
22-Feb	16:35	3A083	ZUI	Arrival	12.9	-	-
22-Feb	17:02	8S126	MFM	Departure	13.1	-	-
22-Feb	17:06	3A067	YFT	Arrival	12.3	-	-
22-Feb	17:08	3A183	ZUI	Departure	13.4	-	-
22-Feb	19:17	3A166	YFT	Departure	10.6	-	-
22-Feb	19:50	3A084	ZUI	Arrival	12.8	-	-
22-Feb	20:07	3A185	ZUI	Departure	13.7	-	-
22-Feb	20:56	8S2113	MFM	Arrival	11.6	-	-
22-Feb	21:20	3A169	YFT	Departure	13.4	≤5	<1
23-Feb	08:25	3A061	YFT	Arrival	12.0	-	-
23-Feb	09:04	8S210	MFM	Arrival	12.6	-	-
23-Feb	10:02	3A071	MFM	Arrival	12.4	-	-
23-Feb	10:40	8S212	MFM	Arrival	11.4	-	-
23-Feb	10:41	3A081	ZUI	Arrival	12.0	-	-
23-Feb	11:11	8S121	MFM	Departure	12.6	-	-
23-Feb	11:34	3A063	YFT	Arrival	11.4	-	-
23-Feb	12:13	3A181	ZUI	Departure	12.9	-	-
23-Feb	12:18	3A168	YFT	Departure	10.6	-	-
23-Feb	12:54	8S215	MFM	Arrival	11.2	-	-
23-Feb	13:05	3A064	YFT	Arrival	12.0	-	-
23-Feb	13:21	8S123	MFM	Departure	11.4	-	-
23-Feb	14:00	3A082	ZUI	Arrival	12.9	-	-
23-Feb	14:17	3A182	ZUI	Departure	12.7	-	-
23-Feb	14:19	3A164	YFT	Departure	12.3	-	-
23-Feb	15:03	3A065	YFT	Arrival	11.7	-	-
23-Feb	16:22	3A167	YFT	Departure	11.8	-	-
23-Feb	16:45	3A083	ZUI	Arrival	12.8	-	-
23-Feb	16:46	8S218	MFM	Arrival	11.2	-	-
23-Feb	17:00	3A067	YFT	Arrival	12.2	-	-
23-Feb	17:04	3A183	ZUI	Departure	12.6	-	-
23-Feb	17:09	8S126	MFM	Departure	11.8	-	-
23-Feb	19:01	3A166	YFT	Departure	12.8	-	-
23-Feb	19:58	3A084	ZUI	Arrival	12.9	-	-
23-Feb	20:08	3A185	ZUI	Departure	12.6	-	-
23-Feb	20:52	8S2113	MFM	Arrival	12.5	-	-
23-Feb	21:03	3A169	YFT	Departure	12.5	-	-
23-Feb	21:56	8S522	MFM	Departure	11.6	-	-
24-Feb	08:16	3A061	YFT	Arrival	11.6	-	-
24-Feb	08:37	8S210	MFM	Arrival	12.4	-	-
24-Feb	09:56	3A071	MFM	Arrival	11.9	-	-
24-Feb	10:39	8S212	MFM	Arrival	12.2	-	-
24-Feb	10:49	3A081	ZUI	Arrival	12.0	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
24-Feb	11:09	8S121	MFM	Departure	12.3	-	-
24-Feb	11:22	3A063	YFT	Arrival	11.8	-	-
24-Feb	12:20	3A181	ZUI	Departure	13.8	-	-
24-Feb	12:27	3A168	YFT	Departure	11.4	-	-
24-Feb	12:53	8S215	MFM	Arrival	11.4	-	-
24-Feb	13:00	3A064	YFT	Arrival	11.9	-	-
24-Feb	13:18	8S123	MFM	Departure	10.3	-	-
24-Feb	13:48	3A082	ZUI	Arrival	13.5	-	-
24-Feb	14:16	3A164	YFT	Departure	11.0	-	-
24-Feb	14:16	3A182	ZUI	Departure	12.1	-	-
24-Feb	15:05	3A065	YFT	Arrival	11.7	-	-
24-Feb	16:30	3A167	YFT	Departure	12.0	-	-
24-Feb	16:43	3A083	ZUI	Arrival	11.7	-	-
24-Feb	16:46	8S218	MFM	Arrival	10.1	-	-
24-Feb	17:03	3A067	YFT	Arrival	11.3	-	-
24-Feb	17:03	3A183	ZUI	Departure	13.0	-	-
24-Feb	17:08	8S126	MFM	Departure	10.4	-	-
24-Feb	18:56	3A166	YFT	Departure	13.1	-	-
24-Feb	19:48	3A084	ZUI	Arrival	12.6	-	-
24-Feb	20:07	3A185	ZUI	Departure	12.8	-	-
24-Feb	21:02	8S2113	MFM	Arrival	11.9	-	-
24-Feb	21:03	3A169	YFT	Departure	12.5	-	-
24-Feb	21:58	8S522	MFM	Departure	12.2	-	-
25-Feb	08:22	3A061	YFT	Arrival	12.2	-	-
25-Feb	08:43	8S210	MFM	Arrival	10.4	-	-
25-Feb	09:54	3A071	MFM	Arrival	11.1	-	-
25-Feb	10:34	8S212	MFM	Arrival	11.7	-	-
25-Feb	10:51	3A081	ZUI	Arrival	12.0	-	-
25-Feb	11:06	8S121	MFM	Departure	12.6	-	-
25-Feb	11:30	3A063	YFT	Arrival	12.5	-	-
25-Feb	12:13	3A168	YFT	Departure	12.3	-	-
25-Feb	12:32	3A181	ZUI	Departure	13.5	-	-
25-Feb	12:52	8S215	MFM	Arrival	12.7	-	-
25-Feb	12:57	3A064	YFT	Arrival	12.9	-	-
25-Feb	13:16	8S123	MFM	Departure	12.5	-	-
25-Feb	13:39	3A082	ZUI	Arrival	11.6	-	-
25-Feb	14:18	3A182	ZUI	Departure	11.8	-	-
25-Feb	14:21	3A164	YFT	Departure	13.0	-	-
25-Feb	14:43	3A065	YFT	Arrival	12.0	-	-
25-Feb	16:17	3A167	YFT	Departure	12.0	-	-
25-Feb	16:35	3A083	ZUI	Arrival	12.7	-	-
25-Feb	16:40	8S218	MFM	Arrival	12.4	-	-
25-Feb	16:57	3A183	ZUI	Departure	12.4	-	-
25-Feb	17:02	3A067	YFT	Arrival	12.0	-	-
25-Feb	17:02	8S126	MFM	Departure	13.0	-	-
25-Feb	18:58	3A166	YFT	Departure	12.3	-	-
25-Feb	19:46	3A084	ZUI	Arrival	12.0	-	-
25-Feb	20:03	3A185	ZUI	Departure	13.3	-	-
25-Feb	20:54	8S2113	MFM	Arrival	12.4	-	-
25-Feb	21:14	3A169	YFT	Departure	13.3	>5 and ≤15	<1
25-Feb	21:55	8S522	MFM	Departure	12.2	-	-
26-Feb	08:19	3A061	YFT	Arrival	12.4	-	-
26-Feb	08:22	8S210	MFM	Arrival	10.5	-	-
26-Feb	09:59	3A071	MFM	Arrival	11.8	-	-
26-Feb	10:39	8S212	MFM	Arrival	11.6	-	-
26-Feb	10:51	3A081	ZUI	Arrival	13.0	-	-
26-Feb	11:04	8S121	MFM	Departure	11.8	-	-
26-Feb	11:23	3A063	YFT	Arrival	10.8	-	-
26-Feb	12:19	3A168	YFT	Departure	11.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
26-Feb	12:23	3A181	ZUI	Departure	12.4	-	-
26-Feb	12:52	8S215	MFM	Arrival	12.7	-	-
26-Feb	13:02	3A064	YFT	Arrival	12.9	-	-
26-Feb	13:18	8S123	MFM	Departure	12.7	-	-
26-Feb	13:43	3A082	ZUI	Arrival	13.4	-	-
26-Feb	14:16	3A182	ZUI	Departure	11.8	-	-
26-Feb	14:21	3A164	YFT	Departure	12.5	-	-
26-Feb	15:01	3A065	YFT	Arrival	12.0	-	-
26-Feb	16:19	3A167	YFT	Departure	10.9	-	-
26-Feb	16:38	8S218	MFM	Arrival	12.7	-	-
26-Feb	17:04	3A083	ZUI	Arrival	13.3	-	-
26-Feb	17:05	3A067	YFT	Arrival	11.8	-	-
26-Feb	17:14	8S126	MFM	Departure	13.1	-	-
26-Feb	17:16	3A183	ZUI	Departure	13.6	-	-
26-Feb	19:15	3A166	YFT	Departure	12.2	-	-
26-Feb	19:47	3A084	ZUI	Arrival	12.8	-	-
26-Feb	20:20	3A185	ZUI	Departure	13.9	-	-
26-Feb	20:50	8S2113	MFM	Arrival	12.5	-	-
26-Feb	21:20	3A169	YFT	Departure	11.7	-	-
26-Feb	21:58	8S522	MFM	Departure	13.3	-	-
27-Feb	08:23	3A061	YFT	Arrival	11.5	-	-
27-Feb	08:29	8S210	MFM	Arrival	12.1	-	-
27-Feb	09:54	3A071	MFM	Arrival	13.1	-	-
27-Feb	10:44	8S212	MFM	Arrival	12.5	-	-
27-Feb	10:46	3A081	ZUI	Arrival	12.6	-	-
27-Feb	11:20	3A063	YFT	Arrival	12.2	-	-
27-Feb	11:21	8S121	MFM	Departure	13.0	≤5	<1
27-Feb	12:16	3A181	ZUI	Departure	13.5	-	-
27-Feb	12:17	3A168	YFT	Departure	12.9	-	-
27-Feb	12:35	8S215	MFM	Arrival	12.6	-	-
27-Feb	13:05	3A064	YFT	Arrival	12.4	-	-
27-Feb	13:11	8S123	MFM	Departure	12.0	-	-
27-Feb	13:46	3A082	ZUI	Arrival	12.4	-	-
27-Feb	14:19	3A164	YFT	Departure	12.0	-	-
27-Feb	14:25	3A182	ZUI	Departure	13.3	-	-
27-Feb	14:59	3A065	YFT	Arrival	12.5	-	-
27-Feb	16:18	3A167	YFT	Departure	12.7	-	-
27-Feb	16:38	3A083	ZUI	Arrival	12.6	-	-
27-Feb	16:38	8S218	MFM	Arrival	12.9	-	-
27-Feb	16:59	3A183	ZUI	Departure	13.0	-	-
27-Feb	17:00	8S126	MFM	Departure	13.0	-	-
27-Feb	17:04	3A067	YFT	Arrival	12.2	-	-
27-Feb	19:00	3A166	YFT	Departure	12.7	-	-
27-Feb	19:41	3A084	ZUI	Arrival	12.5	-	-
27-Feb	20:07	3A185	ZUI	Departure	13.3	-	-
27-Feb	20:52	8S2113	MFM	Arrival	12.6	-	-
27-Feb	21:04	3A169	YFT	Departure	12.9	-	-
27-Feb	21:52	8S522	MFM	Departure	13.5	-	-
28-Feb	08:13	8S210	MFM	Arrival	13.2	-	-
28-Feb	08:16	3A061	YFT	Arrival	12.3	-	-
28-Feb	09:53	3A071	MFM	Arrival	11.5	-	-
28-Feb	10:36	8S212	MFM	Arrival	12.3	-	-
28-Feb	10:42	3A081	ZUI	Arrival	13.6	-	-
28-Feb	11:03	8S121	MFM	Departure	12.3	-	-
28-Feb	11:23	3A063	YFT	Arrival	12.7	-	-
28-Feb	12:11	3A181	ZUI	Departure	13.1	-	-
28-Feb	12:14	3A168	YFT	Departure	12.7	-	-
28-Feb	12:56	8S215	MFM	Arrival	12.6	-	-
28-Feb	13:00	3A064	YFT	Arrival	12.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
28-Feb	13:29	8S123	MFM	Departure	12.5	-	-
28-Feb	14:00	3A082	ZUI	Arrival	11.0	-	-
28-Feb	14:16	3A182	ZUI	Departure	12.8	-	-
28-Feb	14:18	3A164	YFT	Departure	12.7	-	-
28-Feb	15:00	3A065	YFT	Arrival	12.5	-	-
28-Feb	16:17	3A167	YFT	Departure	12.6	-	-
28-Feb	16:38	3A083	ZUI	Arrival	13.8	-	-
28-Feb	16:40	8S218	MFM	Arrival	12.2	-	-
28-Feb	17:04	3A067	YFT	Arrival	12.0	-	-
28-Feb	17:04	3A183	ZUI	Departure	13.1	-	-
28-Feb	17:04	8S126	MFM	Departure	12.9	-	-
28-Feb	18:54	3A166	YFT	Departure	12.9	-	-
28-Feb	19:45	3A084	ZUI	Arrival	13.4	-	-
28-Feb	20:08	3A185	ZUI	Departure	13.3	-	-
28-Feb	20:51	8S2113	MFM	Arrival	12.4	-	-
28-Feb	21:01	3A169	YFT	Departure	13.5	-	-
28-Feb	21:58	8S522	MFM	Departure	13.3	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in February 2017, instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded from 13 HSF movements. The duration of instantaneous speeding of all the movements were less than one minute. After investigation, the AIS data and ferry operators' responses showed the cases were due to local strong water currents / giving way to other vessels, which are public safety / emergency reasons. The captain had reduced speed and maintained the speed at less than 15 knots after the public safety / emergency incidents.

Three HSF movements with insufficient transmission of AIS data received in February 2017. AIS data was retrieved from other sources such as Marine Traffic Data and Shipxy. Vessel captain was also requested to provide the radar track photos which indicated the vessel entered the SCZ though the gate access point and no speeding in the SCZ.