MOTT MACDONALD

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

Construction Phase Monthly EM&A Report No.40 (For April 2019)

May 2019

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This Monthly EM&A Report No. 40 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)
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Date 14 May 2019

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By Email

Airport Authority Hong Kong
HKIA Tower, 1 Sky Plaza Road
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Attn: Mr. Lawrence Tsui, Principal Manager

14 May 2019

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 40 (April 2019)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 40 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 May 2019.

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 the undersigned at 3922 9376.

Yours faithfully,
AECOM Asia Co. Ltd.

Jackel Law
Independent Environmental Checker

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Abbreviations

3RS	Three-Runway System
AAHK	Airport Authority Hong Kong
AECOM	AECOM Asia Company Limited
AFCD	Agriculture, Fisheries and Conservation Department
AIS	Automatic Information System
ANI	Encounter Rate of Number of Dolphins
APM	Automated People Mover
AW	Airport West
BHS	Baggage Handling System
C&D	Construction and Demolition
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
CNP	Construction Noise Permit
CWD	Chinese White Dolphin
DCM	Deep Cement Mixing
DEZ	Dolphin Exclusion Zone
DO	Dissolved Oxygen
EAR	Ecological Acoustic Recorder
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring & Audit
EP	Environmental Permit
EPD	Environmental Protection Department
ET	Environmental Team
FCZ	Fish Culture Zone
HDD	Horizontal Directional Drilling
HKBCF	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities
HKIA	Hong Kong International Airport
HOKLAS	Hong Kong Laboratory Accreditation Scheme
HSF	High Speed Ferry
HVS	High Volume Sampler
IEC	Independent Environmental Checker
LKC	Lung Kwu Chau
MMHK	Mott MacDonald Hong Kong Limited
MMWP	Marine Mammal Watching Plan
MSS	Marine Surveillance System
MTRMP-CAV	Marine Travel Routes and Management Plan for Construction and Associated Vessel
NEL	Northeast Lantau
NWL	Northwest Lantau
PAM	Passive Acoustic Monitoring
PVD	Prefabricated Vertical Drain
SC	Sha Chau

SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park
SS	Suspended Solids
SSSI	Site of Special Scientific Interest
STG	Encounter Rate of Number of Dolphin Sightings
SWL	Southwest Lantau
T2	Terminal 2
The Project	The Expansion of Hong Kong International Airport into a Three-Runway System
The SkyPier Plan	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier
The Manual	The Updated EM&A Manual
TSP	Total Suspended Particulates
WL	West Lantau
WMP	Waste Management Plan

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 (the Manual).

This is the 40th 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 30 April 2019.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included deep cement mixing (DCM) works, marine filling, seawall construction, and prefabricated vertical drain (PVD) installation. Land-side works involved mainly foundation and substructure work for Terminal 2 expansion, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition, piling, and excavation works.

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with the Manual of the Project. Summary of the monitoring activities during this reporting period is presented as below:

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	36
Noise monitoring	20
Water quality monitoring	13
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	3

Environmental auditing works, including weekly site inspections of construction works conducted by the ET and bi-weekly site inspections conducted by the Independent Environmental Checker (IEC), audit of SkyPier High Speed Ferries (HSF), audit of construction and associated vessels, and audit of implementation of Marine Mammal Watching Plan (MMWP) and Dolphin Exclusion Zone (DEZ) Plan, were conducted in the reporting period. Based on information including ET's observations, records of Marine Surveillance System (MSS), and contractors' site records, it is noted that environmental pollution control and mitigation measures were properly implemented and construction activities of the Project in the reporting period did not introduce adverse impacts to the sensitive receivers.

Snapshots of EM&A Activities in the Reporting Period

Small Vessel Line-transect Survey of CWD Conducted by ET	Impact Noise Monitoring Conducted by ET in Man Tung Road Park	Checking of Environmental Licenses during Weekly Inspection Conducted by ET

Results of Impact Monitoring

The monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, and CWD were conducted during the reporting period in accordance with the Manual.

Monitoring results of construction dust, construction noise, water quality, construction waste, and CWD did not trigger the corresponding Action and Limit Levels in the reporting period.

Summary of Upcoming Key Issues

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- Stockpiling of compressed materials

DCM Works:

Contract 3201 and 3205 DCM Works

- DCM works

Reclamation Works:

Contract 3206 Main Reclamation Works

- Seawall construction;
- Marine filling; and
- DCM works

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works;
- Subgrade compaction and paving works;
- Drainage construction works;
- Operation of aggregate mixing facility; and
- Precast of duct bank and fabrication of steel works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Site survey and cable laying; and
- Site establishment.

Third Runway Concourse and Integrated Airport Centres Works:

Contract 3402 New Integrated Airport Centres Enabling Works

- Site establishment;
- Installation of sheet and pipe piles; and
- Manhole and pipe construction works.

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Drainage works;
- Boring works; and
- Pipe installation.

Contract 3502 Terminal 2 Automated People Mover (APM) Depot Modification Works

- Site clearance;
- Cable duct installation; and
- Plastering and painting.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;
- Demolition works;
- Utilities and road work; and
- Piling and structure works.

Automated People Mover (APM) Works:

Contract 3602 Existing APM System Modification Works

- Site establishment; and
- Modification works at APM depot.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Site establishment;
- Cofferdam installation and construction of box culvert;
- Rising main installation;
- Piling and foundation works; and
- Site clearance.

Summary Table

The following table summarizes the key findings of the EM&A programme during the reporting period:

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		√	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		√	No breach of Action Level was recorded.	Nil
Complaint Received	√		A complaint regarding suspected open burning at airport runway, outlying island was received on 12 April 2019.	ET investigated all work contracts that carried out construction activities at or near the alleged area. Based on information provided by contractors, no open burning activities were carried out in the period of 3 to 10 April 2019. The case was considered closed.
Notification of any summons and status of prosecutions		√	No notification of summons or prosecution was received.	Nil
Change that affect the EM&A		√	There was no change to the construction works that may affect the EM&A	Nil

Note:
^ Only triggering of Action or Limit Level found related to Project works is counted as Breach of Action or Limit Level.

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[1]. 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 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. 38.

1.2 Scope of this Report

This is the 40th 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 30 April 2019.

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 period. Contact details of the key personnel are presented in **Table 1.1**.

[1] The Manual is available on the Project's dedicated website (accessible at: **http://env.threerunwaysystem.com/en/index.html**).

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
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	Daniel Sum	2585 8495
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Roy Man	3922 9141

Advanced Works:

Party	Position	Name	Telephone
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 Liu	5172 6543

Deep Cement Mixing (DCM) Works:

Party	Position	Name	Telephone
Contract 3201 DCM (Package 1) (Penta-Ocean-China State-Dong-Ah Joint Venture)	Project Director	Tsugunari Suzuki	9178 9689
	Environmental Officer	Hiu Yeung Tang	6329 3513
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Ilkwon Nam	9643 3117
Contract 3203 DCM (Package 3) (Sambo E&C Co., Ltd)	Project Manager	Eric Kan	9014 6758
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Kyung-Sik Yoo	9683 8697
Contract 3205 DCM (Package 5) (Bachy Soletanche - Sambo Joint Venture)	Deputy Project Director	Min Park	9683 0765
	Environmental	Lawrence Chan	5107 5961

Reclamation Works:

Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works (ZHEC-CCCC-CDC Joint Venture)	Project Manager	Kim Chuan Lim	3763 1509
	Environmental Officer	Kwai Fung Wong	3763 1452

Airfield Works:

Party	Position	Name	Telephone
Contract 3301 North Runway Crossover Taxiway (FJT-CHEC-ZHEC Joint Venture)	Deputy Project Director	Kin Hang Chung	9800 0048
	Environmental Officer	Nelson Tam	9721 3942
Contract 3302 Eastern Vehicular Tunnel Advance Works (China Road and Bridge Corporation)	Project Manager	Wan Cheung Lee	6100 6075
	Environmental Officer	Kanny Cho	6381 8171

Third Runway Concourse and Integrated Airport Centres Works:

Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres Enabling Works (Wing Hing Construction Co., Ltd.)	Contract Manager	Michael Kan	9206 0550
	Environmental Officer	Lisa He	5374 3418

Terminal 2 (T2) Expansion Works:

Party	Position	Name	Telephone
Contract 3501 Antenna Farm and Sewage Pumping Station (Build King Construction Ltd.)	Project Manager	Vincent Kwan	9833 1313
	Environmental Officer	Edward Tam	9287 8270
Contract 3502 Terminal 2 APM Depot Modification Works (Build King Construction Ltd.)	Project Manager	David Ng	9010 7871
	Environmental Officer	Chun Pong Chan	9187 7118
Contract 3503 Terminal 2 Foundation and Substructure Works (Leighton – Chun Wo Joint Venture)	Project Manager	Eric Wu	3973 1718
	Environmental Officer	Stephen Tsang	5508 6361

Automated People Mover (APM) Works:

Party	Position	Name	Telephone
Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.)	Project Manager	Kunihiro Tatecho	9755 0351
	Environmental Officer	Arthur Wong	9170 3394

Baggage Handling System (BHS) Works:

Party	Position	Name	Telephone
Contract 3603 3RS Baggage Handling System (VISH Consortium)	Project Manager	Andy Ng	9102 2739
	Environmental Officer	Eric Ha	9215 3432

Airport Support Infrastructure and Logistic Works:

Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Tony Wong	9642 8672
	Environmental Officer	Fredrick Wong	9842 2703

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included deep cement mixing (DCM) works, marine filling, seawall construction, and prefabricated vertical drain (PVD) installation. Land-side works involved mainly foundation and substructure work for Terminal 2 expansion, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, piling, and excavation works.

The locations of key construction activities are presented in **Figure 1.1**. Locations of reclamation works area are presented in **Figure 1.2**. Latest layout of the enhanced silt curtain deployed is presented in **Figure 1.3**.

1.5 Summary of EM&A Programme Requirements

The status for all environmental aspects are presented in **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.

Parameters	Status
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	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	On-going
Waste Management	
Waste Monitoring	On-going
Land Contamination	
Supplementary Contamination Assessment Plan (CAP)	The Supplementary CAP was submitted to EPD pursuant to EP Condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD.
Terrestrial Ecology	
Pre-construction Egretry Survey Plan	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
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	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite Tracking 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	
Landscape & Visual Plan	The Landscape & Visual Plan was submitted to EPD under EP Condition 2.18
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 (DEZ) Plan 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 period, impact monitoring of air quality, noise, water quality, waste management, landscape & visual, and CWD were carried out in the reporting period.

The EM&A programme also involved weekly site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report. To promote the environmental awareness and enhance the environmental performance of the contractors, environmental trainings and regular environmental management meetings were conducted during the reporting period, which are summarized as below:

- Two skipper trainings provided by ET: 3 and 17 April 2019
- Six environmental management meetings for EM&A review with works contracts: 3, 16, 17, 23, 24, and 29 April 2019

The EM&A programme has been following the recommendations presented in the approved EIA Report and the 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

Air quality monitoring of 1-hour Total Suspended Particulates (TSP) was conducted three times every six days at two representative monitoring stations in the vicinity of air sensitive receivers in Tung Chung and villages in North Lantau in accordance with the 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

2.1 Action and Limit Levels

In accordance with the Manual, baseline air quality monitoring of 1-hour TSP levels at the two air quality monitoring stations were established as presented in the Baseline Monitoring Report. The Action and Limit Levels of the air quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 2.2**.

Table 2.2: Action and Limit Levels of Air Quality Monitoring

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

2.2 Monitoring Equipment

Portable direct reading dust meter was used to carry out the air quality monitoring. Details of equipment used in the reporting period are given in **Table 2.3**.

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-1 (Serial No. 597337)	2 Oct 2018	Monthly EM&A Report No. 35, Appendix D
	SIBATA LD-3B-2 (Serial No. 296098)	16 Oct 2018	

2.3 Monitoring Methodology

2.3.1 Measuring Procedure

The measurement procedures involved in the impact air quality 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.

2.3.2 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 record of the HVS provided in Appendix D of the Construction Phase Monthly EM&A Report No.35, and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are still valid.

2.4 Summary of Monitoring Results

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

The air quality monitoring results in the reporting period are summarized in **Table 2.4**. Detailed impact monitoring results are presented in **Appendix C**.

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
AR1A	14 – 38	306	500
AR2	9 – 51	298	

The monitoring results were within the corresponding Action and Limit Levels at all monitoring stations in the reporting period.

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

2.5 Conclusion

No dust emission source from Project activities was observed during impact air quality monitoring. Major sources of dust observed at the monitoring stations during the monitoring sessions were local air pollution and nearby traffic emissions. It is considered that the monitoring work in the reporting period is effective and there was no adverse impact attributable to the Project activities.

3 Noise Monitoring

Noise monitoring in the form of 30-minute measurements of L_{eq}, L_{10}, and L_{90} levels was conducted once per week between 0700 and 1900 on normal weekdays at four representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 3.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

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(2)	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 Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.

(2) According to Section 4.3.3 of the Manual, the noise monitoring at NM3A was temporarily suspended starting from 1 Sep 2018 and would be resumed with the completion of the Tung Chung East Development.

3.1 Action and Limit Levels

In accordance with the Manual, baseline noise levels at the noise monitoring stations were established as presented in the Baseline Monitoring Report. The Action and Limit Levels of the noise monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 3.2**.

Table 3.2: Action and Limit Levels for Noise Monitoring

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)(1)

Note:

(1) Reduced to 70dB(A) for school and 65dB(A) during school examination periods for NM4.

3.2 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 used in the reporting period are given in **Table 3.3**.

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	NTi XL2-M2211 (Microphone Serial No.7681; Capsule Serial No.72079)	28 Aug 2018	Monthly EM&A Report No. 36, Appendix E
	Rion NL-52 (Serial No. 01287679)	6 Feb 2019	Monthly EM&A Report No. 39, Appendix D
Acoustic Calibrator	Castle GA607 (Serial No. 040162)	7 Aug 2018	Monthly EM&A Report No. 35, Appendix D
	Casella CEL-120/1 (Serial No. 2383737)	17 Oct 2018	

3.3 Monitoring Methodology

3.3.1 Monitoring Procedure

The monitoring procedures involved in the noise 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.

3.3.2 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 listed in **Table 3.3** are still valid.

3.4 Summary of Monitoring Results

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

The noise monitoring results in the reporting period are summarized in **Table 3.4**. Detailed impact monitoring results are presented 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(1)	71 – 73	75
NM4(1)	63 – 66	70(2)
NM5(1)	53 – 61	75
NM6(1)	64 – 71	75

Notes:

(1) +3 dB(A) Façade correction included;

(2) Reduced to 65 dB(A) during school examination periods at NM4. No school examination was taken place during this reporting period.

No complaints were received from any sensitive receiver that triggered the Action Level. All monitoring results were also within the corresponding Limit Levels at all monitoring stations in the reporting period.

3.5 Conclusion

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 traffic noise near NM1A, school activities and traffic noise near NM4, and aircraft noise near NM5 and NM6 during this reporting period. It is considered that the monitoring work during the reporting period was effective and there was no adverse impact attributable to the Project activities.

4 Water Quality Monitoring

Water quality monitoring of DO, pH, temperature, salinity, turbidity, suspended solids (SS), total alkalinity, chromium, and nickel was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 23 water quality monitoring stations, comprising 12 impact (IM) stations, 8 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impact from the Project before it could become apparent at sensitive receivers (represented by the SR stations). **Table 4.1** describes the details of the monitoring stations. **Figure 4.1** shows the locations of the monitoring stations.

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

Monitoring Station	Description	Coordinates		Parameters
		Easting	Northing	
C1	Control Station	804247	815620	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS DCM Parameters Total Alkalinity, Heavy Metals(2)
C2	Control Station	806945	825682	
C3(3)	Control Station	817803	822109	
IM1	Impact Station	807132	817949	
IM2	Impact Station	806166	818163	
IM3	Impact Station	805594	818784	
IM4	Impact Station	804607	819725	
IM5	Impact Station	804867	820735	
IM6	Impact Station	805828	821060	
IM7	Impact Station	806835	821349	
IM8	Impact Station	808140	821830	
IM9	Impact Station	808811	822094	
IM10	Impact Station	809794	822385	
IM11	Impact Station	811460	822057	
IM12	Impact Station	812046	821459	
SR1A(1)	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR2(3)	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS DCM Parameters Total Alkalinity, Heavy Metals(2)(4)
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR4A	Sha Lo Wan	807810	817189	

Monitoring Station	Description	Coordinates		Parameters
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[(5)]	Seawater Intake for cooling at Hong Kong International Airport (East)	811623	820390	

Notes:

(1) With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A has been shifted closer to the intake starting from 5 January 2019.

(2) Details of selection criteria for the two heavy metals for 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) Total alkalinity and heavy metals results are collected at SR2 as a control station for regular DCM monitoring.

(5) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the abovementioned representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report. The Action and Limit Levels of general water quality monitoring and regular DCM monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 4.2**. The control and impact stations during ebb tide and flood 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 SR1A & SR8)					
General Water Quality Monitoring	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	
Regular DCM Monitoring	Total Alkalinity in ppm	95		99	
	Representative Heavy Metals for regular DCM monitoring (Chromium) in µg/L	0.2		0.2	
	Representative Heavy Metals for regular DCM monitoring (Nickel) in µg/L	3.2		3.6	
Action and Limit Levels SR1A					
SS (mg/l)		33		42	
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 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

Note:

(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.

4.2 Monitoring Equipment

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

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 17E100747)	27 Mar 2019	Monthly EM&A Report No. 39, Appendix D
	YSI ProDSS (Serial No. 00019CB2)	27 Mar 2019	
Digital Titrator (measurement of total alkalinity)	Titrette Digital Burette 50ml Class A (Serial No. 10N64701)	25 Feb 2019	

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

4.3 Monitoring Methodology

4.3.1 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, alkalinity 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.

4.3.2 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 SS (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 reporting period listed in **Table 4.4** are still valid.

4.3.3 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
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

4.4 Summary of Monitoring Results

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

The water quality monitoring results for all parameters (i.e. DO, total alkalinity, turbidity, SS, chromium, and nickel) obtained during the reporting period were within their corresponding Action and Limit Level. The detailed monitoring results are presented in **Appendix C**.

4.5 Conclusion

During the reporting period, all monitoring results were within the corresponding Action and Limit Levels. Nevertheless, 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 properly for reclamation works including DCM works, marine filling, and seawall construction as recommended in the Manual.

5 Waste Management

In accordance with the 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.

5.1 Action and Limit Levels

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 made included provision and maintenance of proper chemical waste storage area, as well as handling, segregation, and regular disposal of general refuse. The contractors had taken actions to implement the recommended measures.

Based on updated information provided by contractors, construction waste generated in the reporting period is summarized in **Table 5.2**.

There were no complaints, non-compliance of the WMP, contract-specific WMPs, statutory and contractual requirements that triggered Action and Limit Levels in the reporting period.

Table 5.2: Construction Waste Statistics

	C&D[(1)] Material Stockpiled for Reuse or Recycle (m^3)	C&D Material Reused in the Project (m^3)	C&D Material Reused in other Projects (m^3)	C&D Material Transferred to Public Fill (m^3)	Chemical Waste (kg)	Chemical Waste (L)	General Refuse (tonne)
Mar 2019[(2)(3)]	*4,516	*10,056	*6,903	6,780	240	18,400	362
Apr 2019[(3)]	10,003	5,650	4,531	5,598	90	13,200	432

Notes:

(1) C&D refers to Construction and Demolition.

(2) Updated figures in the past month are reported and marked with an asterisk (*). Updated figures for earlier months will be reported in the forthcoming Annual EM&A Report.

(3) Metals, paper and/or plastics were recycled in the reporting period.

6 Chinese White Dolphin Monitoring

In accordance with the Manual, CWD monitoring by small vessel line-transect survey supplemented by land-based theodolite tracking survey and passive acoustic monitoring should be conducted during construction phase.

The small vessel line-transect survey should be conducted at a frequency of two full surveys per month, while land-based theodolite tracking survey should be conducted at a frequency of one day per month per station at Sha Chau (SC) and Lung Kwu Chau (LKC) during the construction phase as stipulated in the Manual. Supplemental theodolite tracking survey of one additional day has also been conducted at LKC, i.e. in total twice per month at the LKC station.

6.1 Action and Limit Levels

The Action and Limit Levels 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 Action and Limit Levels for CWD monitoring were summarized in **Table 6.1**.

Table 6.1: Derived Values of Action and Limit Levels for Chinese White Dolphin Monitoring

	NEL, NWL, AW, WL and SWL as a Whole
Action Level(3)	Running quarterly(1) STG < 1.86 & ANI < 9.35
Limit Level(3)	Two consecutive running quarterly(2) (3-month) STG < 1.86 & ANI < 9.35

Notes: (referring to the baseline monitoring report)

(1) Action Level – running quarterly STG & ANI will be calculated from the three preceding survey months.

(2) Limit Level – two consecutive running quarters mean both the running quarterly encounter rates of the preceding month and the running quarterly encounter rates of this month.

(3) Action Level and/or Limit Level will be triggered 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 conducted 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 Manual, which are consistent with the Agriculture, Fisheries and Conservation Department (AFCD) long-term monitoring programme (except the addition of AW). The AW transect has not been previously surveyed in the AFCD programme due to the restrictions of HKIA Approach Area, nevertheless, this transect was established during the EIA of the 3RS Project and refined in the 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 also provided a larger sample size for estimating the density, abundance and patterns of movements in the broader study area of the project.

The planned vessel survey transect lines follow the waypoints set for construction phase monitoring as proposed in the Manual and 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			
		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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking Survey

Land-based theodolite tracking survey 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 Theodolite 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 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 going around 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 pairs. 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 were lost from view. At that point, the boat returned (off effort) to the survey line at the closest point after obtaining photo records of the dolphin group and began to survey on effort again.

Focal follows of dolphins would be used for providing supplementary information only 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 would involve 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 Survey

Land-based theodolite tracking survey 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 period, two complete sets of small vessel line-transect surveys were conducted on the 2, 3, 9, 11, 17, 18, 24 and 25 April 2019, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

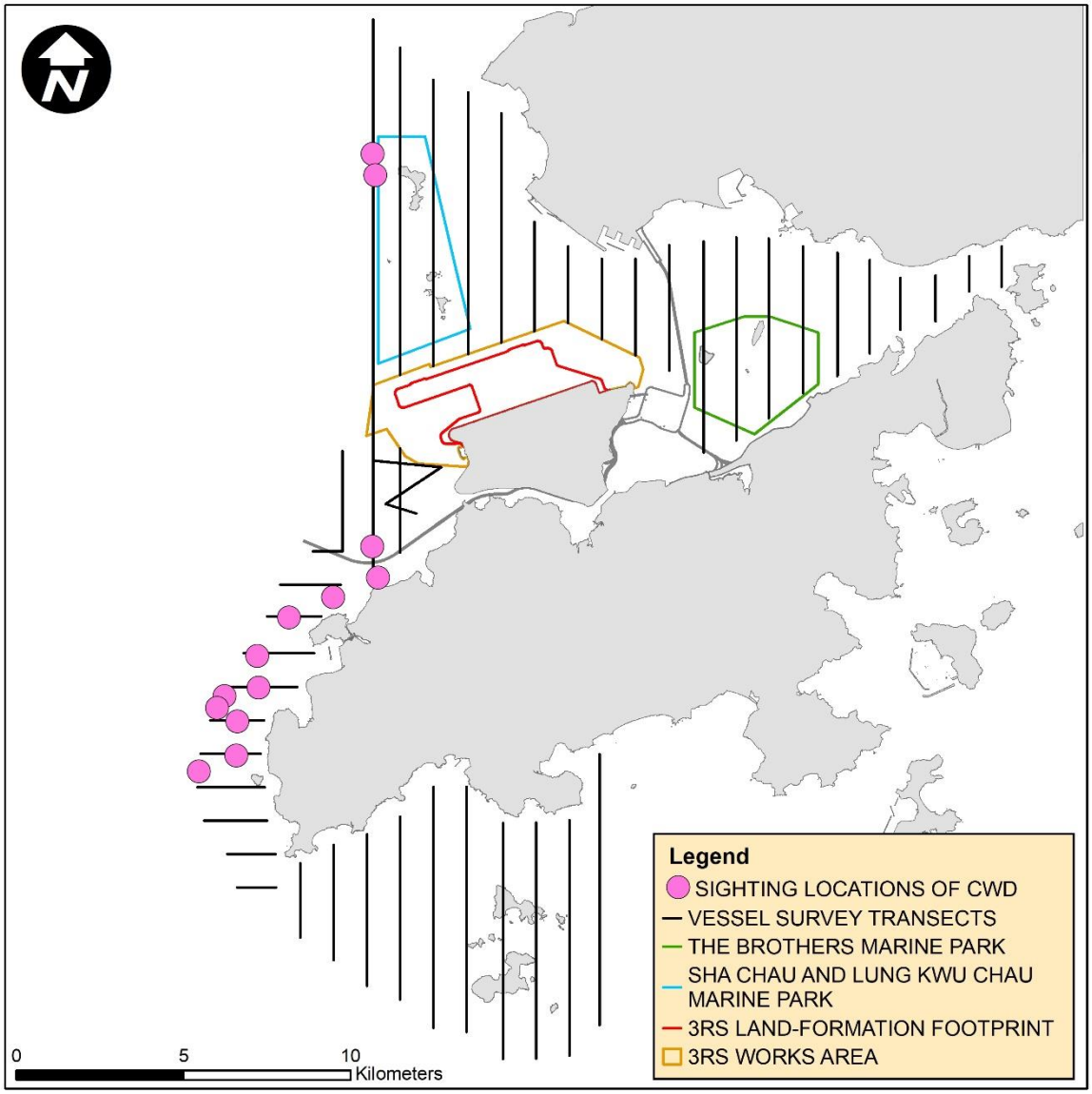
A total of around 457.92 km of survey effort was collected from these surveys, with around 99.3% of the total survey effort being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In April 2019, 13 sightings with 49 dolphins were sighted. Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in April 2019 is illustrated in **Figure 6.3**. In NWL, two CWD sightings were recorded northwestern waters off Lung Kwu Chau, while another two sightings were recorded at the southwestern corner of the survey area. In WL, CWD sightings were recorded from waters off the north of Tai O to Peaked Hill. No sightings of CWD were recorded in SWL, NEL or in close vicinity to 3RS Works Area.

Figure 6.3: Sightings Distribution of Chinese White Dolphins



Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from April 2019. They included the number of dolphin sightings per 100 km survey effort (STG) and total number of dolphins per 100 km 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 were used)

In April 2019, a total of around 454.52 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 13 on-effort sightings with 49 dolphins were sighted under such condition. Calculation of the encounter rates in April 2019 are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from February 2019 to April 2019), a total of around 1285.11 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 27 on-effort sightings and a total number of 96 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 April 2019 and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. The running quarterly encounter rate STG is slightly above the Action Level but the running quarterly encounter rate ANI is below the Action Level. Nevertheless, the overall Action Level is not triggered.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
April 2019	2.86	10.78
Running Quarter from February 2019 to April 2019[(1)]	2.10	7.47
Action Level	Running quarterly[(1)] STG < 1.86 & ANI < 9.35	

Note: (1) Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting period and the two preceding survey months, i.e. the data from February 2019 to April 2019, containing six sets of transect surveys for all monitoring areas. Action Level will be triggered if both STG and ANI fall below the criteria.

Group Size

In April 2019, 13 groups with 49 dolphins were sighted, and the average group size of CWDs was 3.77 dolphins per group. The number of sightings with small group size (i.e. 1-2 dolphins) and that with medium group size (i.e. 3-9 dolphins) were similar. One CWD sighting with 21 dolphins, i.e. regarded as large group size (10 or more dolphins), was recorded in WL. This is the 2nd largest group since the commencement of the 3RS CWD monitoring in December 2015.

Activities and Association with Fishing Boats

Three sightings of CWDs were recorded engaging in feeding activities in April 2019. One sighting recorded in WL was observed in association with pair trawlers that was operating outside but close to the Hong Kong boundary.

Mother-calf Pair

In April 2019, there were two sightings of CWD with the presence of mother-and-unspotted juvenile pair.

6.4.2 Photo Identification

In April 2019, a total number of 35 different CWD individuals were identified for totally 39 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-mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
NLMM004	17-Apr-19	1	WL	WLMM030	3-Apr-19	3	WL
NLMM016	3-Apr-19	2	WL	WLMM032	3-Apr-19	3	WL
	17-Apr-19	4	WL	WLMM039	3-Apr-19	3	WL
NLMM039	25-Apr-19	2	NWL		17-Apr-19	6	WL
NLMM060	3-Apr-19	3	WL	WLMM043	3-Apr-19	1	WL
NLMM063	25-Apr-19	3	NWL		17-Apr-19	1	WL
NLMM065	17-Apr-19	1	WL			5	WL
NLMM069	25-Apr-19	1	NWL	WLMM046	17-Apr-19	3	WL
NLMM070	25-Apr-19	1	NWL	WLMM054	3-Apr-19	3	WL
SLMM002	3-Apr-19	3	WL	WLMM056	3-Apr-19	3	WL
SLMM014	3-Apr-19	3	WL	WLMM063	3-Apr-19	3	WL
SLMM022	3-Apr-19	3	WL	WLMM069	3-Apr-19	3	WL
SLMM034	3-Apr-19	3	WL	WLMM086	17-Apr-19	4	WL
SLMM050	3-Apr-19	3	WL	WLMM090	17-Apr-19	4	WL
SLMM059	3-Apr-19	3	WL	WLMM115	24-Apr-19	1	NWL
WLMM001	3-Apr-19	3	WL	WLMM118	17-Apr-19	6	WL
WLMM003	3-Apr-19	3	WL	WLMM120	3-Apr-19	3	WL
WLMM004	3-Apr-19	3	WL	WLMM127	25-Apr-19	1	NWL
WLMM007	3-Apr-19	3	WL	WLMM132	3-Apr-19	3	WL
WLMM019	17-Apr-19	2	WL				

6.4.3 Land-based Theodolite Tracking Survey

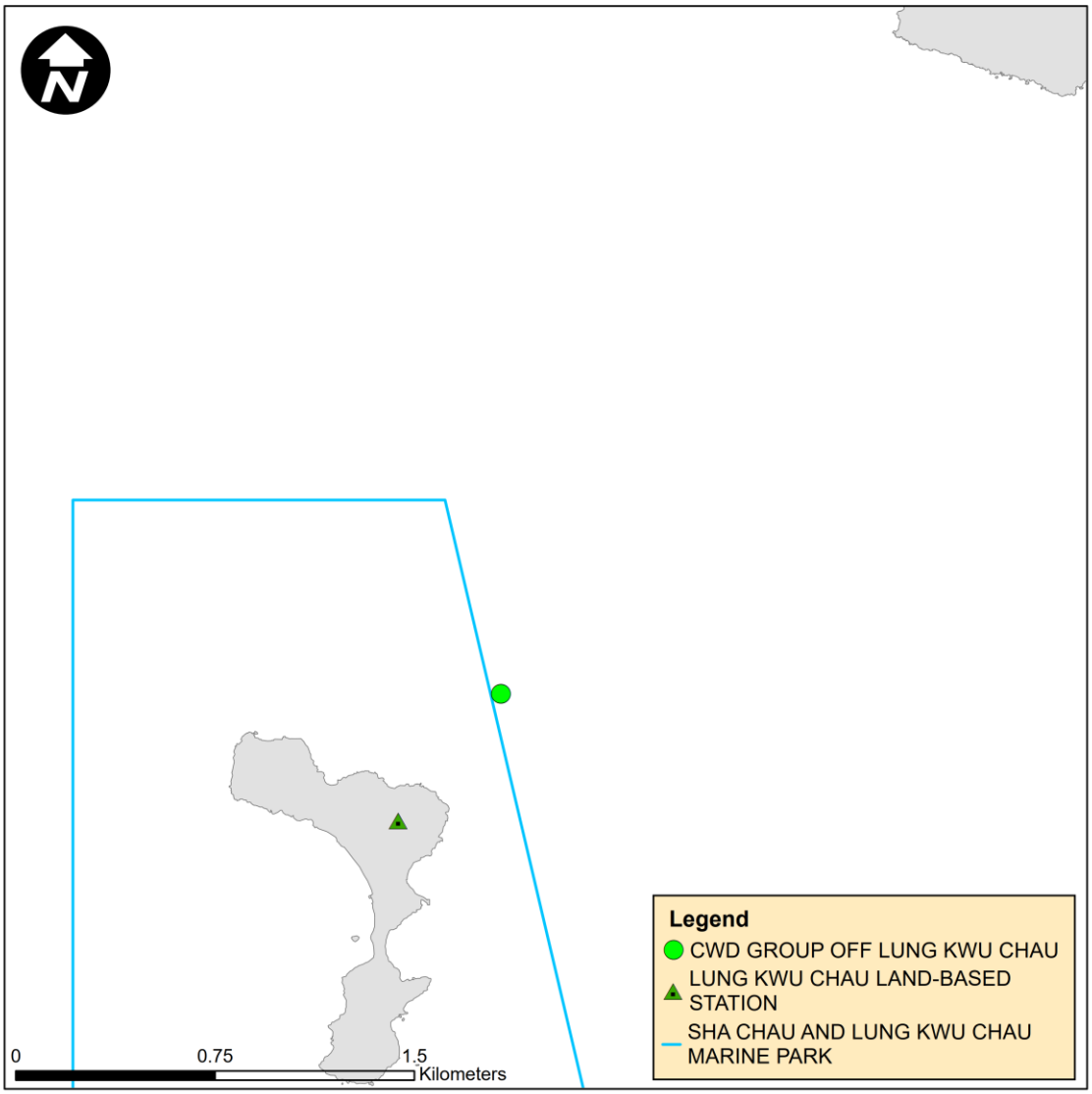
Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 4 and 10 April 2019 and at SC on 24 April 2019, with a total of three days of land-based theodolite tracking survey effort accomplished in this reporting period. One CWD group was 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 April 2019 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	2	12:00	1	0.08
Sha Chau	1	6:00	0	0
TOTAL	**3**	**18:00**	**1**	**0.06**

Figure 6.4: Plots of First Sightings of All CWD Groups obtained from Land-based Stations



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 period, the Ecological Acoustic Recorder (EAR) was retrieved on 12 April 2019 and subsequently redeployed and positioned at south of Sha Chau Island inside the SCLKCMP with 20% duty cycle (**Figure 6.5**). The EAR deployment is generally for 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 four months, PAM results could not be reported in monthly intervals but report for supplementing the annual CWD monitoring analysis.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractor for marine filling , in which dolphin observers were deployed by contractor in accordance with the MMWP. Overall, 6 to 12 dolphin observation stations and teams of at least two dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for DCM works , PVD installation, and seawall construction 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 677 individuals being trained and the training records kept by the ET. From the contractors' MMWP observation records, no dolphin or other marine mammals were observed within or around the silt curtains. As for DEZ monitoring records, no dolphin or other marine mammals were observed within or around the DEZs in this reporting month. These contractors' records were also audited by the ET during site inspection. Audits of acoustic decoupling measures 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 survey and PAM will be provided in future annual 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 three days of land-based theodolite tracking survey effort as scheduled. The running quarterly encounter rates STG and ANI in the reporting period did not trigger the Action Level for CWD monitoring.

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

Site inspections of the construction works were carried out on a weekly basis to monitor 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. Besides, *ad-hoc* site inspections were conducted by ET and IEC if environmental problems were identified, or subsequent to receipt of an environmental complaint, or as part of the investigation work. These site inspections provided a direct means to reinforce the specified environmental protection requirements and pollution control measures in construction sites.

During site inspections, environmental situation, status of implementation of pollution control and mitigation measures were observed. Environmental documents and site records, including waste disposal record, maintenance record of environmental equipment, and relevant environmental permit and licences, were also checked on site. Observations were recorded in the site inspection checklist and passed to the contractor together with the appropriate recommended mitigation measures where necessary in order to advise contractors on environmental improvement, awareness and on-site enhancement measures. The observations were made with reference to the following information during the site inspections:

- The EIA and EM&A requirements;
- Relevant environmental protection laws, guidelines, and practice notes;
- The EP conditions and other submissions under the EP;
- Monitoring results of EM&A programme;
- Works progress and programme;
- Proposal of individual works;
- Contract specifications on environmental protection; and
- Previous site inspection results.

Good site practices were observed in site inspections during the reporting period. Advice were given when necessary to ensure the construction workforce were familiar with relevant procedures, and to maintain good environmental performance on site. Regular toolbox talks on environmental issues were organized for the construction workforce by the contractors to ensure understanding and proper implementation of environmental protection and pollution control mitigation measures.

During the reporting period, implementation of recommended landscape and visual mitigation measures (CM1 – CM10) where applicable was monitored weekly in accordance with the Manual and no non-conformity was recorded. In case of non-conformity, specific recommendations will be made, and actions will be proposed according to the Event and Action Plan. The monitoring status is summarized in **Appendix A**.

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**.

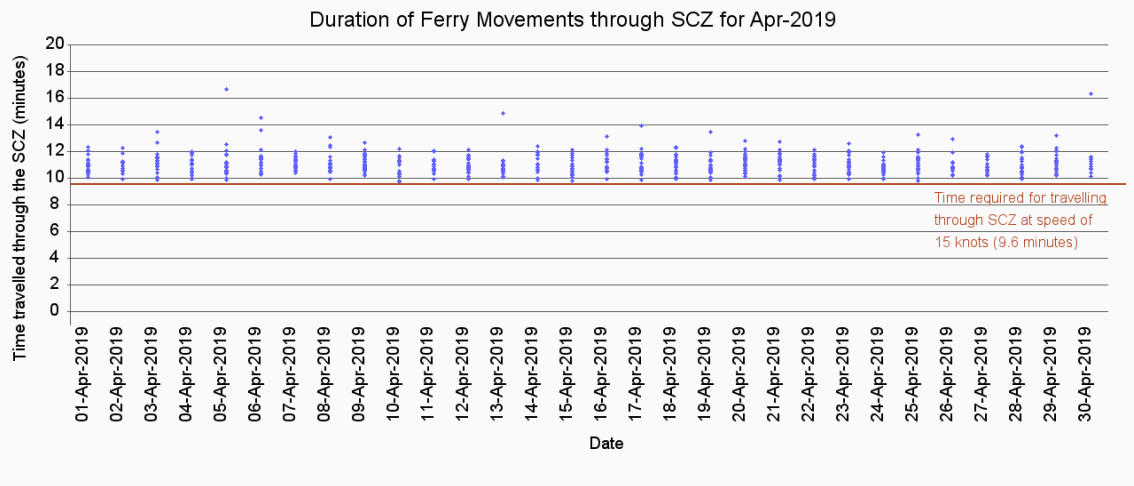
7.2 Audit of SkyPier High Speed Ferries

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 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 implement the mitigation measure of requiring 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 this reporting period (i.e., 86 to 89 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, 782 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in April 2019 and the data are presented in **Appendix F**. The time spent by the SkyPier HSFs travelling through the SCZ in April 2019 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 of 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 April 2019



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.

A total of five ferries were recorded with minor route deviations on 7 April, 13 April, 18 April, 27 April and 29 April 2019. Notices were sent to the ferry operators and the cases are under investigation by ET.

As reported in the Construction Phase Monthly EM&A Report No. 39, two ferries were recorded with minor route deviations on 5 March 2019 and 7 March 2019. ET's investigation found that the deviations were due to giving way to vessels in order to avoid collision.

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

Requirements in the SkyPier Plan	1 to 30 April 2019
Total number of ferry movements recorded and audited	782
Use diverted route and enter / leave SCZ through Gate Access Points	5 deviations
Speed control in speed control zone	The average speeds of all HSFs travelling through the SCZ ranged from 8.4 to 14.0 knots. All HSFs had travelled through the SCZ with average speeds under 15 knots in compliance 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)	86 to 89 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:

- Two 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.
- Seven skipper training sessions were held by contractors' Environmental Officers. Competency tests were subsequently conducted with the trained skippers by ET.
- In this reporting period, five skippers were trained by ET and nine skippers were trained by contractors' Environmental Officers. In total, 1139 skippers were trained from August 2016 to April 2019.
- The Marine Surveillance System (MSS) automatically recorded deviation cases such as speeding, entering no entry zone and not travelling through the designated gate. ET conducted checking to ensure the MSS records deviation cases accurately.
- Deviations such as speeding in the works area, entered no entry zone, and entering from non-designated gates were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly MTCC audit.
- Three-month rolling programmes (one month record and three 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.

7.4 Implementation of Dolphin Exclusion Zone

The DEZ Plan was submitted in accordance with EP Condition 3.1 (v) requirement and Section 10.3 of the 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 and seawall construction according to their Method Statement for DEZ Monitoring that followed the specifications and requirements of the DEZ Plan.

During the reporting period, ET was notified that no dolphin sightings were recorded within the DEZ by the contractors. The ET checked the relevant records by the contractors and conducted competence checking to audit the implementation of DEZ.

7.5 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	
2.16	Spill Response Plan	
2.17	Detailed Plan on Deep Cement Mixing	
2.18	Landscape & Visual Plan	Submitted to EPD
2.19	Waste Management Plan	Accepted / approved by EPD
2.20	Supplementary Contamination Assessment Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.6 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 period are presented in **Appendix D**.

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

7.7.1 Complaints

A complaint was received on 12 April 2019 regarding suspected open burning at Airport Runway, Outlying Island. Investigation was conducted by the ET in accordance with the Manual and the Complaint Management Plan of the Project. Exact location could not be identified from the photographic and video record provided by the anonymous complainant. Specific information (e.g. date and time) were also not provided.

ET investigated all work contracts that carried out construction activities at or near the alleged area. Based on information provided by the contractors, no open burning or related activities were carried out in the period of 3 to 10 April 2019. As a side note, based on information provided by AAHK, a small fire incident occurred on a piece of newly reclaimed land of the 3RS Project on 10 April 2019, which confirmed was not a case of open burning on site. The above issue also did not cause any impact on the implementation of environmental mitigation measures under the Project.

In view of the findings, there were no evidence suggesting that open burning activity was carried out under the Project in the concerned period. ET will remind all contractors that open burning of construction waste was strictly prohibited and the contractors shall follow the corresponding statutory regulations. Hence, the complaint case was considered closed.

7.7.2 Notifications of Summons or Status of Prosecution

Neither notification of summons nor prosecution was received during the reporting period.

7.7.3 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

- Stockpiling of compressed materials

DCM Works:

Contract 3201 and 3205 DCM Works

- DCM works

Reclamation Works:

Contract 3206 Main Reclamation Works

- Seawall construction;
- Marine filling; and
- DCM works

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works;
- Subgrade compaction and paving works;
- Drainage construction works;
- Operation of aggregate mixing facility; and
- Precast of duct bank and fabrication of steel works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Site survey and cable laying; and
- Site establishment.

Third Runway Concourse and Integrated Airport Centres Works:

Contract 3402 New Integrated Airport Centres Enabling Works

- Site establishment;
- Installation of sheet and pipe piles; and
- Manhole and pipe construction works.

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Drainage works;

- Boring works; and
- Pipe installation.

Contract 3502 Terminal 2 Automated People Mover (APM) Depot Modification Works

- Site clearance;
- Cable duct installation; and
- Plastering and painting.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;
- Demolition works;
- Utilities and road work; and
- Piling and structure works.

Automated People Mover (APM) Works:

Contract 3602 Existing APM System Modification Works

- Site establishment; and
- Modification works at APM depot.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Site establishment;
- Cofferdam installation and construction of box culvert;
- Rising main installation;
- Piling and foundation works; and
- Site clearance.

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 DCM works and marine filling;
- DEZ monitoring for ground improvement works (DCM works) and seawall construction;
- Implementation of MMWP for silt curtain deployment;
- 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 B**.

8.4 Review of the Key Assumptions Adopted in the EIA Report

With reference to Appendix E of the Manual, it is noted that the key assumptions adopted in approved EIA report for the construction phase are still valid and no major changes are involved. The environmental mitigation measures recommended in the approved EIA Report remain applicable and shall be implemented in undertaking construction works for the Project.

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included DCM works, marine filling, seawall construction, and prefabricated vertical drain (PVD) installation. Land-side works involved mainly foundation and substructure work for Terminal 2 expansion, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, piling, and excavation works.

All the monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, and CWD were conducted during the reporting period in accordance with the Manual.

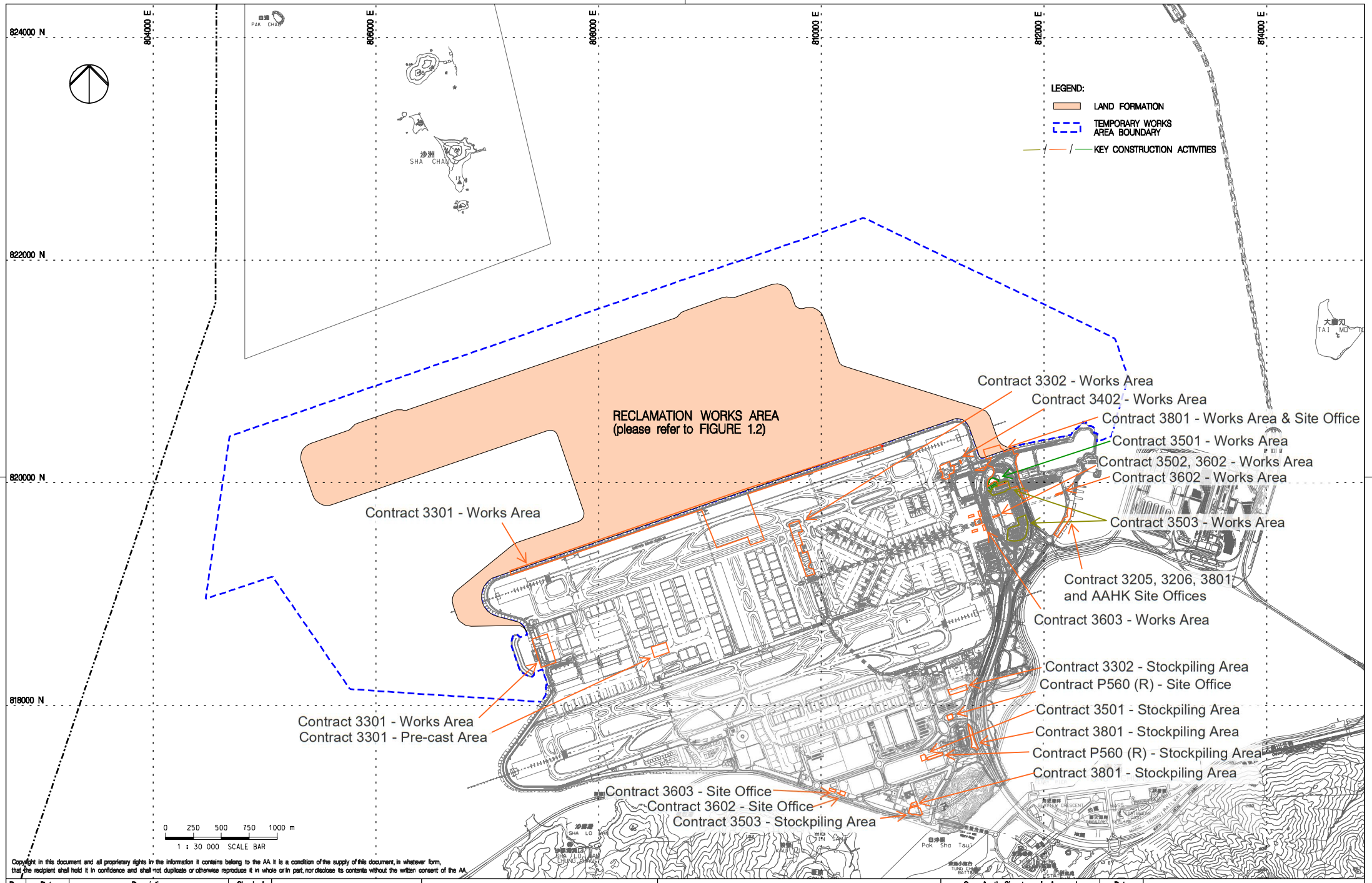
Monitoring results of construction dust, construction noise, water quality, construction waste, and CWD did not trigger the corresponding Action and Limit Levels during the reporting period.

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. Site inspection findings were recorded in the site inspection checklists and provided to the contractors to follow up.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in April 2019 were in the range of 86 to 89 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 782 HSF movements under the SkyPier Plan were recorded in the reporting period. The average speeds of all HSFs travelling through the SCZ ranged from 8.4 to 14.0 knots. All HSFs had travelled through the SCZ with average speeds under 15 knots in compliance with the SkyPier Plan. Five deviations from the diverted route in April 2019 were recorded in the HSF monitoring and are under investigation by the ET. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigations or actions accordingly.

On the implementation of MTRMP-CAV, the MSS automatically recorded the deviation case such as speeding, entering no entry zone, not travelling through the designated gates. ET conducted checking to ensure the MSS records all deviation cases accurately. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. Deviations including speeding in the works area, entered no entry zone, and entry from non-designated gates were reviewed by ET. All the concerned captains were reminded by the contractor's MTCC representative to comply with the requirements of the MTRMP-CAV. The ET reminded contractors that all vessels shall avoid entering the no-entry zone, in particular the Brothers Marine Park. Three-month rolling programmes for construction vessel activities, which ensures the proposed vessels are necessary and minimal through good planning, were also received from contractors.

Figures



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Rev.	Date	Description	Checked
A	31AUG15	FIRST ISSUE	DC
B	04APR19	GENERAL REVISION	JL

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

Consultant's Signatures for Approval		Date
Design	JC	04APR19
Checkers	JC / TK	04APR19
Approver	EC	04APR19

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

Drawing No.

FIGURE 1.1

Scale at A3 1 : 30000

Rev. B

Filename: J:\355482\REPORT\ENV\EMA\190404\FIG 1.1.dgn

Note: The locations are for indicative purpose. The actual construction work locations are in accordnace with the construction work programme.

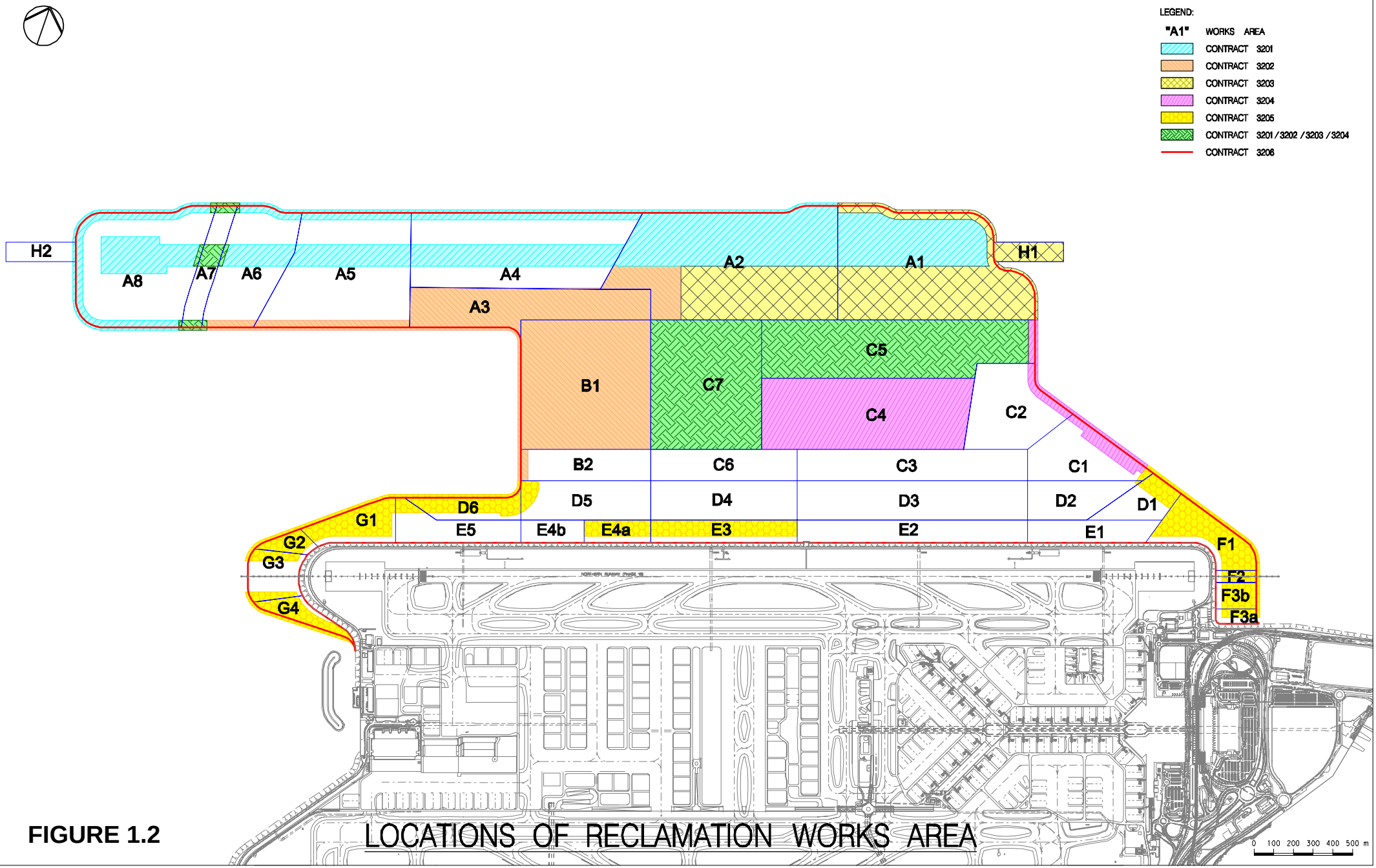


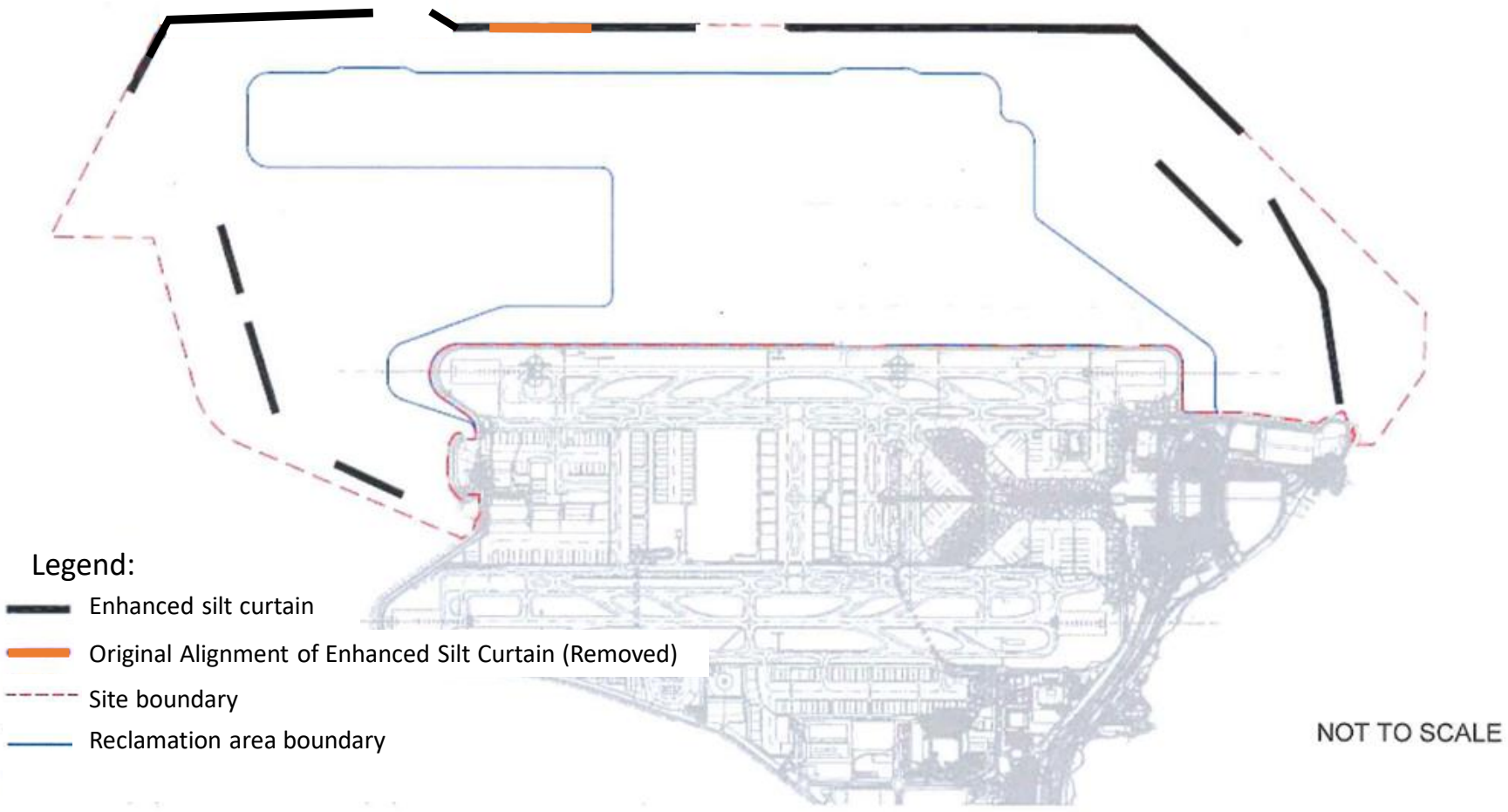
FIGURE 1.2

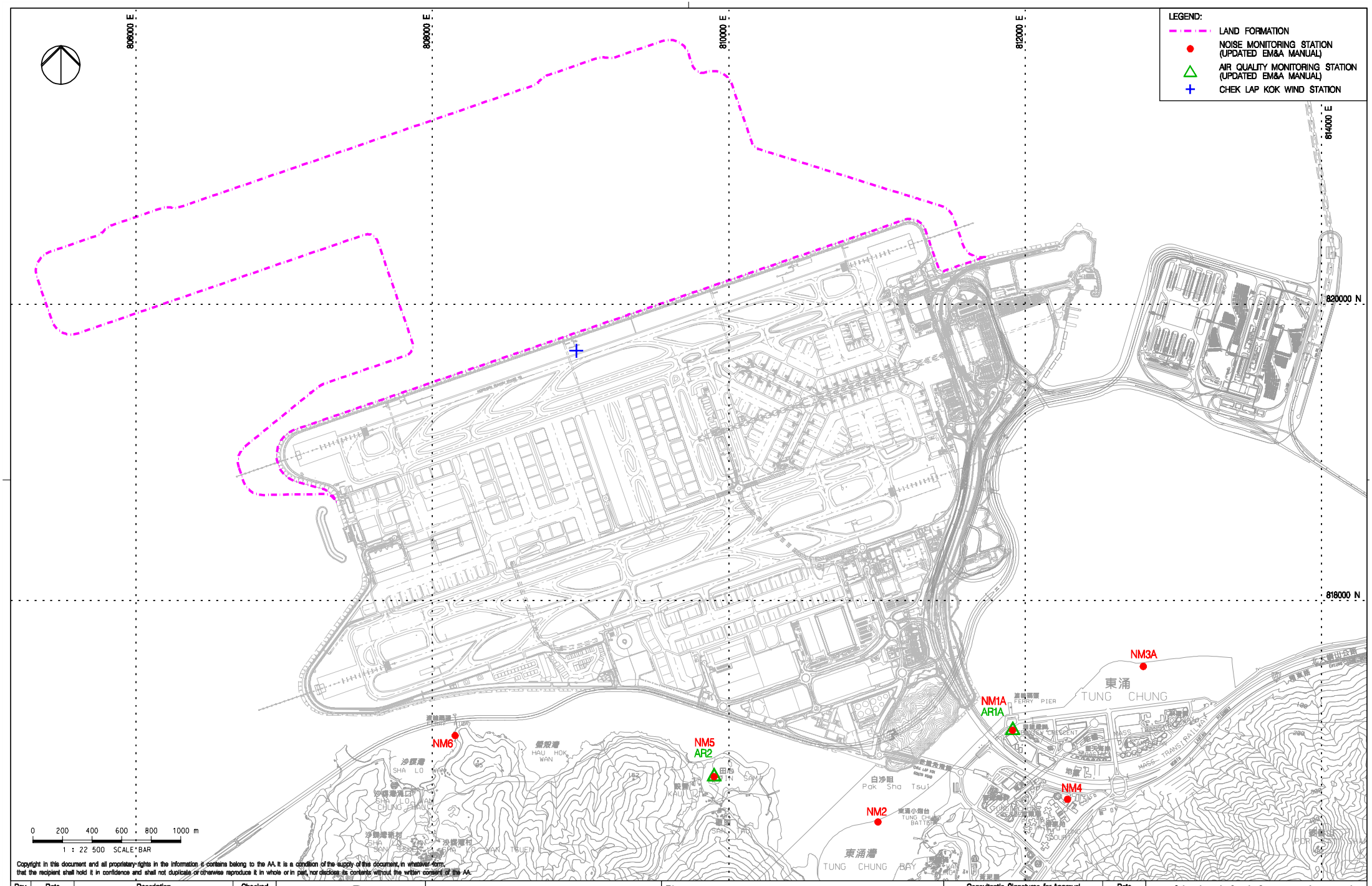
LOCATIONS OF RECLAMATION WORKS AREA

Note: The locations are for indicative purpose. The actual construction work locations are in accordance with the construction work programme.

Figure 1.3

Latest Layout of the Enhanced Silt Curtain





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Rev.	Date	Description	Checked
A	06JAN16	FIRST ISSUE	RO
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C	11FEB16	GENERAL REVISION	RO
D	29OCT18	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

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

Consultant's Signatures for Approval		Date
Design	TK	29OCT18
Checkers	TK	29OCT18
Approver	EC	29OCT18

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

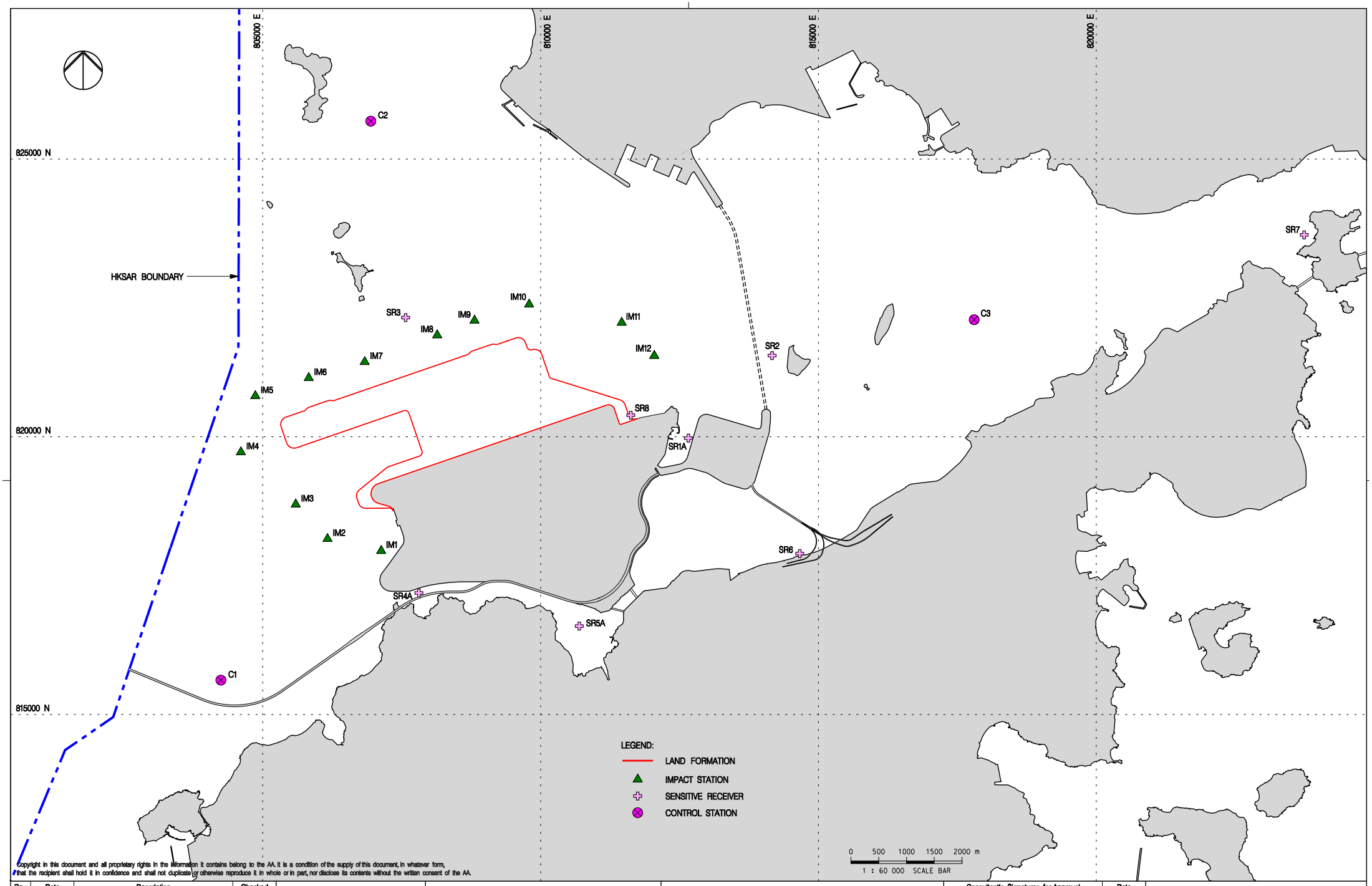
Drawing No.

FIGURE 2.1

Scale at A3 1 : 22500

Rev. D

Filename: J:\355482\REPORT\ENV\EMA\181029\FIG 2.1.dgn



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香港國際機場 HONG KONG INTERNATIONAL AIRPORT

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WATER QUALITY MONITORING STATIONS

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

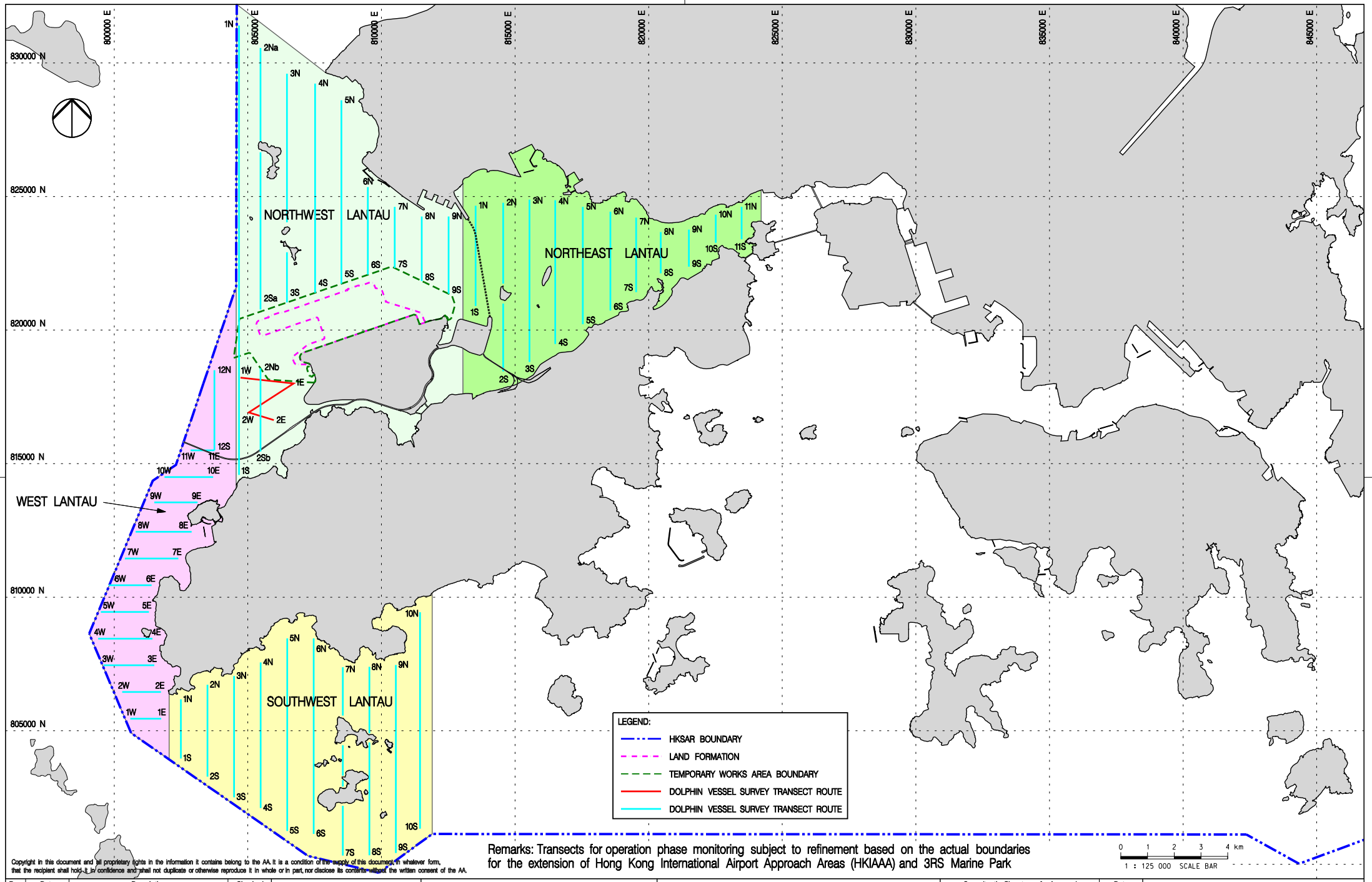
Drawing No.

FIGURE 4.1

Scale at A3 1 : 60000

Rev. E

Filename: J:\355482\REPORT\ENV\EMA\190123\FIG 2.2.dgn



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Remarks: Transects for operation phase monitoring subject to refinement based on the actual boundaries for the extension of Hong Kong International Airport Approach Areas (HKIAAA) and 3RS Marine Park

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B	27JUL16	GENERAL REVISION	JT
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F	04APR19	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

VESSEL BASED DOLPHIN MONITORING TRANSECTS IN CONSTRUCTION, POST-CONSTRUCTION AND OPERATION PHASES

Consultant's Signatures for Approval		Date
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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

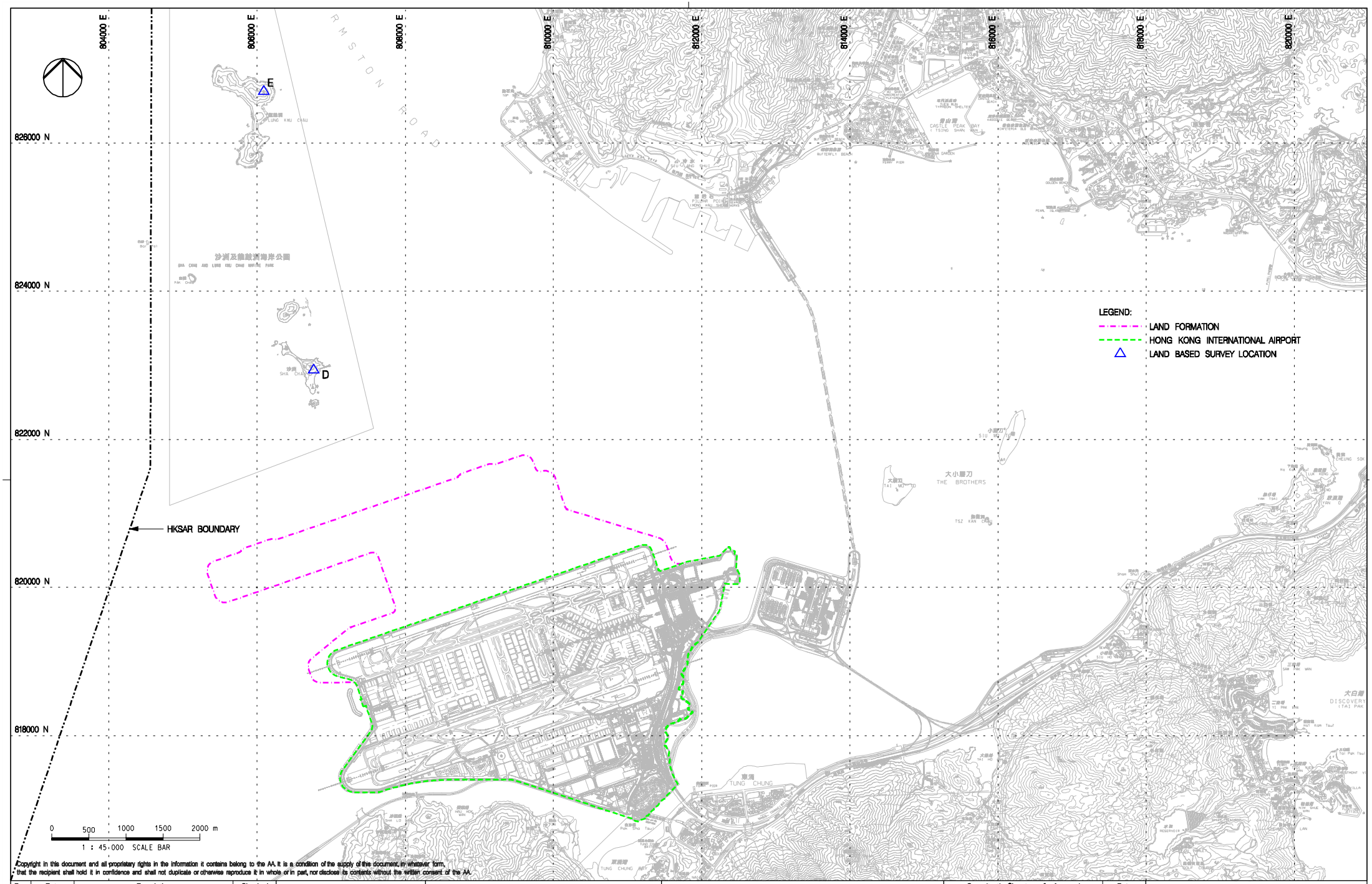
Drawing No.

FIGURE 6.1

Scale at A3 1 : 125000

Rev. F

Filename: J:\355482\REPORT\ENV\EMA\190404\FIG 6.1.dgn



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香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

LAND BASED DOLPHIN MONITORING IN BASELINE AND CONSTRUCTION PHASES

Consultant's Signatures for Approval		Date
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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

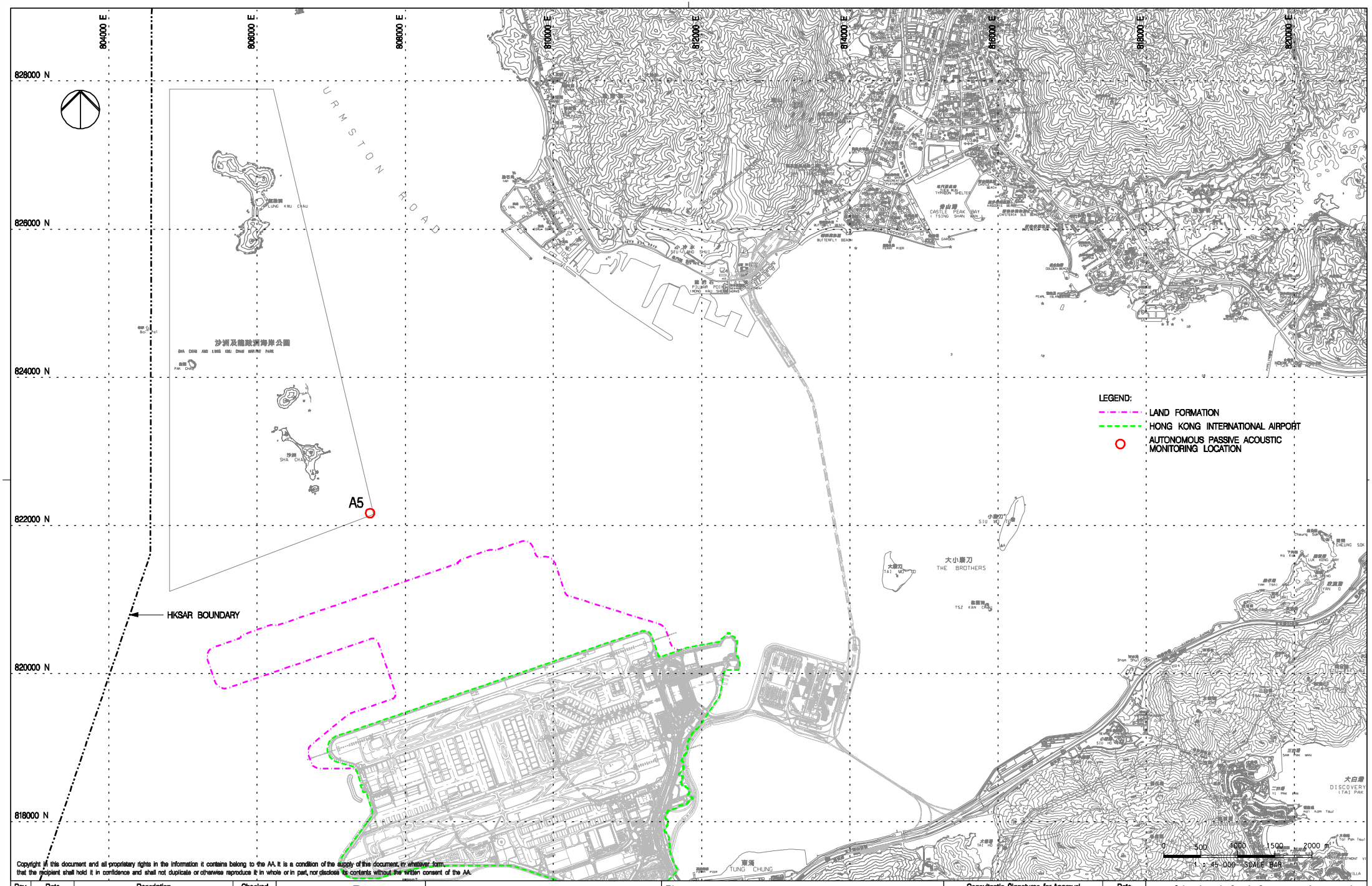
Drawing No.

FIGURE 6.2

Scale at A3 1 : 45000

Rev. C

Filename: J:\355482\REPORT\ENV\EMA\181029\FIG 2.5.dgn



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香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

Consultant's Signatures for Approval		Date
Design	JC	29OCT18
Checkers	JC / TK	29OCT18
Approver	EC	29OCT18

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

Drawing No. FIGURE 6.5

Scale at A3 1 : 45000

Rev. C

Filename: J:\355482\REPORT\ENV\EMA\181029\FIG 2.11.dgn

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

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	I

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	I
			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;		I
			▪ 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?^
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works ▪ 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, I *(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
			Specific Measures to be Applied to Land Formation Activities during Marine Filling Works ▪ 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	I *(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.		I

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 at 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;		I
			▪ 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		I

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.		I
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;	Project Site Area / Construction Phase	I
			▪ 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;		I
			▪ All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission;		I
			▪ Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;		I
			▪ Treated and untreated sediment should be clearly separated and stored separately; and		I
			▪ 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.		I
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.		I *(CAR for golf course)
			▪ 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.	I
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 through site inspection and record provided by the Contractor.

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Apr-19

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Site Inspection	**2** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 12:05 mid-flood: 6:21	**3** Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5, NM6	**4** Site Inspection CWD Survey (Land-based) WQ General & Regular DCM mid-ebb: 12:56 mid-flood: 7:02	**5**	**6** WQ General & Regular DCM mid-ebb: 13:47 mid-flood: 7:38
7	**8** AR2 NM5, NM6	**9** Site Inspection CWD Survey (Vessel) AR1A NM1A, NM4 WQ General & Regular DCM mid-ebb: 15:25 mid-flood: 8:49	**10** Site Inspection CWD Survey (Land-based)	**11** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 16:59 mid-flood: 9:49	**12** Site Inspection AR1A, AR2	**13** WQ General & Regular DCM mid-ebb: 19:15 mid-flood: 6:37
14	**15**	**16** Site Inspection WQ General & Regular DCM mid-ebb: 11:07 mid-flood: 16:32	**17** Site Inspection CWD Survey (Vessel)	**18** Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5, NM6 WQ General & Regular DCM mid-ebb: 12:24 mid-flood: 18:25	**19**	**20** WQ General & Regular DCM mid-ebb: 13:38 mid-flood: 20:11
21	**22**	**23** Site Inspection WQ General & Regular DCM mid-ebb: 15:37 mid-flood: 8:51	**24** Site Inspection CWD Survey (Vessel, Land-based) AR1A, AR2 NM1A, NM4, NM5, NM6	**25** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 17:09 mid-flood: 9:53	**26** Site Inspection	**27** WQ General & Regular DCM mid-ebb: 19:17 mid-flood: 6:40
28	**29**	**30** Site Inspection AR1A, AR2 NM1A, NM4, NM5, NM6 WQ General & Regular DCM mid-ebb: 11:04 mid-flood: 16:15				

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

WQ - Water Quality

DCM - Deep Cement Mixing

NM1A/AR1A - Man Tung Road Park
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

May-19

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Site Inspection WQ General & Regular DCM mid-ebb: 12:00 mid-flood: 17:48	3 Site Inspection CWD Survey (Vessel, Land-based)	4 WQ General & Regular DCM mid-ebb: 12:53 mid-flood: 19:12
5	6 CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5, NM6	7 Site Inspection WQ General & Regular DCM mid-ebb: 14:31 mid-flood: 7:48	8 Site Inspection CWD Survey (Vessel)	9 Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 15:57 mid-flood: 8:53	10 Site Inspection AR1A, AR2	11 WQ General & Regular DCM mid-ebb: 17:48 mid-flood: 10:22
12	13	14 Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 9:56 mid-flood: 15:17	15 Site Inspection CWD Survey (Vessel)	16 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5, NM6 WQ General & Regular DCM mid-ebb: 11:23 mid-flood: 17:27	17 Site Inspection	18 WQ General & Regular DCM mid-ebb: 12:40 mid-flood: 19:21
19	20 CWD Survey (Land-based)	21 Site Inspection CWD Survey (Vessel, Land-based) WQ General & Regular DCM mid-ebb: 14:37 mid-flood: 7:45	22 Site Inspection AR1A, AR2 NM1A, NM4, NM5, NM6	23 Site Inspection WQ General & Regular DCM mid-ebb: 15:58 mid-flood: 8:51	24 Site Inspection	25 WQ General & Regular DCM mid-ebb: 17:27 mid-flood: 10:05
26	27	28 Site Inspection AR1A, AR2 NM1A, NM4, NM5, NM6 WQ General & Regular DCM mid-ebb: 9:34 mid-flood: 14:20	29 Site Inspection	30 Site Inspection WQ General & Regular DCM mid-ebb: 10:54 mid-flood: 16:36	31 Site Inspection	

Notes:

Contract Number - Site Inspection

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

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

WQ - Water Quality

DCM - Deep Cement Mixing

Appendix C. Monitoring Results

Air Quality Monitoring Results

1-hour TSP Results

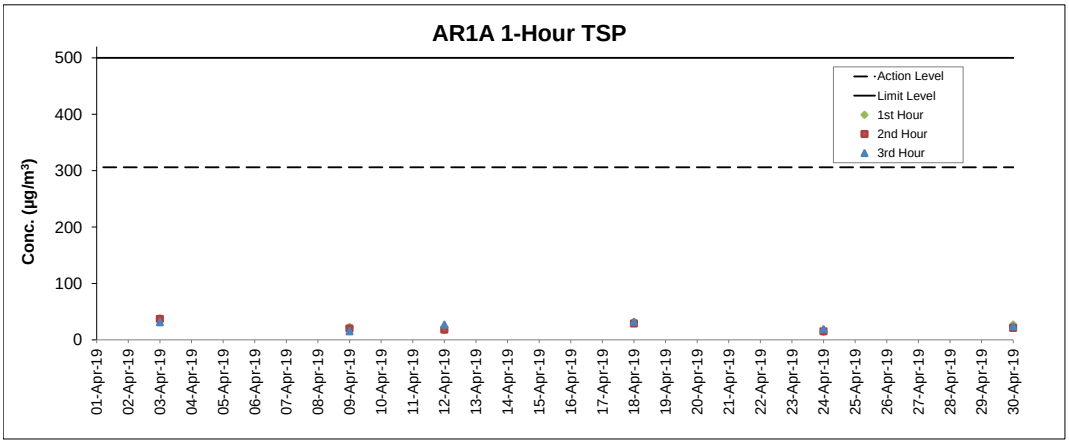
Station: AR1A- Man Tung Road Park

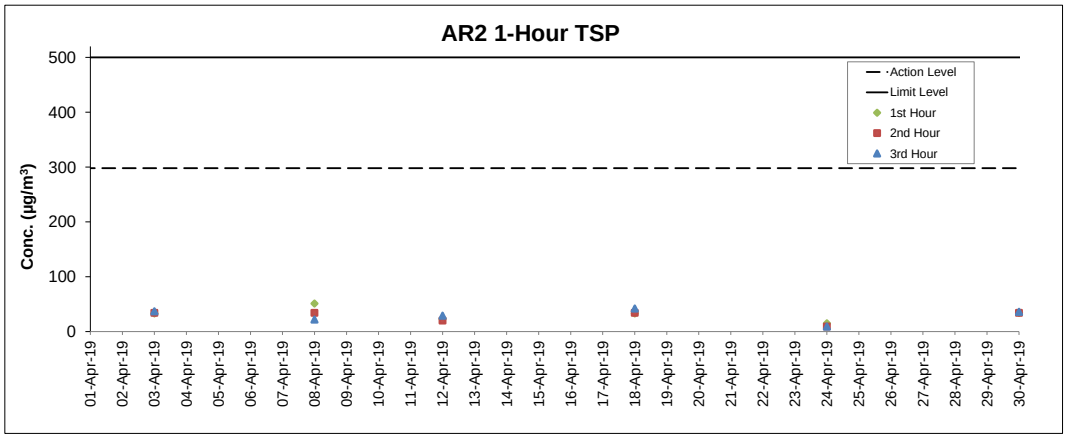
Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
03-Apr-19	9:33	Sunny	5.6	86	38	306	500
03-Apr-19	10:33	Sunny	6.0	74	37	306	500
03-Apr-19	11:33	Sunny	6.0	104	31	306	500
09-Apr-19	9:00	Sunny	4.2	161	23	306	500
09-Apr-19	10:00	Sunny	4.2	197	20	306	500
09-Apr-19	11:00	Sunny	4.6	150	15	306	500
12-Apr-19	14:58	Cloudy	8.1	107	17	306	500
12-Apr-19	15:58	Cloudy	12.0	88	18	306	500
12-Apr-19	16:58	Cloudy	9.7	87	27	306	500
18-Apr-19	09:20	Cloudy	5.2	112	32	306	500
18-Apr-19	10:20	Cloudy	7.5	94	29	306	500
18-Apr-19	11:20	Cloudy	10.0	115	32	306	500
24-Apr-19	14:55	Sunny	7.1	233	14	306	500
24-Apr-19	15:55	Sunny	5.9	203	15	306	500
24-Apr-19	16:55	Sunny	4.9	219	19	306	500
30-Apr-19	9:11	Cloudy	5.5	199	27	306	500
30-Apr-19	10:11	Cloudy	7.7	207	21	306	500
30-Apr-19	11:11	Cloudy	9.0	230	24	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 (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
03-Apr-19	9:28	Sunny	5.6	42	33	298	500
03-Apr-19	10:28	Sunny	5.8	91	34	298	500
03-Apr-19	11:28	Sunny	6.0	70	37	298	500
08-Apr-19	9:26	Cloudy	3.0	53	51	298	500
08-Apr-19	10:26	Cloudy	2.1	36	34	298	500
08-Apr-19	11:26	Cloudy	3.1	29	22	298	500
12-Apr-19	9:22	Rainy	7.4	94	23	298	500
12-Apr-19	10:22	Rainy	5.4	106	20	298	500
12-Apr-19	11:22	Rainy	6.7	89	29	298	500
18-Apr-19	9:00	Cloudy	7.5	96	33	298	500
18-Apr-19	10:00	Cloudy	6.3	99	34	298	500
18-Apr-19	11:00	Cloudy	6.7	116	42	298	500
24-Apr-19	9:30	Sunny	3.8	224	15	298	500
24-Apr-19	10:30	Sunny	4.8	236	9	298	500
24-Apr-19	11:30	Sunny	6.8	230	9	298	500
30-Apr-19	9:25	Cloudy	5.4	204	34	298	500
30-Apr-19	10:25	Cloudy	7.4	217	34	298	500
30-Apr-19	11:25	Cloudy	8.7	236	36	298	500





Notes

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

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)
03-Apr-19	Sunny	10:08	70.8	54.3	73
03-Apr-19	Sunny	10:13	75.2	54.1	
03-Apr-19	Sunny	10:18	73.4	56.2	
03-Apr-19	Sunny	10:23	72.6	55.8	
03-Apr-19	Sunny	10:28	72.0	54.3	
03-Apr-19	Sunny	10:33	71.6	54.8	
09-Apr-19	Sunny	09:11	72.4	54.2	72
09-Apr-19	Sunny	09:16	74.2	55.1	
09-Apr-19	Sunny	09:21	73.5	55.1	
09-Apr-19	Sunny	09:26	70.9	53.4	
09-Apr-19	Sunny	09:31	72.8	54.8	
09-Apr-19	Sunny	09:36	71.5	53.3	
18-Apr-19	Cloudy	09:31	72.7	56.5	72
18-Apr-19	Cloudy	09:36	72.4	55.0	
18-Apr-19	Cloudy	09:41	73.3	55.9	
18-Apr-19	Cloudy	09:46	70.3	53.6	
18-Apr-19	Cloudy	09:51	73.3	57.2	
18-Apr-19	Cloudy	09:56	73.2	55.8	
24-Apr-19	Sunny	15:12	72.7	55.2	71
24-Apr-19	Sunny	15:17	71.0	52.6	
24-Apr-19	Sunny	15:22	70.5	52.6	
24-Apr-19	Sunny	15:27	73.3	52.1	
24-Apr-19	Sunny	15:32	71.3	52.3	
24-Apr-19	Sunny	15:37	69.6	52.1	
30-Apr-19	Cloudy	09:23	74.1	54.7	72
30-Apr-19	Cloudy	09:28	71.9	53.9	
30-Apr-19	Cloudy	09:33	72.0	55.3	
30-Apr-19	Cloudy	09:38	70.2	53.2	
30-Apr-19	Cloudy	09:43	74.2	56.0	
30-Apr-19	Cloudy	09:48	72.4	55.8	

Remarks:

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

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
03-Apr-19	Sunny	11:56	63.4	59.4	64
03-Apr-19	Sunny	12:01	62.6	58.7	
03-Apr-19	Sunny	12:06	64.8	59.1	
03-Apr-19	Sunny	12:11	63.0	59.3	
03-Apr-19	Sunny	12:16	62.5	58.3	
03-Apr-19	Sunny	12:21	63.6	59.0	
09-Apr-19	Sunny	11:16	62.8	57.8	63
09-Apr-19	Sunny	11:21	62.5	58.1	
09-Apr-19	Sunny	11:26	61.6	57.1	
09-Apr-19	Sunny	11:31	61.1	56.7	
09-Apr-19	Sunny	11:36	63.1	56.9	
09-Apr-19	Sunny	11:41	62.8	58.1	
18-Apr-19	Cloudy	13:29	65.3	59.8	66
18-Apr-19	Cloudy	13:34	63.4	59.0	
18-Apr-19	Cloudy	13:39	64.3	59.3	
18-Apr-19	Cloudy	13:44	63.6	60.4	
18-Apr-19	Cloudy	13:49	63.5	59.9	
18-Apr-19	Cloudy	13:54	66.3	60.8	
24-Apr-19	Sunny	13:41	60.8	56.6	63
24-Apr-19	Sunny	13:46	61.6	56.9	
24-Apr-19	Sunny	13:51	61.4	58.2	
24-Apr-19	Sunny	13:56	61.5	57.7	
24-Apr-19	Sunny	14:01	61.0	58.0	
24-Apr-19	Sunny	14:06	61.5	57.0	
30-Apr-19	Cloudy	13:53	66.4	60.1	66
30-Apr-19	Cloudy	13:58	64.0	59.4	
30-Apr-19	Cloudy	14:03	64.5	60.1	
30-Apr-19	Cloudy	14:08	64.2	59.6	
30-Apr-19	Cloudy	14:13	66.1	60.7	
30-Apr-19	Cloudy	14:18	65.0	60.2	

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)
03-Apr-19	Sunny	10:44	57.1	49.2	59
03-Apr-19	Sunny	10:49	57.0	49.8	
03-Apr-19	Sunny	10:54	56.1	49.7	
03-Apr-19	Sunny	10:59	60.8	50.6	
03-Apr-19	Sunny	11:04	59.3	52.0	
03-Apr-19	Sunny	11:09	59.5	49.7	
08-Apr-19	Cloudy	10:04	57.4	50.3	61
08-Apr-19	Cloudy	10:09	60.6	52.6	
08-Apr-19	Cloudy	10:14	61.9	46.7	
08-Apr-19	Cloudy	10:19	53.2	45.6	
08-Apr-19	Cloudy	10:24	59.5	50.2	
08-Apr-19	Cloudy	10:29	57.5	48.1	
18-Apr-19	Cloudy	09:31	51.0	45.6	56
18-Apr-19	Cloudy	09:36	59.9	45.6	
18-Apr-19	Cloudy	09:41	47.7	45.2	
18-Apr-19	Cloudy	09:46	51.9	45.2	
18-Apr-19	Cloudy	09:51	53.9	45.7	
18-Apr-19	Cloudy	09:56	57.5	48.4	
24-Apr-19	Sunny	10:03	53.2	42.2	57
24-Apr-19	Sunny	10:08	48.8	41.3	
24-Apr-19	Sunny	10:13	49.9	43.7	
24-Apr-19	Sunny	10:18	56.2	45.0	
24-Apr-19	Sunny	10:23	52.9	45.7	
24-Apr-19	Sunny	10:28	54.0	44.5	
30-Apr-19	Cloudy	09:30	56.6	44.3	53
30-Apr-19	Cloudy	09:35	56.2	45.2	
30-Apr-19	Cloudy	09:40	50.3	44.9	
30-Apr-19	Cloudy	09:45	50.4	44.1	
30-Apr-19	Cloudy	09:50	55.4	42.4	
30-Apr-19	Cloudy	09:55	60.9	43.7	

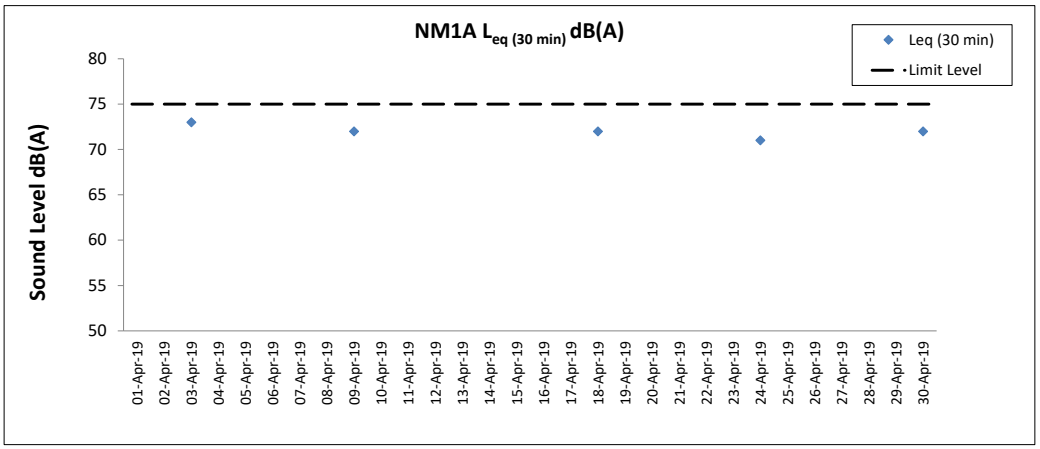
Remarks:
+3dB (A) correction was applied to free-field measurement.

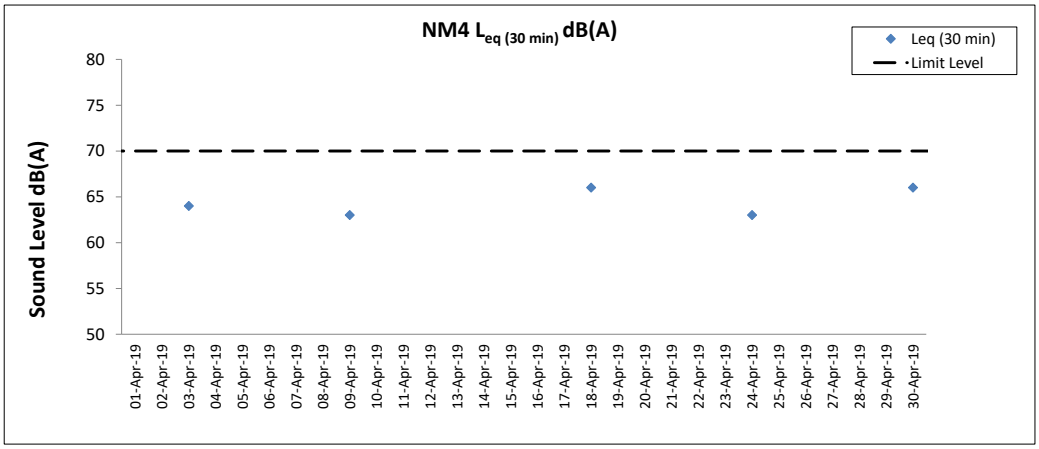
Noise Measurement Results

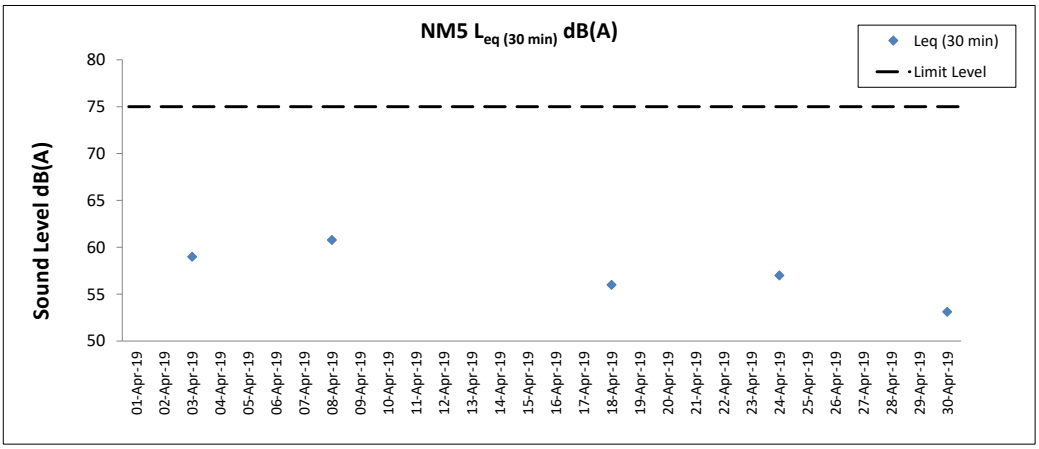
Station: NM6- House No.1 Sha Lo Wan

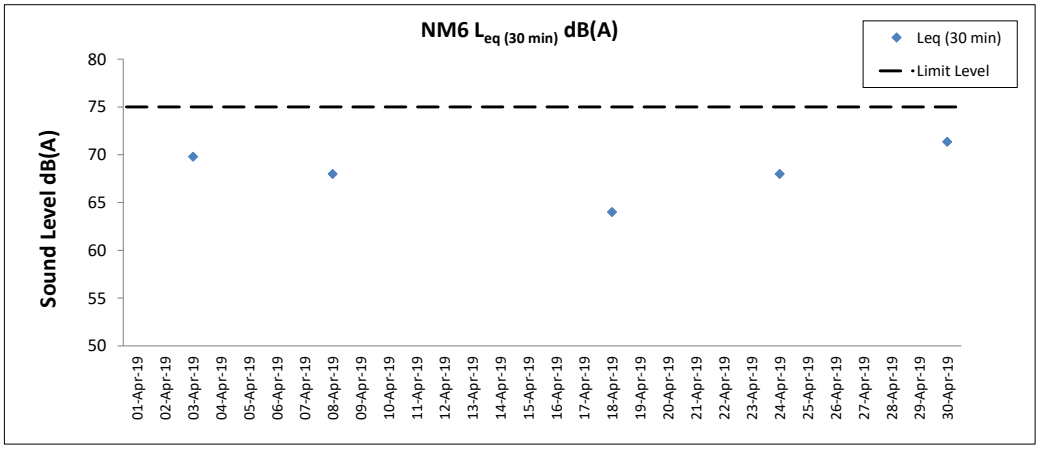
Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
03-Apr-19	Sunny	13:33	70.8	65.2	70
03-Apr-19	Sunny	13:38	73.7	56.5	
03-Apr-19	Sunny	13:43	68.4	53.3	
03-Apr-19	Sunny	13:48	73.5	57.7	
03-Apr-19	Sunny	13:53	75.1	58.1	
03-Apr-19	Sunny	13:58	74.0	55.2	
08-Apr-19	Cloudy	13:47	69.4	47.2	68
08-Apr-19	Cloudy	13:52	72.9	48.5	
08-Apr-19	Cloudy	13:57	64.7	46.8	
08-Apr-19	Cloudy	14:02	72.7	46.6	
08-Apr-19	Cloudy	14:07	74.8	48.1	
08-Apr-19	Cloudy	14:12	73.5	48.3	
18-Apr-19	Cloudy	13:25	60.7	50.0	64
18-Apr-19	Cloudy	13:30	60.4	49.6	
18-Apr-19	Cloudy	13:35	61.6	50.8	
18-Apr-19	Cloudy	13:40	63.4	52.4	
18-Apr-19	Cloudy	13:45	60.3	52.6	
18-Apr-19	Cloudy	13:50	68.8	60.7	
24-Apr-19	Sunny	13:43	74.9	47.4	68
24-Apr-19	Sunny	13:48	69.5	46.3	
24-Apr-19	Sunny	13:53	72.9	46.9	
24-Apr-19	Sunny	13:58	67.5	47.3	
24-Apr-19	Sunny	14:03	68.9	46.0	
24-Apr-19	Sunny	14:08	74.9	46.3	
30-Apr-19	Cloudy	13:33	74.4	52.7	71
30-Apr-19	Cloudy	13:38	72.6	52.1	
30-Apr-19	Cloudy	13:43	71.8	52.7	
30-Apr-19	Cloudy	13:48	73.3	52.0	
30-Apr-19	Cloudy	13:53	74.3	53.2	
30-Apr-19	Cloudy	13:58	73.9	53.4	

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









Notes

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Water Quality Monitoring Results

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 02 April 19 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	11:11	8.4	Surface	1.0	0.3	148	22.1	22.1	8.1	8.1	30.5	30.5	100.4	100.4	7.4	7.4	1.6	3.2	4	4	83	87	815624	804241	<0.2	<0.2	1.0	0.9
						1.0	0.3	161	22.1		8.1		30.5		100.4		7.4		1.6		2		83				<0.2		0.8	
					Middle	4.2	0.2	166	22.0	22.0	8.1	8.1	30.2	30.2	100.2	100.2	7.4		1.2		3		88				<0.2		0.8	
						4.2	0.2	176	21.9		8.1		30.2		100.2		7.4		1.2		4		88				<0.2		0.9	
					Bottom	7.4	0.1	165	21.9	21.9	8.0	8.0	30.3	30.3	99.7	99.7	7.3	7.3	6.7		4		91				<0.2		0.7	
						7.4	0.1	174	21.9		8.0		30.3		99.6		7.3		6.7		4		91				<0.2		0.9	
C2	Sunny	Moderate	10:23	11.5	Surface	1.0	0.1	149	22.2	22.2	8.4	8.4	25.6	25.6	94.8	94.8	7.1	7.1	6.0	5.5	2	3	86	88	825688	806947	<0.2	<0.2	1.8	1.6
						1.0	0.1	156	22.2		8.4		25.6		94.8		7.1		6.1		2		85				<0.2		1.9	
					Middle	5.8	0.1	260	22.1	22.1	8.4	8.4	27.5	27.5	94.3	94.3	7.0		6.0		3		89				<0.2		1.7	
						5.8	0.1	279	22.1		8.4		27.5		94.3		7.0		6.4		2		88				<0.2		1.5	
					Bottom	10.5	0.1	206	22.1	22.1	8.4	8.4	28.4	28.4	95.1	95.2	7.0	7.1	4.0		4		89				<0.2		1.4	
						10.5	0.1	215	22.1		8.4		28.4		95.3		7.1		4.2		5		90				<0.2		1.5	
C3	Sunny	Moderate	12:16	11.6	Surface	1.0	0.2	63	22.0	22.0	8.4	8.4	29.0	29.0	97.8	97.9	7.2	7.3	3.1	5.8	2	3	85	88	822125	817804	<0.2	<0.2	0.8	0.9
						1.0	0.3	65	22.0		8.4		29.0		98.0		7.3		3.1		3		87				<0.2		1.0	
					Middle	5.8	0.2	98	22.0	22.1	8.4	8.4	25.9	25.9	96.7	96.7	7.3		5.9		3		88				<0.2		1.0	
						5.8	0.3	100	22.1		8.4		25.9		96.6		7.3		5.9		4		89				<0.2		0.9	
					Bottom	10.6	0.3	109	22.2	22.2	8.4	8.4	29.6	29.6	97.1	97.2	7.1	7.2	8.4		3		90				<0.2		0.9	
						10.6	0.4	117	22.2		8.4		29.6		97.3		7.2		8.3		4		91				<0.2		0.8	
IM1	Sunny	Moderate	11:02	4.3	Surface	1.0	0.0	223	22.0	22.1	8.1	8.1	30.5	30.5	100.2	100.3	7.3	7.3	4.2	6.9	3	3	83	88	817953	807140	<0.2	<0.2	1.1	1.2
						1.0	0.0	238	22.1		8.1		30.5		100.4		7.3		4.2		3		84				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	144	22.2	22.2	8.1	8.1	30.6	30.6	100.8	100.8	7.4	7.4	9.6		3		92				<0.2		1.3	
						3.3	0.1	154	22.2		8.1		30.6		100.8		7.4		9.7		3		92				<0.2		1.2	
IM2	Sunny	Moderate	10:56	8.1	Surface	1.0	0.1	50	21.8	21.8	8.1	8.1	30.7	30.7	99.9	99.9	7.3	7.4	2.0	7.8	3	4	83	88	818184	806152	<0.2	<0.2	1.6	1.6
						1.0	0.1	51	21.8		8.1		30.7		99.9		7.3		2.1		3		84				<0.2		1.4	
					Middle	4.1	0.1	98	21.7	21.7	8.1	8.1	30.7	30.7	100.0	100.1	7.4		8.0		4		88				<0.2		1.7	
						4.1	0.1	99	21.7		8.1		30.7		100.1		7.4		8.0		4		88				<0.2		1.7	
					Bottom	7.1	0.2	108	21.8	21.8	8.1	8.1	30.7	30.7	100.5	100.6	7.4	7.4	13.2		4		91				<0.2		1.4	
						7.1	0.2	118	21.8		8.1		30.7		100.6		7.4		13.2		4		92				<0.2		1.6	
IM3	Sunny	Moderate	10:51	7.5	Surface	1.0	0.2	11	21.7	21.7	8.1	8.1	30.6	30.6	100.4	100.4	7.4	7.4	3.5	6.7	3	4	83	87	818771	805578	<0.2	<0.2	1.4	1.4
						1.0	0.2	11	21.7		8.1		30.6		100.4		7.4		3.5		3		83				<0.2		1.3	
					Middle	3.8	0.1	17	21.7	21.7	8.1	8.1	30.6	30.6	100.4	100.4	7.4		4.0		4		87				<0.2		1.4	
						3.8	0.1	17	21.7		8.1		30.6		100.4		7.4		4.2		3		88				<0.2		1.4	
					Bottom	6.5	0.1	37	21.5	21.5	8.1	8.1	30.2	30.2	101.3	101.3	7.5	7.5	12.4		4		91				<0.2		1.6	
						6.5	0.1	39	21.4		8.1		30.2		101.3		7.5		12.4		4		92				<0.2		1.5	
IM4	Sunny	Moderate	10:42	7.9	Surface	1.0	0.2	233	21.8	21.8	8.1	8.0	31.0	31.0	99.6	99.6	7.3	7.3	4.1	2.9	4	5	79	86	819728	804583	<0.2	<0.2	1.2	1.3
						1.0	0.2	256	21.8		8.0		31.0		99.6		7.3		4.1		4		80				<0.2		1.0	
					Middle	4.0	0.2	214	21.6	21.6	8.0	8.0	31.1	31.1	99.4	99.4	7.3		3.0		5		87				<0.2		1.3	
						4.0	0.2	214	21.6		8.0		31.1		99.4		7.3		3.1		5		88				<0.2		1.3	
					Bottom	6.9	0.2	209	21.4	21.4	8.0	8.0	28.9	28.9	99.0	99.1	7.4	7.4	1.5		5		91				<0.2		1.3	
						6.9	0.2	226	21.4		8.0		28.9		99.1		7.4		1.6		4		92				<0.2		1.4	
IM5	Sunny	Moderate	10:35	7.1	Surface	1.0	0.2	306	21.1	21.1	8.0	8.0	30.2	30.2	100.2	100.4	7.5	7.4	3.6	4.8	4	5	83	88	820727	804843	<0.2	<0.2	1.3	1.2
						1.0	0.2	312	21.1		8.0		30.2		100.6		7.5		3.5		4		83				<0.2		1.2	
					Middle	3.6	0.2	324	21.7	21.7	8.0	8.0	30.8	30.8	99.3	99.4	7.3		5.7		5		88				<0.2		1.3	
						3.6	0.2	328	21.7		8.0		30.8		99.4		7.3		5.8		5		89				<0.2		1.2	
					Bottom	6.1	0.1	16	21.7	21.7	8.0	8.0	30.7	30.7	99.6	99.7	7.3	7.3	5.1		5		91				<0.2		1.0	
						6.1	0.1	16	21.7		8.0		30.7		99.7		7.3		5.2		5		91				<0.2		1.2	
IM6	Sunny	Moderate	10:30	7.8	Surface	1.0	0.3	268	21.5	21.5	8.0	8.0	26.0	26.0	97.3	97.3	7.4	7.4	4.4	4.0	3	3	83	87	821055	805819	<0.2	<0.2	0.6	0.7
						1.0	0.4	281	21.5		8.0		26.0		97.3		7.4		4.4		2		84				<0.2		0.8	
					Middle	3.9	0.1	250	21.5	21.5	8.0	8.0	26.0	26.0	97.6	97.6	7.4		3.1		3		87				<0.2		0.8	
						3.9	0.2	262	21.5		8.0		26.0		97.6		7.4		3.1		3		87				<0.2		0.7	
					Bottom	6.8	0.1	126	21.5	21.5	8.0	8.0	26.6	26.6	97.8	97.8	7.4	7.4	4.5		4		91				<0.2		0.7	
						6.8	0.1	135	21.5		8.0		26.6		97.8		7.4		4.5		3		92				<0.2		0.7	
IM7	Sunny	Moderate	10:25	7.6	Surface	1.0	0.2	247	21.5	21.5	8.0	8.0	25.6	25.6	96.5	96.5	7.3	7.3	4.2	10.0	<2	2	84	88	821361	806848	<0.2	<0.2	0.8	0.8
						1.0	0.3	252	21.5		8.0		25.6		96.5		7.3		4.2		<2		84				<0.2		1.0	
					Middle	3.8	0.0	267	21.5	21.5	8.0	8.0	25.8	25.8	96.6	96.6	7.3		8.6		<2		88				<0.2		0.8	
						3.8	0.0	272	21.5		8.0		25.8		96.6		7.3		8.5		<2		88				<0.2		0.8	
					Bottom	6.6	0.2	247	21.5	21.5	8.0	8.0	25.7	25.7	97.3	97.6	7.4	7.4	17.1		2		91				<0.2		0.7	
						6.6	0.2	248	21.5		8.0		25.7		97.8		7.4		17.1		2		92				<0.2		0.7	
IM8	Sunny	Moderate	10:51	7.7	Surface	1.0	0.1	222	22.1	22.1	8.4	8.4	25.7	25.7	96.8	96.8	7.3	7.3	3.5	3.9	<2	3	85	87	821840	808125	<0.2	<0.2	1.2	1.4
						1.0	0.1	210	22.1		8.4		25.7		96.8		7.3		3.5		<2		84				<0.2		1.2	
					Middle	3.9	0.3	203	22.1	22.1	8.4	8.4	25.9	25.9	97.2	97.3	7.3		3.3		3		87				<0.2		1.4	
						3.9	0.3	208	22.1		8.4		25.9		97.4		7.3		3.3		2		88				<0.2		1.4	
					Bottom	6.7	0.2	262	22.1	22.1	8.4	8.4	26.3	26.3	95.5	95.5	7.2	7.2	4.9		4		90				<0.2		1.5	
						6.7	0.2	268	22.1		8.4		26.3		95.5		7.2		5.0		3		89				<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 02 April 19 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	10:57	7.3	Surface	1.0	0.3	200	22.1	22.1	8.4	8.4	25.7	25.7	96.4	96.4	7.3	7.3	4.9	4.3	2	3	86	88	822091	808803	<0.2	<0.2	1.6	1.6
						1.0	0.3	206	22.1		8.4		25.7		96.3		7.2		4.9		2		85				<0.2		1.4	
					Middle	3.7	0.3	188	22.1	22.1	8.4	8.4	25.8	25.8	96.4	96.4	7.3		4.5		3		89				<0.2		1.6	
						3.7	0.4	179	22.1		8.4		25.8		96.4		7.3		4.1		3		88				<0.2		1.7	
					Bottom	6.3	0.3	170	22.1	22.1	8.4	8.4	26.0	26.0	95.9	95.9	7.2	7.2	3.8		3		90				<0.2		1.6	
						6.3	0.3	171	22.1		8.4		26.0		95.8		7.2		3.8		2		90				<0.2		1.6	
IM10	Sunny	Moderate	11:05	7.5	Surface	1.0	0.4	114	22.1	22.1	8.4	8.4	25.9	25.9	97.1	97.1	7.3	7.4	6.4	4.9	3	3	85	88	822392	809777	<0.2	<0.2	1.4	1.5
						1.0	0.5	123	22.1		8.4		25.9		97.1		7.3		6.4		3		84				<0.2		1.4	
					Middle	3.8	0.4	104	21.9	21.9	8.4	8.4	26.2	26.2	98.0	98.0	7.4		4.8		3		88				<0.2		1.5	
						3.8	0.4	104	21.9		8.4		26.3		98.0		7.4		4.8		4		89				<0.2		1.5	
					Bottom	6.5	0.4	99	22.1	22.1	8.4	8.4	26.0	26.0	96.6	96.7	7.3	7.3	3.5		3		90				<0.2		1.5	
						6.5	0.4	104	22.1		8.4		26.0		96.7		7.3		3.6		3		90				<0.2		1.7	
IM11	Sunny	Moderate	11:16	7.4	Surface	1.0	0.5	111	22.4	22.4	8.4	8.4	26.1	26.1	98.4	98.4	7.3	7.3	3.1	4.7	3	4	85	88	822060	811477	<0.2	<0.2	1.6	1.6
						1.0	0.5	118	22.4		8.4		26.1		98.4		7.3		3.1		3		85				<0.2		1.4	
					Middle	3.7	0.4	129	22.2	22.2	8.4	8.4	26.6	26.6	97.2	97.3	7.3		6.9		4		88				<0.2		1.7	
						3.7	0.4	137	22.2		8.4		26.6		97.3		7.3		6.6		3		89				<0.2		1.6	
					Bottom	6.4	0.3	150	22.2	22.2	8.4	8.4	27.3	27.3	97.2	97.3	7.2	7.2	4.3		4		90				<0.2		1.6	
						6.4	0.4	157	22.2		8.4		27.3		97.3		7.2		4.6		4		89				<0.2		1.6	
IM12	Sunny	Moderate	11:24	7.9	Surface	1.0	0.5	107	22.2	22.2	8.4	8.4	26.1	26.1	98.2	98.2	7.4	7.3	6.6	9.0	3	4	86	88	821449	812054	<0.2	<0.2	1.3	1.6
						1.0	0.5	110	22.2		8.4		26.1		98.1		7.3		6.6		3		85				<0.2		1.2	
					Middle	4.0	0.4	115	22.2	22.2	8.4	8.4	27.0	27.0	97.3	97.3	7.3		11.1		4		88				<0.2		1.9	
						4.0	0.4	115	22.2		8.4		27.0		97.2		7.2		11.1		3		89				<0.2		2.0	
					Bottom	6.9	0.3	114	22.2	22.2	8.4	8.4	28.1	28.1	96.9	97.0	7.2	7.2	9.4		4		91				<0.2		1.6	
						6.9	0.3	118	22.2		8.4		28.1		97.0		7.2		9.4		5		89				<0.2		1.8	
SR1A	Sunny	Moderate	11:44	4.8	Surface	1.0	-	-	22.1	22.1	8.4	8.4	27.7	27.7	95.8	95.8	7.1	7.1	4.7	3.9	3	4	-	-	819982	812663	-	-	-	-
						1.0	-	-	22.1		8.4		27.7		95.7		7.1		4.7		3		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	22.1	22.2	8.4	8.4	28.0	28.0	95.8	95.9	7.1	7.1	3.1		4		-				-		-	
						3.8	-	-	22.2		8.4		27.9		96.0		7.1		2.9		4		-				-		-	
SR2	Sunny	Moderate	11:57	4.7	Surface	1.0	0.4	93	22.0	22.0	8.4	8.4	28.0	27.8	95.9	95.9	7.1	7.1	5.7	5.0	3	4	87	88	821461	814165	<0.2	<0.2	0.7	0.7
						1.0	0.4	94	22.0		8.4		27.7		95.8		7.1		5.6		4		86				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	95	22.0	22.0	8.4	8.4	28.7	28.7	96.1	96.2	7.1	7.1	4.2		4		90				<0.2		0.6	
						3.7	0.3	95	22.0		8.4		28.7		96.3		7.1		4.6		4		89				<0.2		0.5	
SR3	Sunny	Moderate	10:45	8.7	Surface	1.0	0.2	244	22.1	22.1	8.4	8.4	25.6	25.6	94.6	94.6	7.1	7.1	5.0	5.7	4	4	-	-	822127	807556	-	-	-	-
						1.0	0.2	261	22.1		8.4		25.6		94.5		7.1		4.7		3		-				-		-	
					Middle	4.4	0.2	179	22.1	22.2	8.4	8.4	26.5	26.5	93.6	93.6	7.0		8.9		4		-				-		-	
						4.4	0.2	189	22.2		8.4		26.5		93.5		7.0		8.9		3		-				-		-	
					Bottom	7.7	0.2	66	22.2	22.2	8.4	8.4	25.5	25.5	94.2	94.2	7.1	7.1	3.6		6		-				-		-	
						7.7	0.2	66	22.2		8.4		25.5		94.2		7.1		3.6		6		-				-		-	
SR4A	Sunny	Moderate	11:38	7.6	Surface	1.0	0.3	67	21.8	21.8	8.0	8.0	30.5	30.5	98.7	98.7	7.3	7.3	8.9	5.8	4	5	-	-	817178	807801	-	-	-	-
						1.0	0.3	73	21.8		8.0		30.5		98.6		7.3		8.9		5		-				-		-	
					Middle	3.8	0.4	62	21.9	22.0	8.0	8.0	30.4	30.4	98.7	98.7	7.2		4.9		6		-				-		-	
						3.8	0.4	66	22.0		8.0		30.3		98.7		7.2		5.0		5		-				-		-	
					Bottom	6.6	0.3	66	22.0	22.0	8.0	8.0	30.6	30.5	98.5	98.4	7.2	7.2	3.5		6		-				-		-	
						6.6	0.3	70	22.0		8.0		30.5		98.3		7.2		3.5		6		-				-		-	
SR5A	Sunny	Moderate	11:52	3.8	Surface	1.0	0.2	91	22.1	22.2	8.0	8.0	29.3	29.3	98.8	98.9	7.3	7.3	2.3	2.1	4	5	-	-	816597	810709	-	-	-	-
						1.0	0.2	98	22.2		8.0		29.3		99.0		7.3		2.4		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.2	109	22.3	22.3	8.0	8.0	30.6	30.6	99.7	99.7	7.3	7.3	1.8		6		-				-		-	
						2.8	0.2	115	22.3		8.0		30.6		99.7		7.3		1.8		5		-				-		-	
SR6	Sunny	Moderate	12:17	4.1	Surface	1.0	0.0	133	21.7	21.7	8.0	8.0	28.7	28.7	97.2	97.2	7.2	7.2	3.4	5.3	3	4	-	-	817914	814678	-	-	-	-
						1.0	0.0	139	21.7		8.0		28.7		97.2		7.2		3.5		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	160	21.8	21.8	8.0	8.0	28.9	28.9	98.3	98.3	7.3	7.3	7.2		4		-				-		-	
						3.1	0.1	167	21.8		8.0		28.9		98.2		7.3		7.2		5		-				-		-	
SR7	Sunny	Moderate	12:47	16.4	Surface	1.0	0.6	69	22.4	22.4	8.4	8.4	30.3	30.3	95.7	95.7	7.0	7.0	2.4	1.7	<2	2	-	-	823648	823739	-	-	-	-
						1.0	0.6	75	22.4		8.4		30.3		95.7		7.0		2.4		<2		-				-		-	
					Middle	8.2	0.3	50	22.4	22.4	8.4	8.4	30.3	30.3	95.2	95.2	6.9		1.6		<2		-				-		-	
						8.2	0.3	51	22.4		8.4		30.3		95.1		6.9		1.5		2		-				-		-	
					Bottom	15.4	0.3	27	22.4	22.4	8.4	8.4	30.5	30.5	95.2	95.3	6.9	6.9	1.1		<2		-				-		-	
						15.4	0.3	29	22.4		8.4		30.5		95.3		6.9		1.1		<2		-				-		-	
SR8	Sunny	Moderate	11:34	5.2	Surface	1.0	-	-	22.3	22.3	8.5	8.5	27.2	27.2	99.2	99.2	7.4	7.4	4.3	4.3	4	5	-	-	820407	811625	-	-	-	-
						1.0	-	-	22.3		8.5		27.3		99.2		7.4		4.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	-	-	22.3	22.3	8.5	8.5	27.6	27.6	99.1	99.1	7.3	7.3	4.2		6		-				-		-	
						4.2	-	-	22.3		8.5		27.6		99.1		7.3		4.2		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 02 April 19 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	05:42	9.6	Surface	1.0	0.1	56	21.7	21.7	8.0	8.0	30.1	30.1	98.8	98.9	7.3	7.3	2.5	6.2	4	4	83	87	815628	804227	<0.2	<0.2	0.6	0.8
						1.0	0.1	59	21.7		8.0		30.1		98.9		7.3		2.6		3		83				<0.2		0.7	
					Middle	4.8	0.1	84	21.6	21.6	8.0	8.0	30.1	30.1	99.0	99.0	7.3		6.6		4		88				<0.2		1.0	
						4.8	0.1	87	21.6		8.0		30.1		99.0		7.3		6.6		4		88				<0.2		0.8	
					Bottom	8.6	0.2	81	21.6	21.6	8.0	8.0	30.1	30.1	98.8	98.8	7.3	7.3	9.3		4		91				<0.2		0.8	
						8.6	0.2	86	21.6		8.0		30.1		98.8		7.3		9.4		5		91				<0.2		0.8	
C2	Cloudy	Moderate	06:48	11.8	Surface	1.0	0.1	96	22.3	22.3	8.4	8.4	24.2	24.2	96.4	96.4	7.3	7.3	1.6	2.3	2	3	85	88	825678	806925	<0.2	<0.2	0.9	1.8
						1.0	0.1	96	22.3		8.4		24.2		96.4		7.3		1.6		<2		85				<0.2		1.1	
					Middle	5.9	0.1	215	22.3	22.4	8.4	8.4	24.2	24.2	96.6	96.7	7.3		2.0		2		89				<0.2		2.1	
						5.9	0.1	236	22.4		8.4		24.2		96.8		7.3		2.1		3		88				<0.2		2.2	
					Bottom	10.8	0.1	217	23.0	23.0	8.4	8.4	25.8	25.8	99.3	99.3	7.4	7.4	3.1		3		90				<0.2		2.1	
						10.8	0.1	225	23.0		8.4		25.8		99.3		7.4		3.2		3		90				<0.2		2.1	
C3	Cloudy	Moderate	05:15	12.3	Surface	1.0	0.3	248	21.9	21.9	8.4	8.4	30.1	30.1	95.3	95.2	7.0	7.0	3.8	5.1	<2	3	86	88	822123	817821	<0.2	<0.2	0.8	0.8
						1.0	0.4	252	21.9		8.4		30.1		95.1		7.0		4.0		<2		87				<0.2		0.7	
					Middle	6.2	0.2	249	22.0	22.0	8.4	8.4	30.4	30.4	94.5	94.5	6.9		9.8		3		89				<0.2		0.8	
						6.2	0.2	270	22.0		8.4		30.4		94.5		6.9		9.8		3		88				<0.2		0.8	
					Bottom	11.3	0.2	254	22.0	22.0	8.4	8.4	30.7	30.7	95.2	95.2	7.0	7.0	1.6		3		90				<0.2		0.7	
						11.3	0.2	278	22.0		8.4		30.7		95.2		7.0		1.6		4		90				<0.2		0.8	
IM1	Fine	Moderate	05:52	5.2	Surface	1.0	0.0	115	21.6	21.6	8.0	8.0	30.4	30.4	98.5	98.5	7.3	7.3	2.6	2.6	3	3	83	87	817951	807144	<0.2	<0.2	1.0	1.0
						1.0	0.0	123	21.6		8.0		30.4		98.5		7.3		2.6		3		84				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	90	21.7	21.7	8.0	8.0	30.4	30.4	98.7	98.7	7.3	7.3	2.6		4		91				<0.2		1.0	
						4.2	0.1	90	21.7		8.0		30.4		98.7		7.3		2.5		2		91				<0.2		0.9	
IM2	Fine	Moderate	05:57	8.6	Surface	1.0	0.2	341	21.7	21.7	8.0	8.0	30.7	30.7	99.3	99.3	7.3	7.3	2.5	2.5	3	5	83	88	818163	806179	<0.2	<0.2	1.0	1.0
						1.0	0.2	357	21.7		8.0		30.7		99.3		7.3		2.5		4		84				<0.2		1.0	
					Middle	4.3	0.2	22	21.7	21.7	8.0	8.0	30.7	30.7	99.3	99.3	7.3		2.6		6		88				<0.2		1.0	
						4.3	0.2	23	21.7		8.0		30.7		99.3		7.3		2.7		5		88				<0.2		1.0	
					Bottom	7.6	0.2	45	21.7	21.7	8.0	8.0	30.7	30.7	99.2	99.2	7.3	7.3	2.3		6		91				<0.2		1.0	
						7.6	0.2	45	21.7		8.0		30.7		99.2		7.3		2.3		6		91				<0.2		1.0	
IM3	Fine	Moderate	06:02	8.2	Surface	1.0	0.2	350	21.7	21.7	8.1	8.1	30.9	30.9	99.7	99.7	7.3	7.3	2.8	3.5	3	5	83	87	818760	805575	<0.2	<0.2	1.0	1.0
						1.0	0.2	322	21.7		8.1		30.9		99.7		7.3		2.7		3		83				<0.2		1.0	
					Middle	4.1	0.1	4	21.7	21.7	8.0	8.0	31.0	31.0	99.7	99.7	7.3		2.2		5		87				<0.2		1.0	
						4.1	0.1	4	21.7		8.0		31.0		99.7		7.3		2.3		6		87				<0.2		1.0	
					Bottom	7.2	0.2	17	21.7	21.7	8.0	8.0	30.9	30.9	99.9	99.9	7.3	7.3	5.7		6		91				<0.2		1.1	
						7.2	0.2	18	21.7		8.0		30.9		99.9		7.3		5.7		7		92				<0.2		1.0	
IM4	Fine	Moderate	06:09	8.4	Surface	1.0	0.2	324	21.8	21.8	8.1	8.1	31.1	31.1	99.2	99.2	7.3	7.3	10.4	8.4	3	4	83	88	819701	804608	<0.2	<0.2	1.1	1.0
						1.0	0.3	327	21.8		8.1		31.1		99.2		7.3		10.5		3		83				<0.2		0.9	
					Middle	4.2	0.2	338	21.8	21.8	8.0	8.0	31.2	31.2	99.2	99.2	7.3		7.1		3		88				<0.2		1.0	
						4.2	0.2	311	21.8		8.0		31.2		99.2		7.3		7.2		4		88				<0.2		1.0	
					Bottom	7.4	0.2	354	21.8	21.8	8.0	8.0	31.1	31.1	99.5	99.6	7.3	7.3	7.6		4		91				<0.2		1.0	
						7.4	0.2	326	21.8		8.0		31.1		99.6		7.3		7.7		4		92				<0.2		1.0	
IM5	Fine	Moderate	06:17	7.6	Surface	1.0	0.3	325	21.7	21.7	8.1	8.0	30.8	30.8	99.2	99.2	7.3	7.3	6.5	6.0	3	4	83	89	820736	804845	<0.2	<0.2	1.0	0.9
						1.0	0.3	343	21.7		8.0		30.8		99.2		7.3		6.4		3		87				<0.2		0.9	
					Middle	3.8	0.3	344	21.6	21.6	8.0	8.0	30.9	30.9	99.4	99.3	7.3		5.2		4		88				<0.2		0.8	
						3.8	0.3	348	21.5		8.0		30.9		99.2		7.3		5.3		4		91				<0.2		0.9	
					Bottom	6.6	0.2	1	21.7	21.8	8.0	8.0	30.9	30.8	98.4	98.4	7.2	7.2	6.4		4		91				<0.2		0.8	
						6.6	0.2	1	21.9		8.0		30.8		98.4		7.2		6.5		4		92				<0.2		0.8	
IM6	Fine	Moderate	06:24	7.9	Surface	1.0	0.2	293	21.5	21.5	8.0	8.0	25.8	25.8	97.4	97.5	7.4	7.4	2.1	7.9	<2	2	83	88	821074	805814	<0.2	<0.2	0.9	0.9
						1.0	0.2	312	21.5		8.0		25.8		97.5		7.4		2.1		<2		83				<0.2		0.9	
					Middle	4.0	0.1	327	21.5	21.5	8.0	8.0	25.8	25.8	97.8	97.8	7.4		4.0		<2		88				<0.2		0.9	
						4.0	0.1	355	21.5		8.0		25.8		97.8		7.4		4.0		2		88				<0.2		0.9	
					Bottom	6.9	0.1	62	21.4	21.5	8.0	8.0	27.0	27.0	98.4	98.5	7.4	7.4	17.7		3		91				<0.2		1.1	
						6.9	0.1	66	21.5		8.0		27.0		98.5		7.4		17.7		3		92				<0.2		0.8	
IM7	Fine	Moderate	06:29	8.1	Surface	1.0	0.2	244	21.5	21.5	8.0	8.0	25.7	25.7	97.4	97.4	7.4	7.4	3.2	8.5	2	2	83	88	821365	806816	<0.2	<0.2	0.9	0.8
						1.0	0.2	248	21.5		8.0		25.7		97.3		7.4		3.2		<2		84				<0.2		0.8	
					Middle	4.1	0.2	40	21.5	21.5	8.0	8.0	26.8	26.8	97.0	97.0	7.3		9.5		<2		88				<0.2		0.8	
						4.1	0.2	40	21.5		8.0		26.8		97.0		7.3		9.5		2		88				<0.2		0.8	
					Bottom	7.1	0.2	69	21.5	21.5	8.0	8.0	25.7	25.7	97.2	97.3	7.4	7.4	12.6		3		91				<0.2		0.8	
						7.1	0.3	71	21.5		8.0		25.7		97.4		7.4		12.7		3		92				<0.2		0.9	
IM8	Cloudy	Moderate	06:21	7.8	Surface	1.0	0.1	1	22.1	22.1	8.4	8.4	25.4	25.4	96.6	96.6	7.3	7.3	3.9	4.4	<2	4	85	87	821843	808119	<0.2	<0.2	1.4	1.4
						1.0	0.1	1	22.0		8.4		25.4		96.5		7.3		3.7		2		84				<0.2		1.4	
					Middle	3.9	0.1	82	22.0	22.0	8.4	8.4	25.7	25.7	96.6	96.8	7.3		3.8		4		88				<0.2		1.4	
						3.9	0.2	82	22.0		8.4		25.7		96.9		7.3		3.8		3		87				<0.2		1.5	
					Bottom	6.8	0.1	63	22.0	22.0	8.4	8.4	25.8	25.9	96.1	96.1	7.2	7.2	5.8		4		90				<0.2		1.4	
						6.8	0.2	68	22.0		8.4		25.9		96.1		7.2		5.5		6		90				<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 02 April 19 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	06:15	7.3	Surface	1.0	0.0	50	22.0	22.0	8.4	8.4	25.8	25.8	96.2	96.2	7.2	7.2	5.1	8.4	4	7	86	88	822103	808821	<0.2	<0.2	1.2	1.2
						1.0	0.0	50	22.0		8.4		25.8		96.2		7.2		5.1		4		85				<0.2		1.3	
					Middle	3.7	0.1	59	22.0	22.0	8.4	8.4	26.4	26.4	96.3	96.3	7.2		7.7		6		88				<0.2		1.2	
						3.7	0.1	60	22.0		8.4		26.4		96.3		7.2		7.7		6		89				<0.2		1.2	
					Bottom	6.3	0.1	354	21.9	21.9	8.4	8.4	26.7	26.7	96.6	96.6	7.2	7.2	12.6		10		90				<0.2		1.1	
						6.3	0.1	354	21.9		8.4		26.7		96.6		7.2		12.5		10		89				<0.2		1.2	
IM10	Cloudy	Moderate	06:07	7.4	Surface	1.0	0.2	336	21.8	21.8	8.4	8.4	26.3	26.3	96.8	96.8	7.3	7.3	5.1	6.4	2	4	85	87	822371	809781	<0.2	<0.2	1.0	1.0
						1.0	0.2	342	21.8		8.4		26.3		96.7		7.3		5.3		3		85				<0.2		1.0	
					Middle	3.7	0.2	297	21.9	21.9	8.4	8.4	27.0	27.0	96.0	96.0	7.2		9.7		4		88				<0.2		0.9	
						3.7	0.2	299	21.9		8.4		27.0		95.9		7.2		9.7		5		87				<0.2		1.0	
					Bottom	6.4	0.3	284	21.9	21.9	8.4	8.4	27.9	27.9	95.8	95.8	7.1	7.1	4.4		5		89				<0.2		1.0	
						6.4	0.3	298	21.9		8.4		27.9		95.8		7.1		4.5		5		90				<0.2		1.1	
IM11	Cloudy	Moderate	05:57	7.6	Surface	1.0	0.4	287	21.9	21.9	8.4	8.4	28.4	28.3	95.2	95.2	7.1	7.1	5.1	4.9	3	4	86	88	822047	811480	<0.2	<0.2	1.1	1.0
						1.0	0.4	301	21.9		8.4		28.3		95.1		7.1		5.8		3		85				<0.2		1.0	
					Middle	3.8	0.3	290	21.9	21.9	8.4	8.4	28.4	28.4	94.7	94.7	7.0		5.4		4		88				<0.2		1.0	
						3.8	0.3	309	21.9		8.4		28.4		94.7		7.0		5.3		3		89				<0.2		0.9	
					Bottom	6.6	0.0	139	21.9	21.9	8.4	8.4	28.6	28.6	94.7	94.8	7.0	7.0	3.7		4		90				<0.2		1.0	
						6.6	0.0	152	21.9		8.4		28.6		94.8		7.0		3.8		4		89				<0.2		0.9	
IM12	Cloudy	Moderate	05:49	8.2	Surface	1.0	0.2	296	21.8	21.8	8.4	8.4	28.0	28.0	96.3	96.3	7.2	7.3	7.4	6.9	3	4	85	88	821467	812027	<0.2	<0.2	0.7	0.8
						1.0	0.2	318	21.8		8.4		28.0		96.2		7.2		7.5		3		85				<0.2		0.7	
					Middle	4.1	0.3	271	21.8	21.8	8.4	8.4	28.2	28.2	97.5	97.5	7.3		9.8		4		89				<0.2		0.8	
						4.1	0.3	274	21.7		8.4		28.2		97.5		7.3		9.6		4		87				<0.2		0.8	
					Bottom	7.2	0.2	263	21.9	21.9	8.4	8.4	28.4	28.4	94.9	94.9	7.1	7.1	3.3		5		90				<0.2		0.9	
						7.2	0.2	268	21.9		8.4		28.4		94.9		7.1		3.5		5		90				<0.2		0.8	
SR1A	Cloudy	Moderate	05:37	4.6	Surface	1.0	-	-	21.9	21.9	8.4	8.4	29.0	29.0	94.0	94.0	7.0	7.0	4.0	4.6	<2	3	-	-	819974	812654	-	-	-	-
						1.0	-	-	21.9		8.4		29.0		93.9		7.0		4.2		3		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	21.9	21.9	8.4	8.4	29.1	29.1	94.0	94.0	7.0	7.0	5.1		3		-				-		-	
						3.6	-	-	21.9		8.4		29.1		94.0		7.0		5.2		3		-				-		-	
SR2	Cloudy	Moderate	05:37	4.8	Surface	1.0	0.2	316	21.9	21.9	8.4	8.4	29.0	29.0	94.0	94.0	7.0	7.0	4.1	5.3	4	3	85	87	821452	814162	<0.2	<0.2	0.9	0.8
						1.0	0.2	332	21.9		8.4		29.0		94.0		7.0		4.4		2		86				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.2	331	21.9	21.9	8.4	8.4	29.1	29.1	93.9	94.0	6.9	7.0	6.4		4		88				<0.2		0.8	
						3.8	0.2	342	21.9		8.4		29.1		94.1		7.0		6.4		3		89				<0.2		0.8	
SR3	Cloudy	Moderate	06:26	8.6	Surface	1.0	0.0	73	22.2	22.2	8.4	8.4	26.5	26.5	95.9	95.8	7.2	7.2	4.6	5.3	3	3	-	-	822129	807589	-	-	-	-
						1.0	0.0	78	22.1		8.4		26.5		95.7		7.2		4.6		2		-				-		-	
					Middle	4.3	0.1	113	22.0	22.0	8.4	8.4	25.4	25.4	95.5	95.6	7.2		8.5		3		-				-		-	
						4.3	0.1	116	22.0		8.4		25.5		95.6		7.2		8.3		4		-				-		-	
					Bottom	7.6	0.2	62	22.0	22.0	8.4	8.4	25.4	25.4	95.7	95.8	7.2	7.2	3.1		4		-				-		-	
						7.6	0.2	63	22.0		8.4		25.4		95.8		7.2		3.1		4		-				-		-	
SR4A	Fine	Moderate	05:17	9.9	Surface	1.0	0.3	199	21.5	21.5	8.0	8.0	30.0	30.0	97.4	97.4	7.2	7.2	2.5	3.0	3	5	-	-	817197	807832	-	-	-	-
						1.0	0.3	201	21.5		8.0		30.0		97.4		7.2		2.6		4		-				-		-	
					Middle	5.0	0.2	288	21.5	21.5	8.0	8.0	29.9	29.9	97.4	97.4	7.2		3.0		4		-				-		-	
						5.0	0.2	296	21.5		8.0		29.9		97.4		7.2		3.0		5		-				-		-	
					Bottom	8.9	0.3	284	21.5	21.5	8.0	8.0	29.9	29.9	97.6	97.6	7.2	7.2	3.3		7		-				-		-	
						8.9	0.3	289	21.5		8.0		29.9		97.6		7.2		3.3		8		-				-		-	
SR5A	Fine	Moderate	05:02	4.6	Surface	1.0	0.2	204	21.4	21.4	7.9	7.9	29.2	29.1	95.7	95.8	7.1	7.1	6.9	8.6	3	4	-	-	816607	810710	-	-	-	-
						1.0	0.2	210	21.4		7.9		29.1		95.8		7.1		6.9		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	207	21.5	21.5	7.9	7.9	29.2	29.2	96.2	96.2	7.2	7.2	10.2		4		-				-		-	
						3.6	0.2	216	21.5		7.9		29.2		96.2		7.2		10.3		4		-				-		-	
SR6	Fine	Moderate	04:40	4.8	Surface	1.0	0.1	228	21.3	21.3	7.8	7.8	28.4	28.4	95.4	95.5	7.2	7.2	1.5	1.3	3	4	-	-	817875	814661	-	-	-	-
						1.0	0.1	229	21.3		7.8		28.4		95.5		7.2		1.5		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	233	21.3	21.3	7.8	7.8	28.2	28.2	95.8	95.9	7.2	7.2	1.2		4		-				-		-	
						3.8	0.1	245	21.3		7.8		28.2		95.9		7.2		1.2		4		-				-		-	
SR7	Cloudy	Moderate	04:46	16.8	Surface	1.0	0.1	233	21.8	21.8	8.4	8.4	29.1	29.0	91.6	91.6	6.8	6.8	1.7	1.4	<2	2	-	-	823634	823763	-	-	-	-
						1.0	0.1	247	21.8		8.4		29.0		91.6		6.8		1.7		2		-				-		-	
					Middle	8.4	0.1	284	21.9	21.9	8.4	8.4	30.6	30.6	91.6	91.7	6.7		1.3		2		-				-		-	
						8.4	0.1	285	21.9		8.4		30.6		91.7		6.7		1.3		3		-				-		-	
					Bottom	15.8	0.1	230	21.9	21.9	8.4	8.4	30.6	30.6	91.7	91.7	6.7	6.7	1.2		<2		-				-		-	
						15.8	0.1	241	21.9		8.4		30.6		91.7		6.7		1.2		3		-				-		-	
SR8	Cloudy	Moderate	05:38	4.7	Surface	1.0	-	-	21.9	21.9	8.4	8.4	29.0	29.0	94.4	94.4	7.0	7.0	3.8	3.6	2	3	-	-	820413	811636	-	-	-	-
						1.0	-	-	21.9		8.4		29.0		94.4		7.0		3.8		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	21.9	21.9	8.4	8.4	29.0	29.0	94.2	94.2	7.0	7.0	3.2		3		-				-		-	
						3.7	-	-	21.9		8.4		29.0		94.1		7.0		3.4		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 April 19 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	12:13	8.6	Surface	1.0	0.2	230	22.9	22.9	8.2	8.2	28.5	28.5	95.5	95.5	7.0	7.0	3.6	4.1	4	6	84	87	815608	804246	<0.2	<0.2	1.1	1.1
						1.0	0.2	237	22.9		8.2		28.5		95.4		7.0		3.7		5		85				<0.2		1.1	
					Middle	4.3	0.2	207	23.3	23.4	8.2	8.2	28.0	28.0	95.9	96.0	7.0		4.0		5		88				<0.2		1.1	
						4.3	0.2	222	23.4		8.2		27.9		96.0		7.0		4.0		6		87				<0.2		1.1	
					Bottom	7.6	0.1	220	23.6	23.6	8.2	8.2	28.9	28.9	96.5	96.5	6.9	6.9	4.6		7		90				<0.2		1.2	
						7.6	0.1	231	23.6		8.2		28.9		96.5		6.9		4.6		7		89				<0.2		1.1	
C2	Cloudy	Moderate	11:14	11.4	Surface	1.0	0.2	105	22.9	22.9	8.2	8.2	23.5	23.5	95.7	95.8	7.2	7.2	4.4	4.8	6	6	84	88	825701	806934	<0.2	<0.2	2.2	2.1
						1.0	0.2	110	22.9		8.2		23.5		95.8		7.2		4.6		7		84				<0.2		2.2	
					Middle	5.7	0.2	131	22.8	22.8	8.2	8.2	23.6	23.6	96.2	96.2	7.2		5.3		6		88				<0.2		2.1	
						5.7	0.2	142	22.8		8.2		23.6		96.2		7.2		5.2		6		88				<0.2		2.1	
					Bottom	10.4	0.3	147	22.7	22.7	8.2	8.2	24.1	24.1	96.2	96.2	7.2	7.2	4.7		6		92				<0.2		2.1	
						10.4	0.3	147	22.7		8.2		24.1		96.2		7.2		4.7		6		92				<0.2		2.1	
C3	Cloudy	Moderate	13:02	11.0	Surface	1.0	0.5	63	22.7	22.7	8.2	8.2	28.5	28.5	98.1	98.1	7.2	7.2	2.4	3.4	6	6	85	89	822096	817793	<0.2	<0.2	1.4	1.2
						1.0	0.6	67	22.7		8.2		28.5		98.0		7.2		2.5		6		85				<0.2		1.1	
					Middle	5.5	0.4	82	22.7	22.7	8.2	8.2	28.5	28.5	97.5	97.3	7.1		3.1		6		88				<0.2		1.1	
						5.5	0.4	82	22.7		8.2		28.5		97.1		7.1		3.1		6		89				<0.2		1.2	
					Bottom	10.0	0.3	104	22.5	22.5	8.2	8.2	29.3	29.3	96.7	96.9	7.1	7.1	4.8		6		92				<0.2		1.2	
						10.0	0.4	109	22.5		8.2		29.3		97.0		7.1		4.8		7		93				<0.2		1.1	
IM1	Cloudy	Moderate	12:03	5.2	Surface	1.0	0.1	116	22.8	22.8	8.2	8.2	29.3	29.3	95.0	95.0	6.9	6.9	5.5	7.8	4	4	84	87	817964	807130	<0.2	<0.2	1.2	1.2
						1.0	0.1	123	22.8		8.2		29.3		95.0		6.9		5.4		4		85				<0.2		1.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	180	22.8	22.8	8.2	8.2	29.3	29.3	95.3	95.3	6.9	6.9	10.1		4		90				<0.2		1.1	
						4.2	0.1	170	22.8		8.2		29.3		95.3		6.9		10.1		4		89				<0.2		1.4	
IM2	Cloudy	Moderate	11:57	7.5	Surface	1.0	0.1	120	22.8	22.8	8.2	8.2	28.0	28.0	95.7	95.7	7.0	7.0	2.9	5.8	4	4	84	88	818168	806154	<0.2	<0.2	1.5	1.5
						1.0	0.1	122	22.8		8.2		28.0		95.7		7.0		3.0		3		84				<0.2		1.5	
					Middle	3.8	0.0	170	22.7	22.7	8.2	8.2	28.2	28.2	95.0	95.0	7.0		6.3		3		89				<0.2		1.6	
						3.8	0.0	180	22.7		8.2		28.2		94.9		7.0		6.8		4		88				<0.2		1.5	
					Bottom	6.5	0.2	130	22.6	22.6	8.2	8.2	29.5	29.5	94.8	94.8	6.9	6.9	7.8		6		90				<0.2		1.4	
						6.5	0.2	140	22.6		8.2		29.5		94.8		6.9		7.8		5		90				<0.2		1.5	
IM3	Cloudy	Moderate	11:50	7.6	Surface	1.0	0.1	151	22.7	22.7	8.2	8.2	27.8	27.8	96.0	96.0	7.1	7.1	8.8	8.4	6	5	84	87	818778	805596	<0.2	<0.2	1.4	1.4
						1.0	0.1	142	22.7		8.2		27.8		96.0		7.1		8.8		6		84				<0.2		1.5	
					Middle	3.8	0.0	157	22.7	22.7	8.2	8.2	27.8	27.8	95.9	95.9	7.1		12.4		5		87				<0.2		1.4	
						3.8	0.0	160	22.7		8.2		27.8		95.9		7.1		12.4		6		89				<0.2		1.4	
					Bottom	6.6	0.1	180	22.7	22.7	8.2	8.2	28.2	28.2	95.8	95.8	7.0	7.0	4.0		4		90				<0.2		1.4	
						6.6	0.1	182	22.7		8.2		28.2		95.8		7.0		4.2		5		89				<0.2		1.5	
IM4	Cloudy	Moderate	11:40	7.4	Surface	1.0	0.2	111	22.7	22.7	8.2	8.2	28.2	28.2	95.8	95.8	7.0	7.0	5.2	5.4	5	6	84	87	819744	804617	<0.2	<0.2	1.5	1.5
						1.0	0.2	116	22.7		8.2		28.2		95.8		7.0		5.1		5		85				<0.2		1.5	
					Middle	3.7	0.2	152	22.7	22.7	8.2	8.2	28.2	28.2	95.7	95.7	7.0		5.7		5		88				<0.2		1.5	
						3.7	0.2	144	22.7		8.2		28.2		95.7		7.0		5.7		5		87				<0.2		1.4	
					Bottom	6.4	0.1	137	22.7	22.8	8.2	8.2	28.4	28.3	95.8	95.9	7.0	7.0	5.2		7		89				<0.2		1.5	
						6.4	0.1	138	22.8		8.2		28.3		95.9		7.0		5.2		6		90				<0.2		1.4	
IM5	Cloudy	Moderate	11:30	7.3	Surface	1.0	0.3	137	22.7	22.7	8.2	8.2	29.0	29.0	95.5	95.5	7.0	7.0	8.3	6.0	6	7	85	88	820733	804862	<0.2	<0.2	1.7	1.7
						1.0	0.3	147	22.7		8.2		29.0		95.5		7.0		8.3		7		84				<0.2		1.6	
					Middle	3.7	0.3	159	22.7	22.7	8.2	8.2	29.1	29.1	95.2	95.2	7.0		4.7		6		88				<0.2		1.6	
						3.7	0.3	155	22.7		8.2		29.1		95.2		7.0		4.4		5		88				<0.2		1.7	
					Bottom	6.3	0.2	121	22.7	22.7	8.2	8.2	29.2	29.2	95.4	95.5	7.0	7.0	4.9		7		90				<0.2		1.8	
						6.3	0.2	121	22.7		8.2		29.2		95.5		7.0		5.1		8		90				<0.2		1.7	
IM6	Cloudy	Moderate	11:23	7.5	Surface	1.0	0.2	203	22.6	22.6	8.2	8.2	25.7	25.7	94.2	94.2	7.0	7.0	8.7	7.8	8	9	84	88	821054	805836	<0.2	<0.2	1.6	1.7
						1.0	0.2	200	22.6		8.2		25.7		94.1		7.0		8.7		9		84				<0.2		1.6	
					Middle	3.8	0.1	233	22.7	22.7	8.2	8.2	25.7	25.7	93.9	93.9	7.0		6.6		9		89				<0.2		1.7	
						3.8	0.1	235	22.7		8.2		25.7		93.9		7.0		6.6		9		88				<0.2		1.7	
					Bottom	6.5	0.1	247	22.7	22.7	8.2	8.2	25.9	25.9	94.1	94.2	7.0	7.0	8.0		9		90				<0.2		1.7	
						6.5	0.1	248	22.7		8.2		25.9		94.2		7.0		8.0		9		90				<0.2		1.7	
IM7	Cloudy	Moderate	11:12	7.9	Surface	1.0	0.0	270	22.7	22.7	8.2	8.2	25.6	25.6	94.0	94.0	7.0	7.0	4.1	4.2	5	7	83	87	821369	806856	<0.2	<0.2	1.7	1.6
						1.0	0.0	286	22.7		8.2		25.7		94.0		7.0		4.1		5		84				<0.2		1.6	
					Middle	4.0	0.3	190	22.7	22.7	8.2	8.2	25.7	25.7	94.0	94.1	7.0		4.2		7		89				<0.2		1.6	
						4.0	0.3	198	22.7		8.2		25.7		94.1		7.0		4.2		7		88				<0.2		1.6	
					Bottom	6.9	0.3	201	22.7	22.7	8.2	8.2	25.7	25.7	94.2	94.2	7.0	7.0	4.2		8		90				<0.2		1.6	
						6.9	0.3	206	22.7		8.2		25.7		94.2		7.0		4.5		8		89				<0.2		1.7	
IM8	Cloudy	Moderate	11:41	8.2	Surface	1.0	0.1	157	22.7	22.7	8.2	8.2	25.4	25.4	95.9	96.0	7.2	7.2	3.9	4.8	6	5	85	89	821828	808160	<0.2	<0.2	1.8	1.8
						1.0	0.1	161	22.7		8.2		25.4		96.0		7.2		3.9		6		85				<0.2		1.8	
					Middle	4.1	0.2	116	22.7	22.7	8.2	8.2	25.4	25.4	95.9	95.9	7.2		3.4		6		89				<0.2		1.9	
						4.1	0.2	117	22.7		8.2		25.4		95.8		7.1		3.4		5		89				<0.2		1.7	
					Bottom	7.2	0.2	75	22.8	22.9	8.2	8.2	26.1	26.0	95.5	95.5	7.1	7.1	7.5		4		92				<0.2		1.7	
						7.2	0.2	82	23.0		8.2		26.0		95.5		7.0		6.8		5		93				<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 04 April 19 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	11:48	7.5	Surface	1.0	0.4	101	22.7	22.7	8.2	8.2	25.4	25.4	96.6	96.6	7.2	7.2	4.1	4.3	6	6	85	89	822105	808790	<0.2	<0.2	1.8	1.9
						1.0	0.4	102	22.7		8.2		25.4		96.6		7.2		4.1		6		85				<0.2		1.8	
					Middle	3.8	0.4	103	22.7	22.7	8.2	8.2	25.2	25.2	96.7	96.7	7.2		3.2		5	6	88				<0.2		1.9		
						3.8	0.4	106	22.7		8.2		25.2		96.6		7.2		3.6		4		89				<0.2		1.8		
					Bottom	6.5	0.4	56	22.7	22.7	8.2	8.2	26.4	26.4	96.4	96.5	7.2	7.2	5.3		6		92				<0.2		1.9		
						6.5	0.4	57	22.7		8.2		26.4		96.6		7.2		5.3		7		92				<0.2		1.9		
IM10	Cloudy	Moderate	11:56	7.3	Surface	1.0	0.4	101	22.7	22.7	8.2	8.2	27.5	27.5	97.3	97.4	7.2	7.3	8.2	5.3	6	8	85	89	822396	809778	<0.2	<0.2	1.9	1.7
						1.0	0.4	102	22.7		8.2		27.5		97.5		7.2		7.7		7		84				<0.2		1.7		
					Middle	3.7	0.5	96	22.8	22.8	8.2	8.2	25.6	25.6	97.9	97.9	7.3		4.1		9		89				<0.2		1.8		
						3.7	0.5	104	22.8		8.2		25.6		97.8		7.3		4.0		8		89				<0.2		1.8		
					Bottom	6.3	0.3	93	22.8	22.9	8.2	8.2	25.5	25.5	97.2	97.3	7.2	7.2	4.2		8		93				<0.2		1.4		
						6.3	0.4	96	22.9		8.2		25.5		97.4		7.2		3.9		10		92				<0.2		1.3		
IM11	Cloudy	Moderate	12:05	8.9	Surface	1.0	0.4	112	22.8	22.8	8.2	8.2	26.7	26.7	97.4	97.3	7.2	7.2	5.3	4.1	6	5	85	89	822068	811437	<0.2	<0.2	1.6	1.6
						1.0	0.4	116	22.8		8.2		26.7		97.2		7.2		5.0		5		85				<0.2		1.6		
					Middle	4.5	0.2	127	22.8	22.8	8.2	8.2	26.2	26.2	97.1	97.2	7.2		3.6		4		88				<0.2		1.6		
						4.5	0.2	133	22.8		8.2		26.2		97.2		7.2		3.7		4		89				<0.2		1.7		
					Bottom	7.9	0.0	115	22.8	22.8	8.2	8.2	26.6	26.6	97.4	97.4	7.2	7.2	3.6		5		93				<0.2		1.6		
						7.9	0.0	124	22.8		8.2		26.6		97.4		7.2		3.6		4		93				<0.2		1.6		
IM12	Cloudy	Moderate	12:14	8.7	Surface	1.0	0.5	109	23.0	23.0	8.2	8.2	27.8	27.8	98.6	98.5	7.2	7.2	3.3	3.7	4	4	84	88	821478	812058	<0.2	<0.2	1.4	1.4
						1.0	0.5	110	23.0		8.2		27.8		98.4		7.2		3.3		4		85				<0.2		1.4		
					Middle	4.4	0.4	117	22.8	22.8	8.2	8.2	27.5	27.5	97.8	97.9	7.2		4.3		4		87				<0.2		1.3		
						4.4	0.4	117	22.8		8.2		27.5		98.0		7.2		4.3		4		88				<0.2		1.3		
					Bottom	7.7	0.3	128	22.9	22.9	8.2	8.2	27.4	27.4	98.4	98.5	7.2	7.2	3.4		3		92				<0.2		1.3		
						7.7	0.3	129	22.9		8.2		27.5		98.5		7.2		3.4		4		92				<0.2		1.5		
SR1A	Cloudy	Moderate	12:31	5.6	Surface	1.0	-	-	22.8	22.8	8.2	8.2	27.9	27.9	96.5	96.6	7.1	7.1	4.3	4.2	6	7	-	-	819973	812659	-	-	-	-
						1.0	-	-	22.8		8.2		27.9		96.7		7.1		4.4		6		-				-		-	
					Middle	2.8	-	-	-	-		-	-	-	-	-	-		-		-		-					-		-	
						2.8	-	-	-				-		-		-		-		-		-					-		-	
					Bottom	4.6	-	-	22.9	22.9	8.2	8.2	27.9	27.9	97.5	97.6	7.1	7.1	3.9		7		-				-		-	
						4.6	-	-	22.9		8.2		27.9		97.6		7.1		4.0		8		-				-		-	
SR2	Cloudy	Moderate	12:42	4.8	Surface	1.0	0.6	95	22.8	22.8	8.3	8.3	27.6	27.6	98.1	98.2	7.2	7.2	3.7	3.6	4	5	84	86	821444	814184	<0.2	<0.2	1.4	1.4
						1.0	0.6	96	22.8		8.3		27.6		98.2		7.2		3.7		5		85				<0.2		1.4		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-		-	
						-	-	-	-		-		-		-		-		-		-		-					-		-	
					Bottom	3.8	0.3	133	22.9	22.9	8.3	8.2	27.6	27.6	98.6	98.6	7.2	7.2	3.5		6		88				<0.2		1.4		
						3.8	0.3	143	22.9		8.2		27.6		98.6		7.2		3.6		5		88				<0.2		1.4		
SR3	Cloudy	Moderate	11:34	9.4	Surface	1.0	0.1	185	22.8	22.8	8.2	8.2	24.9	24.9	96.0	96.0	7.2	7.2	4.4	4.0	4	5	-	-	822126	807556	-	-	-	-
						1.0	0.2	199	22.7		8.2		24.9		96.0		7.2		4.4		5		-				-		-	
					Middle	4.7	0.2	165	22.7	22.7	8.2	8.2	25.3	25.3	96.0	96.1	7.2		3.5		5		-				-		-	
						4.7	0.2	175	22.7		8.2		25.3		96.1		7.2		3.5		4		-				-		-	
					Bottom	8.4	0.2	83	22.8	22.8	8.2	8.2	25.3	25.3	96.0	96.1	7.2	7.2	4.1		7		-				-		-	
						8.4	0.2	85	22.8		8.2		25.3		96.1		7.2		4.1		7		-				-		-	
SR4A	Cloudy	Moderate	12:27	8.7	Surface	1.0	0.3	64	22.9	22.9	8.2	8.2	29.2	29.2	95.8	95.8	7.0	7.0	8.5	10.2	7	8	-	-	817185	807812	-	-	-	-
						1.0	0.3	64	22.9		8.2		29.2		95.7		7.0		8.2		8		-				-		-	
					Middle	4.4	0.3	61	23.0	23.0	8.3	8.3	28.9	28.9	95.6	95.7	7.0		9.4		8		-				-		-	
						4.4	0.4	61	23.0		8.3		28.9		95.7		7.0		9.4		9		-				-		-	
					Bottom	7.7	0.3	60	23.1	23.1	8.3	8.3	29.1	29.1	95.7	95.7	6.9	6.9	12.8		7		-				-		-	
						7.7	0.3	65	23.1		8.3		29.1		95.7		6.9		12.8		6		-				-		-	
SR5A	Cloudy	Moderate	12:42	4.2	Surface	1.0	0.1	152	23.7	23.7	8.2	8.2	28.4	28.3	97.6	97.8	7.0	7.0	7.1	7.4	9	9	-	-	816592	810685	-	-	-	-
						1.0	0.1	164	23.7		8.2		28.3		97.9		7.0		7.4		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-		-	
						-	-	-	-		-		-		-		-		-		-		-					-		-	
					Bottom	3.2	0.2	118	23.8	23.8	8.3	8.3	29.1	29.1	98.2	98.2	7.0	7.0	7.6		8		-				-		-	
						3.2	0.2	125	23.8		8.3		29.1		98.2		7.0		7.7		9		-				-		-	
SR6	Cloudy	Moderate	13:11	4.3	Surface	1.0	0.3	165	22.9	22.9	8.2	8.2	28.4	28.4	95.4	95.5	7.0	7.0	4.8	5.0	6	7	-	-	817893	814664	-	-	-	-
						1.0	0.3	174	22.9		8.2		28.4		95.6		7.0		4.8		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-		-	
						-	-	-	-		-		-		-		-		-		-		-					-		-	
					Bottom	3.3	0.0	160	24.8	24.8	8.2	8.2	29.0	29.0	98.9	98.9	7.0	7.0	5.1		8		-				-		-	
						3.3	0.0	165	24.8		8.2		29.0		98.9		7.0		5.1		7		-				-		-	
SR7	Cloudy	Moderate	13:29	14.4	Surface	1.0	0.5	79	22.9	22.9	8.2	8.2	30.3	30.3	94.8	94.8	6.8	6.9	3.0	2.2	3	3	-	-	823628	823760	-	-	-	-
						1.0	0.5	86	22.9		8.2		30.3		94.8		6.8		3.0		4		-				-		-	
					Middle	7.2	0.2	59	22.8	22.8	8.2	8.2	30.4	30.4	94.9	95.0	6.9		2.0		3		-				-		-	
						7.2	0.3	62	22.8		8.2		30.4		95.0		6.9		2.0		3		-				-		-	
					Bottom	13.4	0.3	15	22.9	22.9	8.2	8.2	30.2	30.2	96.1	96.2	6.9	7.0	1.6		3		-				-		-	
						13.4	0.3	16	22.9		8.2		30.2		96.3		7.0		1.8		3		-				-		-	
SR8	Cloudy	Moderate	12:22	4.0	Surface	1.0	-	-	22.9	22.9	8.3	8.3	28.1	28.0	98.9	98.9	7.2	7.2	7.2	6.2	7	8	-	-	820401	811642	-	-	-	-
						1.0	-	-	22.9		8.3		28.0		98.8		7.2		7.0		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-		-	
						-	-	-	-		-		-		-		-		-		-		-					-		-	
					Bottom	3.0	-	-	23.0	23.0	8.3	8.3	28.0	28.0	98.9	98.9	7.2	7.2	5.5		7		-				-		-	
						3.0	-	-	23.0		8.3		28.0		98.9		7.2		5.4		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 04 April 19 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	07:04	8.2	Surface	1.0	0.2	29	22.6	22.6	8.2	8.2	27.9	27.9	94.5	94.5	7.0	7.0	7.7	8.6	6	5	84	88	815620	804232	<0.2	<0.2	1.5	1.5
						1.0	0.3	29	22.6		8.2		27.9		94.5		7.0		7.6		5		84				<0.2		1.4	
					Middle	4.1	0.2	20	22.6	22.6	8.2	8.2	28.0	28.0	94.5	94.5	6.9		8.5		5		89				<0.2		1.7	
						4.1	0.2	21	22.6		8.2		28.0		94.5		6.9		9.1		6		90				<0.2		1.4	
					Bottom	7.2	0.1	34	22.6	22.6	8.2	8.2	28.0	28.0	94.3	94.3	6.9	6.9	9.7		5		90				<0.2		1.5	
						7.2	0.1	36	22.6		8.2		28.0		94.3		6.9		9.2		5		90				<0.2		1.4	
C2	Cloudy	Moderate	08:13	11.2	Surface	1.0	0.3	78	22.6	22.6	8.2	8.2	23.3	23.3	95.8	95.9	7.2	7.3	3.1	7.2	6	8	88	92	825666	806952	<0.2	<0.2	2.1	2.2
						1.0	0.3	78	22.6		8.2		23.3		95.9		7.3		3.2		6		87				<0.2		2.0	
					Middle	5.6	0.3	57	22.6	22.6	8.2	8.2	23.5	23.5	96.3	96.3	7.3		3.0		7		91				<0.2		2.3	
						5.6	0.3	60	22.6		8.2		23.5		96.3		7.3		3.0		6		92				<0.2		2.1	
					Bottom	10.2	0.2	336	22.6	22.6	8.2	8.2	25.3	25.3	97.3	97.5	7.3	7.3	15.0		10		96				<0.2		2.2	
						10.2	0.2	339	22.6		8.2		25.3		97.6		7.3		16.1		10		95				<0.2		2.2	
C3	Cloudy	Moderate	06:08	10.5	Surface	1.0	0.3	271	22.4	22.4	8.2	8.2	29.2	29.2	94.6	94.6	6.9	6.9	2.8	3.9	5	6	86	90	822107	817808	<0.2	<0.2	1.4	1.4
						1.0	0.4	281	22.4		8.2		29.2		94.6		6.9		2.6		5		86				<0.2		1.9	
					Middle	5.3	0.3	249	22.4	22.4	8.2	8.2	29.1	29.1	94.3	94.2	6.9		2.0		5		90				<0.2		1.4	
						5.3	0.3	254	22.4		8.2		29.1		94.0		6.9		2.3		6		90				<0.2		1.6	
					Bottom	9.5	0.3	248	22.4	22.4	8.2	8.2	30.1	30.1	93.2	93.2	6.8	6.8	6.7		7		94				<0.2		1.0	
						9.5	0.3	265	22.4		8.2		30.1		93.2		6.8		6.9		6		94				<0.2		1.0	
IM1	Cloudy	Moderate	07:14	5.5	Surface	1.0	0.1	32	22.6	22.6	8.2	8.2	29.0	29.0	94.0	94.0	6.9	6.9	7.2	8.7	10	10	85	88	817938	807147	<0.2	<0.2	1.4	1.4
						1.0	0.1	34	22.6		8.2		29.0		94.0		6.9		7.3		10		86				<0.2		1.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.2	44	22.6	22.6	8.2	8.2	28.9	28.9	93.8	93.8	6.9	6.9	10.1		10		90				<0.2		1.4	
						4.5	0.2	47	22.6		8.2		28.9		93.8		6.9		10.0		10		89				<0.2		1.5	
IM2	Cloudy	Moderate	07:20	7.4	Surface	1.0	0.3	2	22.6	22.6	8.2	8.2	28.8	28.8	95.3	95.3	7.0	7.0	4.0	4.4	4	5	85	88	818147	806186	<0.2	<0.2	1.6	1.5
						1.0	0.3	2	22.6		8.2		28.8		95.3		7.0		4.0		4		85				<0.2		1.5	
					Middle	3.7	0.3	16	22.6	22.6	8.2	8.2	28.7	28.7	95.3	95.3	7.0		3.9		6		88				<0.2		1.5	
						3.7	0.3	16	22.6		8.2		28.7		95.2		7.0		3.9		5		89				<0.2		1.5	
					Bottom	6.4	0.2	11	22.6	22.6	8.2	8.2	28.9	28.9	94.6	94.6	6.9	6.9	5.4		6		89				<0.2		1.5	
						6.4	0.2	11	22.6		8.2		28.9		94.6		6.9		5.4		6		89				<0.2		1.4	
IM3	Cloudy	Moderate	07:26	7.6	Surface	1.0	0.3	12	22.6	22.6	8.2	8.2	28.0	28.0	95.0	95.0	7.0	7.0	5.4	8.7	6	4	85	88	818796	805588	<0.2	<0.2	1.3	1.4
						1.0	0.3	12	22.6		8.2		28.0		95.0		7.0		5.5		6		86				<0.2		1.4	
					Middle	3.8	0.2	4	22.6	22.6	8.2	8.2	28.0	28.0	94.9	94.7	7.0		11.1		4		88				<0.2		1.4	
						3.8	0.2	4	22.6		8.2		28.1		94.5		7.0		11.5		4		89				<0.2		1.4	
					Bottom	6.6	0.1	345	22.6	22.6	8.2	8.2	29.4	29.4	93.9	93.9	6.9	6.9	9.3		3		90				<0.2		1.4	
						6.6	0.1	317	22.6		8.2		29.4		93.9		6.9		9.3		3		89				<0.2		1.4	
IM4	Cloudy	Moderate	07:34	7.8	Surface	1.0	0.3	340	22.6	22.6	8.2	8.2	29.1	29.1	94.7	94.7	6.9	6.9	10.1	9.1	7	7	84	88	819704	804587	<0.2	<0.2	1.3	1.4
						1.0	0.3	351	22.6		8.2		29.1		94.7		6.9		10.5		7		85				<0.2		1.4	
					Middle	3.9	0.3	348	22.6	22.6	8.2	8.2	29.1	29.1	94.4	94.4	6.9		8.7		6		87				<0.2		1.3	
						3.9	0.3	359	22.6		8.2		29.1		94.4		6.9		8.5		7		89				<0.2		1.4	
					Bottom	6.8	0.2	359	22.6	22.6	8.2	8.2	29.3	29.3	94.4	94.5	6.9	6.9	8.4		6		90				<0.2		1.4	
						6.8	0.2	330	22.6		8.2		29.3		94.5		6.9		8.5		6		90				<0.2		1.4	
IM5	Cloudy	Moderate	07:41	7.4	Surface	1.0	0.4	354	22.6	22.6	8.2	8.2	29.0	29.0	95.0	95.0	6.9	6.9	7.4	9.0	5	6	84	88	820756	804863	<0.2	<0.2	1.4	1.4
						1.0	0.4	326	22.6		8.2		29.0		95.0		6.9		7.4		4		84				<0.2		1.4	
					Middle	3.7	0.4	358	22.6	22.6	8.2	8.2	29.0	29.0	94.8	94.8	6.9		8.5		6		89				<0.2		1.4	
						3.7	0.5	329	22.6		8.2		29.0		94.7		6.9		8.5		6		90				<0.2		1.4	
					Bottom	6.4	0.3	354	22.6	22.6	8.2	8.2	29.5	29.5	94.4	94.4	6.9	6.9	11.0		7		89				<0.2		1.3	
						6.4	0.3	326	22.6		8.2		29.5		94.4		6.9		11.0		6		90				<0.2		1.3	
IM6	Cloudy	Moderate	07:50	7.8	Surface	1.0	0.1	320	22.6	22.6	8.2	8.2	26.1	26.1	93.7	93.7	7.0	7.0	9.4	8.8	6	5	84	87	821059	805848	<0.2	<0.2	1.3	1.3
						1.0	0.1	346	22.6		8.2		26.1		93.7		7.0		9.4		7		83				<0.2		1.2	
					Middle	3.9	0.1	355	22.6	22.6	8.2	8.2	26.0	26.0	93.9	94.0	7.0		6.1		4		87				<0.2		1.3	
						3.9	0.1	327	22.6		8.2		26.0		94.0		7.0		6.6		4		87				<0.2		1.2	
					Bottom	6.8	0.1	49	22.6	22.6	8.2	8.2	28.8	28.8	94.4	94.5	6.9	6.9	10.5		4		89				<0.2		1.3	
						6.8	0.1	50	22.6		8.2		28.7		94.5		6.9		10.6		4		90				<0.2		1.3	
IM7	Cloudy	Moderate	07:59	8.2	Surface	1.0	0.1	310	22.7	22.7	8.2	8.2	25.5	25.5	94.1	94.1	7.0	7.0	5.2	6.5	3	4	84	88	821364	806839	<0.2	<0.2	1.4	1.5
						1.0	0.1	322	22.7		8.2		25.6		94.0		7.0		5.5		3		85				<0.2		1.5	
					Middle	4.1	0.2	52	22.7	22.7	8.2	8.2	25.5	25.5	94.0	94.1	7.0		8.6		4		89				<0.2		1.5	
						4.1	0.2	53	22.7		8.2		25.6		94.1		7.0		8.6		4		88				<0.2		1.4	
					Bottom	7.2	0.2	82	22.7	22.7	8.2	8.2	25.7	25.7	94.3	94.4	7.0	7.0	5.7		6		90				<0.2		1.5	
						7.2	0.3	86	22.7		8.2		25.7		94.5		7.0		5.8		5		90				<0.2		1.5	
IM8	Cloudy	Moderate	07:42	7.8	Surface	1.0	0.2	260	22.6	22.6	8.2	8.2	24.3	24.3	96.1	96.1	7.2	7.2	2.9	3.3	6	5	87	91	821823	808124	<0.2	<0.2	1.8	2.0
						1.0	0.2	263	22.6		8.2		24.3		96.1		7.2		2.9		6		87				<0.2		2.0	
					Middle	3.9	0.1	13	22.5	22.6	8.2	8.2	24.4	24.4	95.3	95.3	7.2		3.2		4		92				<0.2		1.9	
						3.9	0.1	13	22.6		8.2		24.4		95.2		7.2		3.3		5		91				<0.2		2.0	
					Bottom	6.8	0.1	32	22.6	22.6	8.2	8.2	24.5	24.5	95.1	95.2	7.1	7.1	3.7		5		95				<0.2		2.1	
						6.8	0.1	33	22.6		8.2		24.5		95.2		7.1		3.7		4		96				<0.2		2.3	

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 April 19 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	07:33	7.6	Surface	1.0	0.1	5	22.5	22.5	8.2	8.2	25.2	25.2	94.2	94.2	7.1	7.0	4.5	3.8	6	6	88	91	822070	808823	<0.2	<0.2	1.8	1.8
						1.0	0.1	5	22.5		8.2		25.2		94.2		7.0		4.4		5		87				<0.2		1.8	
					Middle	3.8	0.2	62	22.6	22.6	8.2	8.2	24.9	24.9	94.0	94.0	7.0		3.2		5		91				<0.2		1.7	
						3.8	0.2	67	22.6		8.2		24.9		94.0		7.0		3.4		5		91				<0.2		1.8	
					Bottom	6.6	0.2	74	22.6	22.6	8.2	8.2	25.2	25.2	93.9	94.0	7.0	7.0	3.6		7		95				<0.2		1.8	
						6.6	0.2	76	22.6		8.2		25.2		94.0		7.0		3.6		6		95				<0.2		1.8	
IM10	Cloudy	Moderate	07:24	8.1	Surface	1.0	0.4	325	22.5	22.5	8.2	8.2	25.8	25.8	97.0	97.0	7.2	7.2	4.2	4.5	4	6	87	91	822361	809783	<0.2	<0.2	1.6	1.7
						1.0	0.4	333	22.5		8.2		25.8		96.9		7.2		4.2		4		88				<0.2		1.7	
					Middle	4.1	0.4	305	22.5	22.5	8.2	8.2	25.7	25.7	96.8	96.8	7.2		3.7		4		91				<0.2		1.7	
						4.1	0.5	314	22.5		8.2		25.7		96.7		7.2		3.8		6		91				<0.2		1.6	
					Bottom	7.1	0.3	297	22.5	22.5	8.2	8.2	26.9	26.9	95.9	95.9	7.1	7.1	5.5		7		95				<0.2		1.6	
						7.1	0.3	319	22.5		8.2		26.9		95.8		7.1		5.6		8		95				<0.2		1.8	
IM11	Cloudy	Moderate	07:13	7.8	Surface	1.0	0.2	290	22.4	22.4	8.2	8.2	28.3	28.3	95.5	95.5	7.0	7.0	5.9	8.0	8	8	87	91	822049	811481	<0.2	<0.2	1.3	1.6
						1.0	0.3	314	22.4		8.2		28.3		95.4		7.0		6.0		9		88				<0.2		1.2	
					Middle	3.9	0.2	275	22.4	22.4	8.2	8.2	28.3	28.3	95.0	94.9	7.0		5.6		9		91				<0.2		1.3	
						3.9	0.2	298	22.4		8.2		28.3		94.8		7.0		5.5		9		91				<0.2		1.3	
					Bottom	6.8	0.1	265	22.4	22.4	8.2	8.2	28.3	28.3	94.3	94.3	6.9	6.9	13.0		7		95				<0.2		2.3	
						6.8	0.2	285	22.4		8.2		28.3		94.3		6.9		11.9		7		94				<0.2		2.2	
IM12	Cloudy	Moderate	07:05	8.9	Surface	1.0	0.4	271	22.5	22.5	8.2	8.2	27.9	27.9	96.3	96.3	7.1	7.1	4.0	4.5	5	7	87	91	821469	812049	<0.2	<0.2	1.2	1.4
						1.0	0.4	283	22.5		8.2		27.9		96.3		7.1		3.9		5		87				<0.2		1.4	
					Middle	4.5	0.5	262	22.4	22.4	8.2	8.2	27.9	27.9	95.6	95.5	7.1		4.2		6		92				<0.2		1.5	
						4.5	0.5	284	22.4		8.2		27.9		95.4		7.0		4.2		7		91				<0.2		1.4	
					Bottom	7.9	0.4	256	22.5	22.5	8.2	8.2	28.1	28.1	94.9	94.9	7.0	7.0	5.3		8		96				<0.2		1.4	
						7.9	0.4	275	22.5		8.2		28.1		94.9		7.0		5.6		8		95				<0.2		1.3	
SR1A	Cloudy	Moderate	06:40	5.6	Surface	1.0	-	-	22.4	22.5	8.2	8.2	28.6	28.6	95.0	95.0	7.0	7.0	4.0	4.8	6	5	-	-	819973	812663	-	-	-	-
						1.0	-	-	22.5		8.2		28.6		95.0		7.0		4.0		6		-				-		-	
					Middle	2.8	-	-	-	-	-	-		-	-	-	-		-		-		-				-		-	
						2.8	-	-	-		-				-		-		-		-		-				-		-	
					Bottom	4.6	-	-	22.5	22.5	8.2	8.2	28.7	28.7	95.4	95.5	7.0	7.0	5.2		4		-				-		-	
						4.6	-	-	22.5		8.2		28.7		95.6		7.0		5.9		4		-				-		-	
SR2	Cloudy	Moderate	06:28	4.8	Surface	1.0	0.5	306	22.4	22.4	8.2	8.2	28.8	28.8	94.8	94.8	7.0	7.0	4.7	4.2	4	5	87	89	821475	814176	<0.2	<0.2	1.3	1.3
						1.0	0.5	317	22.4		8.2		28.8		94.8		7.0		4.6		4		87				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.3	309	22.4	22.4	8.2	8.2	28.7	28.7	95.9	96.1	7.0	7.1	4.0		6		91				<0.2		1.3	
						3.8	0.3	333	22.4		8.2		28.7		96.2		7.1		3.6		6		91				<0.2		1.4	
SR3	Cloudy	Moderate	07:51	8.2	Surface	1.0	0.2	51	22.5	22.5	8.2	8.2	24.3	24.3	96.3	96.3	7.2	7.3	3.3	3.8	5	5	-	-	822141	807574	-	-	-	-
						1.0	0.2	55	22.5		8.2		24.3		96.3		7.2		3.3		4		-				-		-	
					Middle	4.1	0.3	91	22.5	22.6	8.2	8.2	24.3	24.3	96.5	96.5	7.3		3.7		6		-				-		-	
						4.1	0.3	91	22.6		8.2		24.3		96.5		7.3		3.8		6		-				-		-	
					Bottom	7.2	0.4	66	22.6	22.6	8.2	8.2	24.3	24.3	96.2	96.2	7.2	7.2	4.3		5		-				-		-	
						7.2	0.4	66	22.6		8.2		24.3		96.1		7.2		4.4		6		-				-		-	
SR4A	Cloudy	Moderate	06:51	8.4	Surface	1.0	0.3	195	22.7	22.7	8.2	8.2	29.0	29.0	94.0	94.1	6.9	6.9	7.7	8.7	7	6	-	-	817201	807798	-	-	-	-
						1.0	0.4	202	22.7		8.2		29.0		94.1		6.9		7.6		7		-				-		-	
					Middle	4.2	0.3	282	22.6	22.6	8.2	8.2	29.0	29.0	94.1	94.1	6.9		8.8		6		-				-		-	
						4.2	0.3	282	22.6		8.2		29.0		94.1		6.9		9.0		6		-				-		-	
					Bottom	7.4	0.3	287	22.7	22.7	8.2	8.2	29.1	29.1	94.3	94.4	6.9	6.9	9.5		6		-				-		-	
						7.4	0.3	289	22.7		8.2		29.1		94.4		6.9		9.4		5		-				-		-	
SR5A	Cloudy	Moderate	06:34	4.4	Surface	1.0	0.2	265	22.7	22.7	8.2	8.2	28.8	28.8	92.6	92.7	6.8	6.8	4.6	6.6	4	4	-	-	816591	810719	-	-	-	-
						1.0	0.2	280	22.7		8.2		28.8		92.7		6.8		4.6		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.2	259	22.8	22.8	8.2	8.2	29.2	29.2	92.5	92.5	6.7	6.7	8.7		4		-				-		-	
						3.4	0.2	263	22.8		8.2		29.2		92.5		6.7		8.7		4		-				-		-	
SR6	Cloudy	Moderate	05:59	4.6	Surface	1.0	0.1	265	22.4	22.4	8.0	8.0	28.2	28.2	92.3	92.4	6.8	6.8	3.8	3.5	4	5	-	-	817875	814647	-	-	-	-
						1.0	0.1	267	22.3		8.0		28.2		92.4		6.8		3.8		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	67	22.3	22.3	8.0	8.0	28.3	28.3	92.6	92.7	6.8	6.9	3.3		5		-				-		-	
						3.6	0.1	72	22.3		8.0		28.3		92.7		6.9		3.2		5		-				-		-	
SR7	Cloudy	Moderate	05:42	14.7	Surface	1.0	0.1	320	22.4	22.4	8.1	8.1	29.6	29.6	93.8	93.8	6.9	6.9	2.5	3.0	4	4	-	-	823619	823739	-	-	-	-
						1.0	0.1	342	22.4		8.1		29.6		93.7		6.9		2.4		4		-				-		-	
					Middle	7.4	0.2	180	22.4	22.4	8.1	8.1	29.7	29.7	93.6	93.6	6.8		2.3		4		-				-		-	
						7.4	0.2	187	22.4		8.1		29.7		93.5		6.8		2.2		3		-				-		-	
					Bottom	13.7	0.1	192	22.4	22.4	8.1	8.1	30.4	30.4	93.1	93.2	6.8	6.8	4.3		3		-				-		-	
						13.7	0.1	200	22.4		8.1		30.4		93.3		6.8		4.3		4		-				-		-	
SR8	Cloudy	Moderate	06:55	4.8	Surface	1.0	-	-	22.4	22.4	8.2	8.2	28.6	28.6	94.9	95.0	7.0	7.0	3.9	3.9	6	6	-	-	820368	811602	-	-	-	-
						1.0	-	-	22.4		8.2		28.6		95.0		7.0		4.1		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	22.4	22.4	8.2	8.2	28.7	28.7	95.1	95.1	7.0	7.0	3.8		6		-				-		-	
						3.8	-	-	22.4		8.2		28.7		95.0		7.0		3.8		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 06 April 19 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	13:26	8.1	Surface	1.0	0.2	228	23.3	23.3	8.3	8.3	23.9	23.8	95.3	95.4	7.1	7.1	6.6	5.2	4	4	83	87	815619	804255	<0.2	<0.2	1.4	1.4
						1.0	0.2	228	23.3		8.3		23.8		95.5		7.1		6.7		3		83				<0.2		1.4	
					Middle	4.1	0.1	217	23.3	23.3	8.3	8.3	23.9	23.9	95.6	95.6	7.1		4.3		4		87				<0.2		1.5	
						4.1	0.1	205	23.3		8.3		23.9		95.5		7.1		4.4		4		88				<0.2		1.5	
					Bottom	7.1	0.2	265	23.2	23.2	8.3	8.2	24.5	24.5	95.4	95.4	7.1	7.1	4.7		3		91				<0.2		1.4	
						7.1	0.2	244	23.2		8.2		24.5		95.4		7.1		4.7		4		91				<0.2		1.3	
C2	Fine	Moderate	12:05	11.8	Surface	1.0	0.3	128	24.1	24.1	8.4	8.4	23.2	23.2	97.6	97.7	7.2	7.2	7.4	8.3	6	10	85	88	825694	806955	<0.2	<0.2	2.0	2.0
						1.0	0.3	128	24.1		8.4		23.2		97.7		7.2		7.4		6		85				<0.2		2.0	
					Middle	5.9	0.2	137	24.1	24.1	8.4	8.4	25.0	25.0	98.0	98.0	7.1		8.5		11		88				<0.2		2.0	
						5.9	0.2	147	24.1		8.4		25.0		97.9		7.1		8.6		11		87				<0.2		1.9	
					Bottom	10.8	0.2	110	24.1	24.2	8.4	8.4	25.9	25.9	97.9	97.9	7.1	7.1	9.0		13		90				<0.2		2.0	
						10.8	0.2	112	24.2		8.4		25.9		97.9		7.1		8.8		14		90				<0.2		1.8	
C3	Fine	Moderate	13:30	12.1	Surface	1.0	0.6	94	24.1	24.1	8.4	8.4	26.4	26.4	99.4	99.4	7.2	7.2	9.3	4.5	3	3	86	88	822124	817797	<0.2	<0.2	1.7	1.7
						1.0	0.6	100	24.0		8.4		26.4		99.4		7.2		9.8		4		86				<0.2		1.7	
					Middle	6.1	0.6	106	23.9	23.9	8.4	8.4	27.0	27.0	98.9	99.0	7.1		2.3		4		88				<0.2		1.7	
						6.1	0.6	111	23.9		8.4		27.0		99.0		7.2		2.2		3		87				<0.2		1.8	
					Bottom	11.1	0.4	79	23.9	23.9	8.4	8.4	27.6	27.6	99.3	99.3	7.1	7.2	1.8		3		90				<0.2		1.6	
						11.1	0.4	83	23.9		8.4		27.6		99.3		7.2		1.8		3		89				<0.2		1.7	
IM1	Sunny	Moderate	12:57	4.1	Surface	1.0	0.0	250	23.6	23.6	8.2	8.2	22.9	22.9	94.9	94.9	7.1	7.1	7.4	7.9	4	4	83	85	817946	807151	<0.2	<0.2	1.6	1.6
						1.0	0.0	260	23.6		8.2		22.9		94.8		7.1		7.4		3		83				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.2	233	23.6	23.6	8.2	8.2	22.9	22.9	94.8	94.8	7.1	7.1	8.4		4		87				<0.2		1.5	
						3.1	0.2	238	23.6		8.2		22.9		94.8		7.1		8.4		3		88				<0.2		1.5	
IM2	Sunny	Moderate	12:50	6.8	Surface	1.0	0.2	259	23.5	23.5	8.2	8.2	21.5	21.5	94.7	94.7	7.1	7.1	3.5	4.1	3	4	84	86	818152	806146	<0.2	<0.2	1.4	1.5
						1.0	0.2	230	23.5		8.2		21.5		94.7		7.1		3.5		4		85				<0.2		1.3	
					Middle	3.4	0.3	242	23.4	23.4	8.2	8.2	22.8	22.8	94.7	94.7	7.1		3.4		4		86				<0.2		1.5	
						3.4	0.3	259	23.4		8.3		22.8		94.7		7.1		3.4		4		86				<0.2		1.6	
					Bottom	5.8	0.1	250	23.1	23.1	8.3	8.3	26.2	26.2	94.4	94.4	7.0	7.0	5.5		4		88				<0.2		1.6	
						5.8	0.1	253	23.1		8.3		26.2		94.4		7.0		5.6		5		88				<0.2		1.6	
IM3	Sunny	Moderate	12:44	7.7	Surface	1.0	0.4	206	23.4	23.3	8.3	8.3	22.2	22.2	95.3	95.4	7.2	7.1	4.1	4.5	3	4	84	86	818767	805570	<0.2	<0.2	1.1	1.6
						1.0	0.4	206	23.2		8.3		22.2		95.4		7.2		4.2		3		85				<0.2		1.2	
					Middle	3.9	0.2	258	23.1	23.1	8.3	8.3	27.7	27.7	95.4	95.4	7.0		4.7		4		86				<0.2		1.7	
						3.9	0.2	239	23.1		8.3		27.7		95.3		7.0		4.7		3		87				<0.2		1.6	
					Bottom	6.7	0.2	258	23.1	23.1	8.3	8.3	27.7	27.7	95.3	95.3	7.0	7.0	4.7		5		87				<0.2		1.8	
						6.7	0.2	236	23.1		8.3		27.7		95.3		7.0		4.7		6		89				<0.2		1.9	
IM4	Sunny	Moderate	12:35	7.4	Surface	1.0	0.2	145	23.3	23.3	8.2	8.2	24.1	24.1	94.7	94.7	7.0	7.0	3.9	4.7	4	5	84	86	819711	804593	<0.2	<0.2	1.1	1.3
						1.0	0.3	149	23.2		8.2		24.1		94.7		7.0		4.0		4		83				<0.2		1.2	
					Middle	3.7	0.2	237	23.1	23.1	8.3	8.3	25.5	25.5	94.3	94.4	7.0		4.2		5		85				<0.2		1.3	
						3.7	0.2	239	23.1		8.3		25.5		94.4		7.0		4.2		5		86				<0.2		1.4	
					Bottom	6.4	0.2	232	23.0	23.0	8.3	8.3	28.2	28.2	94.8	94.8	6.9	6.9	5.9		6		87				<0.2		1.3	
						6.4	0.2	222	23.0		8.3		28.2		94.8		6.9		6.0		5		88				<0.2		1.2	
IM5	Sunny	Moderate	12:27	7.3	Surface	1.0	0.1	226	23.2	23.2	8.3	8.3	25.9	25.9	94.0	94.0	6.9	6.9	7.8	6.9	5	7	83	84	820747	804868	<0.2	<0.2	1.2	1.3
						1.0	0.1	241	23.2		8.3		26.0		93.9		6.9		7.9		5		81				<0.2		1.2	
					Middle	3.7	0.2	249	23.2	23.2	8.3	8.3	26.6	26.6	93.6	93.6	6.9		6.5		6		85				<0.2		1.3	
						3.7	0.2	221	23.2		8.3		26.6		93.6		6.9		6.5		7		84				<0.2		1.3	
					Bottom	6.3	0.3	205	23.2	23.2	8.2	8.2	27.4	27.4	93.6	93.6	6.8	6.8	6.3		8		86				<0.2		1.4	
						6.3	0.3	205	23.2		8.2		27.4		93.6		6.8		6.3		8		87				<0.2		1.2	
IM6	Sunny	Moderate	12:17	7.9	Surface	1.0	0.1	163	23.3	23.3	8.2	8.2	25.8	25.8	93.1	93.2	6.9	6.9	4.0	4.0	5	5	82	85	821073	805826	<0.2	<0.2	1.5	1.5
						1.0	0.1	170	23.3		8.2		25.8		93.3		6.9		4.0		5		82				<0.2		1.6	
					Middle	4.0	0.0	205	23.3	23.3	8.2	8.2	25.8	25.8	93.3	93.3	6.9		4.1		5		84				<0.2		1.5	
						4.0	0.0	207	23.3		8.2		25.8		93.3		6.9		4.0		5		85				<0.2		1.4	
					Bottom	6.9	0.1	204	23.3	23.3	8.2	8.2	25.8	25.8	93.3	93.3	6.9	6.9	4.0		6		87				<0.2		1.4	
						6.9	0.2	200	23.3		8.2		25.8		93.3		6.9		4.0		5		88				<0.2		1.6	
IM7	Sunny	Moderate	12:05	7.1	Surface	1.0	0.1	193	23.4	23.4	8.2	8.2	25.7	25.7	93.1	93.1	6.8	6.8	4.9	6.1	5	5	84	85	821327	806844	<0.2	<0.2	1.5	1.5
						1.0	0.1	180	23.4		8.2		25.7		93.1		6.8		4.9		5		82				<0.2		1.6	
					Middle	3.6	0.1	237	23.4	23.4	8.2	8.2	25.8	25.8	93.2	93.2	6.8		4.6		6		86				<0.2		1.4	
						3.6	0.1	254	23.4		8.2		25.8		93.2		6.8		4.6		5		85				<0.2		1.4	
					Bottom	6.1	0.2	215	23.3	23.3	8.2	8.2	25.8	25.8	93.2	93.2	6.9	6.9	8.6		5		87				<0.2		1.4	
						6.1	0.2	226	23.3		8.2		25.8		93.2		6.9		8.7		5		84				<0.2		1.5	
IM8	Fine	Moderate	12:30	7.6	Surface	1.0	0.5	191	23.5	23.5	8.4	8.4	22.6	22.6	97.1	97.0	7.3	7.3	6.7	5.6	4	4	85	88	821806	808140	<0.2	<0.2	2.0	1.9
						1.0	0.5	194	23.4		8.4		22.6		96.9		7.3		6.7		4		86				<0.2		2.0	
					Middle	3.8	0.5	197	23.4	23.4	8.4	8.4	24.1	24.1	96.6	96.7	7.2		5.7		4		89				<0.2		1.8	
						3.8	0.6	198	23.4		8.4		24.1		96.7		7.2		5.6		3		89				<0.2		1.9	
					Bottom	6.6	0.4	184	23.4	23.4	8.4	8.4	24.7	24.7	97.0	97.0	7.2	7.2	4.4		6		90				<0.2		1.8	
						6.6	0.4	180	23.4		8.4		24.7		97.0		7.2		4.4		5		90				<0.2		2.0	

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 06 April 19 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	12:36	7.0	Surface	1.0	0.6	174	23.6	23.6	8.3	8.3	20.7	20.7	96.5	96.5	7.3	7.3	2.7	4.4	<2	3	85	88	822089	808823	<0.2	<0.2	1.9	2.1
						1.0	0.6	163	23.6		8.4		20.7		96.5		7.3		2.8		<2		86				<0.2		2.0	
					Middle	3.5	0.6	181	23.5	23.5	8.4	8.4	23.0	23.0	96.5	96.7	7.2		5.4		3		88				<0.2		2.2	
						3.5	0.6	173	23.5		8.4		23.0		96.8		7.2		5.7		2		87				<0.2		2.1	
					Bottom	6.0	0.4	165	23.5	23.5	8.4	8.4	24.4	24.4	97.2	97.3	7.2	7.2	5.0		3		90				<0.2		2.1	
						6.0	0.4	170	23.5		8.4		24.4		97.3		7.2		4.7		4		90				<0.2		2.0	
IM10	Fine	Moderate	12:42	7.1	Surface	1.0	0.5	101	23.5	23.5	8.4	8.4	22.6	22.6	96.6	96.6	7.2	7.2	4.4		2		85				<0.2		2.1	
						1.0	0.5	101	23.5		8.4		22.6		96.6		7.2		4.4		2		84				<0.2		2.0	
					Middle	3.6	0.7	89	23.5	23.5	8.4	8.4	23.7	23.7	96.7	96.7	7.2		5.2	6.9	4	4	88	87	822370	809807	<0.2	<0.2	2.2	2.1
						3.6	0.7	96	23.5		8.4		23.7		96.7		7.2		5.6		3		87				<0.2		2.1	
					Bottom	6.1	0.5	86	23.5	23.5	8.4	8.4	23.7	23.7	97.3	97.3	7.2	7.2	11.0		6		91				<0.2		2.0	
						6.1	0.5	91	23.5		8.4		23.7		97.3		7.2		11.0		6		89				<0.2		2.2	
IM11	Fine	Moderate	12:53	7.6	Surface	1.0	0.5	106	23.6	23.6	8.4	8.4	24.3	24.3	97.1	97.1	7.2	7.2	3.1		3		85				<0.2		1.9	
						1.0	0.6	106	23.6		8.4		24.3		97.1		7.2		3.1		4		86				<0.2		2.0	
					Middle	3.8	0.4	113	23.7	23.7	8.4	8.4	24.9	24.9	97.2	97.2	7.1		3.1	3.1	4	4	90	88	822055	811461	<0.2	<0.2	2.0	2.0
						3.8	0.4	115	23.7		8.4		24.9		97.2		7.1		3.1		3		88				<0.2		2.0	
					Bottom	6.6	0.2	130	23.7	23.7	8.4	8.4	25.6	25.6	97.6	97.7	7.1	7.1	3.2		3		90				<0.2		2.0	
						6.6	0.2	142	23.7		8.4		25.6		97.7		7.1		3.2		4		89				<0.2		2.0	
IM12	Fine	Moderate	13:00	7.4	Surface	1.0	0.6	96	23.7	23.7	8.4	8.4	23.7	23.7	97.2	97.3	7.2	7.2	5.0		2		86				<0.2		2.0	
						1.0	0.6	105	23.7		8.4		23.7		97.3		7.2		5.3		3		85				<0.2		2.0	
					Middle	3.7	0.4	94	23.6	23.6	8.4	8.4	24.3	24.3	97.4	97.5	7.2		4.2	4.5	4	4	88	88	821442	812039	<0.2	<0.2	2.1	2.0
						3.7	0.4	96	23.6		8.4		24.3		97.5		7.2		4.2		4		89				<0.2		2.1	
					Bottom	6.4	0.2	127	23.6	23.6	8.4	8.4	25.5	25.5	97.7	97.8	7.2	7.2	4.1		4		90				<0.2		2.0	
						6.4	0.3	133	23.6		8.4		25.5		97.8		7.2		3.9		4		90				<0.2		2.0	
SR1A	Fine	Moderate	13:09	4.6	Surface	1.0	-	-	23.7	23.7	8.4	8.4	23.7	23.7	97.4	97.4	7.2	7.2	9.8	7.2	3	4	-	-	819983	812656	-	-	-	-
						1.0	-	-	23.7		8.4		23.7		97.4		7.2		9.6		4		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	23.6	23.6	8.4	8.4	25.8	25.8	97.7	97.8	7.2	7.2	4.7		4		-				-		-	
						3.6	-	-	23.6		8.4		25.8		97.8		7.2		4.7		4		-				-		-	
SR2	Fine	Moderate	13:09	4.3	Surface	1.0	0.5	99	23.7	23.7	8.4	8.4	25.7	25.7	97.5	97.6	7.1	7.1	4.2	7.2	4	4	85	87	821467	814184	<0.2	<0.2	1.6	1.7
						1.0	0.5	105	23.7		8.4		25.7		97.6		7.1		4.3		4		86				<0.2		1.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	122	23.7	23.7	8.4	8.4	23.7	23.7	97.5	97.5	7.2	7.2	10.2		4		88				<0.2		1.7	
						3.3	0.2	133	23.7		8.4		23.7		97.5		7.2		10.0		4		89				<0.2		1.7	
SR3	Fine	Moderate	12:24	8.3	Surface	1.0	0.2	118	23.7	23.7	8.3	8.3	22.0	22.0	95.3	95.2	7.1	7.1	3.4	5.4	3	6	-	-	822147	807549	-	-	-	-
						1.0	0.2	125	23.6		8.3		22.0		95.1		7.1		3.8		3		-				-		-	
					Middle	4.2	0.3	114	23.3	23.3	8.3	8.3	24.7	24.7	94.2	94.2	7.0		7.0		7		-				-		-	
						4.2	0.3	117	23.3		8.3		24.7		94.2		7.0		7.0		7		-				-		-	
					Bottom	7.3	0.2	96	23.4	23.4	8.4	8.4	24.8	24.8	95.3	95.4	7.0	7.0	5.5		7		-				-		-	
						7.3	0.3	99	23.4		8.4		24.8		95.4		7.0		5.5		8		-				-		-	
SR4A	Sunny	Moderate	13:50	6.9	Surface	1.0	0.4	66	23.5	23.5	8.2	8.2	22.1	22.1	94.9	94.9	7.1	7.1	8.5	6.1	3	4	-	-	817185	807788	-	-	-	-
						1.0	0.4	69	23.5		8.2		22.1		94.9		7.1		8.4		4		-				-		-	
					Middle	3.5	0.4	60	23.6	23.6	8.2	8.2	22.2	22.2	94.8	94.8	7.1		4.8		4		-				-		-	
						3.5	0.4	65	23.6		8.2		22.2		94.8		7.1		4.9		4		-				-		-	
					Bottom	5.9	0.4	66	23.6	23.6	8.2	8.2	22.4	22.4	94.8	94.8	7.1	7.1	5.0		5		-				-		-	
						5.9	0.4	70	23.6		8.2		22.4		94.8		7.1		5.0		4		-				-		-	
SR5A	Sunny	Calm	14:05	3.6	Surface	1.0	0.1	50	24.1	24.1	8.2	8.2	27.0	26.9	94.9	94.9	6.8	6.8	12.0	11.6	10	8	-	-	816570	810678	-	-	-	-
						1.0	0.1	53	24.1		8.2		26.9		94.9		6.8		12.1		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	12	24.2	24.2	8.2	8.2	27.0	27.0	95.2	95.2	6.8	6.8	11.1		6		-				-		-	
						2.6	0.1	12	24.2		8.2		27.0		95.2		6.8		11.1		6		-				-		-	
SR6	Sunny	Calm	14:37	3.7	Surface	1.0	0.1	21	24.1	24.2	8.2	8.2	25.5	25.5	95.2	95.3	6.9	6.9	6.2	5.9	<2	<2	-	-	817916	814685	-	-	-	-
						1.0	0.1	22	24.2		8.2		25.4		95.3		6.9		6.2		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.1	26	24.7	24.7	8.2	8.2	25.3	25.3	96.4	96.4	6.9	6.9	5.7		<2		-				-		-	
						2.7	0.1	27	24.7		8.2		25.3		96.4		6.9		5.7		<2		-				-		-	
SR7	Fine	Moderate	13:53	16.4	Surface	1.0	0.7	70	23.3	23.3	8.4	8.4	28.5	28.5	96.5	96.4	7.0	7.0	3.7	4.4	2	2	-	-	823626	823725	-	-	-	-
						1.0	0.8	72	23.2		8.4		28.5		96.3		7.0		3.6		2		-				-		-	
					Middle	8.2	0.4	53	23.1	23.2	8.4	8.4	29.3	29.3	96.1	96.3	7.0		6.8		2		-				-		-	
						8.2	0.4	56	23.2		8.4		29.2		96.4		7.0		6.8		2		-				-		-	
					Bottom	15.4	0.3	28	23.3	23.3	8.4	8.4	29.6	29.6	96.9	97.0	7.0	7.0	2.8		2		-				-		-	
						15.4	0.3	29	23.2		8.4		29.6		97.0		7.0		2.9		2		-				-		-	
SR8	Fine	Moderate	13:00	5.2	Surface	1.0	-	-	23.7	23.8	8.4	8.4	24.2	24.2	96.7	96.7	7.1	7.1	4.2	4.3	3	4	-	-	820405	811621	-	-	-	-
						1.0	-	-	23.8		8.4		24.2		96.7		7.1		4.3		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	-	-	23.8	23.8	8.4	8.4	23.7	23.7	97.1	97.2	7.2	7.2	4.3		4		-				-		-	
						4.2	-	-	23.7		8.4		23.7		97.2		7.2		4.3		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 06 April 19 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	06:57	7.2	Surface	1.0	0.5	52	23.0	23.0	8.2	8.2	20.5	20.5	93.4	93.4	7.1	7.1	5.6	9.5	3	4	83	87	815610	804260	<0.2	<0.2	2.1	1.8
						1.0	0.5	56	23.0		8.2		20.5		93.4		7.1		5.7		4		83				<0.2		2.0	
					Middle	3.6	0.4	51	22.9	22.9	8.2	8.2	23.9	23.9	93.7	93.8	7.0		5.2		3		87				<0.2		2.0	
						3.6	0.4	52	22.9		8.2		23.9		93.8		7.0		5.2		4		87				<0.2		1.8	
					Bottom	6.2	0.3	56	22.9	23.0	8.2	8.2	25.3	25.3	93.3	93.4	6.9	6.9	17.2		4		92				<0.2		1.6	
						6.2	0.3	56	23.0		8.2		25.3		93.4		6.9		17.9		4		92				<0.2		1.5	
C2	Fine	Moderate	08:12	11.6	Surface	1.0	0.2	42	23.3	23.3	8.4	8.4	23.1	23.1	95.8	95.9	7.2	7.2	6.0	8.8	3	10	86	87	825678	806961	<0.2	<0.2	2.0	2.2
						1.0	0.3	45	23.3		8.4		23.1		95.9		7.2		6.4		3		85				<0.2		2.1	
					Middle	5.8	0.2	52	23.2	23.2	8.4	8.4	24.6	24.6	96.4	96.5	7.1		8.1		9		87				<0.2		2.2	
						5.8	0.2	57	23.2		8.4		24.6		96.5		7.2		8.2		9		88				<0.2		2.2	
					Bottom	10.6	0.2	8	23.4	23.4	8.4	8.4	25.5	25.5	96.6	96.7	7.1	7.1	12.2		18		88				<0.2		2.2	
						10.6	0.2	8	23.4		8.4		25.5		96.7		7.1		12.2		16		90				<0.2		2.2	
C3	Fine	Moderate	06:30	11.5	Surface	1.0	0.7	254	23.1	23.1	8.4	8.4	26.6	26.6	95.5	95.5	7.0	7.0	7.6	5.6	<2	4	85	87	822093	817826	<0.2	<0.2	1.8	1.8
						1.0	0.7	261	23.1		8.4		26.6		95.4		7.0		7.8		<2		85				<0.2		1.7	
					Middle	5.8	0.6	248	23.0	23.0	8.4	8.4	27.8	27.8	95.1	95.2	7.0		4.6		2		86				<0.2		1.8	
						5.8	0.6	248	23.0		8.4		27.8		95.2		7.0		4.8		3		86				<0.2		2.0	
					Bottom	10.5	0.5	254	23.0	23.0	8.4	8.4	28.8	28.8	95.5	95.6	6.9	7.0	4.4		6		89				<0.2		1.8	
						10.5	0.5	267	23.0		8.4		28.8		95.6		7.0		4.5		6		89				<0.2		1.7	
IM1	Sunny	Moderate	07:14	5.5	Surface	1.0	0.8	31	23.4	23.4	8.2	8.2	23.2	23.2	93.5	93.5	7.0	7.0	5.0	4.9	4	4	83	86	817937	807108	<0.2	<0.2	1.9	1.9
						1.0	0.8	32	23.4		8.2		23.2		93.5		7.0		5.1		3		84				<0.2		1.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	0.4	5	23.4	23.4	8.2	8.2	23.3	23.3	93.6	93.7	7.0	7.0	4.7		3		88				<0.2		2.0	
						4.5	0.4	5	23.4		8.2		23.3		93.7		7.0		4.7		4		89				<0.2		1.9	
IM2	Sunny	Moderate	07:21	8.1	Surface	1.0	0.2	2	23.5	23.5	8.2	8.2	21.9	21.9	93.5	93.6	7.0	7.0	4.0	4.6	3	4	83	86	818169	806154	<0.2	<0.2	1.8	1.8
						1.0	0.2	2	23.5		8.2		21.8		93.6		7.0		4.0		3		85				<0.2		1.8	
					Middle	4.1	0.1	21	23.6	23.6	8.2	8.2	23.2	23.2	94.1	94.1	7.0		4.1		4		86				<0.2		1.7	
						4.1	0.1	22	23.5		8.2		23.2		94.1		7.0		4.2		4		86				<0.2		1.8	
					Bottom	7.1	0.1	307	23.3	23.3	8.2	8.2	24.2	24.1	93.6	93.6	7.0	7.0	5.5		4		89				<0.2		1.8	
						7.1	0.1	312	23.3		8.2		24.1		93.6		7.0		5.5		4		88				<0.2		1.7	
IM3	Sunny	Moderate	07:27	8.4	Surface	1.0	0.5	356	23.3	23.3	8.2	8.2	21.0	21.0	93.7	93.8	7.1	7.1	4.1	5.4	2	5	84	85	818774	805596	<0.2	<0.2	1.3	1.6
						1.0	0.5	328	23.3		8.2		21.0		93.8		7.1		4.1		2		83				<0.2		1.3	
					Middle	4.2	0.4	6	23.1	23.1	8.2	8.2	24.0	24.0	94.0	94.1	7.0		6.0		4		85				<0.2		1.7	
						4.2	0.4	6	23.1		8.2		24.0		94.1		7.0		6.0		3		85				<0.2		1.7	
					Bottom	7.4	0.2	357	23.1	23.1	8.2	8.2	26.7	26.7	94.3	94.3	6.9	6.9	6.0		8		87				<0.2		1.7	
						7.4	0.2	328	23.1		8.2		26.7		94.3		6.9		5.9		9		86				<0.2		1.8	
IM4	Sunny	Moderate	07:36	8.6	Surface	1.0	0.4	29	23.0	23.0	8.2	8.2	25.1	25.1	93.6	93.6	6.9	6.9	6.3	6.6	5	5	84	85	819743	804612	<0.2	<0.2	1.4	1.4
						1.0	0.4	31	23.0		8.2		25.1		93.6		6.9		6.4		4		83				<0.2		1.4	
					Middle	4.3	0.4	18	23.0	23.0	8.2	8.2	26.2	26.2	93.6	93.6	6.9		5.7		6		85				<0.2		1.3	
						4.3	0.4	19	23.0		8.2		26.2		93.6		6.9		5.7		5		85				<0.2		1.4	
					Bottom	7.6	0.3	14	23.1	23.1	8.2	8.2	26.6	26.6	93.8	93.9	6.9	6.9	7.8		6		87				<0.2		1.3	
						7.6	0.3	14	23.1		8.2		26.6		93.9		6.9		7.9		6		87				<0.2		1.4	
IM5	Sunny	Moderate	07:42	8.1	Surface	1.0	0.6	5	23.2	23.2	8.2	8.2	26.5	26.5	93.2	93.2	6.9	6.8	8.3	9.1	7	8	82	85	820748	804859	<0.2	<0.2	1.3	1.5
						1.0	0.7	5	23.2		8.2		26.5		93.2		6.8		8.3		7		81				<0.2		1.4	
					Middle	4.1	0.5	356	23.2	23.2	8.2	8.2	26.8	26.8	93.3	93.3	6.8		7.4		8		84				<0.2		1.3	
						4.1	0.5	328	23.2		8.2		26.8		93.3		6.8		7.4		8		84				<0.2		2.1	
					Bottom	7.1	0.3	352	23.3	23.3	8.2	8.2	26.7	26.7	93.9	94.0	6.9	6.9	11.7		8		88				<0.2		1.3	
						7.1	0.4	324	23.3		8.2		26.7		94.0		6.9		11.7		7		89				<0.2		1.4	
IM6	Sunny	Moderate	07:48	8.0	Surface	1.0	0.7	3	23.3	23.3	8.2	8.2	25.8	25.8	94.3	94.3	6.9	6.9	9.5	7.7	5	4	81	84	821065	805822	<0.2	<0.2	1.5	1.5
						1.0	0.8	3	23.3		8.2		25.8		94.3		6.9		9.5		4		82				<0.2		1.6	
					Middle	4.0	0.7	5	23.4	23.4	8.2	8.2	25.8	25.8	94.0	94.0	6.9		6.3		4		84				<0.2		1.5	
						4.0	0.8	5	23.4		8.2		25.8		94.0		6.9		6.4		5		85				<0.2		1.6	
					Bottom	7.0	0.6	359	23.4	23.4	8.2	8.2	26.1	26.1	93.4	93.4	6.8	6.8	7.2		4		86				<0.2		1.5	
						7.0	0.7	330	23.4		8.2		26.1		93.4		6.8		7.2		4		87				<0.2		1.5	
IM7	Sunny	Moderate	08:02	8.5	Surface	1.0	0.1	188	23.5	23.5	8.2	8.2	25.7	25.7	93.4	93.5	6.9	6.9	4.9	4.7	5	4	82	85	821329	806832	<0.2	<0.2	1.5	1.4
						1.0	0.1	197	23.5		8.2		25.7		93.5		6.9		4.8		4		83				<0.2		1.3	
					Middle	4.3	0.1	248	23.7	23.7	8.2	8.2	25.8	25.8	94.3	94.4	6.9		4.7		3		84				<0.2		1.4	
						4.3	0.1	268	23.7		8.2		25.8		94.5		6.9		4.8		4		85				<0.2		1.5	
					Bottom	7.5	0.2	341	23.7	23.7	8.2	8.2	26.0	26.0	95.4	95.5	7.0	7.0	4.5		3		87				<0.2		1.4	
						7.5	0.2	357	23.7		8.2		26.0		95.6		7.0		4.5		4		88				<0.2		1.5	
IM8	Fine	Moderate	07:49	7.4	Surface	1.0	0.2	55	23.2	23.2	8.3	8.3	21.4	21.4	94.2	94.2	7.1	7.1	3.9	7.7	3	4	86	88	821823	808153	<0.2	<0.2	2.0	1.9
						1.0	0.2	58	23.2		8.3		21.4		94.2		7.1		4.2		2		85				<0.2		2.0	
					Middle	3.7	0.4	73	23.2	23.2	8.4	8.4	22.7	22.7	94.7	94.8	7.1		11.0		3		88				<0.2		1.9	
						3.7	0.4	77	23.2		8.4		22.7		94.8		7.1		11.4		3		87				<0.2		1.8	
					Bottom	6.4	0.3	64	23.3	23.3	8.4	8.4	25.0	25.0	95.5	95.5	7.1	7.1	7.9		6		90				<0.2		1.8	
						6.4	0.3	69	23.3		8.4		25.0		95.5		7.1		7.7		7		90				<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 06 April 19 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	Moderate	07:42	7.2	Surface	1.0	0.2	50	23.2	23.2	8.3	8.3	22.0	22.0	93.8	93.8	7.1	7.1	4.5	5.6	3	6	86	88	822100	808801	<0.2	<0.2	1.9	1.9
						1.0	0.3	50	23.2		8.3		22.0		93.8		7.1		4.6		3		85				<0.2		1.9	
					Middle	3.6	0.3	67	23.2	23.2	8.3	8.3	23.2	23.2	94.2	94.3	7.0		4.1		5		87				<0.2		1.8	
						3.6	0.3	70	23.2		8.3		23.2		94.3		7.1		4.4		6		89				<0.2		1.9	
					Bottom	6.2	0.3	64	23.2	23.2	8.3	8.3	24.6	24.6	94.2	94.3	7.0	7.0	7.8		10		90				<0.2		1.8	
						6.2	0.3	66	23.2		8.3		24.6		94.3		7.0		8.0		9		89				<0.2		2.0	
IM10	Fine	Moderate	07:35	7.6	Surface	1.0	0.3	1	23.1	23.1	8.3	8.3	20.7	20.7	94.0	94.0	7.1	7.1	5.2	6.2	5	7	85	88	822408	809796	<0.2	<0.2	1.7	1.8
						1.0	0.3	1	23.1		8.3		20.7		94.0		7.1		5.6		4		86				<0.2		1.8	
					Middle	3.8	0.4	327	23.1	23.1	8.3	8.3	23.5	23.5	95.0	95.1	7.1		6.2		5		88				<0.2		1.8	
						3.8	0.5	327	23.1		8.3		23.5		95.1		7.1		6.4		5		87				<0.2		1.8	
					Bottom	6.6	0.4	303	23.2	23.2	8.3	8.3	25.4	25.4	95.5	95.5	7.1	7.1	7.0		11		90				<0.2		1.6	
						6.6	0.4	308	23.2		8.3		25.5		95.5		7.1		7.0		10		89				<0.2		1.8	
IM11	Fine	Moderate	07:24	7.4	Surface	1.0	0.3	293	23.2	23.2	8.4	8.4	26.2	26.2	95.2	95.2	7.0	7.0	7.6	7.2	5	6	86	88	822065	811474	<0.2	<0.2	1.9	2.1
						1.0	0.4	298	23.2		8.4		26.2		95.2		7.0		8.8		4		85				<0.2		2.0	
					Middle	3.7	0.3	285	23.2	23.2	8.4	8.4	26.3	26.3	95.8	95.9	7.0		7.3		6		88				<0.2		2.2	
						3.7	0.3	296	23.2		8.4		26.3		96.0		7.1		7.6		6		87				<0.2		2.0	
					Bottom	6.4	0.2	256	23.1	23.1	8.4	8.4	26.6	26.6	95.1	95.1	7.0	7.0	5.9		6		91				<0.2		2.2	
						6.4	0.2	277	23.1		8.4		26.6		95.1		7.0		5.9		6		90				<0.2		2.0	
IM12	Fine	Moderate	07:19	8.2	Surface	1.0	0.6	270	23.3	23.3	8.4	8.4	26.1	26.1	95.7	95.7	7.0	7.0	6.6	7.0	4	8	85	87	821448	812025	<0.2	<0.2	1.9	1.8
						1.0	0.6	280	23.3		8.4		26.1		95.6		7.0		6.8		5		84				<0.2		1.8	
					Middle	4.1	0.5	267	23.4	23.4	8.4	8.4	25.7	25.7	95.3	95.3	7.0		6.6		8		87				<0.2		1.8	
						4.1	0.6	271	23.4		8.4		25.7		95.3		7.0		6.9		8		89				<0.2		1.8	
					Bottom	7.2	0.3	251	23.4	23.5	8.4	8.4	26.2	26.2	96.0	96.2	7.0	7.0	7.6		12		90				<0.2		1.9	
						7.2	0.3	253	23.5		8.4		26.2		96.3		7.0		7.6		11		89				<0.2		1.8	
SR1A	Fine	Moderate	07:01	4.8	Surface	1.0	-	-	23.3	23.3	8.3	8.3	24.2	24.2	95.3	95.3	7.1	7.1	5.3	5.7	<2	3	-	-	819977	812661	-	-	-	-
						1.0	-	-	23.3		8.3		24.2		95.3		7.1		5.5		<2		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	23.3	23.3	8.4	8.4	25.7	25.6	95.7	95.8	7.1	7.1	5.9		4		-				-		-	
						3.8	-	-	23.3		8.4		25.6		95.8		7.1		6.0		5		-				-		-	
SR2	Fine	Moderate	06:48	4.4	Surface	1.0	0.7	312	23.2	23.2	8.4	8.4	25.6	25.6	95.8	95.8	7.1	7.1	4.0	3.6	2	3	87	88	821441	814144	<0.2	<0.2	1.6	1.7
						1.0	0.8	319	23.2		8.4		25.6		95.8		7.1		4.0		2		86				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.4	298	23.2	23.2	8.4	8.4	25.7	25.7	95.9	95.9	7.1	7.1	3.1		4		89				<0.2		1.7	
						3.4	0.4	324	23.2		8.4		25.7		95.9		7.1		3.1		4		90				<0.2		1.7	
SR3	Fine	Moderate	07:55	8.1	Surface	1.0	0.3	87	23.2	23.2	8.4	8.4	21.7	21.7	95.1	95.1	7.2	7.2	9.2	7.4	5	7	-	-	822169	807591	-	-	-	-
						1.0	0.3	94	23.2		8.4		21.7		95.1		7.2		9.5		5		-				-		-	
					Middle	4.1	0.6	91	23.2	23.2	8.4	8.4	23.1	23.1	95.0	95.0	7.1		6.3		7		-				-		-	
						4.1	0.6	93	23.2		8.4		23.1		95.0		7.1		6.4		7		-				-		-	
					Bottom	7.1	0.5	70	23.2	23.2	8.4	8.4	23.5	23.5	95.2	95.3	7.1	7.1	6.6		8		-				-		-	
						7.1	0.6	71	23.2		8.4		23.5		95.4		7.1		6.2		8		-				-		-	
SR4A	Sunny	Moderate	06:34	9.6	Surface	1.0	0.0	34	23.2	23.2	8.2	8.2	25.6	25.6	92.4	92.4	6.8	6.8	7.0	8.4	9	9	-	-	817185	807812	-	-	-	-
						1.0	0.0	36	23.2		8.2		25.6		92.4		6.8		6.7		10		-				-		-	
					Middle	4.8	0.0	54	23.1	23.1	8.2	8.2	25.3	25.2	92.1	92.2	6.8		7.8		9		-				-		-	
						4.8	0.0	54	23.1		8.2		25.2		92.2		6.8		7.8		9		-				-		-	
					Bottom	8.6	0.1	51	23.1	23.1	8.2	8.2	25.5	25.5	92.2	92.2	6.8	6.8	10.7		8		-				-		-	
						8.6	0.1	51	23.1		8.2		25.5		92.2		6.8		10.6		9		-				-		-	
SR5A	Sunny	Moderate	06:18	4.2	Surface	1.0	0.1	207	23.6	23.6	8.2	8.2	27.0	27.0	92.1	92.2	6.7	6.7	2.7	8.6	3	3	-	-	816586	810678	-	-	-	-
						1.0	0.1	207	23.6		8.2		27.0		92.2		6.7		2.6		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.0	242	23.5	23.5	8.2	8.2	26.9	26.9	92.2	92.2	6.7	6.7	14.5		2		-				-		-	
						3.2	0.0	261	23.5		8.2		26.9		92.2		6.7		14.5		3		-				-		-	
SR6	Sunny	Moderate	05:54	4.6	Surface	1.0	0.1	199	23.3	23.3	8.1	8.1	25.5	25.5	91.2	91.2	6.7	6.7	3.3	3.3	3	3	-	-	817915	814680	-	-	-	-
						1.0	0.1	200	23.3		8.1		25.5		91.2		6.7		3.3		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	211	23.3	23.3	8.1	8.1	25.7	25.7	91.4	91.5	6.7	6.7	3.4		3		-				-		-	
						3.6	0.1	222	23.3		8.1		25.7		91.6		6.7		3.3		3		-				-		-	
SR7	Fine	Moderate	06:03	16.7	Surface	1.0	0.1	339	23.0	23.0	8.3	8.3	27.3	27.3	93.6	93.6	6.9	6.9	4.5	3.2	<2	2	-	-	823649	823726	-	-	-	-
						1.0	0.1	312	23.0		8.3		27.3		93.6		6.9		4.5		<2		-				-		-	
					Middle	8.4	0.3	192	22.9	22.9	8.3	8.3	28.4	28.4	93.3	93.3	6.8		2.8		2		-				-		-	
						8.4	0.4	196	22.9		8.3		28.4		93.3		6.8		2.8		3		-				-		-	
					Bottom	15.7	0.1	215	22.9	22.9	8.3	8.3	28.9	28.9	93.7	93.8	6.8	6.8	2.3		<2		-				-		-	
						15.7	0.1	216	22.9		8.3		28.9		93.9		6.8		2.3		<2		-				-		-	
SR8	Fine	Moderate	07:10	4.7	Surface	1.0	-	-	23.4	23.4	8.3	8.3	24.2	24.2	96.2	96.3	7.1	7.1	4.8	5.1	3	5	-	-	820368	811626	-	-	-	-
						1.0	-	-	23.3		8.3		24.2		96.3		7.1		5.0		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	23.3	23.3	8.3	8.3	25.3	25.3	96.4	96.4	7.1	7.1	5.4		6		-				-		-	
						3.7	-	-	23.3		8.3		25.3		96.4		7.1		5.4		7		-				-		-	

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 April 19 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	15:00	8.3	Surface	1.0	0.1	208	25.5	25.5	8.4	8.4	23.7	23.7	107.1	107.2	7.7	7.7	3.1	4.3	4	4	85	88	815637	804227	<0.2	<0.2	1.6	1.6
						1.0	0.1	200	25.4		8.4		23.7		107.2		7.7		3.6		4		86				<0.2		1.6	
					Middle	4.2	0.1	178	24.4	24.4	8.4	8.4	24.3	24.3	105.1	105.1	7.7		6.8		4		88				<0.2		1.6	
						4.2	0.1	180	24.4		8.4		24.3		105.0		7.6		6.7		3		89				<0.2		1.5	
					Bottom	7.3	0.1	175	24.8	24.8	8.4	8.4	24.9	24.9	104.1	104.1	7.5	7.5	2.7		4		90				<0.2		1.5	
						7.3	0.1	185	24.8		8.4		24.9		104.1		7.5		2.7		5		90				<0.2		1.6	
C2	Sunny	Moderate	13:41	14.3	Surface	1.0	0.3	122	24.1	24.1	8.1	8.1	22.9	22.9	91.3	91.1	6.7	6.7	8.4	9.9	3	4	90	93	825697	806956	<0.2	<0.2	2.6	2.5
						1.0	0.3	130	24.1		8.1		23.0		90.9		6.7		8.5		3		90				<0.2		2.5	
					Middle	7.2	0.3	123	24.0	24.0	8.1	8.1	24.0	24.0	89.7	89.9	6.6		9.8		4		93				<0.2		2.6	
						7.2	0.3	124	24.0		8.1		24.0		90.0		6.6		9.9		5		93				<0.2		2.5	
					Bottom	13.3	0.1	121	24.0	24.0	8.1	8.1	24.6	24.6	90.8	90.8	6.6	6.7	11.3		4		95				<0.2		2.4	
						13.3	0.2	132	24.0		8.1		24.6		90.8		6.7		11.2		5		95				<0.2		2.4	
C3	Sunny	Moderate	15:24	14.1	Surface	1.0	0.4	68	24.3	24.3	8.2	8.2	26.9	26.9	97.0	97.0	7.0	6.8	7.5	7.5	4	4	89	93	822111	817814	<0.2	<0.2	1.6	1.5
						1.0	0.4	68	24.3		8.2		26.9		97.0		7.0		7.5		4		90				<0.2		1.6	
					Middle	7.1	0.1	168	23.3	23.3	8.3	8.3	30.2	30.2	92.2	92.3	6.6		7.4		4		92				<0.2		1.6	
						7.1	0.1	169	23.3		8.3		30.2		92.3		6.6		7.4		3		94				<0.2		1.6	
					Bottom	13.1	0.1	51	23.2	23.2	8.1	8.1	30.6	30.6	92.0	92.1	6.6	6.6	7.5		3		95				<0.2		1.4	
						13.1	0.1	52	23.2		8.1		30.6		92.1		6.6		7.4		4		96				<0.2		1.4	
IM1	Cloudy	Moderate	14:48	5.4	Surface	1.0	0.3	258	24.6	24.6	8.4	8.4	23.3	23.2	104.5	104.5	7.6	7.6	2.5	2.5	4	4	85	88	817970	807118	<0.2	<0.2	1.8	1.8
						1.0	0.3	255	24.6		8.4		23.2		104.5		7.6		2.6		4		86				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	250	24.6	24.6	8.4	8.4	23.7	23.7	104.6	104.6	7.6	7.6	2.4		3		90				<0.2		1.8	
						4.4	0.1	252	24.6		8.4		23.7		104.5		7.6		2.4		4		89				<0.2		1.7	
IM2	Cloudy	Moderate	14:42	7.3	Surface	1.0	0.4	235	24.6	24.6	8.4	8.4	22.3	22.3	103.3	103.4	7.6	7.6	2.9	2.7	4	4	85	88	818163	806186	<0.2	<0.2	1.7	1.7
						1.0	0.4	237	24.6		8.4		22.3		103.4		7.6		2.9		3		85				<0.2		1.8	
					Middle	3.7	0.2	201	24.5	24.5	8.4	8.4	22.4	22.4	103.5	103.5	7.6		2.6		4		88				<0.2		1.7	
						3.7	0.2	201	24.5		8.4		22.4		103.4		7.6		2.6		4		90				<0.2		1.7	
					Bottom	6.3	0.1	247	24.4	24.4	8.4	8.4	24.1	24.1	103.1	103.1	7.5	7.5	2.6		4		89				<0.2		1.7	
						6.3	0.1	229	24.4		8.4		24.1		103.0		7.5		2.7		4		90				<0.2		1.7	
IM3	Cloudy	Moderate	14:36	7.7	Surface	1.0	0.5	237	24.8	24.8	8.4	8.4	22.1	22.1	103.5	103.5	7.6	7.6	3.7	3.5	4	4	85	88	818766	805597	<0.2	<0.2	1.6	1.6
						1.0	0.6	238	24.7		8.4		22.1		103.5		7.6		3.8		3		85				<0.2		1.6	
					Middle	3.9	0.3	229	24.5	24.5	8.4	8.4	22.3	22.3	103.1	103.0	7.6		3.3		4		90				<0.2		1.6	
						3.9	0.3	230	24.5		8.4		22.3		102.9		7.6		3.4		4		89				<0.2		1.5	
					Bottom	6.7	0.1	246	24.3	24.3	8.4	8.4	25.7	25.7	102.4	102.4	7.4	7.4	3.7		3		90				<0.2		1.6	
						6.7	0.1	228	24.3		8.4		25.7		102.3		7.4		3.4		3		90				<0.2		1.6	
IM4	Cloudy	Moderate	14:27	7.5	Surface	1.0	0.5	213	24.7	24.7	8.4	8.4	22.5	22.5	103.1	103.1	7.5	7.5	5.5	5.1	5	5	85	88	819720	804598	<0.2	<0.2	1.9	1.8
						1.0	0.5	213	24.7		8.4		22.5		103.1		7.5		5.5		4		84				<0.2		1.8	
					Middle	3.8	0.4	168	24.7	24.7	8.4	8.4	22.3	22.3	103.0	103.0	7.5		5.6		4		89				<0.2		1.9	
						3.8	0.4	155	24.7		8.4		22.3		102.9		7.5		5.5		5		88				<0.2		1.7	
					Bottom	6.5	0.4	207	24.7	24.7	8.4	8.4	23.6	23.6	102.8	102.8	7.5	7.5	4.2		6		90				<0.2		1.9	
						6.5	0.4	223	24.7		8.4		23.6		102.7		7.5		4.1		5		90				<0.2		1.8	
IM5	Cloudy	Moderate	14:16	7.4	Surface	1.0	0.6	227	24.7	24.7	8.4	8.4	23.5	23.5	103.8	103.8	7.6	7.6	5.1	3.9	8	6	84	88	820722	804887	<0.2	<0.2	1.8	1.8
						1.0	0.6	241	24.7		8.4		23.5		103.8		7.6		5.2		7		85				<0.2		1.8	
					Middle	3.7	0.5	215	24.7	24.7	8.4	8.4	23.6	23.6	103.8	103.8	7.5		3.5		5		88				<0.2		1.8	
						3.7	0.5	226	24.7		8.4		23.6		103.8		7.5		3.5		6		90				<0.2		1.8	
					Bottom	6.4	0.4	204	24.8	24.8	8.4	8.4	23.7	23.7	103.7	103.7	7.5	7.5	3.3		5		90				<0.2		1.7	
						6.4	0.4	218	24.8		8.4		23.7		103.6		7.5		3.1		5		90				<0.2		1.8	
IM6	Cloudy	Moderate	14:08	7.6	Surface	1.0	0.1	271	24.5	24.5	8.4	8.4	24.0	24.0	102.5	102.5	7.5	7.5	6.3	7.2	6	6	84	88	821059	805813	<0.2	<0.2	1.7	1.7
						1.0	0.1	281	24.5		8.4		24.0		102.5		7.5		6.3		7		85				<0.2		1.8	
					Middle	3.8	0.1	210	24.6	24.6	8.4	8.4	23.9	23.9	102.7	102.8	7.5		7.1		5		89				<0.2		1.7	
						3.8	0.1	217	24.6		8.4		23.9		102.8		7.5		7.4		6		88				<0.2		1.7	
					Bottom	6.6	0.2	242	24.6	24.6	8.4	8.4	24.0	24.0	102.8	102.8	7.5	7.5	8.2		5		90				<0.2		1.7	
						6.6	0.2	245	24.6		8.4		24.0		102.8		7.5		8.2		6		90				<0.2		1.8	
IM7	Cloudy	Moderate	13:56	8.3	Surface	1.0	0.5	256	24.5	24.6	8.4	8.4	23.0	23.0	101.7	101.8	7.4	7.5	5.4	4.1	5	5	85	88	821358	806829	<0.2	<0.2	1.8	1.9
						1.0	0.6	259	24.6		8.4		22.9		101.8		7.4		5.4		5		84				<0.2		1.9	
					Middle	4.2	0.7	254	24.7	24.7	8.4	8.4	23.0	22.9	102.3	102.4	7.5		3.1		6		90				<0.2		1.9	
						4.2	0.8	256	24.7		8.4		22.9		102.4		7.5		3.0		5		89				<0.2		1.9	
					Bottom	7.3	0.5	247	24.7	24.7	8.4	8.4	23.0	23.0	102.5	102.5	7.5	7.5	3.8		5		90				<0.2		1.9	
						7.3	0.5	241	24.7		8.4		23.0		102.4		7.5		3.9		6		90				<0.2		1.8	
IM8	Sunny	Moderate	14:10	8.5	Surface	1.0	0.3	264	24.2	24.2	8.1	8.1	23.1	23.1	95.7	95.9	7.0	7.0	9.4	12.2	4	4	90	92	821831	808116	<0.2	<0.2	2.3	2.4
						1.0	0.3	267	24.2		8.1		23.1		96.1		7.1		9.6		4		90				<0.2		2.4	
					Middle	4.3	0.4	280	24.1	24.1	8.2	8.2	24.8	24.8	95.8	95.9	7.0		13.1		4		93				<0.2		2.4	
						4.3	0.5	285	24.1		8.2		24.9		95.9		7.0		13.0		3		93				<0.2		2.4	
					Bottom	7.5	0.3	280	24.0	24.0	8.2	8.2	25.8	25.8	95.6	95.7	6.9	6.9	14.1		5		94				<0.2		2.4	
						7.5	0.3	285	24.0		8.2		25.8		95.7		6.9		14.2		5		94				<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 09 April 19 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	14:16	7.9	Surface	1.0	0.4	227	24.2	24.2	8.1	8.1	23.2	23.2	95.1	95.1	7.0	7.0	11.1	14.6	5	5	89	92	822094	808791	<0.2	<0.2	2.3	2.2
						1.0	0.4	201	24.2		8.1		23.2		95.0		7.0		11.2		5		89				<0.2		2.2	
					Middle	4.0	0.5	176	24.0	24.0	8.2	8.1	25.8	25.8	95.0	94.9	6.9		15.6		5		92				<0.2		2.2	
						4.0	0.5	179	24.0		8.1		25.8		94.8		6.9		16.3		5		93				<0.2		2.2	
					Bottom	6.9	0.4	181	24.0	24.0	7.9	7.9	25.9	25.9	95.0	95.0	6.9	6.9	16.9		4		95				<0.2		2.1	
						6.9	0.4	182	24.0		7.9		25.9		94.9		6.9		16.7		5		95				<0.2		2.2	
IM10	Sunny	Moderate	14:22	8.0	Surface	1.0	0.5	188	24.2	24.1	8.1	8.1	23.7	23.8	91.6	91.7	6.7	6.7	9.2	9.4	5	5	89	93	822368	809813	<0.2	<0.2	2.3	2.2
						1.0	0.5	188	24.1		8.1		23.8		91.7		6.7		9.3		6		90				<0.2		2.1	
					Middle	4.0	0.4	186	24.1	24.1	8.1	8.1	24.2	24.2	91.5	91.4	6.7		9.4		5		92				<0.2		2.2	
						4.0	0.4	186	24.1		8.1		24.2		91.2		6.7		9.4		5		94				<0.2		2.2	
					Bottom	7.0	0.1	180	24.1	24.1	7.6	7.6	25.4	25.4	91.9	92.0	6.7	6.7	9.4		4		96				<0.2		2.2	
						7.0	0.1	186	24.1		7.6		25.4		92.0		6.7		9.4		5		96				<0.2		2.1	
IM11	Sunny	Moderate	14:30	8.9	Surface	1.0	0.3	160	24.5	24.5	8.1	8.1	23.5	23.5	95.4	95.4	7.0	6.9	8.5	8.7	6	6	89	93	822045	811457	<0.2	<0.2	2.2	2.1
						1.0	0.3	163	24.5		8.1		23.5		95.3		7.0		8.6		5		89				<0.2		2.2	
					Middle	4.5	0.3	151	24.3	24.3	8.1	8.0	25.3	25.4	94.5	94.4	6.8		8.8		6		93				<0.2		2.2	
						4.5	0.3	152	24.3		8.0		25.4		94.3		6.8		8.7		6		93				<0.2		2.1	
					Bottom	7.9	0.2	164	24.3	24.3	7.9	8.0	25.7	25.7	95.0	95.0	6.9	6.9	8.7		7		95				<0.2		1.9	
						7.9	0.2	165	24.3		8.0		25.7		95.0		6.9		8.8		6		96				<0.2		2.1	
IM12	Sunny	Moderate	14:36	9.0	Surface	1.0	0.2	85	24.4	24.4	8.2	8.2	25.8	25.7	93.5	93.5	6.8	6.7	8.7	9.0	6	5	89	93	821442	812029	<0.2	<0.2	1.9	1.9
						1.0	0.2	89	24.5		8.2		25.6		93.5		6.7		8.7		5		90				<0.2		2.0	
					Middle	4.5	0.2	112	23.9	23.9	8.2	8.2	26.5	26.5	91.4	91.4	6.6		8.9		5		93				<0.2		1.8	
						4.5	0.2	113	23.9		8.2		26.5		91.4		6.6		8.9		4		93				<0.2		1.9	
					Bottom	8.0	0.2	129	23.8	23.8	7.5	7.5	27.0	27.0	91.4	91.5	6.6	6.6	9.3		4		95				<0.2		1.8	
						8.0	0.3	139	23.8		7.5		27.0		91.5		6.6		9.3		5		96				<0.2		1.8	
SR1A	Sunny	Calm	14:58	4.9	Surface	1.0	-	-	24.3	24.2	8.2	8.2	25.8	25.8	94.2	94.1	6.8	6.8	8.4	8.4	8	8	-	-	819974	812657	-	-	-	-
						1.0	-	-	24.2		8.2		25.8		93.9		6.8		8.4		8		-				-		-	
					Middle	2.5	-	-	-	-	-	-		-	-	-	-		-			8		-				-		-	
						2.5	-	-	-		-				-		-		-		-		-				-		-	
					Bottom	3.9	-	-	24.2	24.2	8.2	8.2	25.8	25.8	93.6	93.5	6.8	6.8	8.4		8		-				-		-	
						3.9	-	-	24.2		8.2		25.8		93.4		6.8		8.4		8		-				-		-	
SR2	Sunny	Moderate	15:10	5.7	Surface	1.0	0.3	49	24.3	24.3	8.1	8.1	25.8	25.8	93.3	93.2	6.7	6.7	8.5	8.7	5	6	88	91	821480	814161	<0.2	<0.2	1.8	1.7
						1.0	0.3	51	24.3		8.2		25.8		93.0		6.7		8.5		6		89				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.7	0.2	32	24.0	24.0	8.2	8.2	26.3	26.3	92.2	92.1	6.7	6.7	8.8		5		92				<0.2		1.8	
						4.7	0.2	32	24.0		8.2		26.3		92.0		6.7		8.8		6		93				<0.2		1.7	
SR3	Sunny	Moderate	14:05	9.5	Surface	1.0	0.3	61	24.4	24.4	8.1	8.1	22.8	22.8	96.0	96.1	7.1	7.1	8.4	9.7	6	5	-	-	822159	807550	-	-	-	-
						1.0	0.3	63	24.4		8.1		22.8		96.1		7.1		8.4		6		-				-		-	
					Middle	4.8	0.3	87	24.3	24.3	8.1	8.1	23.4	23.4	95.5	95.5	7.0		8.8		6		-				-		-	
						4.8	0.3	91	24.3		8.1		23.5		95.5		7.0		8.8		4		-				-		-	
					Bottom	8.5	0.5	66	24.2	24.2	8.2	8.2	25.6	25.6	95.8	95.8	7.0	7.0	12.0		4		-				-		-	
						8.5	0.6	69	24.2		8.3		25.6		95.8		7.0		12.0		4		-				-		-	
SR4A	Cloudy	Calm	15:11	8.7	Surface	1.0	0.5	80	24.7	24.7	8.4	8.4	24.8	24.8	104.7	104.7	7.6	7.5	3.1	4.1	5	6	-	-	817186	807801	-	-	-	-
						1.0	0.5	82	24.7		8.4		24.8		104.6		7.6		3.1		5		-				-		-	
					Middle	4.4	0.4	69	24.8	25.4	8.4	8.4	24.7	24.5	103.1	104.8	7.3		4.0		6		-				-		-	
						4.4	0.4	71	26.0		8.4		24.4		106.5		7.5		4.0		6		-				-		-	
					Bottom	7.7	0.4	89	24.7	24.7	8.4	8.4	25.0	25.0	104.3	104.3	7.5	7.5	5.3		6		-				-		-	
						7.7	0.4	96	24.7		8.4		25.0		104.2		7.5		4.9		5		-				-		-	
SR5A	Cloudy	Calm	15:24	4.6	Surface	1.0	0.2	73	25.1	25.2	8.4	8.4	24.5	24.5	101.6	101.7	7.3	7.3	5.0	4.3	4	5	-	-	816604	810705	-	-	-	-
						1.0	0.2	74	25.2		8.4		24.5		101.8		7.3		5.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.4	98	25.4	25.4	8.4	8.4	24.8	24.8	102.4	102.4	7.3	7.3	3.8		6		-				-		-	
						3.6	0.4	104	25.4		8.4		24.8		102.4		7.3		3.4		6		-				-		-	
SR6	Cloudy	Calm	15:52	4.2	Surface	1.0	0.2	78	24.9	24.9	8.4	8.4	24.5	24.5	102.9	102.9	7.4	7.4	6.3	6.5	4	5	-	-	817881	814673	-	-	-	-
						1.0	0.2	82	24.9		8.4		24.5		102.9		7.4		6.3		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	95	24.7	24.7	8.4	8.4	24.4	24.4	102.5	102.4	7.4	7.4	6.8		6		-				-		-	
						3.2	0.1	99	24.7		8.4		24.3		102.3		7.4		6.8		6		-				-		-	
SR7	Sunny	Moderate	15:53	15.8	Surface	1.0	0.6	68	23.5	23.5	8.1	8.1	29.8	29.8	91.9	91.9	6.6	6.6	7.8	7.9	5	7	-	-	823637	823729	-	-	-	-
						1.0	0.6	73	23.5		8.1		29.9		91.8		6.6		8.0		6		-				-		-	
					Middle	7.9	0.2	43	23.3	23.3	8.2	8.2	30.3	30.3	90.4	90.4	6.5		8.0		7		-				-		-	
						7.9	0.3	46	23.3		8.2		30.3		90.4		6.5		8.0		8		-				-		-	
					Bottom	14.8	0.3	20	23.3	23.3	8.2	8.2	30.4	30.4	90.6	90.6	6.5	6.5	7.8		7		-				-		-	
						14.8	0.3	21	23.3		8.2		30.4		90.6		6.5		7.8		6		-				-		-	
SR8	Sunny	Calm	14:47	5.4	Surface	1.0	-	-	24.3	24.2	8.3	8.3	25.9	25.9	93.2	93.0	6.7	6.7	8.4	8.8	4	4	-	-	820413	811614	-	-	-	-
						1.0	-	-	24.2		8.3		25.9		92.8		6.7		8.4		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	-	-	24.0	24.0	8.3	8.3	26.1	26.1	93.0	93.2	6.7	6.8	9.1		5		-				-		-	
						4.4	-	-	24.0		8.3		26.1		93.4		6.8		9.1		4		-				-		-	

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 09 April 19 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	09:46	8.8	Surface	1.0	0.5	54	24.1	24.1	8.4	8.4	25.1	25.1	101.6	101.7	7.4	7.4	4.1	4.9	6	7	85	88	815609	804240	<0.2	<0.2	1.7	1.6
						1.0	0.5	55	24.1		8.4		25.1		101.7		7.4		4.1		6		85				<0.2		1.7	
					Middle	4.4	0.4	58	24.1	24.1	8.4	8.4	25.2	25.2	101.6	101.6	7.4		6.5		7		89				<0.2		1.6	
						4.4	0.5	63	24.1		8.4		25.2		101.6		7.4		6.5		6		88				<0.2		1.4	
					Bottom	7.8	0.3	55	24.2	24.2	8.4	8.4	25.5	25.5	100.5	100.5	7.3	7.3	4.0		7		90				<0.2		1.5	
						7.8	0.3	57	24.2		8.4		25.5		100.4		7.3		4.1		7		90				<0.2		1.4	
C2	Cloudy	Moderate	10:28	12.8	Surface	1.0	0.4	343	24.2	24.2	8.1	8.1	22.6	22.5	91.6	91.6	6.8	6.7	7.9	11.2	6	7	89	93	825700	806931	<0.2	<0.2	2.5	2.5
						1.0	0.4	352	24.2		8.1		22.4		91.6		6.8		8.0		7		90				<0.2		2.5	
					Middle	6.4	0.4	355	24.0	24.0	7.8	7.8	24.2	24.2	88.8	88.8	6.5		11.4		7		93				<0.2		2.5	
						6.4	0.5	327	24.0		7.8		24.2		88.8		6.5		11.5		7		94				<0.2		2.6	
					Bottom	11.8	0.3	353	23.9	23.9	7.9	7.9	25.5	25.5	89.6	89.7	6.5	6.5	14.2		6		95				<0.2		2.4	
						11.8	0.3	325	23.9		7.9		25.5		89.7		6.5		14.2		7		96				<0.2		2.3	
C3	Cloudy	Moderate	08:46	12.0	Surface	1.0	0.7	257	24.0	24.0	8.1	8.1	25.5	25.5	90.9	90.9	6.6	6.5	8.4	10.8	7	6	89	92	822105	817782	<0.2	<0.2	1.8	1.9
						1.0	0.7	279	24.0		8.1		25.5		90.9		6.6		8.5		6		89				<0.2		1.8	
					Middle	6.0	0.6	255	23.8	23.7	8.1	8.1	26.7	26.7	88.7	88.7	6.4		10.3		5		92				<0.2		1.9	
						6.0	0.7	278	23.7		8.1		26.7		88.7		6.4		10.4		6		93				<0.2		1.8	
					Bottom	11.0	0.6	272	23.4	23.4	7.9	7.9	29.3	29.3	87.9	88.0	6.3	6.3	13.6		5		95				<0.2		2.1	
						11.0	0.6	273	23.4		7.9		29.3		88.0		6.3		13.8		4		95				<0.2		1.9	
IM1	Cloudy	Moderate	09:57	5.6	Surface	1.0	0.8	33	24.3	24.3	8.4	8.4	25.2	25.2	101.5	101.5	7.4	7.4	2.8	2.5	3	4	85	87	817925	807151	<0.2	<0.2	1.6	1.6
						1.0	0.9	33	24.3		8.4		25.2		101.5		7.4		2.9		4		85				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.4	8	24.4	24.4	8.4	8.4	25.3	25.3	101.6	101.6	7.4	7.4	2.1		5		89				<0.2		1.6	
						4.6	0.4	8	24.4		8.4		25.3		101.6		7.4		2.0		4		88				<0.2		1.6	
IM2	Cloudy	Moderate	10:03	7.2	Surface	1.0	0.2	6	24.4	24.4	8.4	8.4	25.4	25.4	102.8	102.8	7.4	7.4	5.5	5.0	5	4	86	88	818151	806179	<0.2	<0.2	1.7	1.7
						1.0	0.2	6	24.3		8.4		25.4		102.8		7.4		5.8		5		85				<0.2		1.6	
					Middle	3.6	0.1	27	24.2	24.2	8.4	8.4	25.2	25.2	102.4	102.4	7.4		6.2		3		87				<0.2		1.7	
						3.6	0.1	29	24.2		8.4		25.2		102.3		7.4		6.0		3		88				<0.2		1.6	
					Bottom	6.2	0.1	300	24.3	24.3	8.4	8.4	24.8	24.8	102.5	102.5	7.4	7.4	3.2		4		90				<0.2		1.7	
						6.2	0.1	322	24.3		8.4		24.8		102.4		7.4		3.1		3		90				<0.2		1.6	
IM3	Cloudy	Moderate	10:08	7.6	Surface	1.0	0.5	351	24.1	24.1	8.4	8.4	24.7	24.7	102.0	101.9	7.4	7.4	3.9	4.9	5	4	85	88	818762	805592	<0.2	<0.2	1.7	1.7
						1.0	0.5	323	24.1		8.4		24.7		101.8		7.4		3.9		4		83				<0.2		1.7	
					Middle	3.8	0.4	9	24.5	24.5	8.4	8.4	24.8	24.8	101.9	101.9	7.4		4.1		4		88				<0.2		1.7	
						3.8	0.5	9	24.5		8.4		24.8		101.9		7.4		4.1		4		90				<0.2		1.7	
					Bottom	6.6	0.2	354	24.6	24.6	8.4	8.4	25.2	25.2	101.6	101.6	7.3	7.3	6.6		4		90				<0.2		1.8	
						6.6	0.2	326	24.6		8.4		25.2		101.5		7.3		6.6		4		89				<0.2		1.7	
IM4	Cloudy	Moderate	10:15	7.4	Surface	1.0	0.4	34	24.3	24.3	8.4	8.4	24.8	24.8	102.4	102.4	7.4	7.4	5.5	4.4	2	3	85	88	819713	804628	<0.2	<0.2	1.7	1.7
						1.0	0.4	36	24.3		8.4		24.8		102.4		7.4		5.5		3		86				<0.2		1.9	
					Middle	3.7	0.4	22	24.4	24.4	8.4	8.4	24.9	24.9	102.4	102.4	7.4		4.4		3		88				<0.2		1.8	
						3.7	0.4	23	24.4		8.4		24.9		102.4		7.4		4.6		3		89				<0.2		1.7	
					Bottom	6.4	0.3	17	24.4	24.4	8.4	8.4	25.7	25.7	102.4	102.4	7.4	7.4	3.1		4		90				<0.2		1.6	
						6.4	0.3	18	24.4		8.4		25.7		102.3		7.4		3.0		5		90				<0.2		1.6	
IM5	Cloudy	Moderate	10:23	7.6	Surface	1.0	0.6	10	24.7	24.7	8.4	8.4	22.9	22.9	103.5	103.5	7.6	7.6	7.1	4.7	3	4	84	88	820749	804853	<0.2	<0.2	1.6	1.6
						1.0	0.7	10	24.7		8.4		22.9		103.5		7.6		7.0		4		85				<0.2		1.6	
					Middle	3.8	0.5	348	24.7	24.7	8.4	8.4	23.2	23.2	103.4	103.4	7.5		3.8		4		90				<0.2		1.6	
						3.8	0.6	320	24.7		8.4		23.2		103.4		7.5		3.9		4		89				<0.2		1.6	
					Bottom	6.6	0.4	345	24.7	24.7	8.4	8.4	24.4	24.4	103.1	103.1	7.5	7.5	3.3		4		89				<0.2		1.6	
						6.6	0.4	347	24.7		8.4		24.4		103.0		7.5		3.4		4		90				<0.2		1.6	
IM6	Cloudy	Moderate	10:29	7.4	Surface	1.0	0.5	52	24.7	24.7	8.4	8.4	23.4	23.4	103.7	103.8	7.5	7.6	2.9	3.4	5	5	85	88	821051	805847	<0.2	<0.2	1.7	1.7
						1.0	0.5	52	24.7		8.4		23.4		103.8		7.5		2.9		5		85				<0.2		1.8	
					Middle	3.7	0.3	60	24.8	24.8	8.4	8.4	23.5	23.5	103.9	103.9	7.6		2.6		5		88				<0.2		1.7	
						3.7	0.4	64	24.8		8.4		23.5		103.9		7.6		2.6		4		89				<0.2		1.6	
					Bottom	6.4	0.3	70	24.8	24.8	8.4	8.4	24.2	24.2	103.4	103.4	7.5	7.5	4.9		5		90				<0.2		1.6	
						6.4	0.3	72	24.8		8.4		24.2		103.4		7.5		4.7		5		90				<0.2		1.7	
IM7	Cloudy	Moderate	10:34	8.1	Surface	1.0	0.4	68	24.6	24.6	8.4	8.4	23.0	23.0	102.1	102.1	7.5	7.5	6.3	4.7	3	4	85	88	821359	806845	<0.2	<0.2	1.8	1.8
						1.0	0.4	69	24.6		8.4		23.0		102.1		7.5		6.3		3		84				<0.2		1.9	
					Middle	4.1	0.7	54	24.7	24.7	8.4	8.4	22.9	22.9	102.4	102.4	7.5		4.9		4		90				<0.2		1.8	
						4.1	0.7	56	24.7		8.4		22.9		102.4		7.5		4.9		4		88				<0.2		1.6	
					Bottom	7.1	0.5	55	24.8	24.8	8.4	8.4	23.1	23.1	102.7	102.8	7.5	7.5	2.8		4		90				<0.2		1.7	
						7.1	0.6	56	24.8		8.4		23.1		102.9		7.5		2.8		3		89				<0.2		1.8	
IM8	Cloudy	Moderate	10:06	8.6	Surface	1.0	0.1	70	24.1	24.1	8.1	8.1	22.3	22.2	90.9	90.8	6.7	6.7	8.4	8.9	2	3	89	93	821848	808153	<0.2	<0.2	2.3	2.4
						1.0	0.1	70	24.1		8.1		22.2		90.6		6.7		8.4		3		89				<0.2		2.3	
					Middle	4.3	0.2	69	24.0	24.0	7.2	7.2	23.4	23.4	89.9	89.9	6.6		8.8		3		94				<0.2		2.3	
						4.3	0.2	69	24.0		7.3		23.5		89.9		6.6		8.9		3		94				<0.2		2.4	
					Bottom	7.6	0.2	89	24.0	24.0	6.8	6.8	23.8	23.8	90.1	90.2	6.6	6.6	9.4		3		95				<0.2		2.4	
						7.6	0.3	93	24.0		6.9		23.8		90.3		6.6		9.4		4		95				<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**

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Water Quality Monitoring
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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	09:58	7.9	Surface	1.0	0.3	46	24.2	24.2	8.1	8.1	21.5	21.5	93.2	93.2	6.9	6.8	8.6	9.1	3	3	89	92	822115	808829	<0.2	<0.2	2.4	2.4
						1.0	0.3	49	24.2		8.1		21.5		93.1		6.9		8.7		2		90				<0.2		2.4	
					Middle	4.0	0.2	27	24.1	24.1	8.1	8.1	23.7	23.7	91.7	91.8	6.7		9.1		4		92				<0.2		2.4	
						4.0	0.2	29	24.1		8.1		23.7		91.9		6.7		9.1		3		93				<0.2		2.3	
					Bottom	6.9	0.1	27	24.1	24.1	8.1	8.1	23.9	23.9	93.0	93.1	6.8	6.8	9.5		2		94				<0.2		2.4	
						6.9	0.1	27	24.1		8.1		23.9		93.1		6.8		9.5		4		94				<0.2		2.4	
IM10	Cloudy	Moderate	09:51	7.5	Surface	1.0	0.7	315	24.2	24.2	8.1	8.1	24.1	24.1	94.2	94.3	6.9	6.8	13.8	11.6	4	5	90	92	822372	809800	<0.2	<0.2	2.0	2.0
						1.0	0.7	315	24.2		8.1		24.1		94.3		6.9		14.0		4		89				<0.2		2.0	
					Middle	3.8	0.6	308	24.1	24.1	8.1	8.1	24.5	24.5	92.5	92.5	6.8		9.4		5		92				<0.2		2.0	
						3.8	0.7	315	24.1		8.1		24.5		92.4		6.7		9.4		6		92				<0.2		1.9	
					Bottom	6.5	0.5	312	24.1	24.1	8.1	8.1	25.2	25.2	92.3	92.4	6.7	6.7	11.5		6		95				<0.2		1.9	
						6.5	0.5	326	24.1		8.1		25.2		92.4		6.7		11.6		5		96				<0.2		2.0	
IM11	Cloudy	Moderate	09:41	8.3	Surface	1.0	0.6	304	24.1	24.1	7.0	7.0	25.7	25.7	90.9	90.9	6.6	6.6	10.6	14.2	3	4	89	93	822048	811469	<0.2	<0.2	1.8	1.8
						1.0	0.6	317	24.1		7.0		25.7		90.9		6.6		10.7		4		89				<0.2		1.7	
					Middle	4.2	0.5	309	23.9	23.9	7.1	7.1	25.9	25.9	89.4	89.4	6.5		13.9		4		92				<0.2		1.8	
						4.2	0.6	325	23.9		7.1		26.0		89.3		6.5		14.9		4		94				<0.2		2.0	
					Bottom	7.3	0.3	301	23.7	23.7	7.2	7.2	26.8	26.8	89.0	89.0	6.5	6.5	17.7		6		95				<0.2		1.7	
						7.3	0.3	325	23.7		7.2		26.8		89.0		6.5		17.6		5		96				<0.2		1.7	
IM12	Cloudy	Moderate	09:35	8.2	Surface	1.0	0.8	281	24.0	24.0	8.1	8.1	25.8	25.8	91.2	91.2	6.6	6.6	13.2	15.5	10	11	88	92	821453	812061	<0.2	<0.2	1.8	1.8
						1.0	0.8	307	24.0		8.1		25.8		91.2		6.6		13.4		11		89				<0.2		1.6	
					Middle	4.1	0.7	286	24.0	24.0	8.1	8.1	25.9	25.9	90.8	90.9	6.6		16.1		11		93				<0.2		1.8	
						4.1	0.7	297	24.0		8.1		25.9		90.9		6.6		15.8		10		93				<0.2		1.8	
					Bottom	7.2	0.5	286	23.9	23.9	8.1	8.1	26.2	26.2	91.4	91.5	6.6	6.6	17.4		13		95				<0.2		1.8	
						7.2	0.6	287	23.9		8.1		26.2		91.5		6.6		17.1		12		95				<0.2		1.8	
SR1A	Cloudy	Calm	09:16	4.8	Surface	1.0	-	-	24.2	24.2	8.2	8.2	24.3	24.3	93.9	93.8	6.9	6.9	8.2	8.2	3	4	-	-	819971	812656	-	-	-	-
						1.0	-	-	24.2		8.2		24.3		93.6		6.8		8.2		3		-				-		-	
					Middle	2.4	-	-	-	-	-	-		-	-	-	-		-		-		-						-		-	
						2.4	-	-	-		-				-		-		-		-		-						-		-	
					Bottom	3.8	-	-	24.2	24.2	8.2	8.2	24.8	24.8	95.0	95.1	6.9	6.9	8.1		4		-				-		-	
						3.8	-	-	24.2		8.2		24.8		95.2		6.9		8.1		5		-				-		-	
SR2	Cloudy	Moderate	09:04	4.3	Surface	1.0	0.4	340	24.0	24.0	8.2	8.2	25.3	25.3	92.3	92.3	6.7	6.7	11.6	12.2	5	5	89	91	821461	814161	<0.2	<0.2	1.8	1.8
						1.0	0.4	341	24.0		8.2		25.3		92.3		6.7		11.7		4		89				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.3	347	24.0	24.0	8.2	8.2	25.4	25.4	92.8	92.9	6.8	6.8	12.8		5		93				<0.2		1.9	
						3.3	0.4	319	24.0		8.2		25.4		92.9		6.8		12.7		5		93				<0.2		1.8	
SR3	Cloudy	Moderate	10:10	9.1	Surface	1.0	0.1	67	24.1	24.1	8.1	8.1	22.6	22.5	91.5	91.6	6.8	6.7	8.2	8.5	3	3	-	-	822141	807573	-	-	-	-
						1.0	0.1	72	24.1		8.1		22.5		91.6		6.8		8.2		3		-				-		-	
					Middle	4.6	0.2	76	24.0	24.0	8.1	8.1	23.3	23.3	89.9	89.8	6.6		8.5		3		-				-		-	
						4.6	0.2	77	24.0		8.0		23.4		89.7		6.6		8.5		3		-				-		-	
					Bottom	8.1	0.3	85	24.0	24.0	8.1	8.1	23.5	23.5	89.8	89.8	6.6	6.6	8.8		4		-				-		-	
						8.1	0.3	85	24.0		8.1		23.5		89.8		6.6		8.8		3		-				-		-	
SR4A	Cloudy	Calm	09:33	8.4	Surface	1.0	0.0	38	24.4	24.4	8.4	8.4	24.6	24.6	98.9	98.9	7.2	7.2	4.1	3.5	3	4	-	-	817209	807821	-	-	-	-
						1.0	0.0	39	24.4		8.4		24.6		98.9		7.2		4.1		4		-				-		-	
					Middle	4.2	0.0	51	24.4	24.5	8.4	8.4	24.6	24.6	98.8	98.8	7.2		2.8		3		-				-		-	
						4.2	0.0	53	24.5		8.4		24.6		98.8		7.2		2.9		3		-				-		-	
					Bottom	7.4	0.1	59	24.5	24.5	8.3	8.3	24.7	24.7	99.0	99.0	7.2	7.2	3.5		6		-				-		-	
						7.4	0.1	64	24.5		8.3		24.7		99.0		7.2		3.4		5		-				-		-	
SR5A	Cloudy	Calm	09:17	4.3	Surface	1.0	0.4	306	24.6	24.6	8.3	8.3	24.7	24.7	98.0	98.0	7.1	7.1	3.4	4.5	6	6	-	-	816607	810702	-	-	-	-
						1.0	0.4	314	24.6		8.3		24.7		97.9		7.1		3.4		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.3	303	24.6	24.6	8.3	8.3	24.7	24.6	97.6	97.6	7.1	7.1	5.5		6		-				-		-	
						3.3	0.3	320	24.6		8.3		24.6		97.5		7.1		5.5		5		-				-		-	
SR6	Cloudy	Calm	08:39	4.6	Surface	1.0	0.1	206	24.3	24.3	8.3	8.3	24.6	24.6	97.8	97.8	7.1	7.1	3.8	3.7	5	5	-	-	817895	814668	-	-	-	-
						1.0	0.1	211	24.3		8.3		24.6		97.8		7.1		3.9		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	267	24.4	24.4	8.3	8.3	24.7	24.7	97.9	97.9	7.1	7.1	3.5		5		-				-		-	
						3.6	0.1	283	24.4		8.3		24.7		97.9		7.1		3.5		4		-				-		-	
SR7	Cloudy	Moderate	08:18	15.3	Surface	1.0	0.2	291	24.0	24.0	7.7	7.8	25.4	25.4	90.6	90.6	6.6	6.5	7.7	7.8	2	2	-	-	823644	823718	-	-	-	-
						1.0	0.2	292	24.0		7.8		25.4		90.5		6.6		7.7		<2		-				-		-	
					Middle	7.7	0.3	245	23.5	23.5	7.7	7.7	28.8	28.8	87.6	87.6	6.3		7.9		<2		-				-		-	
						7.7	0.3	246	23.5		7.7		28.8		87.6		6.3		7.9		<2		-				-		-	
					Bottom	14.3	0.2	267	23.3	23.3	7.8	7.8	29.7	29.7	87.1	87.2	6.3	6.3	7.9		2		-				-		-	
						14.3	0.2	271	23.3		7.8		29.7		87.2		6.3		7.9		2		-				-		-	
SR8	Cloudy	Calm	09:26	5.2	Surface	1.0	-	-	24.3	24.3	8.2	8.2	24.5	24.5	92.8	92.9	6.8	6.8	9.1	9.4	3	3	-	-	820368	811624	-	-	-	-
						1.0	-	-	24.3		8.2		24.5		92.9		6.8		9.2		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	-	-	24.1	24.2	8.3	8.3	25.9	25.8	93.7	93.9	6.8	6.8	9.6		3		-				-		-	
						4.2	-	-	24.2		8.3		25.8		94.0		6.8		9.6		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 11 April 19 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	Fine	Moderate	16:12	8.8	Surface	1.0	0.3	143	25.0	25.0	8.1	8.1	25.8	25.8	107.0	107.0	7.6	7.6	5.1	5.8	3	3	87	90	815614	804245	<0.2	<0.2	1.3	1.4
						1.0	0.3	144	25.0		8.1		25.8		106.9		7.6		5.1		3		86				<0.2		1.4	
					Middle	4.4	0.3	136	24.9	24.9	8.0	8.0	26.1	26.1	106.3	106.3	7.6		5.0		4		90				<0.2		1.4	
						4.4	0.3	136	24.9		8.0		26.1		106.2		7.6		5.2		2		89				<0.2		1.4	
					Bottom	7.8	0.2	128	25.0	25.0	8.0	8.0	26.4	26.4	103.5	103.4	7.4	7.4	7.0		2		92				<0.2		1.4	
						7.8	0.2	129	25.0		8.0		26.4		103.3		7.4		7.4		4		93				<0.2		1.3	
C2	Cloudy	Moderate	15:20	12.6	Surface	1.0	0.4	115	25.3	25.3	8.4	8.4	19.7	19.7	102.9	102.8	7.6	7.5	1.3	1.1	<2	2	88	92	825702	806934	<0.2	<0.2	2.6	2.4
						1.0	0.4	115	25.2		8.4		19.7		102.6		7.6		1.3		<2		89				<0.2		2.4	
					Middle	6.3	0.6	124	25.0	25.1	8.4	8.4	21.7	21.7	101.4	101.4	7.4		1.2		<2		93				<0.2		2.4	
						6.3	0.6	127	25.1		8.4		21.7		101.4		7.4		1.2		<2		93				<0.2		2.3	
					Bottom	11.6	0.4	138	25.1	25.1	8.4	8.4	22.9	22.9	101.6	101.6	7.4	7.4	0.6		3		95				<0.2		2.5	
						11.6	0.4	156	25.1		8.4		22.9		101.6		7.4		0.7		3		96				<0.2		2.4	
C3	Cloudy	Moderate	17:14	13.5	Surface	1.0	0.1	60	25.1	25.1	8.4	8.4	22.9	22.9	107.0	107.0	7.8	7.7	3.0	3.1	<2	2	89	92	822104	817806	<0.2	<0.2	2.4	2.4
						1.0	0.1	61	25.1		8.4		22.9		106.9		7.7		3.0		<2		89				<0.2		2.6	
					Middle	6.8	0.4	75	25.0	25.0	8.4	8.4	22.7	22.7	105.7	105.5	7.7		3.5		<2		93				<0.2		2.4	
						6.8	0.5	89	24.9		8.4		22.7		105.3		7.7		3.1		<2		93				<0.2		2.3	
					Bottom	12.5	0.2	92	24.6	24.6	8.4	8.4	26.1	26.1	103.8	103.8	7.5	7.5	3.2		2		95				<0.2		2.3	
						12.5	0.2	103	24.6		8.4		26.1		103.7		7.4		3.1		2		95				<0.2		2.2	
IM1	Fine	Moderate	16:00	4.6	Surface	1.0	0.2	234	25.0	25.0	8.0	8.0	24.2	24.2	104.9	104.9	7.6	7.6	4.5	4.5	<2	2	86	89	817932	807122	<0.2	<0.2	2.1	2.0
						1.0	0.2	236	25.0		8.0		24.2		104.8		7.5		4.7		<2		87				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	256	25.2	25.2	8.0	8.0	24.2	24.2	103.1	103.0	7.4	7.4	4.5		2		91				<0.2		2.0	
						3.6	0.2	258	25.2		8.0		24.2		102.9		7.4		4.4		2		92				<0.2		1.9	
IM2	Fine	Moderate	15:54	7.2	Surface	1.0	0.2	218	25.0	25.0	8.1	8.1	24.0	24.0	108.2	108.2	7.8	7.8	4.2	5.0	<2	2	86	88	818183	806152	<0.2	<0.2	2.0	2.0
						1.0	0.2	219	25.0		8.1		24.0		108.1		7.8		4.1		<2		85				<0.2		1.9	
					Middle	3.6	0.3	232	25.0	25.0	8.0	8.0	24.0	24.0	107.9	107.9	7.8		4.3		<2		88				<0.2		2.0	
						3.6	0.3	232	25.0		8.0		24.0		107.8		7.8		4.4		<2		87				<0.2		2.0	
					Bottom	6.2	0.3	214	25.0	25.0	8.0	8.0	24.1	24.1	104.7	104.6	7.6	7.6	6.1		2		90				<0.2		2.0	
						6.2	0.3	222	25.0		8.0		24.1		104.5		7.5		6.7		2		91				<0.2		2.1	
IM3	Fine	Moderate	15:48	7.5	Surface	1.0	0.4	157	24.8	24.8	8.0	8.0	23.7	23.7	106.6	106.6	7.7	7.7	4.5	4.8	<2	2	87	88	818795	805582	<0.2	<0.2	2.0	2.1
						1.0	0.4	148	24.8		8.0		23.7		106.5		7.7		5.0		<2		86				<0.2		2.1	
					Middle	3.8	0.2	134	24.8	24.8	8.0	8.0	23.7	23.7	106.2	106.2	7.7		4.7		<2		87				<0.2		2.1	
						3.8	0.3	144	24.8		8.0		23.7		106.2		7.7		4.8		<2		88				<0.2		2.1	
					Bottom	6.5	0.3	182	24.7	24.7	8.0	8.0	23.9	23.9	104.8	104.6	7.6	7.6	4.9		3		91				<0.2		2.0	
						6.5	0.3	183	24.7		8.0		23.9		104.4		7.6		5.0		3		90				<0.2		2.1	
IM4	Fine	Moderate	15:39	7.8	Surface	1.0	0.4	219	24.8	24.8	8.0	8.0	22.4	22.4	103.1	103.1	7.5	7.6	5.4	6.0	2	3	89	88	819724	804602	<0.2	<0.2	2.2	2.2
						1.0	0.5	219	24.8		8.0		22.4		103.1		7.5		5.5		2		90				<0.2		2.2	
					Middle	3.9	0.4	210	24.8	24.8	8.0	8.0	22.4	22.4	104.3	104.4	7.6		5.7		2		87				<0.2		2.2	
						3.9	0.5	210	24.8		8.0		22.4		104.5		7.6		6.0		2		87				<0.2		2.1	
					Bottom	6.8	0.3	236	24.3	24.3	8.0	8.0	23.4	23.4	104.3	104.2	7.6	7.6	6.6		4		86				<0.2		2.2	
						6.8	0.3	223	24.3		8.0		23.4		104.0		7.6		6.8		4		87				<0.2		2.2	
IM5	Fine	Moderate	15:30	7.7	Surface	1.0	0.8	231	24.4	24.4	8.0	8.0	23.7	23.7	105.1	105.1	7.7	7.7	5.4	6.5	2	3	89	89	820725	804865	<0.2	<0.2	2.2	2.2
						1.0	0.9	231	24.4		8.0		23.7		105.1		7.7		5.6		2		90				<0.2		2.2	
					Middle	3.9	0.6	230	24.5	24.5	8.0	8.0	23.6	23.6	104.7	104.7	7.6		5.9		3		87				<0.2		2.2	
						3.9	0.7	231	24.5		8.0		23.6		104.7		7.6		5.9		3		87				<0.2		2.3	
					Bottom	6.7	0.4	259	24.8	24.8	8.0	8.0	23.6	23.6	103.6	103.6	7.5	7.5	7.7		4		90				<0.2		2.2	
						6.7	0.4	255	24.8		8.0		23.6		103.5		7.5		8.4		5		91				<0.2		2.3	
IM6	Fine	Moderate	15:21	7.4	Surface	1.0	0.4	238	24.8	24.8	8.0	8.0	23.2	23.2	106.8	106.8	7.8	7.8	5.6	5.3	3	3	86	89	821042	805807	<0.2	<0.2	2.3	2.3
						1.0	0.4	240	24.8		8.0		23.2		106.8		7.8		5.6		3		87				<0.2		2.2	
					Middle	3.7	0.2	185	24.8	24.8	8.0	8.0	23.1	23.1	106.8	106.8	7.8		5.2		3		90				<0.2		2.2	
						3.7	0.2	186	24.8		8.0		23.1		106.7		7.8		5.2		3		89				<0.2		2.4	
					Bottom	6.4	0.2	178	24.8	24.8	8.0	8.0	23.3	23.3	105.9	105.8	7.7	7.7	5.0		4		91				<0.2		2.4	
						6.4	0.2	177	24.8		8.0		23.3		105.7		7.7		5.0		4		91				<0.2		2.4	
IM7	Fine	Moderate	15:15	8.4	Surface	1.0	0.1	220	24.8	24.8	8.0	8.0	21.2	21.2	103.3	103.3	7.6	7.6	3.9	4.4	2	2	85	87	821337	806858	<0.2	<0.2	2.3	2.4
						1.0	0.1	230	24.8		8.0		21.2		103.2		7.6		3.9		2		84				<0.2		2.4	
					Middle	4.2	0.3	194	24.8	24.8	8.0	8.0	21.3	21.3	102.9	102.8	7.6		4.9		2		87				<0.2		2.6	
						4.2	0.3	196	24.8		8.0		21.3		102.7		7.6		4.9		2		88				<0.2		2.3	
					Bottom	7.4	0.3	162	25.0	25.1	8.0	8.0	21.8	21.7	100.3	100.2	7.3	7.3	4.5		3		90				<0.2		2.4	
						7.4	0.3	163	25.2		8.0		21.7		100.0		7.3		4.5		3		90				<0.2		2.3	
IM8	Cloudy	Moderate	15:49	8.2	Surface	1.0	0.1	196	25.3	25.4	8.4	8.4	20.5	20.4	104.2	104.2	7.6	7.6	4.5	4.1	3	3	90	93	821823	808153	<0.2	<0.2	2.4	2.4
						1.0	0.1	204	25.4		8.4		20.4		104.2		7.6		4.1		2		90				<0.2		2.3	
					Middle	4.1	0.2	185	25.4	25.4	8.4	8.4	20.9	20.9	103.7	103.7	7.6		3.3		4		93				<0.2		2.4	
						4.1	0.2	187	25.4		8.4		20.9		103.6		7.6		3.5		3		93				<0.2		2.4	
					Bottom	7.2	0.3	178	24.9	24.9	8.4	8.4	21.5	21.4	102.8	102.7	7.5	7.5	4.7		4		95				<0.2		2.3	
						7.2	0.3	181	24.9		8.4		21.4		102.6		7.5		4.5		3		96				<0.2		2.3	

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 11 April 19 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	15:55	7.9	Surface	1.0	0.3	159	25.4	25.4	8.4	8.4	20.5	20.5	105.1	105.0	7.7	7.7	4.2	5.1	2	3	89	93	822085	808831	<0.2	<0.2	2.4	2.4
						1.0	0.3	161	25.3		8.4		20.5		104.9		7.7		4.4		2		90				<0.2		2.4	
					Middle	4.0	0.3	195	25.3	25.3	8.4	8.4	21.4	21.4	104.6	104.6	7.6		8.2		3		93				<0.2		2.3	
						4.0	0.3	201	25.3		8.4		21.4		104.5		7.6		8.2		3		93				<0.2		2.3	
					Bottom	6.9	0.3	188	25.1	25.1	8.4	8.4	22.1	22.1	103.7	103.7	7.6	7.6	3.1		3		95				<0.2		2.4	
						6.9	0.4	189	25.1		8.4		22.1		103.7		7.5		2.8		4		95				<0.2		2.3	
IM10	Cloudy	Moderate	16:02	8.2	Surface	1.0	0.4	153	25.1	25.1	8.4	8.4	21.0	21.0	104.6	104.5	7.7	7.6	4.7	3.8	4	4	89	93	822379	809801	<0.2	<0.2	2.3	2.3
						1.0	0.4	153	25.1		8.4		21.0		104.3		7.6		4.9		5		90				<0.2		2.2	
					Middle	4.1	0.3	169	25.0	25.0	8.4	8.4	21.8	21.8	103.6	103.5	7.6		5.7		4		94				<0.2		2.2	
						4.1	0.3	157	25.0		8.4		21.8		103.3		7.5		5.4		4		94				<0.2		2.4	
					Bottom	7.2	0.2	150	25.4	25.4	8.4	8.4	21.8	21.8	102.6	102.5	7.5	7.5	1.2		4		96				<0.2		2.2	
						7.2	0.2	151	25.4		8.4		21.8		102.4		7.4		1.2		4		96				<0.2		2.2	
IM11	Cloudy	Moderate	16:14	7.1	Surface	1.0	0.1	170	24.9	24.9	8.4	8.4	23.9	23.9	104.4	104.3	7.6	7.5	3.5	2.0	2	2	90	93	822052	811459	<0.2	<0.2	2.4	2.3
						1.0	0.1	165	24.9		8.4		23.9		104.2		7.5		3.3		2		90				<0.2		2.3	
					Middle	3.6	0.1	143	24.8	24.8	8.4	8.4	24.5	24.5	104.2	104.3	7.5		1.4		2		93				<0.2		2.4	
						3.6	0.1	149	24.8		8.4		24.5		104.4		7.5		1.5		2		93				<0.2		2.5	
					Bottom	6.1	0.1	105	26.3	26.3	8.4	8.4	21.1	21.1	107.5	107.4	7.7	7.7	1.1		3		96				<0.2		2.1	
						6.1	0.1	113	26.3		8.4		21.1		107.2		7.7		1.0		3		96				<0.2		2.2	
IM12	Cloudy	Moderate	16:22	9.5	Surface	1.0	0.1	127	24.5	24.5	8.4	8.4	24.8	24.8	100.5	100.4	7.3	7.3	4.8	3.4	2	3	89	92	821455	812064	<0.2	<0.2	2.2	2.3
						1.0	0.1	131	24.5		8.4		24.8		100.3		7.3		4.8		2		89				<0.2		2.3	
					Middle	4.8	0.1	123	24.5	24.6	8.4	8.4	25.3	25.3	99.7	99.9	7.2		3.8		3		92				<0.2		2.3	
						4.8	0.1	128	24.6		8.4		25.3		100.0		7.2		4.1		3		93				<0.2		2.3	
					Bottom	8.5	0.2	151	24.7	24.7	8.4	8.4	25.3	25.3	101.3	101.4	7.3	7.3	1.4		3		95				<0.2		2.4	
						8.5	0.2	162	24.7		8.4		25.3		101.4		7.3		1.4		4		95				<0.2		2.3	
SR1A	Cloudy	Calm	16:43	4.6	Surface	1.0	-	-	25.0	25.0	8.4	8.4	22.5	22.5	104.9	105.0	7.6	7.6	1.2	1.0	2	3	-	-	819974	812661	-	-	-	-
						1.0	-	-	25.0		8.4		22.5		105.0		7.6		1.1		3		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	25.0	25.0	8.4	8.4	22.7	22.7	105.0	105.1	7.6	7.6	0.8		3		-				-		-	
						3.6	-	-	25.0		8.4		22.7		105.1		7.6		0.8		4		-				-		-	
SR2	Cloudy	Moderate	16:55	5.4	Surface	1.0	0.3	159	25.0	25.1	8.4	8.4	22.5	22.5	105.0	105.0	7.6	7.6	1.0	1.4	3	4	88	91	821465	814178	<0.2	<0.2	2.3	2.4
						1.0	0.3	140	25.1		8.4		22.5		105.0		7.6		1.0		3		88				<0.2		2.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	139	25.0	25.0	8.4	8.4	22.6	22.6	105.0	105.0	7.6	7.6	1.7		4		93				<0.2		2.5	
						4.4	0.2	141	25.0		8.4		22.6		105.0		7.6		1.8		4		93				<0.2		2.4	
SR3	Cloudy	Moderate	15:44	8.7	Surface	1.0	0.1	174	25.5	25.5	8.4	8.4	21.0	21.0	103.7	103.8	7.5	7.5	1.5	1.8	3	3	-	-	822156	807569	-	-	-	-
						1.0	0.1	181	25.5		8.4		21.0		103.8		7.5		1.5		3		-				-		-	
					Middle	4.4	0.2	171	26.3	26.3	8.4	8.4	19.6	19.6	104.4	104.3	7.6		1.6		3		-				-		-	
						4.4	0.3	172	26.2		8.4		19.6		104.1		7.5		1.5		3		-				-		-	
					Bottom	7.7	0.3	178	24.9	24.9	8.4	8.4	22.2	22.2	103.1	103.1	7.5	7.5	2.4		3		-				-		-	
						7.7	0.3	178	24.9		8.4		22.2		103.1		7.5		2.3		4		-				-		-	
SR4A	Fine	Calm	16:24	9.3	Surface	1.0	0.5	59	24.5	24.5	8.1	8.1	25.1	25.1	105.1	105.0	7.6	7.6	5.2	6.7	3	4	-	-	817185	807825	-	-	-	-
						1.0	0.5	59	24.5		8.1		25.1		104.9		7.6		5.8		3		-				-		-	
					Middle	4.7	0.5	68	24.5	24.5	8.1	8.1	25.3	25.3	104.7	104.6	7.6		5.0		3		-				-		-	
						4.7	0.5	73	24.5		8.1		25.3		104.5		7.5		5.4		4		-				-		-	
					Bottom	8.3	0.5	63	27.1	27.1	8.1	8.1	24.5	24.4	105.1	105.1	7.3	7.3	8.9		4		-				-		-	
						8.3	0.5	67	27.1		8.1		24.4		105.0		7.3		9.7		4		-				-		-	
SR5A	Fine	Calm	16:39	4.2	Surface	1.0	0.3	116	24.8	24.8	8.0	8.0	24.5	24.5	103.4	103.4	7.5	7.5	5.6	7.0	3	4	-	-	816579	810675	-	-	-	-
						1.0	0.3	118	24.8		8.0		24.5		103.3		7.5		6.2		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.3	111	26.2	26.2	8.0	8.0	24.7	24.7	102.6	102.5	7.2	7.2	7.6		4		-				-		-	
						3.2	0.3	113	26.2		8.0		24.7		102.4		7.2		8.7		4		-				-		-	
SR6	Fine	Calm	17:05	4.5	Surface	1.0	0.0	92	24.8	24.8	8.0	8.0	23.2	23.2	104.6	104.5	7.6	7.6	4.0	4.5	3	3	-	-	817908	814662	-	-	-	-
						1.0	0.0	100	24.8		8.0		23.2		104.4		7.6		4.0		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	171	25.7	25.7	8.0	8.0	24.5	24.5	102.3	102.2	7.3	7.3	5.1		3		-				-		-	
						3.5	0.1	174	25.7		8.0		24.5		102.0		7.3		5.1		3		-				-		-	
SR7	Cloudy	Moderate	17:44	16.8	Surface	1.0	0.2	93	24.3	24.3	8.4	8.4	26.5	26.5	103.7	103.7	7.5	7.6	2.2	4.9	3	3	-	-	823629	823757	-	-	-	-
						1.0	0.2	97	24.3		8.4		26.5		103.7		7.5		2.1		2		-				-		-	
					Middle	8.4	0.1	100	25.7	25.7	8.4	8.4	22.9	22.9	106.8	106.7	7.7		4.5		3		-				-		-	
						8.4	0.1	109	25.7		8.4		23.0		106.5		7.6		4.4		4		-				-		-	
					Bottom	15.8	0.1	55	24.3	24.3	8.4	8.4	27.2	27.2	102.7	102.7	7.4	7.4	8.2		3		-				-		-	
						15.8	0.1	59	24.3		8.4		27.2		102.7		7.4		8.3		4		-				-		-	
SR8	Cloudy	Moderate	16:32	5.4	Surface	1.0	-	-	25.1	25.2	8.4	8.4	22.6	22.5	104.8	104.8	7.6	7.6	6.6	5.1	2	2	-	-	820383	811626	-	-	-	-
						1.0	-	-	25.2		8.4		22.5		104.8		7.6		6.5		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	-	-	25.2	25.2	8.4	8.4	22.9	22.9	104.8	104.8	7.6	7.6	3.6		2		-				-		-	
						4.4	-	-	25.2		8.4		23.0		104.8		7.6		3.8		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 11 April 19 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	09:42	8.6	Surface	1.0	0.1	339	24.7	24.7	8.0	8.0	24.0	24.0	104.6	104.6	7.6	7.6	4.6	8.5	2	3	87	90	815617	804226	<0.2	<0.2	2.8	2.8
						1.0	0.1	4	24.7		8.0		24.0		104.5		7.6		4.6		2		86				<0.2		2.7	
					Middle	4.3	0.1	17	24.7	24.7	8.0	8.0	24.0	24.0	104.2	104.2	7.6		8.4		3		90				<0.2		2.7	
						4.3	0.1	17	24.7		8.0		24.0		104.1		7.6		8.8		3		89				<0.2		2.7	
					Bottom	7.6	0.1	20	24.4	24.4	8.0	8.0	24.8	24.8	101.4	101.3	7.4	7.4	11.9		4		93				<0.2		2.8	
						7.6	0.1	20	24.4		8.0		24.8		101.1		7.3		12.6		4		93				<0.2		2.8	
C2	Cloudy	Moderate	10:55	12.3	Surface	1.0	0.3	9	25.5	25.5	8.4	8.4	19.7	19.7	103.3	103.2	7.6	7.6	1.2	4.0	2	3	89	93	825676	806961	<0.2	<0.2	4.4	3.0
						1.0	0.3	9	25.4		8.4		19.7		103.0		7.6		1.3		3		89				<0.2		4.4	
					Middle	6.2	0.4	347	25.1	25.1	8.4	8.4	21.0	21.0	101.8	101.8	7.5		5.8		2		93				<0.2		2.3	
						6.2	0.4	352	25.1		8.4		21.0		101.8		7.5		6.2		3		94				<0.2		2.4	
					Bottom	11.3	0.3	332	24.9	24.9	8.4	8.4	22.4	22.4	101.2	101.2	7.4	7.4	4.7		3		96				<0.2		2.3	
						11.3	0.3	340	24.9		8.4		22.4		101.2		7.4		4.7		4		95				<0.2		2.4	
C3	Cloudy	Moderate	09:09	13.7	Surface	1.0	0.4	270	24.7	24.7	8.4	8.4	22.6	22.6	101.5	101.5	7.4	7.4	1.1	5.5	2	3	89	92	822097	817805	<0.2	<0.2	2.8	2.5
						1.0	0.4	286	24.7		8.4		22.6		101.4		7.4		1.2		2		89				<0.2		2.7	
					Middle	6.9	0.5	260	24.5	24.5	8.4	8.3	23.2	23.2	100.5	100.5	7.3		3.9		3		92				<0.2		2.8	
						6.9	0.5	278	24.5		8.3		23.2		100.4		7.3		4.0		3		93				<0.2		2.9	
					Bottom	12.7	0.4	287	24.6	24.6	8.3	8.3	24.2	24.2	100.2	100.3	7.3	7.3	11.3		4		95				<0.2		1.8	
						12.7	0.5	292	24.6		8.3		24.2		100.4		7.3		11.7		3		96				<0.2		1.9	
IM1	Fine	Moderate	09:51	5.3	Surface	1.0	0.3	2	24.8	24.8	8.0	8.0	23.8	23.8	105.2	105.2	7.6	7.6	4.8	5.3	2	2	85	87	817969	807149	<0.2	<0.2	2.3	2.4
						1.0	0.3	2	24.8		8.0		23.8		105.1		7.6		4.8		2		85				<0.2		2.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.3	338	24.9	24.9	8.0	8.0	23.8	23.8	103.2	103.1	7.5	7.5	5.7		2		89				<0.2		2.5	
						4.3	0.3	311	24.9		8.0		23.8		103.0		7.5		5.7		2		88				<0.2		2.4	
IM2	Fine	Moderate	09:57	7.7	Surface	1.0	0.3	354	24.5	24.5	8.0	8.0	23.8	23.8	105.0	105.0	7.7	7.6	4.9	4.9	2	3	85	88	818159	806181	<0.2	<0.2	1.9	1.9
						1.0	0.3	356	24.5		8.0		23.8		105.0		7.7		4.9		2		85				<0.2		1.8	
					Middle	3.9	0.2	1	24.5	24.5	8.0	8.0	23.9	23.9	103.8	103.8	7.6		5.1		3		88				<0.2		1.9	
						3.9	0.2	1	24.5		8.0		23.8		103.7		7.5		5.1		3		88				<0.2		1.9	
					Bottom	6.7	0.3	15	24.7	24.7	8.0	8.0	24.0	24.0	102.4	102.3	7.4	7.4	4.7		4		90				<0.2		2.1	
						6.7	0.3	15	24.7		8.0		24.0		102.1		7.4		4.7		3		91				<0.2		2.0	
IM3	Fine	Moderate	10:03	7.5	Surface	1.0	0.1	32	24.9	24.9	8.0	8.0	23.5	23.5	105.7	105.7	7.7	7.7	4.5	4.7	<2	2	85	87	818807	805580	<0.2	<0.2	2.0	1.9
						1.0	0.1	33	24.8		8.0		23.5		105.6		7.7		4.5		<2		85				<0.2		1.9	
					Middle	3.8	0.2	40	24.8	24.8	8.0	8.0	23.5	23.5	105.1	105.1	7.6		4.9		<2		87				<0.2		2.0	
						3.8	0.2	43	24.8		8.0		23.5		105.0		7.6		4.8		<2		86				<0.2		2.0	
					Bottom	6.5	0.1	353	24.7	24.7	8.0	8.0	23.6	23.6	103.0	102.9	7.5	7.5	4.7		2		90				<0.2		1.9	
						6.5	0.1	353	24.7		8.0		23.6		102.8		7.5		4.7		2		90				<0.2		1.7	
IM4	Fine	Moderate	10:11	8.0	Surface	1.0	0.5	6	24.7	24.7	8.0	8.0	22.6	22.6	103.8	103.8	7.6	7.6	4.8	7.1	<2	2	85	87	819713	804609	<0.2	<0.2	1.6	1.7
						1.0	0.5	6	24.7		8.0		22.6		103.8		7.6		4.6		<2		85				<0.2		1.7	
					Middle	4.0	0.5	16	24.6	24.6	8.0	8.0	22.7	22.7	103.7	103.7	7.6		5.0		<2		86				<0.2		1.7	
						4.0	0.5	16	24.6		8.0		22.7		103.6		7.6		5.0		<2		87				<0.2		1.7	
					Bottom	7.0	0.4	17	24.5	24.5	8.0	8.0	23.5	23.5	101.7	101.7	7.4	7.4	11.7		2		90				<0.2		1.6	
						7.0	0.4	17	24.5		8.0		23.5		101.6		7.4		11.6		2		89				<0.2		1.7	
IM5	Fine	Moderate	10:18	7.1	Surface	1.0	0.6	358	25.0	25.0	8.0	8.0	22.0	22.0	103.1	103.1	7.5	7.5	5.3	6.1	2	3	88	87	820751	804864	<0.2	<0.2	1.6	1.7
						1.0	0.6	329	25.0		8.0		22.0		103.1		7.5		5.3		2		88				<0.2		1.8	
					Middle	3.6	0.8	355	25.0	25.0	8.0	8.0	22.1	22.1	103.2	103.2	7.5		5.5		3		85				<0.2		1.8	
						3.6	0.8	327	25.0		8.0		22.1		103.2		7.5		5.7		3		84				<0.2		1.6	
					Bottom	6.1	0.5	356	24.8	24.8	8.0	8.0	22.9	22.9	102.2	102.1	7.4	7.4	7.5		3		90				<0.2		1.6	
						6.1	0.5	328	24.8		8.0		22.9		102.0		7.4		7.6		4		89				<0.2		1.6	
IM6	Fine	Moderate	10:26	7.4	Surface	1.0	0.6	345	24.7	24.7	8.0	8.0	22.1	22.1	102.6	102.6	7.5	7.5	5.2	6.8	2	3	84	87	821077	805836	<0.2	<0.2	1.8	1.8
						1.0	0.6	357	24.7		8.0		22.1		102.6		7.5		5.2		3		85				<0.2		1.7	
					Middle	3.7	0.5	345	24.7	24.8	8.0	8.0	22.2	22.2	102.1	102.1	7.5		6.4		3		86				<0.2		1.9	
						3.7	0.5	317	24.8		8.0		22.2		102.1		7.5		6.3		2		87				<0.2		2.0	
					Bottom	6.4	0.4	5	24.8	24.8	8.0	8.0	22.9	22.9	100.9	100.8	7.4	7.4	9.0		4		89				<0.2		1.7	
						6.4	0.4	5	24.8		8.0		22.9		100.7		7.3		9.0		4		90				<0.2		1.6	
IM7	Fine	Moderate	10:32	7.9	Surface	1.0	0.0	286	25.0	25.0	8.0	8.0	21.1	21.1	103.4	103.4	7.6	7.6	4.1	4.5	<2	3	85	86	821360	806855	<0.2	<0.2	1.8	1.7
						1.0	0.0	306	25.0		8.0		21.1		103.4		7.6		4.1		<2		84				<0.2		1.8	
					Middle	4.0	0.2	83	25.0	25.0	8.0	8.0	21.1	21.1	103.3	103.3	7.6		4.2		2		85				<0.2		1.8	
						4.0	0.2	90	25.0		8.0		21.1		103.3		7.6		4.3		3		85				<0.2		1.9	
					Bottom	6.9	0.4	83	24.7	24.7	8.0	8.0	21.8	21.8	102.0	101.9	7.5	7.5	5.1		3		88				<0.2		1.5	
						6.9	0.4	91	24.7		8.0		21.8		101.8		7.5		5.1		4		89				<0.2		1.6	
IM8	Cloudy	Moderate	10:30	8.0	Surface	1.0	0.1	327	24.9	24.9	8.4	8.4	20.8	20.8	103.3	103.3	7.6	7.6	1.9	1.7	2	3	89	93	821814	808122	<0.2	<0.2	3.2	2.5
						1.0	0.1	331	24.9		8.4		20.8		103.2		7.6		2.1		3		90				<0.2		3.4	
					Middle	4.0	0.1	338	24.9	24.9	8.4	8.4	21.3	21.3	103.3	103.3	7.6		1.5		3		93				<0.2		2.2	
						4.0	0.1	311	24.9		8.4		21.3		103.3		7.6		1.6		3		94				<0.2		2.0	
					Bottom	7.0	0.1	150	25.4	25.4	8.4	8.4	20.5	20.5	104.9	104.9	7.7	7.7	1.5		4		95				<0.2		2.0	
						7.0	0.1	164	25.4		8.4		20.6		104.9		7.7		1.6		4		96				<0.2		2.0	

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 11 April 19 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	10:26	7.6	Surface	1.0	0.0	348	25.1	25.1	8.4	8.4	20.3	20.3	103.6	103.5	7.6	7.6	5.6	5.0	<2	3	89	93	822117	808791	<0.2	<0.2	1.9	2.4
						1.0	0.0	351	25.1		8.4		20.3		103.4		7.6		5.6		<2		90				<0.2		1.8	
					Middle	3.8	0.0	254	25.3	25.3	8.4	8.4	20.7	20.7	102.9	102.8	7.5		3.0		2		93				<0.2		3.3	
						3.8	0.0	263	25.3		8.4		20.7		102.7		7.5		2.7		3		93				<0.2		3.5	
					Bottom	6.6	0.1	199	25.1	25.1	8.4	8.4	21.3	21.3	103.4	103.4	7.6	7.6	6.6		4		95				<0.2		2.0	
						6.6	0.1	210	25.0		8.4		21.3		103.3		7.6		6.7		3		96				<0.2		1.9	
IM10	Cloudy	Moderate	10:17	7.8	Surface	1.0	0.5	313	25.3	25.3	8.4	8.4	21.8	21.8	103.0	102.9	7.5	7.5	1.9	4.6	<2	2	90	92	822371	809796	<0.2	<0.2	2.2	2.0
						1.0	0.6	344	25.2		8.4		21.8		102.7		7.5		2.0		<2		90				<0.2		2.1	
					Middle	3.9	0.5	306	25.0	25.0	8.4	8.4	22.0	22.0	101.6	101.7	7.4		10.1		2		91				<0.2		2.0	
						3.9	0.5	328	25.0		8.4		22.0		101.7		7.4		9.7		2		93				<0.2		2.2	
					Bottom	6.8	0.3	291	24.7	24.7	8.4	8.4	22.7	22.7	101.1	101.0	7.4	7.4	1.8		3		94				<0.2		1.8	
						6.8	0.4	305	24.7		8.4		22.7		100.9		7.3		1.8		3		95				<0.2		1.8	
IM11	Cloudy	Moderate	10:06	8.6	Surface	1.0	0.6	292	24.9	24.9	8.4	8.4	21.3	21.3	102.1	102.0	7.5	7.4	7.9	6.1	<2	3	89	92	822067	811458	<0.2	<0.2	1.8	2.0
						1.0	0.6	302	24.9		8.4		21.3		101.8		7.5		7.8		<2		90				<0.2		1.8	
					Middle	4.3	0.4	287	24.7	24.7	8.4	8.4	23.2	23.2	100.1	100.1	7.3		3.5		2		93				<0.2		2.2	
						4.3	0.4	308	24.7		8.4		23.2		100.0		7.3		3.4		2		92				<0.2		2.0	
					Bottom	7.6	0.2	269	24.5	24.5	8.4	8.4	24.9	24.9	98.4	98.4	7.1	7.1	7.1		3		95				<0.2		2.2	
						7.6	0.2	276	24.5		8.4		24.9		98.4		7.1		7.1		4		95				<0.2		2.1	
IM12	Cloudy	Moderate	09:59	8.2	Surface	1.0	0.5	280	25.1	25.1	8.4	8.4	21.4	21.5	102.3	102.2	7.5	7.5	1.8	2.1	<2	2	89	93	821464	812036	<0.2	<0.2	1.9	1.9
						1.0	0.6	294	25.0		8.4		21.5		102.1		7.5		1.9		<2		90				<0.2		1.9	
					Middle	4.1	0.6	268	24.9	24.9	8.4	8.4	22.4	22.4	101.6	101.6	7.4		2.0		<2		93				<0.2		1.8	
						4.1	0.6	279	24.9		8.4		22.4		101.6		7.4		1.9		<2		94				<0.2		1.7	
					Bottom	7.2	0.3	298	24.9	24.9	8.4	8.4	22.8	22.8	100.8	100.8	7.3	7.3	2.6		2		95				<0.2		2.2	
						7.2	0.3	302	24.9		8.4		22.8		100.7		7.3		2.6		2		95				<0.2		2.0	
SR1A	Cloudy	Calm	09:45	4.8	Surface	1.0	-	-	25.0	25.0	8.4	8.4	21.1	21.1	103.3	103.3	7.6	7.6	1.5	1.2	<2	<2	-	-	819982	812660	-	-	-	-
						1.0	-	-	25.0		8.4		21.1		103.3		7.6		1.5		<2		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	25.0	25.0	8.4	8.4	20.9	20.9	103.1	103.0	7.6	7.6	1.0		<2		-				-		-	
						3.8	-	-	25.0		8.4		21.0		102.9		7.6		1.0		<2		-				-		-	
SR2	Cloudy	Moderate	09:31	5.4	Surface	1.0	0.3	312	25.0	25.0	8.4	8.4	22.8	22.8	101.8	101.7	7.4	7.4	3.0	3.8	2	3	89	91	821463	814157	<0.2	<0.2	3.4	2.7
						1.0	0.3	320	24.9		8.4		22.8		101.5		7.4		2.7		2		89				<0.2		3.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.2	256	25.0	25.1	8.4	8.4	22.8	22.8	101.6	101.8	7.4	7.4	4.7		3		93				<0.2		2.0	
						4.4	0.2	268	25.1		8.4		22.7		101.9		7.4		4.9		3		94				<0.2		2.0	
SR3	Cloudy	Moderate	10:36	8.8	Surface	1.0	0.1	270	25.3	25.3	8.4	8.4	20.2	20.3	103.9	103.9	7.6	7.6	1.4	1.1	2	3	-	-	822160	807586	-	-	-	-
						1.0	0.1	291	25.2		8.4		20.3		103.8		7.6		1.4		2		-				-		-	
					Middle	4.4	0.1	293	25.1	25.1	8.4	8.4	20.4	20.4	103.6	103.6	7.6		1.2		3		-				-		-	
						4.4	0.1	313	25.1		8.4		20.4		103.6		7.6		1.1		3		-				-		-	
					Bottom	7.8	0.1	64	25.1	25.1	8.4	8.4	21.0	21.0	103.7	103.7	7.6	7.6	0.8		3		-				-		-	
						7.8	0.1	67	25.1		8.4		21.0		103.7		7.6		0.8		3		-				-		-	
SR4A	Fine	Calm	09:30	9.1	Surface	1.0	0.3	248	24.6	24.6	8.0	8.0	24.2	24.2	101.7	101.8	7.4	7.4	5.8	7.2	3	3	-	-	817194	807820	-	-	-	-
						1.0	0.3	258	24.6		8.0		24.2		101.8		7.4		5.7		2		-				-		-	
					Middle	4.6	0.3	256	24.6	24.6	8.0	8.0	24.2	24.2	101.4	101.4	7.4		7.1		4		-				-		-	
						4.6	0.3	263	24.6		8.0		24.2		101.3		7.3		7.8		3		-				-		-	
					Bottom	8.1	0.2	260	24.6	24.6	8.0	8.0	25.4	25.4	99.6	99.5	7.2	7.2	8.4		4		-				-		-	
						8.1	0.3	278	24.6		8.0		25.4		99.4		7.2		8.6		4		-				-		-	
SR5A	Fine	Calm	09:15	3.9	Surface	1.0	0.2	308	25.0	25.0	7.9	7.9	24.6	24.6	100.5	100.5	7.2	7.2	4.5	5.1	3	3	-	-	816583	810687	-	-	-	-
						1.0	0.2	322	25.0		7.9		24.6		100.4		7.2		4.9		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	328	25.2	25.2	7.9	7.9	24.6	24.6	99.5	99.4	7.1	7.1	5.5		3		-				-		-	
						2.9	0.2	359	25.2		7.9		24.6		99.3		7.1		5.7		3		-				-		-	
SR6	Fine	Calm	08:46	4.2	Surface	1.0	0.1	211	24.7	24.7	7.9	7.9	23.8	23.8	100.4	100.4	7.3	7.3	4.4	4.2	2	3	-	-	817889	814676	-	-	-	-
						1.0	0.1	211	24.7		7.9		23.8		100.4		7.3		4.6		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	219	24.7	24.7	7.9	7.9	23.8	23.8	100.5	100.5	7.3	7.3	4.0		2		-				-		-	
						3.2	0.1	225	24.7		7.9		23.8		100.5		7.3		3.9		4		-				-		-	
SR7	Cloudy	Moderate	08:38	16.3	Surface	1.0	0.1	287	24.7	24.7	8.3	8.3	23.2	23.2	101.7	101.7	7.4	7.4	1.9	2.0	<2	2	-	-	823633	823732	-	-	-	-
						1.0	0.1	295	24.7		8.3		23.2		101.7		7.4		2.2		<2		-				-		-	
					Middle	8.2	0.1	213	24.6	24.6	8.3	8.3	23.5	23.5	101.6	101.6	7.4		2.5		2		-				-		-	
						8.2	0.1	213	24.6		8.3		23.5		101.5		7.4		2.5		2		-				-		-	
					Bottom	15.3	0.2	267	24.4	24.4	8.3	8.3	25.5	25.5	99.0	99.0	7.2	7.2	1.3		3		-				-		-	
						15.3	0.2	269	24.4		8.3		25.5		99.0		7.2		1.3		3		-				-		-	
SR8	Cloudy	Calm	09:55	5.3	Surface	1.0	-	-	24.9	24.9	8.4	8.4	21.5	21.5	102.0	102.0	7.5	7.5	6.1	4.8	2	3	-	-	820380	811606	-	-	-	-
						1.0	-	-	24.9		8.4		21.5		102.0		7.5		6.3		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	-	-	24.9	25.0	8.4	8.4	21.8	21.8	101.4	101.2	7.4	7.4	3.4		3		-				-		-	
						4.3	-	-	25.0		8.4		21.8		100.9		7.4		3.5		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 13 April 19 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	18:37	7.7	Surface	1.0	0.1	172	22.8	22.8	8.1	8.1	29.0	29.0	99.7	99.7	7.3	7.3	16.8	13.6	<2	2	83	87	815627	804255	<0.2	<0.2	0.7	0.9
						1.0	0.1	175	22.8		8.1		29.0		99.7		7.3		16.8		<2		83				<0.2		0.8	
					Middle	3.9	0.1	167	22.7	22.7	8.1	8.0	29.0	29.0	99.3	99.3	7.2		13.5		2		87				<0.2		0.9	
						3.9	0.1	168	22.7		8.0		29.0		99.2		7.2		13.5		2		87				<0.2		0.7	
					Bottom	6.7	0.0	188	22.8	22.8	8.0	8.0	28.9	28.9	99.8	99.8	7.3	7.3	10.6		2		91				<0.2		1.0	
						6.7	0.0	195	22.8		8.0		28.9		99.7		7.3		10.6		2		91				<0.2		1.0	
C2	Cloudy	Rough	17:35	12.1	Surface	1.0	0.3	152	23.8	23.8	8.4	8.4	22.4	22.4	100.1	100.1	7.4	7.5	5.8	3.1	3	3	84	86	825672	806951	<0.2	<0.2	2.0	2.0
						1.0	0.3	155	23.8		8.4		22.4		100.1		7.4		5.8		3		84				<0.2		2.0	
					Middle	6.1	0.2	128	23.8	23.8	8.4	8.4	22.3	22.3	100.4	100.4	7.5		2.2		<2		87				<0.2		2.0	
						6.1	0.2	129	23.8		8.4		22.3		100.4		7.5		2.3		<2		86				<0.2		2.0	
					Bottom	11.1	0.0	210	23.8	23.8	8.4	8.4	22.3	22.3	100.9	101.1	7.5	7.5	1.3		5		88				<0.2		2.0	
						11.1	0.0	216	23.8		8.4		22.3		101.3		7.5		1.1		5		88				<0.2		2.0	
C3	Cloudy	Rough	19:48	11.8	Surface	1.0	0.4	71	23.3	23.3	8.5	8.5	27.8	27.7	101.1	101.1	7.4	7.4	8.1	4.8	2	2	85	87	822113	817821	<0.2	<0.2	1.2	0.9
						1.0	0.4	76	23.3		8.5		27.7		101.1		7.4		8.1		2		85				<0.2		0.9	
					Middle	5.9	0.4	83	23.1	23.1	8.5	8.5	28.3	28.4	101.5	101.4	7.4		5.2		2		87				<0.2		0.9	
						5.9	0.4	93	23.1		8.5		28.4		101.3		7.4		5.4		2		86				<0.2		0.8	
					Bottom	10.8	0.4	105	23.1	23.2	8.5	8.5	28.4	28.4	101.7	101.8	7.4	7.4	0.9		2		89				<0.2		0.9	
						10.8	0.4	120	23.2		8.5		28.4		101.8		7.4		0.9		2		88				<0.2		0.9	
IM1	Cloudy	Rough	18:15	5.2	Surface	1.0	0.2	248	22.9	22.9	8.1	8.1	29.0	29.0	99.5	99.5	7.2	7.2	12.7	11.3	<2	<2	83	86	817936	807150	<0.2	<0.2	0.8	0.9
						1.0	0.2	220	22.9		8.1		29.0		99.5		7.2		12.8		<2		83				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	229	22.9	22.9	8.0	8.0	28.9	28.9	99.4	99.4	7.2	7.2	9.9		<2		88				<0.2		0.8	
						4.2	0.2	234	22.9		8.0		28.9		99.4		7.2		9.8		<2		88				<0.2		1.0	
IM2	Cloudy	Rough	18:08	7.8	Surface	1.0	0.2	219	23.0	23.0	8.1	8.1	28.9	28.9	101.2	101.2	7.4	7.4	7.2	9.8	3	2	83	88	818176	806176	<0.2	<0.2	1.1	0.8
						1.0	0.3	222	23.0		8.1		28.9		101.2		7.4		7.2		2		83				<0.2		0.8	
					Middle	3.9	0.2	249	22.9	22.9	8.1	8.1	28.9	28.9	100.9	100.9	7.3		12.1		2		88				<0.2		0.7	
						3.9	0.2	221	22.9		8.1		28.9		100.9		7.3		12.1		2		88				<0.2		0.6	
					Bottom	6.8	0.2	212	22.9	22.9	8.0	8.0	28.9	28.9	101.1	101.1	7.4	7.4	10.1		3		91				<0.2		0.8	
						6.8	0.2	230	22.9		8.0		28.9		101.1		7.4		10.1		2		92				<0.2		0.8	
IM3	Cloudy	Rough	18:01	7.7	Surface	1.0	0.3	228	22.9	22.9	8.1	8.1	28.8	28.8	100.7	100.7	7.3	7.3	9.2	11.5	4	3	84	88	818802	805607	<0.2	<0.2	0.7	0.7
						1.0	0.4	228	22.9		8.1		28.8		100.7		7.3		9.3		4		84				<0.2		0.7	
					Middle	3.9	0.3	215	22.8	22.8	8.1	8.0	29.1	29.1	100.2	100.2	7.3		10.7		4		88				<0.2		0.7	
						3.9	0.3	223	22.8		8.0		29.1		100.2		7.3		10.7		3		88				<0.2		0.7	
					Bottom	6.7	0.2	229	22.9	22.9	8.0	8.0	29.0	29.0	100.4	100.4	7.3	7.3	14.6		3		91				<0.2		0.8	
						6.7	0.2	230	22.9		8.0		29.0		100.4		7.3		14.6		2		92				<0.2		0.8	
IM4	Cloudy	Rough	17:51	7.5	Surface	1.0	0.7	213	22.7	22.7	8.1	8.1	28.5	28.5	99.4	99.3	7.3	7.3	14.9	9.9	3	3	84	88	819733	804606	<0.2	<0.2	0.7	0.9
						1.0	0.7	242	22.7		8.1		28.5		99.2		7.3		15.0		3		84				<0.2		0.8	
					Middle	3.8	0.4	202	22.9	22.9	8.1	8.1	28.4	28.5	99.5	99.5	7.3		6.1		3		88				<0.2		0.9	
						3.8	0.4	221	22.9		8.1		28.5		99.4		7.3		6.2		4		88				<0.2		0.8	
					Bottom	6.5	0.3	212	22.9	22.9	8.0	8.0	28.4	28.4	99.8	100.0	7.3	7.3	8.7		3		91				<0.2		1.0	
						6.5	0.3	226	22.9		8.0		28.4		100.1		7.3		8.7		3		92				<0.2		1.0	
IM5	Cloudy	Rough	17:43	8.4	Surface	1.0	0.3	229	23.2	23.2	8.0	8.0	26.4	26.4	99.3	99.3	7.3	7.3	12.0	12.7	3	3	83	87	820721	804866	<0.2	<0.2	1.1	1.0
						1.0	0.3	210	23.2		8.0		26.4		99.3		7.3		12.0		3		83				<0.2		0.9	
					Middle	4.2	0.3	232	23.1	23.1	8.0	8.0	26.5	26.5	99.1	99.1	7.3		12.0		3		87				<0.2		1.0	
						4.2	0.3	233	23.1		8.0		26.5		99.1		7.3		12.0		2		87				<0.2		1.0	
					Bottom	7.4	0.1	206	23.1	23.1	8.0	8.0	27.0	27.0	99.5	99.6	7.3	7.3	14.1		4		91				<0.2		1.1	
						7.4	0.1	192	23.1		8.0		27.0		99.6		7.3		14.2		4		92				<0.2		1.0	
IM6	Cloudy	Rough	17:37	8.6	Surface	1.0	0.5	189	23.2	23.2	8.0	8.0	25.8	25.8	99.1	99.1	7.3	7.3	16.3	16.1	5	4	84	88	821059	805844	<0.2	<0.2	1.2	1.2
						1.0	0.5	199	23.2		8.0		25.8		99.0		7.3		16.2		4		84				<0.2		1.1	
					Middle	4.3	0.4	183	23.3	23.3	8.0	8.0	25.7	25.7	99.3	99.4	7.3		16.6		3		87				<0.2		1.3	
						4.3	0.4	180	23.3		8.0		25.7		99.4		7.3		17.0		3		88				<0.2		1.2	
					Bottom	7.6	0.2	183	23.1	23.1	8.0	8.0	25.9	25.9	100.1	100.2	7.4	7.4	15.2		4		91				<0.2		1.4	
						7.6	0.2	199	23.0		8.0		26.0		100.2		7.4		15.2		3		91				<0.2		1.2	
IM7	Cloudy	Rough	17:30	8.3	Surface	1.0	0.4	154	23.5	23.5	8.0	8.0	25.5	25.5	98.7	98.7	7.2	7.3	7.3	8.1	4	4	83	87	821340	806839	<0.2	<0.2	1.5	1.2
						1.0	0.4	158	23.5		8.0		25.5		98.7		7.3		7.4		3		83				<0.2		1.4	
					Middle	4.2	0.2	174	23.5	23.5	8.0	8.0	25.5	25.5	98.7	98.7	7.3		7.2		4		88				<0.2		1.2	
						4.2	0.2	181	23.5		8.0		25.5		98.7		7.3		7.2		3		88				<0.2		1.1	
					Bottom	7.3	0.1	200	23.4	23.4	8.0	8.0	25.7	25.7	98.8	98.8	7.3	7.3	9.9		4		91				<0.2		1.1	
						7.3	0.1	209	23.4		8.0		25.7		98.8		7.3		9.9		4		91				<0.2		1.0	
IM8	Cloudy	Rough	18:13	7.2	Surface	1.0	0.4	160	23.6	23.6	8.4	8.4	24.8	24.8	101.0	101.0	7.4	7.4	1.9	2.2	2	2	84	87	821850	808125	<0.2	<0.2	1.0	1.7
						1.0	0.4	166	23.6		8.4		24.8		101.0		7.4		1.9		3		85				<0.2		1.1	
					Middle	3.6	0.2	164	23.5	23.5	8.4	8.4	24.8	24.8	100.8	100.8	7.4		3.2		2		88				<0.2		2.1	
						3.6	0.2	174	23.5		8.4		24.8		100.8		7.4		3.2		2		88				<0.2		1.9	
					Bottom	6.2	0.1	136	23.4	23.4	8.4	8.4	25.0	25.0	101.5	101.5	7.5	7.5	1.5		2		89				<0.2		1.9	
						6.2	0.1	137	23.3		8.4		25.0		101.5		7.5		1.5		3		87				<0.2		2.0	

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 13 April 19 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	18:23	6.8	Surface	1.0	0.4	181	23.5	23.5	8.5	8.5	24.9	24.9	100.6	100.7	7.4	7.4	5.9	5.6	2	3	84	87	822095	808799	<0.2	<0.2	0.8	0.8
						1.0	0.4	185	23.5		8.5		24.9		100.7		7.4		5.4		4		85				<0.2		0.8	
					Middle	3.4	0.3	166	23.5	23.5	8.4	8.4	25.0	25.0	101.0	101.0	7.4		9.2		4		87				<0.2		0.8	
						3.4	0.3	181	23.5		8.4		25.0		100.9		7.4		9.2		3		86				<0.2		0.7	
					Bottom	5.8	0.1	126	23.3	23.3	8.5	8.5	25.3	25.3	101.0	101.0	7.5	7.5	1.8		4		89				<0.2		0.8	
						5.8	0.1	137	23.2		8.5		25.3		100.9		7.5		1.9		3		90				<0.2		0.8	
IM10	Cloudy	Rough	18:35	7.3	Surface	1.0	0.4	111	23.3	23.3	8.4	8.4	25.0	25.0	100.2	100.2	7.4	7.4	7.7	6.8	4	3	84	86	822391	809812	<0.2	<0.2	0.9	1.1
						1.0	0.4	118	23.3		8.4		25.0		100.1		7.4		7.7		4		83				<0.2		1.1	
					Middle	3.7	0.2	105	23.3	23.3	8.4	8.4	25.3	25.3	100.7	100.7	7.4		5.8		3		87				<0.2		0.9	
						3.7	0.2	106	23.3		8.4		25.3		100.6		7.4		5.8		3		86				<0.2		1.2	
					Bottom	6.3	0.2	168	23.3	23.3	8.4	8.4	25.4	25.4	100.9	100.9	7.4	7.4	6.8		3		90				<0.2		1.0	
						6.3	0.2	170	23.2		8.4		25.5		100.9		7.4		6.8		2		88				<0.2		1.2	
IM11	Cloudy	Rough	18:51	7.4	Surface	1.0	0.3	129	23.4	23.5	8.4	8.4	25.6	25.6	99.7	99.7	7.3	7.4	7.1	4.4	<2	2	84	87	822075	811450	<0.2	<0.2	1.7	1.8
						1.0	0.3	123	23.5		8.4		25.6		99.7		7.3		7.1		<2		85				<0.2		1.8	
					Middle	3.7	0.2	127	23.3	23.2	8.4	8.4	26.1	26.2	101.9	102.1	7.5		4.2		<2		89				<0.2		2.0	
						3.7	0.2	127	23.1		8.4		26.2		102.2		7.5		4.2		<2		88				<0.2		1.7	
					Bottom	6.4	0.2	133	23.1	23.1	8.4	8.4	25.8	25.8	101.1	101.3	7.5	7.5	2.1		3		87				<0.2		1.7	
						6.4	0.3	138	23.1		8.5		25.8		101.4		7.5		1.9		2		88				<0.2		1.8	
IM12	Cloudy	Rough	19:03	7.6	Surface	1.0	0.4	130	23.4	23.4	8.4	8.4	26.0	26.0	99.5	99.6	7.3	7.3	6.8	4.4	4	3	85	87	821470	812031	<0.2	<0.2	1.7	1.8
						1.0	0.4	141	23.4		8.4		26.0		99.6		7.3		6.8		3		84				<0.2		1.6	
					Middle	3.8	0.1	147	23.3	23.3	8.4	8.4	26.1	26.2	99.8	99.8	7.3		5.0		2		87				<0.2		1.9	
						3.8	0.1	152	23.2		8.4		26.2		99.8		7.3		5.0		3		88				<0.2		1.7	
					Bottom	6.6	0.0	166	23.2	23.2	8.5	8.5	26.7	26.7	100.0	100.2	7.3	7.4	1.3		2		89				<0.2		1.8	
						6.6	0.0	157	23.2		8.5		26.7		100.3		7.4		1.3		3		90				<0.2		1.8	
SR1A	Cloudy	Rough	19:18	4.8	Surface	1.0	-	-	23.2	23.2	8.4	8.4	26.2	26.2	99.2	99.2	7.3	7.3	9.9	5.6	5	3	-	-	819978	812665	-	-	-	-
						1.0	-	-	23.2		8.4		26.2		99.2		7.3		9.9		4		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	23.2	23.2	8.4	8.4	26.6	26.6	99.8	100.0	7.3	7.3	1.4		2		-				-		-	
						3.8	-	-	23.2		8.4		26.6		100.1		7.3		1.5		2		-				-		-	
SR2	Cloudy	Rough	19:18	4.6	Surface	1.0	0.3	122	22.8	22.9	8.4	8.4	25.2	25.1	97.2	97.2	7.2	7.2	2.1	1.6	2	3	85	86	821476	814167	<0.2	<0.2	1.7	1.6
						1.0	0.3	130	22.9		8.4		25.1		97.2		7.2		2.0		3		85				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	164	23.2	23.2	8.4	8.4	26.7	26.7	98.3	98.4	7.2	7.2	1.2		2		87				<0.2		1.6	
						3.6	0.1	177	23.2		8.4		26.7		98.4		7.2		1.1		3		88				<0.2		1.6	
SR3	Cloudy	Rough	18:05	8.1	Surface	1.0	0.3	161	23.4	23.4	8.5	8.5	24.2	24.2	101.4	101.4	7.5	7.5	3.6	2.6	3	2	-	-	822167	807563	-	-	-	-
						1.0	0.3	172	23.4		8.5		24.2		101.4		7.5		3.6		2		-				-		-	
					Middle	4.1	0.2	161	23.4	23.4	8.5	8.5	24.4	24.4	101.5	101.5	7.5		3.1		2		-				-		-	
						4.1	0.2	174	23.4		8.5		24.4		101.5		7.5		3.1		2		-				-		-	
					Bottom	7.1	0.2	207	23.4	23.4	8.5	8.5	24.2	24.2	101.5	101.6	7.5	7.5	1.0		3		-				-		-	
						7.1	0.2	192	23.4		8.5		24.2		101.6		7.5		1.0		2		-				-		-	
SR4A	Cloudy	Rough	18:55	8.6	Surface	1.0	0.1	131	22.9	22.9	8.1	8.1	29.0	29.0	99.7	99.7	7.3	7.3	13.3	16.3	4	4	-	-	817169	807819	-	-	-	-
						1.0	0.1	146	22.9		8.1		29.0		99.7		7.3		13.3		3		-				-		-	
					Middle	4.3	0.1	18	22.9	22.9	8.1	8.1	29.0	29.0	99.7	99.8	7.3		17.8		4		-				-		-	
						4.3	0.2	18	22.9		8.1		29.0		99.8		7.3		17.8		3		-				-		-	
					Bottom	7.6	0.2	47	22.9	22.9	8.1	8.0	29.0	29.0	100.5	100.5	7.3	7.3	17.8		4		-				-		-	
						7.6	0.3	48	22.9		8.0		29.0		100.5		7.3		17.8		4		-				-		-	
SR5A	Cloudy	Rough	19:14	4.7	Surface	1.0	0.0	131	23.0	23.0	8.1	8.0	26.7	26.7	98.2	98.2	7.2	7.2	12.6	14.2	3	3	-	-	816571	810718	-	-	-	-
						1.0	0.0	125	23.0		8.0		26.7		98.2		7.2		12.7		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.1	150	23.1	23.1	8.0	8.0	26.9	26.9	98.1	98.2	7.2	7.2	15.7		4		-				-		-	
						3.7	0.2	158	23.1		8.0		26.9		98.2		7.2		15.7		3		-				-		-	
SR6	Cloudy	Rough	19:35	4.3	Surface	1.0	0.1	126	22.8	22.8	8.0	8.0	27.4	27.4	97.4	97.5	7.2	7.2	8.8	9.9	2	3	-	-	817921	814672	-	-	-	-
						1.0	0.1	140	22.7		8.0		27.4		97.5		7.2		8.8		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.0	136	23.1	23.1	8.0	8.0	26.9	26.9	94.6	94.7	6.9	6.9	11.0		4		-				-		-	
						3.3	0.0	138	23.1		8.0		26.9		94.7		6.9		11.0		4		-				-		-	
SR7	Cloudy	Rough	20:25	16.4	Surface	1.0	0.1	307	23.3	23.3	8.4	8.4	29.2	29.1	98.1	98.2	7.1	7.2	3.3	2.9	3	3	-	-	823614	823737	-	-	-	-
						1.0	0.1	325	23.3		8.4		29.1		98.2		7.1		3.3		3		-				-		-	
					Middle	8.2	0.2	87	23.2	23.2	8.5	8.5	29.5	29.5	100.0	100.0	7.2		3.6		3		-				-		-	
						8.2	0.2	90	23.2		8.5		29.5		100.0		7.2		3.6		3		-				-		-	
					Bottom	15.4	0.1	198	23.2	23.2	8.5	8.5	29.5	29.5	100.4	100.5	7.2	7.2	2.0		3		-				-		-	
						15.4	0.1	200	23.2		8.5		29.5		100.5		7.2		2.0		3		-				-		-	
SR8	Cloudy	Rough	19:03	5.2	Surface	1.0	-	-	23.4	23.4	8.4	8.4	26.1	26.1	99.2	99.2	7.3	7.3	5.6	6.4	5	6	-	-	820372	811629	-	-	-	-
						1.0	-	-	23.4		8.4		26.1		99.2		7.3		5.6		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	-	-	23.4	23.4	8.4	8.4	26.1	26.1	99.3	99.3	7.3	7.3	7.3		6		-				-		-	
						4.2	-	-	23.4		8.4		26.1		99.3		7.3		7.3		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 13 April 19 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	Rough	05:57	8.9	Surface	1.0	0.1	330	22.9	22.9	8.1	8.1	29.2	29.1	99.1	99.1	7.2	7.2	11.6	12.7	3	3	84	88	815613	804256	<0.2	<0.2	1.9	2.0
						1.0	0.1	0	22.9		8.1		29.1		99.0		7.2		11.6		3		84				<0.2		1.9	
					Middle	4.5	0.1	21	22.9	22.9	8.1	8.1	29.1	29.1	98.9	98.9	7.2		11.6		3		88				<0.2		1.9	
						4.5	0.1	22	22.9		8.1		29.1		98.8		7.2		11.7		4		88				<0.2		2.1	
					Bottom	7.9	0.1	26	23.0	23.0	8.0	8.0	29.2	29.1	98.6	98.5	7.2	7.2	14.9		3		91				<0.2		2.1	
						7.9	0.1	27	23.0		8.0		29.1		98.3		7.1		14.9		3		91				<0.2		2.1	
C2	Cloudy	Rough	07:11	12.2	Surface	1.0	0.3	231	23.8	23.8	8.4	8.4	22.9	22.9	100.2	100.2	7.4	7.4	4.7	2.6	6	5	85	87	825671	806940	<0.2	<0.2	2.1	2.0
						1.0	0.3	236	23.8		8.4		22.9		100.2		7.4		4.8		5		84				<0.2		1.8	
					Middle	6.1	0.2	220	23.9	24.0	8.4	8.4	22.9	22.9	100.0	100.0	7.4		2.0		4		87				<0.2		2.2	
						6.1	0.2	235	24.0		8.4		22.9		100.0		7.4		1.9		4		87				<0.2		1.9	
					Bottom	11.2	0.1	56	24.3	24.4	8.4	8.4	22.8	22.8	100.2	100.2	7.4	7.4	1.2		4		87				<0.2		2.2	
						11.2	0.1	56	24.4		8.4		22.7		100.2		7.4		1.3		5		89				<0.2		2.0	
C3	Cloudy	Moderate	05:35	11.3	Surface	1.0	0.3	336	23.5	23.5	8.4	8.4	27.7	27.7	98.7	98.7	7.2	7.2	5.8	4.3	4	4	83	86	822094	817822	<0.2	<0.2	1.7	1.5
						1.0	0.3	359	23.5		8.4		27.7		98.7		7.2		5.8		4		84				<0.2		1.6	
					Middle	5.7	0.0	243	23.5	23.5	8.4	8.4	27.8	27.8	98.7	98.7	7.1		2.1		4		86				<0.2		1.5	
						5.7	0.0	252	23.5		8.4		27.8		98.6		7.1		2.1		3		85				<0.2		1.4	
					Bottom	10.3	0.1	114	23.5	23.5	8.4	8.4	28.1	28.1	98.6	98.6	7.1	7.1	5.0		3		88				<0.2		1.6	
						10.3	0.1	114	23.5		8.4		28.1		98.6		7.1		5.0		3		88				<0.2		1.3	
IM1	Cloudy	Rough	06:35	4.6	Surface	1.0	0.1	22	22.8	22.8	8.1	8.1	29.3	29.3	99.6	99.6	7.2	7.2	7.1	7.2	4	4	83	86	817928	807124	<0.2	<0.2	1.0	0.9
						1.0	0.1	22	22.8		8.1		29.3		99.6		7.2		7.1		4		83				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	30	22.8	22.8	8.1	8.1	29.3	29.3	99.4	99.4	7.2	7.2	7.2		4		89				<0.2		0.8	
						3.6	0.1	31	22.8		8.1		29.3		99.4		7.2		7.2		3		89				<0.2		1.1	
IM2	Cloudy	Rough	06:40	8.2	Surface	1.0	0.1	308	23.0	23.0	8.1	8.1	29.1	29.1	100.8	100.8	7.3	7.3	9.4	10.3	4	4	84	87	818151	806181	<0.2	<0.2	1.0	0.8
						1.0	0.1	326	23.0		8.1		29.1		100.7		7.3		9.4		4		84				<0.2		0.8	
					Middle	4.1	0.1	350	22.9	22.9	8.1	8.1	29.2	29.2	100.5	100.5	7.3		8.2		4		88				<0.2		0.8	
						4.1	0.1	354	22.9		8.1		29.2		100.5		7.3		8.2		3		87				<0.2		0.9	
					Bottom	7.2	0.1	61	22.9	22.9	8.1	8.1	29.2	29.2	100.3	100.2	7.3	7.3	13.1		4		87				<0.2		0.8	
						7.2	0.1	66	22.8		8.1		29.2		100.1		7.3		13.2		4		91				<0.2		0.7	
IM3	Cloudy	Rough	06:45	8.3	Surface	1.0	0.2	295	23.0	23.0	8.1	8.1	29.2	29.2	100.7	100.7	7.3	7.3	7.8	9.6	3	4	83	87	818776	805609	<0.2	<0.2	0.8	0.8
						1.0	0.2	305	23.0		8.1		29.2		100.7		7.3		7.8		4		84				<0.2		0.8	
					Middle	4.2	0.2	310	23.0	23.0	8.1	8.1	29.1	29.1	100.5	100.5	7.3		12.9		3		85				<0.2		0.7	
						4.2	0.2	311	22.9		8.1		29.1		100.5		7.3		12.9		3		85				<0.2		0.7	
					Bottom	7.3	0.1	323	22.9	22.9	8.1	8.0	29.1	29.1	100.2	100.3	7.3	7.3	8.1		5		91				<0.2		0.9	
						7.3	0.1	347	22.9		8.0		29.1		100.3		7.3		8.1		4		91				<0.2		0.9	
IM4	Cloudy	Rough	06:54	8.4	Surface	1.0	0.3	305	22.8	22.8	8.1	8.1	28.8	28.9	99.7	99.7	7.3	7.3	10.8	8.4	4	4	84	88	819727	804609	<0.2	<0.2	0.8	1.0
						1.0	0.3	333	22.8		8.1		28.9		99.6		7.3		10.8		4		84				<0.2		1.0	
					Middle	4.2	0.3	311	22.8	22.8	8.1	8.1	28.9	28.9	99.5	99.5	7.2		6.8		4		87				<0.2		1.0	
						4.2	0.3	311	22.8		8.1		28.9		99.5		7.2		6.9		5		88				<0.2		0.9	
					Bottom	7.4	0.1	335	22.8	22.8	8.1	8.1	28.9	28.9	99.4	99.4	7.2	7.2	7.6		3		91				<0.2		1.0	
						7.4	0.1	350	22.8		8.1		28.9		99.3		7.2		7.6		4		91				<0.2		1.1	
IM5	Cloudy	Rough	07:01	8.0	Surface	1.0	0.1	308	23.1	23.1	8.1	8.1	26.9	26.9	98.7	98.7	7.2	7.2	7.6	8.3	4	3	83	88	820725	804865	<0.2	<0.2	1.4	1.4
						1.0	0.1	311	23.1		8.1		26.9		98.7		7.2		7.6		3		84				<0.2		1.3	
					Middle	4.0	0.1	339	23.0	23.0	8.1	8.1	27.6	27.6	98.6	98.6	7.2		9.1		3		88				<0.2		1.6	
						4.0	0.1	355	23.0		8.1		27.6		98.5		7.2		9.1		3		89				<0.2		1.4	
					Bottom	7.0	0.1	316	22.9	22.9	8.1	8.1	28.4	28.4	98.3	98.3	7.2	7.2	8.1		3		91				<0.2		1.4	
						7.0	0.1	322	22.9		8.1		28.4		98.3		7.2		8.1		4		91				<0.2		1.2	
IM6	Cloudy	Rough	07:08	7.5	Surface	1.0	0.3	283	23.4	23.4	8.1	8.1	25.7	25.7	99.1	99.3	7.3	7.3	10.7	12.0	3	3	83	88	821071	805840	<0.2	<0.2	1.5	1.6
						1.0	0.4	283	23.4		8.1		25.8		99.4		7.3		10.8		3		83				<0.2		1.5	
					Middle	3.8	0.2	319	23.2	23.2	8.1	8.1	25.9	26.0	99.4	99.4	7.3		17.0		4		89				<0.2		1.6	
						3.8	0.2	330	23.1		8.1		26.0		99.3		7.3		17.0		4		89				<0.2		1.6	
					Bottom	6.5	0.1	83	22.7	22.7	8.1	8.1	27.9	27.9	98.4	98.5	7.2	7.2	8.3		2		91				<0.2		1.7	
						6.5	0.1	83	22.7		8.1		27.9		98.5		7.2		8.2		2		91				<0.2		1.4	
IM7	Cloudy	Rough	07:18	7.2	Surface	1.0	0.5	243	23.4	23.4	8.0	8.0	25.7	25.7	98.4	98.4	7.2	7.2	7.4	10.5	4	3	84	88	821331	806821	<0.2	<0.2	1.6	1.5
						1.0	0.5	249	23.4		8.0		25.7		98.4		7.2		7.4		4		84				<0.2		1.4	
					Middle	3.6	0.3	231	23.4	23.4	8.0	8.0	25.7	25.7	98.6	98.6	7.2		9.6		<2		88				<0.2		1.4	
						3.6	0.3	248	23.4		8.0		25.7		98.6		7.2		9.6		<2		88				<0.2		1.5	
					Bottom	6.2	0.2	342	23.3	23.3	8.0	8.0	25.8	25.8	99.2	99.3	7.3	7.3	14.4		<2		92				<0.2		1.5	
						6.2	0.2	315	23.3		8.0		25.8		99.3		7.3		14.3		<2		92				<0.2		1.5	
IM8	Cloudy	Rough	06:45	7.6	Surface	1.0	0.3	234	23.8	23.8	8.4	8.4	25.0	25.0	100.0	100.0	7.3	7.3	1.5	1.3	3	3	85	87	821847	808122	<0.2	<0.2	2.1	2.0
						1.0	0.3	242	23.8		8.4		25.0		99.9		7.3		1.5		2		84				<0.2		1.9	
					Middle	3.8	0.2	261	23.8	23.8	8.4	8.4	25.0	25.0	100.0	100.1	7.3		1.3		3		87				<0.2		1.9	
						3.8	0.2	281	23.8		8.4		25.0		100.1		7.3		1.3		2		86				<0.2		2.1	
					Bottom	6.6	0.1	308	23.8	23.8	8.4	8.4	24.9	24.9	101.3	101.4	7.4	7.4	1.0		3		89				<0.2		2.0	
						6.6	0.1	310	23.8		8.4		24.9		101.4		7.4		1.0		4		90				<0.2		2.1	

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 13 April 19 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	06:39	7.3	Surface	1.0	0.3	265	23.9	23.9	8.4	8.4	24.8	24.8	100.8	100.8	7.4	7.4	8.4	5.0	4	4	85	87	822117	808797	<0.2	<0.2	1.7	1.6
						1.0	0.3	281	23.9		8.4		24.8		100.7		7.4		8.2		4		84				<0.2		1.5	
					Middle	3.7	0.3	253	23.8	23.8	8.4	8.4	24.9	24.9	100.6	100.6	7.4		3.8		3		87				<0.2		1.6	
						3.7	0.3	267	23.8		8.4		24.9		100.6		7.4		3.8		5		88				<0.2		1.8	
					Bottom	6.3	0.2	244	23.8	23.8	8.5	8.5	24.9	24.9	101.0	101.0	7.4	7.4	2.7		4		89				<0.2		1.6	
						6.3	0.2	249	23.8		8.5		24.9		101.0		7.4		2.8		5		88				<0.2		1.4	
IM10	Cloudy	Rough	06:32	7.4	Surface	1.0	0.3	255	23.8	23.8	8.5	8.5	24.8	24.8	101.1	101.1	7.4	7.4	5.7	3.8	4	3	84	87	822395	809782	<0.2	<0.2	1.4	1.5
						1.0	0.3	271	23.8		8.5		24.8		101.1		7.4		5.7		4		85				<0.2		1.5	
					Middle	3.7	0.3	254	23.9	23.9	8.5	8.5	24.8	24.8	101.2	101.2	7.4		3.7		3		87				<0.2		1.8	
						3.7	0.3	267	23.9		8.5		24.8		101.2		7.4		3.7		3		86				<0.2		1.6	
					Bottom	6.4	0.2	261	24.1	24.2	8.5	8.5	24.8	24.7	100.4	100.4	7.3	7.3	1.8		3		89				<0.2		1.4	
						6.4	0.2	286	24.2		8.5		24.7		100.4		7.3		1.9		3		88				<0.2		1.5	
IM11	Cloudy	Rough	06:21	7.5	Surface	1.0	0.2	233	23.8	23.8	8.4	8.4	25.1	25.1	99.6	99.6	7.3	7.3	3.2	3.2	6	5	85	87	822040	811467	<0.2	<0.2	1.6	1.5
						1.0	0.2	238	23.8		8.4		25.1		99.6		7.3		3.1		4		85				<0.2		1.4	
					Middle	3.8	0.1	254	23.8	23.8	8.4	8.4	25.1	25.1	99.7	99.7	7.3		3.4		6		87				<0.2		1.5	
						3.8	0.1	264	23.8		8.4		25.1		99.7		7.3		3.4		6		86				<0.2		1.4	
					Bottom	6.5	0.1	244	24.0	24.0	8.4	8.4	25.2	25.1	100.1	100.2	7.3	7.3	3.1		5		91				<0.2		1.6	
						6.5	0.1	258	24.0		8.4		25.1		100.3		7.3		3.1		4		89				<0.2		1.6	
IM12	Cloudy	Rough	06:13	8.3	Surface	1.0	0.1	206	23.7	23.7	8.4	8.4	25.9	25.9	99.9	99.9	7.3	7.3	4.7	4.0	3	4	84	87	821481	812043	<0.2	<0.2	1.4	1.4
						1.0	0.1	224	23.7		8.4		25.9		99.9		7.3		4.5		4		83				<0.2		1.6	
					Middle	4.2	0.1	154	23.7	23.7	8.4	8.4	25.2	25.2	100.0	100.0	7.3		4.0		5		87				<0.2		1.4	
						4.2	0.1	155	23.7		8.4		25.2		99.9		7.3		4.1		4		88				<0.2		1.4	
					Bottom	7.3	0.0	58	23.7	23.7	8.4	8.4	25.2	25.2	99.9	99.9	7.3	7.3	3.3		4		90				<0.2		1.4	
						7.3	0.0	63	23.7		8.4		25.2		99.9		7.3		3.3		4		88				<0.2		1.2	
SR1A	Cloudy	Rough	06:00	4.7	Surface	1.0	-	-	23.2	23.2	8.4	8.4	26.6	26.6	100.7	100.7	7.4	7.4	1.8	3.0	3	3	-	-	819979	812660	-	-	-	-
						1.0	-	-	23.1		8.4		26.6		100.6		7.4		1.9		3		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	23.6	23.6	8.4	8.4	26.3	26.3	99.8	99.8	7.3	7.3	4.1		<2		-				-		-	
						3.7	-	-	23.6		8.4		26.3		99.8		7.3		4.1		2		-				-		-	
SR2	Cloudy	Moderate	06:00	4.5	Surface	1.0	0.1	298	23.5	23.5	8.4	8.4	26.4	26.4	99.9	100.0	7.3	7.3	1.2	0.9	2	3	87	87	821482	814147	<0.2	<0.2	1.5	1.3
						1.0	0.1	322	23.5		8.4		26.4		100.0		7.3		1.1		3		85				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.0	96	23.4	23.4	8.4	8.4	26.6	26.6	101.7	101.8	7.4	7.5	0.7		3		88				<0.2		1.4	
						3.5	0.0	104	23.3		8.4		26.7		101.9		7.5		0.7		3		89				<0.2		1.2	
SR3	Cloudy	Rough	06:51	8.3	Surface	1.0	0.4	234	23.8	23.8	8.4	8.4	24.7	24.7	100.6	100.6	7.4	7.4	6.3	3.2	2	2	-	-	822154	807584	-	-	-	-
						1.0	0.4	239	23.8		8.4		24.7		100.6		7.4		6.8		3		-				-		-	
					Middle	4.2	0.3	237	23.8	23.8	8.4	8.4	24.7	24.7	100.8	100.8	7.4		1.6		<2		-				-		-	
						4.2	0.4	238	23.8		8.4		24.7		100.8		7.4		1.7		<2		-				-		-	
					Bottom	7.3	0.1	330	23.8	23.8	8.4	8.4	24.7	24.7	100.9	101.0	7.4	7.4	1.5		<2		-				-		-	
						7.3	0.1	334	23.7		8.4		24.7		101.0		7.4		1.5		<2		-				-		-	
SR4A	Cloudy	Rough	05:37	9.6	Surface	1.0	0.1	184	23.1	23.2	8.1	8.1	29.0	29.0	99.1	99.1	7.2	7.2	8.8	8.6	2	3	-	-	817183	807811	-	-	-	-
						1.0	0.1	191	23.2		8.1		29.0		99.1		7.2		8.8		2		-				-		-	
					Middle	4.8	0.0	113	23.2	23.2	8.1	8.1	28.5	28.5	99.2	99.2	7.2		7.9		3		-				-		-	
						4.8	0.0	122	23.2		8.1		28.5		99.2		7.2		7.9		4		-				-		-	
					Bottom	8.6	0.1	62	23.2	23.2	8.1	8.1	28.5	28.5	99.1	99.1	7.2	7.2	9.1		3		-				-		-	
						8.6	0.1	64	23.2		8.1		28.5		99.1		7.2		9.1		4		-				-		-	
SR5A	Cloudy	Rough	05:20	3.6	Surface	1.0	0.1	8	23.4	23.4	8.0	8.0	25.9	25.9	96.4	96.4	7.1	7.1	8.1	7.7	2	2	-	-	816579	810693	-	-	-	-
						1.0	0.1	8	23.4		8.0		25.9		96.4		7.1		8.1		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	294	23.4	23.4	8.0	8.0	26.3	26.3	96.5	96.6	7.1	7.1	7.3		2		-				-		-	
						2.6	0.1	295	23.4		8.0		26.3		96.7		7.1		7.3		2		-				-		-	
SR6	Cloudy	Rough	04:53	3.2	Surface	1.0	0.1	213	23.2	23.2	7.7	7.7	25.2	25.2	93.5	93.5	6.9	6.9	9.4	8.9	2	3	-	-	817912	814670	-	-	-	-
						1.0	0.1	224	23.2		7.7		25.2		93.5		6.9		9.3		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	238	23.2	23.2	7.6	7.6	25.5	25.5	93.8	93.9	6.9	6.9	8.5		4		-				-		-	
						2.2	0.1	257	23.2		7.6		25.5		93.9		6.9		8.6		3		-				-		-	
SR7	Cloudy	Moderate	05:01	16.5	Surface	1.0	0.2	247	23.2	23.2	8.3	8.3	28.9	28.9	96.8	96.8	7.0	7.0	0.7	1.1	4	3	-	-	823636	823740	-	-	-	-
						1.0	0.2	249	23.2		8.3		28.9		96.8		7.0		0.7		4		-				-		-	
					Middle	8.3	0.3	253	23.2	23.2	8.3	8.3	28.9	28.9	96.5	96.5	7.0		1.0		2		-				-		-	
						8.3	0.3	257	23.2		8.3		28.9		96.5		7.0		1.0		2		-				-		-	
					Bottom	15.5	0.1	251	23.2	23.2	8.3	8.3	29.1	29.1	96.2	96.2	7.0	7.0	1.5		3		-				-		-	
						15.5	0.1	251	23.2		8.3		29.1		96.2		7.0		1.5		2		-				-		-	
SR8	Cloudy	Rough	06:13	5.0	Surface	1.0	-	-	23.7	23.7	8.4	8.4	25.4	25.4	100.6	100.7	7.4	7.4	1.6	1.4	4	3	-	-	820394	811604	-	-	-	-
						1.0	-	-	23.7		8.4		25.4		100.8		7.4		1.6		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	-	-	23.7	23.7	8.4	8.4	25.2	25.3	101.9	101.9	7.5	7.5	1.2		2		-				-		-	
						4.0	-	-	23.6		8.4		25.3		101.9		7.5		1.2		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 16 April 19 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	Rainy	Rough	11:23	9.2	Surface	1.0	0.3	236	23.4	23.4	8.2	8.2	28.2	28.2	90.8	90.8	6.6	6.6	11.4	9.3	5	5	84	88	815640	804227	<0.2	<0.2	1.3	1.4
						1.0	0.3	255	23.4		8.2		28.2		90.8		6.6		11.4		4		85				<0.2		1.3	
					Middle	4.6	0.4	185	23.5	23.5	8.2	8.2	29.4	29.4	90.2	90.2	6.5		5.8		5		88				<0.2		1.9	
						4.6	0.4	193	23.5		8.2		29.4		90.2		6.5		5.8		4		89				<0.2		1.2	
					Bottom	8.2	0.1	252	23.5	23.5	8.2	8.2	29.6	29.6	93.6	93.6	6.7	6.7	10.8		5		91				<0.2		1.2	
						8.2	0.1	261	23.5		8.2		29.6		93.6		6.7		10.8		5		91				<0.2		1.2	
C2	Rainy	Rough	12:49	8.9	Surface	1.0	0.6	181	22.9	22.9	7.9	7.9	21.0	21.0	93.0	93.0	7.1	7.1	3.0	5.3	2	4	88	92	825663	806967	<0.2	<0.2	2.7	2.6
						1.0	0.7	189	22.9		7.9		21.0		93.0		7.1		3.3		3		89				<0.2		2.8	
					Middle	4.5	0.3	163	23.0	23.0	7.9	7.9	23.1	23.1	94.5	94.9	7.1		4.0		5		92				<0.2		2.6	
						4.5	0.3	165	23.0		7.9		23.1		95.2		7.2		4.2		4		92				<0.2		2.6	
					Bottom	7.9	0.0	152	23.0	23.0	7.8	7.8	23.5	23.5	95.0	95.1	7.1	7.1	8.6		5		94				<0.2		2.5	
						7.9	0.0	159	23.0		7.8		23.5		95.1		7.1		8.6		5		94				<0.2		2.5	
C3	Rainy	Rough	10:48	13.3	Surface	1.0	0.5	71	22.6	22.6	7.9	7.9	28.5	28.5	95.6	95.7	7.0	7.0	4.1	4.6	2	2	88	92	822116	817798	<0.2	<0.2	1.1	1.3
						1.0	0.6	77	22.5		7.9		28.6		95.8		7.0		4.1		2		89				<0.2		1.2	
					Middle	6.7	0.4	85	22.5	22.5	7.8	7.8	28.5	28.5	95.2	95.3	7.0		8.7		3		93				<0.2		1.4	
						6.7	0.4	91	22.5		7.8		28.5		95.4		7.0		8.7		2		93				<0.2		1.3	
					Bottom	12.3	0.4	91	22.6	22.6	7.7	7.7	29.4	29.4	92.6	92.7	6.8	6.8	1.2		2		94				<0.2		1.4	
						12.3	0.4	99	22.6		7.7		29.4		92.8		6.8		1.2		2		94				<0.2		1.3	
IM1	Rainy	Rough	11:48	5.4	Surface	1.0	0.4	165	23.4	23.4	8.1	8.1	28.1	28.1	94.4	94.4	6.8	6.8	9.9	9.7	4	4	83	88	817972	807151	<0.2	<0.2	1.2	1.3
						1.0	0.4	167	23.4		8.1		28.1		94.4		6.8		9.9		4		84				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.2	247	23.3	23.3	8.1	8.1	28.2	28.2	97.7	97.7	7.1	7.1	9.5		5		91				<0.2		1.3	
						4.4	0.2	253	23.3		8.1		28.2		97.7		7.1		9.5		4		93				<0.2		1.3	
IM2	Rainy	Rough	11:54	7.6	Surface	1.0	0.3	184	23.5	23.5	8.1	8.1	29.7	29.7	90.4	90.5	6.5	6.5	8.6	8.7	7	6	83	88	818163	806179	<0.2	<0.2	1.3	1.3
						1.0	0.3	196	23.5		8.1		29.7		90.5		6.5		8.6		7		84				<0.2		1.3	
					Middle	3.8	0.2	161	23.5	23.5	8.1	8.1	29.8	29.8	90.6	90.7	6.5		8.4		5		88				<0.2		1.3	
						3.8	0.2	170	23.5		8.1		29.8		90.7		6.5		8.4		5		90				<0.2		1.3	
					Bottom	6.6	0.1	170	23.5	23.5	8.1	8.1	29.8	29.8	90.9	90.9	6.5	6.5	9.2		7		91				<0.2		1.3	
						6.6	0.1	178	23.5		8.1		29.8		90.8		6.5		9.2		7		92				<0.2		1.3	
IM3	Rainy	Rough	12:02	7.4	Surface	1.0	0.4	235	23.5	23.5	8.1	8.1	29.5	29.5	90.4	90.4	6.5	6.5	11.0	11.5	10	11	84	88	818780	805579	<0.2	<0.2	1.2	1.2
						1.0	0.4	236	23.5		8.1		29.5		90.4		6.5		11.0		11		84				<0.2		1.2	
					Middle	3.7	0.3	227	23.5	23.5	8.1	8.1	29.5	29.5	90.3	90.3	6.5		11.1		11		88				<0.2		1.2	
						3.7	0.3	240	23.5		8.1		29.6		90.3		6.5		11.5		10		89				<0.2		1.3	
					Bottom	6.4	0.1	190	23.5	23.5	8.1	8.1	29.6	29.6	90.3	90.3	6.5	6.5	11.9		11		91				<0.2		1.2	
						6.4	0.1	200	23.5		8.1		29.6		90.3		6.5		12.4		10		92				<0.2		1.3	
IM4	Rainy	Rough	12:14	7.6	Surface	1.0	0.7	183	23.5	23.5	8.1	8.1	29.4	29.5	90.8	90.9	6.5	6.5	10.6	10.8	4	4	84	89	819719	804609	<0.2	<0.2	1.3	1.3
						1.0	0.8	186	23.5		8.1		29.5		91.0		6.5		10.7		3		85				<0.2		1.4	
					Middle	3.8	0.6	182	23.5	23.5	8.1	8.1	29.5	29.5	91.0	90.9	6.5		10.7		4		88				<0.2		1.3	
						3.8	0.7	187	23.5		8.1		29.5		90.8		6.5		10.8		4		89				<0.2		1.2	
					Bottom	6.6	0.4	165	23.5	23.5	8.1	8.1	29.5	29.5	90.7	90.7	6.5	6.5	10.8		4		92				<0.2		1.2	
						6.6	0.4	168	23.5		8.1		29.5		90.6		6.5		11.0		4		93				<0.2		1.3	
IM5	Rainy	Rough	12:21	7.1	Surface	1.0	1.0	241	23.5	23.5	8.1	8.1	29.5	29.5	95.9	95.9	6.9	7.0	12.9	11.3	3	3	84	89	820727	804852	<0.2	<0.2	1.3	1.3
						1.0	1.0	255	23.5		8.1		29.5		95.9		6.9		12.9		4		85				<0.2		1.4	
					Middle	3.6	0.9	231	23.2	23.2	8.3	8.3	27.8	27.8	95.9	95.9	7.0		10.3		3		89				<0.2		1.3	
						3.6	1.0	252	23.2		8.3		27.8		95.9		7.0		10.3		2		89				<0.2		1.3	
					Bottom	6.1	0.7	236	23.5	23.5	8.2	8.2	28.0	28.0	90.7	90.8	6.6	6.6	10.5		2		91				<0.2		1.4	
						6.1	0.8	248	23.5		8.2		28.0		90.8		6.6		10.6		2		93				<0.2		1.3	
IM6	Rainy	Rough	12:29	7.6	Surface	1.0	0.8	242	23.4	23.4	8.1	8.1	28.3	28.3	94.6	94.6	6.8	6.8	13.9	12.9	2	2	85	89	821072	805840	<0.2	<0.2	1.4	1.3
						1.0	0.8	259	23.4		8.1		28.3		94.6		6.8		13.9		2		86				<0.2		1.2	
					Middle	3.8	0.9	243	23.5	23.5	8.1	8.1	27.9	27.9	91.8	91.8	6.7		11.9		2		88				<0.2		1.3	
						3.8	0.9	252	23.5		8.1		27.9		91.8		6.7		11.9		2		90				<0.2		1.3	
					Bottom	6.6	0.6	221	23.5	23.5	8.2	8.2	29.3	29.3	93.7	93.7	6.7	6.7	12.8		2		92				<0.2		1.4	
						6.6	0.7	239	23.5		8.2		29.3		93.7		6.7		12.8		2		93				<0.2		1.3	
IM7	Rainy	Rough	12:36	7.8	Surface	1.0	0.8	257	23.5	23.5	8.1	8.1	28.9	28.9	95.4	95.4	6.9	6.8	10.7	12.1	2	3	86	88	821345	806847	<0.2	<0.2	1.4	1.3
						1.0	0.9	275	23.5		8.1		28.9		95.4		6.9		10.7		2		85				<0.2		1.4	
					Middle	3.9	0.9	246	23.4	23.4	8.1	8.1	25.4	25.4	91.6	91.6	6.7		11.0		2		87				<0.2		1.4	
						3.9	0.9	257	23.4		8.1		25.4		91.6		6.7		11.0		2		89				<0.2		1.2	
					Bottom	6.8	0.6	223	23.5	23.5	8.1	8.1	28.3	28.3	92.5	92.5	6.7	6.7	14.6		3		91				<0.2		1.3	
						6.8	0.7	238	23.5		8.1		28.3		92.5		6.7		14.6		4		92				<0.2		1.2	
IM8	Rainy	Moderate	12:31	7.6	Surface	1.0	0.3	187	22.9	22.9	7.9	7.9	23.2	23.2	93.7	93.8	7.1	7.1	1.6	4.0	4	4	88	92	821815	808137	<0.2	<0.2	1.8	1.8
						1.0	0.3	205	22.9		7.9		23.2		93.8		7.1		1.6		4		89				<0.2		1.8	
					Middle	3.8	0.2	206	22.9	22.9	7.9	7.9	23.7	23.7	94.1	94.2	7.1		2.8		3		93				<0.2		1.8	
						3.8	0.2	209	22.9		7.9		23.7		94.2		7.1		2.8		4		94				<0.2		1.7	
					Bottom	6.6	0.2	245	22.9	22.9	7.9	7.8	23.9	23.9	95.0	95.1	7.1	7.1	7.6		3		95				<0.2		1.7	
						6.6	0.2	265	22.9		7.8		23.9		95.1		7.1		7.6		3		95				<0.2		1.7	

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Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
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Water Quality Monitoring
Water Quality Monitoring Results on 16 April 19 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	12:25	6.8	Surface	1.0	0.3	109	23.0	23.0	7.9	7.9	23.6	23.6	93.1	93.1	7.0	7.1	1.7	4.4	3	4	89	93	822070	808826	<0.2	<0.2	1.8	1.7
						1.0	0.3	109	23.0		7.9		23.6		93.1		7.0		1.8		3		90				<0.2		1.7	
					Middle	3.4	0.2	104	23.0	23.0	7.9	7.9	24.0	24.0	94.8	94.8	7.1		7.7		3		93				<0.2		1.8	
						3.4	0.2	111	23.0		7.9		24.0		94.8		7.1		7.7		4		94				<0.2		1.7	
					Bottom	5.8	0.2	99	22.9	22.9	7.9	7.8	24.3	24.3	94.4	94.6	7.1	7.1	3.6		4		95				<0.2		1.8	
						5.8	0.2	105	22.9		7.8		24.3		94.8		7.1		3.8		4		95				<0.2		1.6	
IM10	Rainy	Rough	12:16	7.1	Surface	1.0	0.7	125	23.0	23.0	7.9	7.9	22.7	22.7	94.1	94.2	7.1	7.1	4.5	5.7	<2	3	89	93	822397	809807	<0.2	<0.2	1.5	1.6
						1.0	0.7	134	23.0		7.9		22.7		94.2		7.1		4.8		<2		90				<0.2		1.6	
					Middle	3.6	0.5	105	23.0	23.0	7.9	7.9	23.6	23.6	94.7	94.9	7.1		4.9		2		93				<0.2		1.6	
						3.6	0.6	112	23.0		7.9		23.6		95.0		7.1		4.9		2		94				<0.2		1.6	
					Bottom	6.1	0.3	91	23.0	23.0	7.8	7.8	24.8	24.8	94.7	94.9	7.0	7.1	7.6		4		95				<0.2		1.6	
						6.1	0.3	93	23.0		7.8		24.8		95.0		7.1		7.5		4		95				<0.2		1.6	
IM11	Rainy	Rough	12:02	8.7	Surface	1.0	0.6	122	23.0	23.0	7.9	7.9	25.0	25.0	94.0	94.0	7.0	7.0	3.7	5.6	3	5	88	92	822069	811455	<0.2	<0.2	1.6	1.6
						1.0	0.7	128	23.0		7.9		25.0		94.0		7.0		3.7		3		89				<0.2		1.8	
					Middle	4.4	0.5	118	23.0	23.0	7.9	7.9	25.2	25.2	94.7	94.8	7.0		5.8		5		93				<0.2		1.6	
						4.4	0.5	120	23.0		7.9		25.2		94.9		7.0		5.9		4		93				<0.2		1.6	
					Bottom	7.7	0.3	102	22.9	22.9	7.8	7.8	25.4	25.4	95.9	96.0	7.1	7.1	7.2		8		95				<0.2		1.6	
						7.7	0.3	110	22.9		7.8		25.4		96.1		7.1		7.3		8		95				<0.2		1.6	
IM12	Rainy	Rough	11:54	8.5	Surface	1.0	0.7	106	22.6	22.6	7.9	7.9	25.0	25.0	94.7	94.9	7.1	7.2	2.0	3.1	2	3	89	92	821445	812028	<0.2	<0.2	1.6	1.5
						1.0	0.7	108	22.6		7.9		25.0		95.0		7.1		2.0		2		89				<0.2		1.5	
					Middle	4.3	0.6	105	22.9	22.9	7.9	7.9	24.9	24.9	96.3	96.4	7.2		4.3		2		92				<0.2		1.6	
						4.3	0.6	109	22.8		7.9		25.0		96.5		7.2		4.3		2		93				<0.2		1.5	
					Bottom	7.5	0.3	93	22.8	22.8	7.7	7.7	24.5	24.5	94.6	94.7	7.1	7.1	2.9		5		94				<0.2		1.5	
						7.5	0.4	93	22.8		7.7		24.5		94.7		7.1		2.9		4		94				<0.2		1.5	
SR1A	Rainy	Moderate	11:32	4.8	Surface	1.0	-	-	22.8	22.8	7.9	7.8	24.7	24.7	94.9	95.1	7.1	7.1	3.9	5.0	6	6	-	-	819982	812662	-	-	-	-
						1.0	-	-	22.8		7.8		24.7		95.2		7.1		3.9		5		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	22.7	22.7	7.5	7.5	25.0	25.0	95.4	95.6	7.1	7.2	6.1		6		-				-		-	
						3.8	-	-	22.7		7.5		25.1		95.8		7.2		6.1		6		-				-		-	
SR2	Rainy	Moderate	11:17	5.2	Surface	1.0	0.4	105	22.5	22.5	7.7	7.7	24.8	24.8	94.1	94.0	7.1	7.1	8.7	5.5	4	3	89	91	821449	814187	<0.2	<0.2	1.5	1.5
						1.0	0.5	114	22.5		7.7		24.8		93.8		7.0		8.7		3		90				<0.2		1.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	134	22.5	22.5	7.5	7.5	27.4	27.4	94.3	94.5	7.0	7.0	2.4		2		92				<0.2		1.6	
						4.2	0.2	146	22.5		7.4		27.4		94.7		7.0		2.2		2		92				<0.2		1.5	
SR3	Rainy	Moderate	12:38	8.5	Surface	1.0	0.5	190	23.0	23.0	7.9	7.9	23.4	23.4	94.2	94.2	7.1	7.1	9.3	5.7	4	4	-	-	822136	807569	-	-	-	-
						1.0	0.5	206	23.0		7.9		23.4		94.2		7.1		9.3		4		-				-		-	
					Middle	4.3	0.2	219	22.9	22.9	7.9	7.9	24.0	24.0	94.0	94.0	7.0		3.4		4		-				-		-	
						4.3	0.3	226	22.9		7.9		24.0		94.0		7.0		3.3		4		-				-		-	
					Bottom	7.5	0.1	278	22.9	22.9	7.9	7.9	24.6	24.6	94.8	94.9	7.1	7.1	4.3		5		-				-		-	
						7.5	0.2	293	22.9		7.9		24.6		95.0		7.1		4.3		4		-				-		-	
SR4A	Rainy	Moderate	11:04	8.8	Surface	1.0	0.0	76	23.4	23.4	8.2	8.2	27.8	27.8	91.6	91.6	6.6	6.6	10.0	11.0	4	4	-	-	817168	807804	-	-	-	-
						1.0	0.0	80	23.4		8.2		27.8		91.6		6.6		10.0		4		-				-		-	
					Middle	4.4	0.1	31	23.5	23.5	8.3	8.3	28.6	28.6	91.5	91.5	6.6		11.1		4		-				-		-	
						4.4	0.1	33	23.5		8.3		28.6		91.5		6.6		11.1		4		-				-		-	
					Bottom	7.8	0.1	212	23.5	23.5	8.4	8.4	28.9	28.9	92.5	92.5	6.7	6.7	12.0		3		-				-		-	
						7.8	0.1	220	23.5		8.4		28.9		92.5		6.7		12.0		4		-				-		-	
SR5A	Rainy	Moderate	10:46	4.6	Surface	1.0	0.1	149	23.3	23.3	8.2	8.2	27.7	27.7	92.4	92.4	6.7	6.7	10.8	12.5	6	6	-	-	816612	810696	-	-	-	-
						1.0	0.1	156	23.3		8.2		27.7		92.4		6.7		10.8		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	156	23.3	23.3	8.3	8.3	27.9	27.9	96.0	96.0	7.0	7.0	14.1		6		-				-		-	
						3.6	0.1	166	23.3		8.3		27.9		96.0		7.0		14.1		5		-				-		-	
SR6	Rainy	Moderate	10:12	4.1	Surface	1.0	0.0	90	23.3	23.3	8.1	8.1	27.0	27.0	88.7	88.7	6.5	6.5	9.5	9.6	4	4	-	-	817901	814648	-	-	-	-
						1.0	0.0	95	23.3		8.1		27.0		88.7		6.5		9.5		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	85	23.4	23.4	8.1	8.1	27.1	27.1	89.7	89.7	6.5	6.5	9.6		4		-				-		-	
						3.1	0.1	88	23.4		8.1		27.1		89.7		6.5		9.6		4		-				-		-	
SR7	Rainy	Rough	10:10	16.7	Surface	1.0	0.4	61	22.6	22.6	7.9	7.9	30.4	30.4	91.2	91.2	6.6	6.6	5.3	3.6	<2	<2	-	-	823656	823720	-	-	-	-
						1.0	0.5	65	22.6		7.9		30.5		91.1		6.6		5.3		<2		-				-		-	
					Middle	8.4	0.3	34	22.5	22.5	7.8	7.8	30.6	30.6	91.1	91.0	6.6		1.4		<2		-				-		-	
						8.4	0.3	35	22.5		7.8		30.6		90.9		6.6		1.4		<2		-				-		-	
					Bottom	15.7	0.2	1	22.5	22.5	7.8	7.8	30.8	30.8	90.5	90.5	6.6	6.6	4.1		<2		-				-		-	
						15.7	0.3	1	22.5		7.8		30.8		90.4		6.6		4.1		<2		-				-		-	
SR8	Rainy	Moderate	11:44	5.3	Surface	1.0	-	-	22.8	22.8	7.9	7.9	24.0	24.0	94.0	94.1	7.0	7.1	4.4	5.9	4	6	-	-	820392	811604	-	-	-	-
						1.0	-	-	22.8		7.9		24.0		94.1		7.1		4.6		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	-	-	22.8	22.8	7.9	7.9	24.7	24.7	95.1	95.3	7.1	7.1	7.3		7		-				-		-	
						4.3	-	-	22.8		7.9		24.7		95.4		7.1		7.3		7		-				-		-	

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 April 19 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	Rainy	Rough	15:58	8.4	Surface	1.0	0.1	53	23.5	23.5	7.9	7.9	27.6	27.6	90.9	90.9	6.6	6.6	8.2	7.6	4	4	86	89	815621	804259	<0.2	<0.2	1.7	1.8
						1.0	0.1	64	23.5		7.9		27.6		90.9		6.6		8.2		4		86				<0.2		1.8	
					Middle	4.2	0.1	86	23.5	23.5	8.0	8.0	28.1	28.1	91.2	91.2	6.6		7.7		4		89				<0.2		1.8	
						4.2	0.1	89	23.5		8.0		28.1		91.2		6.6		7.7		4		90				<0.2		1.8	
					Bottom	7.4	0.0	69	23.5	23.5	8.0	8.0	28.9	28.9	91.1	91.1	6.6		6.8		5		91				<0.2		1.7	
						7.4	0.0	68	23.5		8.0		28.9		91.1		6.6		6.8		5		91				<0.2		1.8	
C2	Rainy	Rough	14:50	8.7	Surface	1.0	0.5	77	22.9	22.9	7.9	7.9	21.0	21.0	96.4	96.5	7.3	7.2	3.5	4.2	2	4	88	92	825692	806946	<0.2	<0.2	2.6	2.6
						1.0	0.5	78	22.9		7.9		21.1		96.6		7.4		3.6		3		89				<0.2		2.7	
					Middle	4.4	0.3	34	23.0	23.0	7.9	7.9	22.8	22.8	93.6	93.6	7.1		5.8		4		92				<0.2		2.6	
						4.4	0.3	36	23.0		7.9		22.8		93.5		7.0		5.8		4		93				<0.2		2.6	
					Bottom	7.7	0.1	26	22.9	22.9	7.9	7.9	23.3	23.3	93.3	93.4	7.0	7.0	3.2		5		94				<0.2		2.6	
						7.7	0.1	24	22.9		7.9		23.3		93.4		7.0		3.4		5		94				<0.2		2.6	
C3	Rainy	Rough	16:23	9.5	Surface	1.0	0.3	282	22.9	22.9	7.9	7.9	27.4	27.4	93.8	93.8	6.9	6.9	3.1	2.8	3	4	88	92	822091	817789	<0.2	<0.2	1.3	1.3
						1.0	0.4	288	22.9		7.9		27.4		93.7		6.9		3.1		3		88				<0.2		1.3	
					Middle	4.8	0.3	279	22.9	22.9	7.9	7.9	27.4	27.4	93.9	94.0	6.9		3.8		3		92				<0.2		1.3	
						4.8	0.3	303	22.9		7.9		27.4		94.1		6.9		3.8		4		93				<0.2		1.4	
					Bottom	8.5	0.2	278	22.6	22.6	7.9	7.9	27.8	27.8	96.1	96.1	7.1	7.1	1.5		4		94				<0.2		1.3	
						8.5	0.2	283	22.5		7.8		27.8		96.1		7.1		1.5		4		94				<0.2		1.4	
IM1	Rainy	Rough	15:36	5.4	Surface	1.0	0.2	70	23.5	23.5	8.1	8.1	25.6	25.6	91.1	91.1	6.7	6.7	11.2	12.8	5	5	84	89	817963	807117	<0.2	<0.2	1.8	1.8
						1.0	0.2	74	23.5		8.1		25.6		91.1		6.7		11.2		4		85				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	23	23.5	23.5	8.1	8.1	27.8	27.8	91.3	91.3	6.6	6.6	14.4		6		92				<0.2		1.8	
						4.4	0.1	24	23.5		8.1		27.8		91.3		6.6		14.4		5		94				<0.2		1.7	
IM2	Rainy	Rough	15:31	7.2	Surface	1.0	0.2	44	23.5	23.5	8.0	8.0	28.0	28.0	92.2	92.4	6.7	6.8	9.6	10.5	4	5	84	89	818139	806174	<0.2	<0.2	1.9	1.6
						1.0	0.2	43	23.5		8.0		28.0		92.6		6.7		9.6		5		86				<0.2		1.6	
					Middle	3.6	0.1	53	23.5	23.5	8.1	8.1	24.0	24.0	91.5	91.5	6.8		9.9		6		88				<0.2		1.6	
						3.6	0.1	55	23.5		8.1		24.0		91.5		6.8		9.9		5		90				<0.2		1.4	
					Bottom	6.2	0.0	41	23.5	23.5	8.0	8.0	25.3	25.3	92.2	92.2	6.8	6.8	12.0		6		92				<0.2		1.4	
						6.2	0.0	43	23.5		8.0		25.3		92.2		6.8		12.0		6		93				<0.2		1.5	
IM3	Rainy	Rough	15:22	7.6	Surface	1.0	0.2	68	23.5	23.5	8.1	8.1	28.7	28.7	94.2	94.2	6.8	6.8	11.1	9.2	8	7	85	89	818779	805570	<0.2	<0.2	1.5	1.5
						1.0	0.2	64	23.5		8.1		28.7		94.2		6.8		11.1		7		86				<0.2		1.6	
					Middle	3.8	0.2	63	23.5	23.5	8.0	8.0	23.9	23.9	90.4	90.4	6.7		7.4		8		88				<0.2		1.5	
						3.8	0.2	68	23.5		8.0		23.9		90.4		6.7		7.4		7		90				<0.2		1.5	
					Bottom	6.6	0.1	87	23.5	23.5	8.1	8.1	26.3	26.3	90.6	90.6	6.6	6.6	9.2		7		91				<0.2		1.5	
						6.6	0.1	84	23.5		8.1		26.3		90.6		6.6		9.2		7		93				<0.2		1.5	
IM4	Rainy	Rough	15:15	7.5	Surface	1.0	0.8	64	23.5	23.5	8.1	8.1	28.1	28.1	90.0	90.0	6.5	6.6	7.9	9.1	4	5	84	89	819703	804594	<0.2	<0.2	1.5	1.5
						1.0	0.8	57	23.5		8.1		28.1		90.0		6.5		7.9		5		86				<0.2		1.5	
					Middle	3.8	0.5	64	23.5	23.5	8.1	8.1	24.0	24.0	90.2	90.2	6.7		10.1		4		88				<0.2		1.5	
						3.8	0.6	68	23.5		8.1		24.0		90.2		6.7		10.1		4		90				<0.2		1.4	
					Bottom	6.5	0.6	81	23.5	23.5	8.1	8.1	24.6	24.6	90.2	90.2	6.7	6.7	9.2		5		92				<0.2		1.5	
						6.5	0.6	92	23.5		8.1		24.6		90.2		6.7		9.2		6		93				<0.2		1.4	
IM5	Rainy	Rough	15:08	7.4	Surface	1.0	0.9	45	23.5	23.5	8.1	8.1	28.4	28.4	90.1	90.1	6.5	6.6	8.2	9.3	4	4	84	89	820733	804867	<0.2	<0.2	1.5	1.5
						1.0	1.0	52	23.5		8.1		28.4		90.1		6.5		8.2		4		86				<0.2		1.5	
					Middle	3.7	0.9	44	23.5	23.5	8.1	8.1	23.8	23.8	90.5	90.5	6.7		8.7		5		88				<0.2		1.5	
						3.7	0.9	44	23.5		8.1		23.8		90.5		6.7		8.7		4		90				<0.2		1.4	
					Bottom	6.4	0.6	20	23.5	23.5	8.1	8.1	26.6	26.6	90.5	90.5	6.6	6.6	11.0		4		91				<0.2		1.5	
						6.4	0.7	22	23.5		8.1		26.6		90.5		6.6		11.0		4		92				<0.2		1.3	
IM6	Rainy	Rough	14:56	7.3	Surface	1.0	0.8	46	23.5	23.5	8.1	8.1	27.4	27.4	90.6	90.6	6.6	6.7	9.3	9.7	4	4	84	89	821041	805850	<0.2	<0.2	1.5	1.5
						1.0	0.9	50	23.5		8.1		27.4		90.6		6.6		9.3		4		85				<0.2		1.5	
					Middle	3.7	0.9	39	23.5	23.5	8.1	8.1	24.1	24.1	91.0	91.0	6.7		9.2		5		87				<0.2		1.6	
						3.7	0.9	36	23.5		8.1		24.1		91.0		6.7		9.2		5		89				<0.2		1.4	
					Bottom	6.3	0.6	23	23.5	23.5	8.1	8.1	24.6	24.6	92.9	92.9	6.9	6.9	10.5		4		93				<0.2		1.4	
						6.3	0.6	23	23.5		8.1		24.6		92.9		6.9		10.5		4		94				<0.2		1.4	
IM7	Rainy	Rough	14:47	8.4	Surface	1.0	0.8	51	23.5	23.5	8.0	8.0	28.1	28.1	94.4	94.4	6.8	6.8	10.4	10.7	4	5	83	88	821363	806826	<0.2	<0.2	1.4	1.4
						1.0	0.9	53	23.5		8.0		28.1		94.4		6.8		10.4		4		84				<0.2		1.4	
					Middle	4.2	0.9	44	23.4	23.4	8.1	8.1	24.4	24.4	92.2	92.2	6.8		10.5		4		87				<0.2		1.4	
						4.2	1.0	47	23.4		8.1		24.4		92.2		6.8		10.5		3		88				<0.2		1.3	
					Bottom	7.4	0.6	24	23.5	23.5	8.1	8.1	27.4	27.4	92.7	92.7	6.7	6.7	11.3		6		92				<0.2		1.3	
						7.4	0.6	25	23.5		8.1		27.4		92.7		6.7		11.3		6		93				<0.2		1.4	
IM8	Rainy	Moderate	15:05	7.1	Surface	1.0	0.4	28	23.1	23.1	7.9	7.9	22.4	22.4	94.1	94.1	7.1	7.1	2.1	4.3	3	4	89	92	821826	808132	<0.2	<0.2	2.8	2.8
						1.0	0.5	27	23.1		7.9		22.4		94.1		7.1		2.2		3		90				<0.2		2.8	
					Middle	3.6	0.3	21	23.1	23.1	7.9	7.9	23.1	23.1	95.2	95.4	7.1		3.4		4		91				<0.2		2.7	
						3.6	0.3	22	23.1		7.9		23.1		95.6		7.2		3.7		4		92				<0.2		2.7	
					Bottom	6.1	0.2	23	23.0	23.0	7.9	7.9	23.8	23.9	96.3	96.5	7.2	7.2	7.3		4		95				<0.2		2.7	
						6.1	0.2	21	22.9		7.9		23.9		96.7		7.2		7.1		4		95				<0.2		2.9	

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 16 April 19 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	Rainy	Moderate	15:12	6.8	Surface	1.0	0.3	12	23.1	23.1	7.9	7.9	21.7	21.7	94.1	94.1	7.1	7.1	6.3	4.6	2	3	89	92	822093	808800	<0.2	<0.2	2.8	2.8
						1.0	0.3	13	23.1		7.9		21.7		94.0		7.1		6.5		2		89				<0.2		3.0	
					Middle	3.4	0.2	18	23.1	23.1	7.9	7.9	23.2	23.2	95.1	95.3	7.1		2.1		3		92				<0.2		2.8	
						3.4	0.2	19	23.1		7.9		23.2		95.5		7.2		2.2		3		93				<0.2		2.7	
					Bottom	5.8	0.0	36	22.7	22.7	7.8	7.8	23.5	23.5	97.8	97.9	7.4	7.4	5.5		4		95				<0.2		2.8	
						5.8	0.0	35	22.6		7.8		23.5		97.9		7.4		5.4		4		95				<0.2		2.8	
IM10	Rainy	Moderate	15:20	6.4	Surface	1.0	0.3	323	23.0	23.0	7.9	7.9	24.1	24.1	95.5	95.6	7.1	7.1	3.2	3.6	3	3	89	93	822398	809815	<0.2	<0.2	2.4	2.4
						1.0	0.3	331	23.0		7.9		24.1		95.7		7.2		3.2		3		90				<0.2		2.4	
					Middle	3.2	0.2	320	23.0	23.0	7.9	7.9	24.4	24.4	94.1	94.3	7.0		2.0		4		93				<0.2		2.4	
						3.2	0.3	324	23.0		7.9		24.4		94.4		7.0		2.0		3		93				<0.2		2.4	
					Bottom	5.4	0.2	308	22.9	22.9	7.9	7.9	24.8	24.8	96.2	96.5	7.2	7.2	5.6		3		95				<0.2		2.4	
						5.4	0.2	311	22.8		7.9		24.8		96.7		7.2		5.8		3		96				<0.2		2.4	
IM11	Rainy	Moderate	15:30	8.3	Surface	1.0	0.3	275	23.0	23.0	7.9	7.9	24.6	24.6	94.6	94.7	7.1	7.1	5.7	4.6	3	4	89	93	822068	811442	<0.2	<0.2	2.5	2.5
						1.0	0.4	279	22.9		7.9		24.6		94.8		7.1		5.7		3		90				<0.2		2.5	
					Middle	4.2	0.2	300	22.9	22.9	7.9	7.9	25.0	25.0	95.8	95.9	7.1		3.1		4		93				<0.2		2.5	
						4.2	0.2	304	22.9		7.9		25.0		95.9		7.1		3.3		4		94				<0.2		2.5	
					Bottom	7.3	0.1	335	22.6	22.6	7.9	7.9	25.5	25.5	96.5	96.7	7.2	7.2	5.0		4		95				<0.2		2.5	
						7.3	0.1	336	22.5		7.9		25.5		96.8		7.2		4.6		4		95				<0.2		2.4	
IM12	Rainy	Moderate	15:37	8.1	Surface	1.0	0.4	269	23.1	23.1	7.9	7.9	24.3	24.3	95.2	95.3	7.1	7.2	4.4	4.2	3	4	89	92	821456	812061	<0.2	<0.2	2.1	2.1
						1.0	0.4	266	23.1		7.9		24.3		95.3		7.1		4.6		3		89				<0.2		2.0	
					Middle	4.1	0.2	318	22.9	22.9	7.9	7.9	25.2	25.2	97.9	98.0	7.3		3.3		4		92				<0.2		2.0	
						4.1	0.2	320	22.8		7.9		25.2		98.0		7.3		3.2		5		93				<0.2		2.1	
					Bottom	7.1	0.1	297	22.6	22.5	7.9	7.9	25.4	25.5	97.2	97.3	7.3	7.3	4.9		4		93				<0.2		2.2	
						7.1	0.1	301	22.4		7.9		25.5		97.4		7.3		4.7		5		94				<0.2		2.1	
SR1A	Rainy	Moderate	15:58	4.7	Surface	1.0	-	-	23.0	23.0	8.0	8.0	25.4	25.4	96.2	96.4	7.1	7.2	5.9	7.5	3	4	-	-	819971	812663	-	-	-	-
						1.0	-	-	23.0		8.0		25.4		96.6		7.2		5.9		3		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	22.8	22.8	7.9	7.9	25.7	25.7	98.0	98.1	7.3	7.3	9.1		5		-				-		-	
						3.7	-	-	22.7		7.9		25.7		98.1		7.3		9.1		4		-				-		-	
SR2	Rainy	Moderate	16:10	4.9	Surface	1.0	0.1	72	22.9	22.9	8.0	8.0	25.7	25.7	96.1	96.1	7.1	7.1	2.2	3.0	3	4	88	91	821460	814162	<0.2	<0.2	2.0	2.0
						1.0	0.1	78	22.9		8.0		25.7		96.1		7.1		2.4		3		89				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.0	77	23.0	23.0	8.0	8.0	24.6	24.6	96.0	96.0	7.2	7.2	3.8		4		93				<0.2		2.0	
						3.9	0.0	85	23.0		8.0		24.6		95.9		7.1		3.7		5		93				<0.2		2.0	
SR3	Rainy	Moderate	14:58	8.6	Surface	1.0	0.6	16	23.0	23.0	7.9	7.9	21.7	21.7	94.0	94.0	7.1	7.1	3.0	4.4	4	5	-	-	822139	807568	-	-	-	-
						1.0	0.6	13	23.0		7.9		21.7		93.9		7.1		3.0		4		-				-		-	
					Middle	4.3	0.3	21	23.1	23.1	7.9	7.9	23.5	23.5	94.4	94.6	7.1		4.7		6		-				-		-	
						4.3	0.4	24	23.1		7.9		23.5		94.7		7.1		4.9		6		-				-		-	
					Bottom	7.6	0.3	21	23.0	23.0	7.9	7.9	24.2	24.2	94.4	94.8	7.0	7.1	5.4		6		-				-		-	
						7.6	0.3	21	23.0		7.9		24.2		95.1		7.1		5.4		6		-				-		-	
SR4A	Rainy	Moderate	16:22	9.1	Surface	1.0	0.3	267	23.5	23.5	8.1	8.1	27.8	27.8	91.9	91.9	6.7	6.7	10.1	10.6	5	5	-	-	817204	807791	-	-	-	-
						1.0	0.3	277	23.5		8.1		27.8		91.9		6.7		10.1		5		-				-		-	
					Middle	4.6	0.3	252	23.5	23.5	8.1	8.1	28.8	28.8	92.9	92.9	6.7		11.5		6		-				-		-	
						4.6	0.3	273	23.5		8.1		28.8		92.9		6.7		11.5		5		-				-		-	
					Bottom	8.1	0.1	265	23.5	23.5	8.2	8.2	29.6	29.6	98.3	98.3	7.1	7.1	10.3		6		-				-		-	
						8.1	0.1	285	23.5		8.2		29.6		98.3		7.1		10.3		5		-				-		-	
SR5A	Rainy	Moderate	16:54	4.6	Surface	1.0	0.3	283	23.5	23.5	8.2	8.2	28.8	28.8	95.5	95.7	6.9	6.9	9.1		6		-				-		-	
						1.0	0.3	287	23.5		8.2		28.8		95.9		6.9		9.1		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	281	23.5	23.5	8.2	8.2	28.9	29.0	96.4	97.4	6.9	7.0	9.0		4		-				-		-	
						3.6	0.3	303	23.5		8.2		29.1		98.3		7.1		9.1		4		-				-		-	
SR6	Rainy	Moderate	17:22	4.2	Surface	1.0	0.1	276	23.4	23.4	8.1	8.1	28.6	28.6	94.5	94.7	6.8	6.8	9.1		5		-				-		-	
						1.0	0.1	278	23.4		8.2		28.6		94.8		6.8		9.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	288	23.4	23.4	8.2	8.2	28.7	28.7	95.0	95.1	6.9	6.9	9.1		4		-				-		-	
						3.2	0.1	296	23.5		8.2		28.8		95.2		6.9		9.1		4		-				-		-	
SR7	Rainy	Rough	16:57	16.4	Surface	1.0	0.1	222	22.9	22.9	8.0	8.0	29.1	29.1	94.2	94.3	6.8	6.9	1.1	3.6	2	2	-	-	823634	823721	-	-	-	-
						1.0	0.2	233	22.9		8.0		29.1		94.3		6.9		1.1		2		-				-		-	
					Middle	8.2	0.2	182	22.9	22.9	8.0	8.0	29.1	29.1	94.5	94.5	6.9		4.6		2		-				-		-	
						8.2	0.2	198	22.9		8.0		29.1		94.5		6.9		4.6		2		-				-		-	
					Bottom	15.4	0.0	321	22.9	22.9	7.9	7.9	29.1	29.1	93.8	93.8	6.8	6.8	5.2		2		-				-		-	
						15.4	0.0	352	22.9		7.9		29.1		93.8		6.8		5.2		3		-				-		-	
SR8	Rainy	Moderate	15:49	5.1	Surface	1.0	-	-	23.0	23.0	7.9	7.9	25.4	25.4	95.5	95.5	7.1	7.1	8.4	7.5	4	5	-	-	820366	811610	-	-	-	-
						1.0	-	-	22.9		7.9		25.4		95.5		7.1		8.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	22.7	22.6	7.9	7.9	25.8	25.8	96.9	97.0	7.2	7.2	6.8		5		-				-		-	
						4.1	-	-	22.5		7.9		25.9		97.0		7.2		6.4		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 18 April 19 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	12:23	8.1	Surface	1.0	0.5	228	23.4	23.4	7.9	7.9	25.1	25.1	93.8	93.9	6.9	6.9	7.1	5.7	9	9	81	84	815617	804265	<0.2	<0.2	1.5	1.6
						1.0	0.5	249	23.4		7.9		25.1		93.9		6.9		7.4		8		81				<0.2		1.6	
					Middle	4.1	0.4	209	23.5	23.5	8.0	8.0	25.1	25.1	93.9	94.0	6.9		5.5		9		84				<0.2		1.7	
						4.1	0.4	226	23.5		8.0		25.1		94.0		6.9		5.3		10		84				<0.2		1.6	
					Bottom	7.1	0.4	203	23.9	23.9	7.9	7.9	24.6	24.6	94.7	94.7	6.9	6.9	5.3		9		87				<0.2		1.6	
						7.1	0.4	208	23.9		7.9		24.6		94.6		6.9		3.6		10		87				<0.2		1.6	
C2	Rainy	Rough	13:26	11.2	Surface	1.0	1.0	172	23.9	23.9	8.2	8.2	21.2	21.2	96.1	96.2	7.2	7.3	8.3	7.9	5	5	83	87	825682	806939	<0.2	<0.2	2.2	2.2
						1.0	1.0	176	23.9		8.2		21.2		96.3		7.2		8.2		5		84				<0.2		2.3	
					Middle	5.6	0.6	163	23.9	23.9	8.2	8.2	21.2	21.2	97.3	97.5	7.3		8.5		4		87				<0.2		2.3	
						5.6	0.7	177	23.9		8.2		21.2		97.7		7.3		8.7		5		88				<0.2		2.0	
					Bottom	10.2	0.2	139	23.7	23.7	8.2	8.2	21.3	21.3	99.9	100.1	7.5	7.5	6.9		7		89				<0.2		2.2	
						10.2	0.2	149	23.7		8.2		21.3		100.2		7.5		6.9		6		89				<0.2		2.2	
C3	Cloudy	Moderate	11:15	12.4	Surface	1.0	0.4	58	23.8	23.8	8.2	8.2	26.9	26.9	98.6	98.8	7.1	7.1	2.7	4.8	4	5	83	85	822102	817824	<0.2	<0.2	2.1	2.2
						1.0	0.5	62	23.8		8.2		26.9		98.9		7.2		2.5		5		84				<0.2		2.2	
					Middle	6.2	0.3	97	23.8	23.8	8.2	8.2	26.3	26.3	95.6	95.8	7.0		5.8		5		85				<0.2		2.3	
						6.2	0.3	98	23.8		8.2		26.3		95.9		7.0		5.8		5		85				<0.2		2.2	
					Bottom	11.4	0.4	101	23.9	23.9	8.2	8.2	26.7	26.7	96.0	96.0	7.0	7.0	6.0		6		87				<0.2		2.2	
						11.4	0.4	110	23.9		8.2		26.7		96.0		7.0		6.0		7		87				<0.2		2.2	
IM1	Rainy	Moderate	12:34	5.2	Surface	1.0	0.2	183	23.4	23.4	7.8	7.8	25.4	25.4	94.0	94.0	6.9	6.9	4.9	4.2	10	10	81	84	817941	807126	<0.2	<0.2	1.7	1.7
						1.0	0.2	185	23.4		7.8		25.4		93.9		6.9		4.9		10		82				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	175	23.5	23.5	7.9	7.9	25.3	25.3	93.8	93.8	6.9	6.9	3.4		9		86				<0.2		1.6	
						4.2	0.3	176	23.5		7.9		25.3		93.8		6.9		3.4		9		87				<0.2		1.7	
IM2	Rainy	Moderate	12:39	7.6	Surface	1.0	0.2	225	23.4	23.4	7.9	7.9	24.8	24.8	93.5	93.5	6.9	6.9	8.9	8.5	14	13	80	83	818172	806189	<0.2	<0.2	1.6	1.7
						1.0	0.3	237	23.4		7.9		24.8		93.5		6.9		8.9		13		80				<0.2		1.7	
					Middle	3.8	0.1	222	23.4	23.5	7.9	7.9	24.7	24.7	93.4	93.4	6.9		8.5		13		83				<0.2		1.7	
						3.8	0.1	223	23.5		7.9		24.7		93.4		6.9		8.5		13		83				<0.2		1.7	
					Bottom	6.6	0.1	321	23.6	23.6	7.9	7.9	25.1	25.1	93.6	93.6	6.9	6.9	8.0		14		86				<0.2		1.7	
						6.6	0.1	321	23.6		7.9		25.1		93.6		6.9		8.0		13		86				<0.2		1.7	
IM3	Rainy	Moderate	12:45	7.3	Surface	1.0	0.3	208	23.4	23.4	7.9	7.9	25.1	25.1	93.5	93.5	6.9	6.9	7.9	8.1	13	13	80	83	818792	805610	<0.2	<0.2	1.7	1.7
						1.0	0.3	213	23.4		7.9		25.1		93.5		6.9		8.0		12		80				<0.2		1.7	
					Middle	3.7	0.2	172	23.4	23.4	7.8	7.8	25.1	25.1	93.4	93.4	6.9		7.7		13		83				<0.2		1.7	
						3.7	0.2	179	23.4		7.8		25.1		93.4		6.9		7.8		13		83				<0.2		1.7	
					Bottom	6.3	0.3	134	23.5	23.5	8.0	8.0	25.1	25.1	93.6	93.7	6.9	6.9	8.9		13		85				<0.2		1.6	
						6.3	0.3	145	23.5		8.0		25.1		93.7		6.9		8.6		13		85				<0.2		1.7	
IM4	Rainy	Moderate	12:54	7.1	Surface	1.0	0.8	184	23.4	23.4	7.9	7.9	24.6	24.6	93.8	93.8	6.9	6.9	7.9	8.4	11	11	80	82	819747	804597	<0.2	<0.2	1.6	1.6
						1.0	0.8	197	23.4		7.9		24.6		93.8		6.9		7.8		10		79				<0.2		1.5	
					Middle	3.6	0.7	166	23.4	23.4	7.9	7.9	24.8	24.8	94.0	94.0	6.9		6.9		10		82				<0.2		1.6	
						3.6	0.8	166	23.4		7.9		24.8		94.0		6.9		7.3		11		82				<0.2		1.6	
					Bottom	6.1	0.6	149	23.4	23.4	7.8	7.8	25.0	25.0	94.1	94.2	6.9	6.9	10.3		13		85				<0.2		1.6	
						6.1	0.6	159	23.4		7.8		25.0		94.2		6.9		10.2		12		85				<0.2		1.5	
IM5	Rainy	Moderate	13:07	6.8	Surface	1.0	0.9	249	23.6	23.6	7.9	7.9	24.1	24.1	94.4	94.5	7.0	7.0	7.3	6.8	8	9	80	83	820722	804878	<0.2	<0.2	1.6	1.6
						1.0	0.9	272	23.6		7.9		24.1		94.5		7.0		7.4		9		79				<0.2		1.6	
					Middle	3.4	0.8	232	23.5	23.5	7.9	7.9	23.9	23.9	94.3	94.3	7.0		5.9		10		83				<0.2		1.5	
						3.4	0.9	253	23.5		7.9		23.9		94.3		7.0		6.0		9		83				<0.2		1.5	
					Bottom	5.8	0.7	229	23.8	23.8	7.8	7.8	24.5	24.5	95.3	95.3	7.0	7.0	7.0		10		86				<0.2		1.6	
						5.8	0.8	239	23.8		7.8		24.5		95.3		7.0		6.9		9		86				<0.2		1.6	
IM6	Rainy	Moderate	13:16	6.9	Surface	1.0	0.8	215	23.7	23.7	7.9	7.9	22.1	22.1	94.2	94.2	7.0	7.0	4.3	4.4	5	7	80	83	821062	805820	<0.2	<0.2	1.6	1.6
						1.0	0.8	236	23.7		7.9		22.1		94.2		7.0		4.1		4		80				<0.2		1.5	
					Middle	3.5	0.7	197	23.6	23.6	7.9	7.9	21.6	21.6	93.9	93.9	7.0		2.9		6		83				<0.2		1.6	
						3.5	0.7	201	23.6		7.9		21.6		93.9		7.0		2.9		6		83				<0.2		1.6	
					Bottom	5.9	0.6	191	23.7	23.7	7.9	7.9	24.1	24.1	94.1	94.1	6.9	6.9	6.0		10		86				<0.2		1.5	
						5.9	0.6	206	23.7		7.9		24.1		94.1		6.9		6.0		10		86				<0.2		1.8	
IM7	Rainy	Moderate	13:22	7.4	Surface	1.0	0.8	221	23.6	23.6	7.9	7.9	23.0	23.0	94.1	94.1	7.0	7.1	5.1	5.3	7	7	79	82	821350	806848	<0.2	<0.2	1.6	1.6
						1.0	0.9	232	23.6		7.9		23.0		94.1		7.0		5.1		7		78				<0.2		1.6	
					Middle	3.7	0.8	206	23.6	23.6	7.9	7.9	22.1	22.1	94.5	94.6	7.1		3.8		5		82				<0.2		1.6	
						3.7	0.9	210	23.6		7.9		22.1		94.6		7.1		4.1		4		82				<0.2		1.5	
					Bottom	6.4	0.7	192	23.5	23.5	7.9	7.9	23.6	23.6	94.1	94.2	7.0	7.0	6.8		10		85				<0.2		1.6	
						6.4	0.7	206	23.5		7.9		23.6		94.2		7.0		6.9		9		85				<0.2		1.6	
IM8	Cloudy	Moderate	12:51	7.6	Surface	1.0	0.1	232	23.7	23.7	8.2	8.2	21.6	21.6	97.9	98.0	7.3	7.3	4.7	6.2	4	5	84	87	821821	808148	<0.2	<0.2	2.1	2.0
						1.0	0.1	239	23.7		8.2		21.6		98.0		7.3		4.3		5		84				<0.2		2.0	
					Middle	3.8	0.1	187	23.8	23.8	8.2	8.2	21.6	21.6	98.0	98.1	7.3		5.9		5		87				<0.2		2.0	
						3.8	0.1	189	23.7		8.2		21.6		98.2		7.3		5.2		6		89				<0.2		2.0	
					Bottom	6.6	0.1	190	23.8	23.8	8.2	8.2	21.6	21.6	95.7	95.8	7.2	7.2	8.6		5		88				<0.2		2.1	
						6.6	0.1	192	23.8		8.2		21.6		95.8		7.2		8.6		6		87				<0.2		2.0	

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 18 April 19 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	12:45	7.2	Surface	1.0	0.2	114	23.8	23.8	8.2	8.2	21.5	21.5	96.1	96.1	7.2	7.2	9.4	8.0	6	6	84	86	822099	808822	<0.2	<0.2	2.0	2.0
						1.0	0.2	119	23.8		8.2		21.5		96.1		7.2		9.4		7		83				<0.2		2.1	
					Middle	3.6	0.3	113	23.8	23.8	8.2	8.2	21.5	21.5	95.9	95.9	7.2		8.4		4		87				<0.2		2.0	
						3.6	0.4	121	23.8		8.2		21.5		95.9		7.2		8.4		5		86				<0.2		2.1	
					Bottom	6.2	0.3	99	23.8	23.8	8.2	8.2	21.5	21.5	96.6	96.7	7.2	7.2	6.2		5		88				<0.2		1.9	
						6.2	0.3	104	23.8		8.2		21.5		96.8		7.2		6.4		6		89				<0.2		2.0	
IM10	Cloudy	Moderate	12:36	7.4	Surface	1.0	0.5	117	23.9	23.9	8.2	8.2	21.0	21.0	97.2	97.3	7.3	7.3	4.9	6.3	4	5	84	87	822404	809798	<0.2	<0.2	2.2	2.1
						1.0	0.5	125	23.9		8.2		21.0		97.4		7.3		4.9		5		85				<0.2		2.0	
					Middle	3.7	0.6	122	23.9	23.9	8.2	8.2	20.9	20.9	96.9	97.0	7.3		9.0		4		87				<0.2		2.0	
						3.7	0.7	132	23.9		8.2		20.9		97.0		7.3		9.0		5		88				<0.2		2.1	
					Bottom	6.4	0.6	102	23.9	23.9	8.2	8.2	21.1	21.1	96.6	96.7	7.2	7.2	5.0		5		89				<0.2		2.1	
						6.4	0.6	107	23.9		8.2		21.1		96.7		7.2		5.0		5		88				<0.2		2.0	
IM11	Cloudy	Moderate	12:25	7.6	Surface	1.0	0.7	126	23.9	23.9	8.2	8.2	21.6	21.6	96.1	96.1	7.2	7.2	8.0	8.0	6	6	83	86	822063	811443	<0.2	<0.2	2.0	2.1
						1.0	0.7	127	23.9		8.2		21.6		96.1		7.2		8.0		6		84				<0.2		2.2	
					Middle	3.8	0.6	118	23.9	23.9	8.2	8.2	21.4	21.4	95.3	95.3	7.1		7.6		7		85				<0.2		2.1	
						3.8	0.6	120	23.9		8.2		21.4		95.2		7.1		7.6		6		87				<0.2		2.1	
					Bottom	6.6	0.3	109	23.9	23.9	8.2	8.2	21.3	21.3	95.7	95.8	7.1	7.2	8.1		6		87				<0.2		2.1	
						6.6	0.4	109	23.9		8.2		21.3		95.8		7.2		8.8		5		88				<0.2		2.2	
IM12	Cloudy	Moderate	12:15	8.2	Surface	1.0	0.6	105	23.9	23.9	8.2	8.2	21.4	21.4	94.8	94.8	7.1	7.1	7.7	6.3	6	6	84	85	821440	812037	<0.2	<0.2	2.0	2.1
						1.0	0.7	105	23.9		8.2		21.4		94.8		7.1		7.7		5		83				<0.2		2.2	
					Middle	4.1	0.7	107	23.9	23.9	8.2	8.2	21.5	21.5	95.4	95.4	7.1		5.0		5		85				<0.2		2.0	
						4.1	0.7	112	23.9		8.2		21.5		95.4		7.1		5.2		6		86				<0.2		2.0	
					Bottom	7.2	0.5	104	23.9	23.9	8.2	8.2	21.4	21.4	94.8	94.9	7.1	7.1	6.1		6		87				<0.2		2.0	
						7.2	0.5	106	23.9		8.2		21.4		94.9		7.1		6.3		6		87				<0.2		2.1	
SR1A	Cloudy	Moderate	11:54	4.6	Surface	1.0	-	-	23.8	23.8	8.2	8.2	23.8	23.8	95.7	95.7	7.1	7.1	5.9	6.0	11	9	-	-	819975	812665	-	-	-	-
						1.0	-	-	23.8		8.2		23.8		95.7		7.1		5.9		10		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	23.8	23.8	8.2	8.2	23.9	23.8	96.8	96.9	7.1	7.1	6.2		6		-				-		-	
						3.6	-	-	23.8		8.2		23.8		96.9		7.1		6.2		7		-				-		-	
SR2	Cloudy	Moderate	11:40	4.2	Surface	1.0	0.5	105	23.8	23.8	8.2	8.2	22.4	22.4	95.3	95.3	7.1	7.1	4.6	6.7	4	8	84	86	821460	814167	<0.2	<0.2	2.0	2.1
						1.0	0.6	112	23.8		8.2		22.4		95.3		7.1		4.6		4		85				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.3	112	23.9	23.9	8.2	8.2	22.4	22.4	96.2	96.3	7.1	7.2	9.0		12		87				<0.2		2.0	
						3.2	0.3	121	23.9		8.2		22.4		96.3		7.2		8.8		11		87				<0.2		2.2	
SR3	Rainy	Rough	12:57	8.3	Surface	1.0	0.3	253	23.8	23.8	8.2	8.2	21.1	21.1	98.7	98.7	7.4	7.4	7.6	9.9	6	6	-	-	822130	807548	-	-	-	-
						1.0	0.3	276	23.8		8.2		21.1		98.6		7.4		7.6		5		-				-		-	
					Middle	4.2	0.2	240	23.9	23.9	8.2	8.2	21.1	21.1	97.2	97.3	7.3		10.9		7		-				-		-	
						4.2	0.2	256	23.9		8.2		21.1		97.3		7.3		10.9		6		-				-		-	
					Bottom	7.3	0.2	239	23.8	23.8	8.2	8.2	21.2	21.2	99.0	99.2	7.4	7.4	11.4		5		-				-		-	
						7.3	0.2	243	23.8		8.2		21.2		99.3		7.4		11.2		4		-				-		-	
SR4A	Cloudy	Calm	12:12	9.3	Surface	1.0	0.1	238	23.5	23.5	7.9	7.9	24.6	24.6	94.6	94.6	7.0	7.0	13.1	10.3	9	8	-	-	817176	807811	-	-	-	-
						1.0	0.1	242	23.5		7.9		24.6		94.6		7.0		13.1		8		-				-		-	
					Middle	4.7	0.0	173	23.6	23.6	7.8	7.8	24.6	24.6	94.4	94.4	7.0		6.7		8		-				-		-	
						4.7	0.0	187	23.6		7.8		24.6		94.4		7.0		7.2		8		-				-		-	
					Bottom	8.3	0.1	261	23.8	23.8	7.8	7.8	24.6	24.6	93.8	93.8	6.9	6.9	11.1		9		-				-		-	
						8.3	0.1	278	23.8		7.8		24.6		93.8		6.9		10.7		8		-				-		-	
SR5A	Cloudy	Calm	11:56	3.8	Surface	1.0	0.1	91	23.5	23.5	7.9	7.9	24.5	24.5	93.9	94.0	6.9	6.9	9.1	8.5	9	9	-	-	816588	810681	-	-	-	-
						1.0	0.1	94	23.5		7.9		24.5		94.0		6.9		9.3		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	58	23.7	23.7	8.1	8.1	24.4	24.4	93.0	93.0	6.9	6.9	8.1		8		-				-		-	
						2.8	0.1	61	23.7		8.1		24.4		93.0		6.9		7.5		9		-				-		-	
SR6	Cloudy	Calm	11:25	4.3	Surface	1.0	0.1	81	23.6	23.6	7.9	7.9	23.7	23.7	93.7	93.8	6.9	7.0	4.1	4.9	4	4	-	-	817895	814639	-	-	-	-
						1.0	0.1	82	23.6		7.9		23.7		93.8		7.0		4.1		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.0	300	23.7	23.7	7.8	7.8	23.7	23.7	94.2	94.2	7.0	7.0	6.0		4		-				-		-	
						3.3	0.0	313	23.7		7.8		23.7		94.2		7.0		5.5		5		-				-		-	
SR7	Cloudy	Moderate	10:41	16.8	Surface	1.0	0.5	70	23.5	23.5	8.1	8.1	28.6	28.6	94.1	94.1	6.8	6.8	8.9	10.5	4	4	-	-	823648	823743	-	-	-	-
						1.0	0.5	76	23.5		8.1		28.6		94.0		6.8		9.1		3		-				-		-	
					Middle	8.4	0.2	40	23.6	23.6	8.1	8.1	28.2	28.1	94.5	94.5	6.8		11.5		4		-				-		-	
						8.4	0.2	41	23.6		8.1		28.1		94.5		6.8		11.5		3		-				-		-	
					Bottom	15.8	0.2	31	23.7	23.7	8.1	8.1	28.2	28.1	94.3	94.4	6.8	6.8	11.1		4		-				-		-	
						15.8	0.2	32	23.7		8.1		28.1		94.4		6.8		11.1		4		-				-		-	
SR8	Cloudy	Moderate	12:05	5.1	Surface	1.0	-	-	23.9	23.9	8.2	8.2	22.7	22.7	95.0	95.0	7.0	7.0	11.5	11.1	6	5	-	-	820388	811610	-	-	-	-
						1.0	-	-	23.9		8.2		22.7		95.0		7.0		11.4		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	23.9	23.9	8.2	8.2	22.7	22.7	95.5	95.6	7.1	7.1	10.8		4		-				-		-	
						4.1	-	-	23.9		8.2		22.7		95.7		7.1		10.7		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 18 April 19 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	Rainy	Moderate	17:30	7.9	Surface	1.0	0.3	66	23.5	23.5	8.0	8.0	25.2	25.2	94.8	94.9	7.0	7.0	5.3	5.5	7	7	80	84	815634	804242	<0.2	<0.2	1.6	1.7
						1.0	0.3	67	23.5		8.0		25.2		94.9		7.0		5.5		7		81				<0.2		1.6	
					Middle	4.0	0.4	52	23.6	23.6	7.9	7.9	25.1	25.1	95.1	95.1	7.0		5.2		7		84				<0.2		1.7	
						4.0	0.4	50	23.6		7.9		25.1		95.1		7.0		5.2		7		83				<0.2		1.6	
					Bottom	6.9	0.3	99	23.9	24.0	7.9	7.9	25.0	25.0	94.8	94.8	6.9	6.9	5.9		8		87				<0.2		1.7	
						6.9	0.3	96	24.0		7.9		24.9		94.8		6.9		5.7		7		86				<0.2		1.8	
C2	Rainy	Rough	16:47	11.4	Surface	1.0	0.8	14	23.9	23.9	8.2	8.2	21.2	21.2	95.6	95.7	7.2	7.3	10.0	8.0	10	11	84	87	825670	806921	<0.2	<0.2	2.3	2.3
						1.0	0.9	12	23.9		8.2		21.2		95.8		7.2		9.9		12		84				<0.2		2.3	
					Middle	5.7	0.5	14	23.8	23.8	8.2	8.2	21.2	21.2	97.2	97.5	7.3		8.0		12		88				<0.2		2.2	
						5.7	0.5	12	23.8		8.2		21.2		97.7		7.3		8.8		11		87				<0.2		2.4	
					Bottom	10.4	0.1	15	23.6	23.6	8.2	8.2	21.3	21.3	99.5	99.7	7.5	7.5	5.9		12		89				<0.2		2.1	
						10.4	0.1	16	23.5		8.2		21.3		99.9		7.5		5.3		11		89				<0.2		2.2	
C3	Cloudy	Moderate	18:25	12.1	Surface	1.0	0.3	244	23.7	23.7	8.2	8.2	24.5	24.5	95.7	95.7	7.0	7.1	8.1	9.2	6	8	85	87	822111	817815	<0.2	<0.2	1.9	2.1
						1.0	0.3	244	23.7		8.2		24.5		95.7		7.0		8.1		7		84				<0.2		2.0	
					Middle	6.1	0.2	309	23.8	23.8	8.2	8.2	24.2	24.2	95.9	95.9	7.1		9.0		6		87				<0.2		2.0	
						6.1	0.2	315	23.8		8.2		24.2		95.9		7.1		9.3		8		89				<0.2		2.1	
					Bottom	11.1	0.2	278	23.8	23.8	8.2	8.2	24.2	24.2	97.4	97.6	7.2	7.2	10.6		8		89				<0.2		2.4	
						11.1	0.2	286	23.7		8.2		24.2		97.8		7.2		10.1		10		90				<0.2		2.2	
IM1	Rainy	Moderate	17:21	5.1	Surface	1.0	0.2	67	23.4	23.4	7.9	7.9	25.1	25.1	95.0	95.0	7.0	7.0	9.4	7.6	8	8	83	85	817963	807151	<0.2	<0.2	1.8	1.7
						1.0	0.2	58	23.4		7.9		25.1		95.0		7.0		9.4		8		83				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.1	68	23.4	23.4	7.9	7.9	25.2	25.2	95.4	95.4	7.0	7.0	5.8		9		88				<0.2		1.4	
						4.1	0.1	71	23.4		7.9		25.2		95.4		7.0		5.7		8		87				<0.2		1.8	
IM2	Rainy	Moderate	17:16	7.7	Surface	1.0	0.3	51	23.5	23.5	8.0	8.0	24.4	24.4	95.1	95.1	7.0	7.0	8.6	5.8	8	7	81	84	818158	806149	<0.2	<0.2	1.7	1.7
						1.0	0.3	54	23.5		8.0		24.4		95.1		7.0		8.3		9		81				<0.2		1.6	
					Middle	3.9	0.3	54	23.5	23.5	7.9	7.9	24.7	24.6	94.9	94.9	7.0		4.8		7		84				<0.2		1.7	
						3.9	0.3	55	23.5		7.9		24.6		94.9		7.0		4.7		7		84				<0.2		1.8	
					Bottom	6.7	0.2	63	23.5	23.5	7.9	7.9	24.7	24.7	95.1	95.2	7.0	7.0	4.2		6		87				<0.2		1.7	
						6.7	0.2	64	23.5		7.9		24.7		95.2		7.0		4.2		7		87				<0.2		1.7	
IM3	Rainy	Moderate	17:09	7.4	Surface	1.0	0.5	57	23.5	23.5	8.0	8.0	23.8	23.8	94.2	94.2	7.0	7.0	9.2	10.9	12	17	81	84	818785	805581	<0.2	<0.2	1.8	1.7
						1.0	0.5	55	23.5		8.0		23.8		94.2		7.0		9.2		13		81				<0.2		1.7	
					Middle	3.7	0.3	48	23.4	23.4	8.0	8.0	24.9	24.9	93.9	93.9	6.9		9.0		18		84				<0.2		1.7	
						3.7	0.4	47	23.4		8.0		24.9		93.9		6.9		10.1		16		84				<0.2		1.6	
					Bottom	6.4	0.2	44	23.4	23.4	7.9	7.9	25.1	25.1	94.1	94.2	6.9	6.9	13.9		21		87				<0.2		1.6	
						6.4	0.2	45	23.4		7.9		25.1		94.2		6.9		14.0		20		87				<0.2		1.7	
IM4	Rainy	Moderate	16:59	7.5	Surface	1.0	0.9	48	23.6	23.6	8.0	8.0	24.4	24.4	94.4	94.5	7.0	7.0	16.0	14.4	18	19	80	84	819713	804614	<0.2	<0.2	1.9	1.9
						1.0	0.9	45	23.6		8.0		24.4		94.5		7.0		15.8		19		80				<0.2		1.9	
					Middle	3.8	0.9	68	23.6	23.6	8.0	8.0	24.3	24.3	94.8	94.8	7.0		14.2		20		84				<0.2		1.8	
						3.8	1.0	75	23.6		8.0		24.3		94.8		7.0		14.2		19		84				<0.2		1.8	
					Bottom	6.5	0.7	62	23.6	23.6	8.0	8.0	24.3	24.3	94.6	94.6	7.0	7.0	13.2		18		87				<0.2		1.9	
						6.5	0.7	68	23.6		8.0		24.3		94.6		7.0		13.1		19		87				<0.2		1.9	
IM5	Rainy	Moderate	16:53	7.1	Surface	1.0	0.9	21	23.8	23.8	7.9	7.9	22.7	22.7	94.9	94.9	7.0	7.0	4.4	5.2	8	10	80	83	820748	804848	<0.2	<0.2	1.8	1.8
						1.0	1.0	22	23.8		7.9		22.7		94.9		7.0		4.5		9		81				<0.2		1.8	
					Middle	3.6	0.8	22	23.6	23.6	7.9	7.9	23.2	23.2	94.1	94.2	7.0		6.2		10		83				<0.2		1.9	
						3.6	0.8	24	23.6		7.9		23.2		94.2		7.0		6.1		11		83				<0.2		1.8	
					Bottom	6.1	0.7	26	23.6	23.6	7.9	7.9	23.1	23.1	94.4	94.4	7.0	7.0	4.9		10		86				<0.2		1.8	
						6.1	0.7	25	23.6		7.9		23.1		94.4		7.0		5.1		9		86				<0.2		1.9	
IM6	Rainy	Moderate	16:49	6.8	Surface	1.0	0.9	21	23.8	23.8	7.9	7.9	22.6	22.6	94.6	94.6	7.0	7.0	4.1	5.1	9	10	80	83	821072	805849	<0.2	<0.2	1.6	1.7
						1.0	0.9	22	23.8		7.9		22.6		94.6		7.0		4.4		8		80				<0.2		1.8	
					Middle	3.4	0.8	19	23.6	23.6	7.9	7.9	22.5	22.5	94.0	94.0	7.0		4.1		9		83				<0.2		1.7	
						3.4	0.8	19	23.6		7.9		22.5		94.0		7.0		4.6		8		84				<0.2		1.8	
					Bottom	5.8	0.7	18	23.7	23.7	7.9	7.9	23.3	23.3	94.1	94.2	7.0	7.0	6.6		14		86				<0.2		1.7	
						5.8	0.7	20	23.7		7.9		23.3		94.2		7.0		6.6		13		86				<0.2		1.7	
IM7	Rainy	Moderate	16:41	7.7	Surface	1.0	0.9	26	23.8	23.8	7.9	7.9	22.7	22.7	94.9	94.9	7.1	7.0	4.7	4.7	8	7	80	83	821335	806825	<0.2	<0.2	1.7	1.6
						1.0	1.0	25	23.7		7.9		22.7		94.8		7.0		4.7		8		79				<0.2		1.6	
					Middle	3.9	0.8	13	23.7	23.7	7.9	7.9	22.5	22.5	94.4	94.4	7.0		5.0		7		83				<0.2		1.6	
						3.9	0.8	12	23.7		7.9		22.5		94.4		7.0		5.1		6		83				<0.2		1.6	
					Bottom	6.7	0.7	17	23.6	23.6	7.9	7.9	23.2	23.2	94.2	94.3	7.0	7.0	4.5		7		86				<0.2		1.6	
						6.7	0.7	18	23.6		7.9		23.2		94.3		7.0		4.5		8		86				<0.2		1.7	
IM8	Rainy	Moderate	17:19	7.4	Surface	1.0	0.3	28	24.0	24.0	8.2	8.2	21.5	21.5	96.0	96.0	7.1	7.2	6.3	7.3	9	9	84	87	821828	808144	<0.2	<0.2	2.4	2.3
						1.0	0.3	27	24.0		8.2		21.5		96.0		7.2		6.3		8		85				<0.2		2.2	
					Middle	3.7	0.4	16	24.0	24.0	8.2	8.2	21.5	21.5	96.9	96.9	7.2		6.5		8		87				<0.2		2.3	
						3.7	0.4	16	24.0		8.2		21.5		96.8		7.2		6.5		9		87				<0.2		2.2	
					Bottom	6.4	0.2	23	24.0	24.0	8.2	8.2	21.5	21.5	97.2	97.4	7.2	7.3	9.1		10		89				<0.2		2.2	
						6.4	0.2	25	24.0		8.2		21.5		97.5		7.3		9.2		10		88				<0.2		2.2	

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 18 April 19 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	Rainy	Moderate	17:27	7.0	Surface	1.0	0.4	345	24.0	24.0	8.2	8.2	21.4	21.4	96.7	96.7	7.2	7.2	6.2	6.8	12	11	84	87	822107	808811	<0.2	<0.2	2.2	2.3
						1.0	0.4	344	24.0		8.2		21.4		96.7		7.2		6.3		10		84				<0.2		2.1	
					Middle	3.5	0.3	333	24.0	24.0	8.2	8.2	21.4	21.4	96.6	96.6	7.2		10.0		11		87				<0.2		2.2	
						3.5	0.3	341	24.0		8.2		21.4		96.6		7.2		10.0		10		88				<0.2		2.5	
					Bottom	6.0	0.2	281	23.7	23.7	8.2	8.2	21.6	21.6	100.1	100.2	7.5	7.5	4.5		11		87				<0.2		2.6	
						6.0	0.2	287	23.7		8.2		21.6		100.3		7.5		4.0		10		89				<0.2		2.4	
IM10	Rainy	Moderate	17:37	7.4	Surface	1.0	0.7	330	24.0	24.0	8.2	8.2	21.5	21.5	95.9	96.0	7.2	7.2	7.4	8.7	7	7	85	87	822373	809809	<0.2	<0.2	2.4	2.3
						1.0	0.8	335	24.0		8.2		21.5		96.0		7.2		8.3		6		85				<0.2		2.3	
					Middle	3.7	0.6	319	24.0	24.0	8.2	8.2	21.5	21.5	96.6	96.8	7.2		8.5		7		88				<0.2		2.2	
						3.7	0.7	327	24.0		8.2		21.5		97.0		7.2		8.9		6		87				<0.2		2.2	
					Bottom	6.4	0.5	302	23.9	23.9	8.2	8.2	21.5	21.5	98.7	98.9	7.4	7.4	9.5		8		87				<0.2		2.2	
						6.4	0.6	299	23.9		8.2		21.5		99.1		7.4		9.5		8		89				<0.2		2.2	
IM11	Rainy	Moderate	17:45	7.8	Surface	1.0	0.6	262	24.0	24.0	8.2	8.2	21.7	21.7	95.2	95.2	7.1	7.1	7.1	7.6	7	7	84	87	822033	811457	<0.2	<0.2	2.4	2.3
						1.0	0.7	264	24.0		8.2		21.7		95.2		7.1		7.1		7		85				<0.2		2.3	
					Middle	3.9	0.7	274	24.0	24.0	8.2	8.2	21.6	21.6	95.1	95.1	7.1		7.7		7		88				<0.2		2.2	
						3.9	0.7	276	24.0		8.2		21.6		95.1		7.1		7.7		8		89				<0.2		2.1	
					Bottom	6.8	0.5	275	24.0	24.0	8.2	8.2	21.7	21.7	95.6	95.8	7.1	7.1	8.0		7		88				<0.2		2.5	
						6.8	0.5	268	24.0		8.2		21.7		95.9		7.1		8.0		8		90				<0.2		2.2	
IM12	Rainy	Moderate	17:52	8.2	Surface	1.0	0.5	265	23.9	23.9	8.2	8.2	21.6	21.6	96.1	96.1	7.2	7.2	7.0	7.0	8	9	84	87	821478	812068	<0.2	<0.2	2.3	2.3
						1.0	0.5	267	23.9		8.2		21.6		96.1		7.2		6.9		8		84				<0.2		2.2	
					Middle	4.1	0.6	271	23.9	23.9	8.2	8.2	21.8	21.8	95.8	95.9	7.1		7.1		8		87				<0.2		2.3	
						4.1	0.6	265	23.9		8.2		21.8		96.0		7.1		7.1		10		87				<0.2		2.3	
					Bottom	7.2	0.3	296	23.9	23.9	8.2	8.2	21.8	21.8	96.6	97.3	8.1	7.7	6.9		9		89				<0.2		2.2	
						7.2	0.3	301	23.9		8.2		21.7		97.9		7.3		6.7		8		89				<0.2		2.3	
SR1A	Cloudy	Moderate	18:04	4.7	Surface	1.0	-	-	23.9	23.9	8.2	8.2	22.1	22.1	97.5	97.6	7.2	7.2	6.4	6.3	8	8	-	-	819975	812659	-	-	-	-
						1.0	-	-	23.9		8.2		22.1		97.6		7.2		6.4		7		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	23.9	23.9	8.2	8.2	22.1	22.1	98.2	98.3	7.3	7.3	6.3		8		-				-		-	
						3.7	-	-	23.9		8.2		22.1		98.3		7.3		6.2		8		-				-		-	
SR2	Cloudy	Moderate	18:05	4.3	Surface	1.0	0.4	296	23.9	23.9	8.2	8.2	22.1	22.1	97.1	97.2	7.2	7.2	6.1	9.3	11	9	84	86	821442	814166	<0.2	<0.2	2.3	2.3
						1.0	0.4	288	23.9		8.2		22.1		97.2		7.2		6.1		12		84				<0.2		2.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.3	297	23.9	23.9	8.2	8.2	22.1	22.1	97.2	97.2	7.2	7.2	12.5		7		88				<0.2		2.1	
						3.3	0.3	281	23.9		8.2		22.1		97.1		7.2		12.5		7		88				<0.2		2.3	
SR3	Rainy	Rough	17:12	8.4	Surface	1.0	0.6	23	23.9	23.9	8.2	8.2	21.8	21.8	95.6	95.6	7.1	7.1	11.3	10.6	12	13	-	-	822138	807584	-	-	-	-
						1.0	0.7	24	23.9		8.2		21.8		95.5		7.1		11.3		14		-				-		-	
					Middle	4.2	0.6	20	24.0	24.0	8.2	8.2	21.8	21.8	95.7	95.9	7.1		9.6		14		-				-		-	
						4.2	0.6	22	24.0		8.2		21.8		96.0		7.1		9.8		12		-				-		-	
					Bottom	7.4	0.4	24	23.9	23.9	8.2	8.2	21.9	21.9	97.4	97.6	7.3	7.3	10.9		13		-				-		-	
						7.4	0.4	24	23.9		8.2		21.9		97.7		7.3		10.9		14		-				-		-	
SR4A	Rainy	Calm	17:44	8.6	Surface	1.0	0.6	239	23.5	23.5	7.9	7.9	24.8	24.8	94.3	94.3	6.9	7.0	6.8	6.7	12	11	-	-	817189	807791	-	-	-	-
						1.0	0.6	257	23.5		7.9		24.8		94.3		6.9		6.7		12		-				-		-	
					Middle	4.3	0.6	233	23.6	23.6	7.9	7.9	24.7	24.7	94.6	94.7	7.0		7.5		10		-				-		-	
						4.3	0.6	239	23.6		7.9		24.7		94.7		7.0		7.5		9		-				-		-	
					Bottom	7.6	0.4	237	23.7	23.7	7.9	7.9	25.0	25.0	95.5	95.5	7.0	7.0	5.9		10		-				-		-	
						7.6	0.4	248	23.7		7.9		25.0		95.5		7.0		6.0		10		-				-		-	
SR5A	Rainy	Calm	18:03	3.5	Surface	1.0	0.2	289	23.6	23.6	7.9	7.9	24.5	24.5	95.2	95.4	7.0	7.0	6.4	6.0	11	11	-	-	816594	810715	-	-	-	-
						1.0	0.2	317	23.6		7.9		24.5		95.6		7.0		6.3		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.5	0.2	295	23.8	23.8	7.9	7.9	24.8	24.8	96.8	96.8	7.1	7.1	6.0		11		-				-		-	
						2.5	0.2	312	23.8		7.9		24.8		96.8		7.1		5.5		10		-				-		-	
SR6	Rainy	Calm	18:37	3.9	Surface	1.0	0.0	248	23.5	23.5	7.9	7.9	24.5	24.5	93.0	93.1	6.9	6.9	6.2	4.8	9	9	-	-	817884	814639	-	-	-	-
						1.0	0.0	248	23.5		7.9		24.5		93.1		6.9		6.1		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.0	229	23.5	23.5	7.9	7.9	24.5	24.5	93.6	93.7	6.9	6.9	3.3		9		-				-		-	
						2.9	0.0	230	23.5		7.9		24.5		93.7		6.9		3.4		9		-				-		-	
SR7	Cloudy	Moderate	18:53	16.7	Surface	1.0	0.4	278	23.8	23.8	8.2	8.2	24.0	24.0	96.2	96.3	7.1	7.2	7.0	5.7	6	7	-	-	823644	823760	-	-	-	-
						1.0	0.4	281	23.8		8.2		24.0		96.4		7.1		7.1		7		-				-		-	
					Middle	8.4	0.3	275	23.8	23.8	8.2	8.2	24.1	24.1	97.3	97.5	7.2		6.4		8		-				-		-	
						8.4	0.3	278	23.8		8.2		24.1		97.6		7.2		6.3		8		-				-		-	
					Bottom	15.7	0.2	279	23.8	23.8	8.2	8.2	24.1	24.1	99.4	99.5	7.3	7.3	3.9		7		-				-		-	
						15.7	0.2	283	23.8		8.2		24.1		99.6		7.3		3.7		7		-				-		-	
SR8	Cloudy	Moderate	18:04	5.2	Surface	1.0	-	-	23.9	23.9	8.2	8.2	22.5	22.5	98.0	98.2	7.3	7.3	9.8	7.3	10	9	-	-	820378	811645	-	-	-	-
						1.0	-	-	23.9		8.2		22.5		98.4		7.3		9.2		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	-	-	23.7	23.7	8.2	8.2	22.6	22.7	100.0	100.1	7.4	7.5	5.3		7		-				-		-	
						4.2	-	-	23.6		8.2		22.7		100.2		7.5		4.8		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 20 April 19 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	12:40	8.2	Surface	1.0	0.4	170	24.4	24.4	8.4	8.4	23.9	23.9	98.1	98.1	7.2	7.1	12.8	15.0	13	15	83	88	815620	804248	<0.2	<0.2	1.4	1.5
						1.0	0.4	175	24.4		8.4		23.9		98.0		7.2		12.9		14		83				<0.2		1.6	
					Middle	4.1	0.3	168	24.4	24.4	8.4	8.4	24.3	24.3	96.8	96.8	7.0		11.4		15		88				<0.2		1.4	
						4.1	0.4	169	24.4		8.4		24.3		96.8		7.0		11.4		14		88				<0.2		1.5	
					Bottom	7.2	0.3	159	24.4	24.4	8.4	8.4	25.2	25.2	96.4	96.4	7.0	7.0	20.8		17		91				<0.2		1.4	
						7.2	0.3	164	24.4		8.4		25.2		96.4		7.0		20.9		17		92				<0.2		1.4	
C2	Cloudy	Moderate	11:53	9.6	Surface	1.0	0.5	147	23.8	23.8	7.9	7.9	20.2	19.9	91.6	91.4	6.9	6.9	6.7	7.8	14	16	85	90	825661	806941	<0.2	<0.2	2.4	2.4
						1.0	0.5	147	23.7		7.9		19.7		91.1		6.9		6.8		14		85				<0.2		2.4	
					Middle	4.8	0.5	198	23.8	23.9	7.9	7.9	19.7	20.0	91.2	91.5	6.9		7.0		16		90				<0.2		2.4	
						4.8	0.5	200	24.0		7.9		20.2		91.8		6.9		7.8		16		90				<0.2		2.4	
					Bottom	8.6	0.5	207	24.0	23.9	7.9	7.9	20.3	20.2	91.7	91.6	6.9	6.9	9.4		16		94				<0.2		2.3	
						8.6	0.5	215	23.8		7.9		20.1		91.4		6.9		9.2		17		93				<0.2		2.4	
C3	Rainy	Moderate	13:32	12.3	Surface	1.0	0.5	62	23.6	23.6	7.9	7.9	23.4	23.4	91.8	91.8	6.8	6.8	6.3	7.5	13	15	86	90	822107	817799	<0.2	<0.2	1.9	1.9
						1.0	0.6	66	23.6		7.9		23.4		91.8		6.8		6.1		13		86				<0.2		1.8	
					Middle	6.2	0.3	93	23.5	23.5	7.9	7.9	23.2	23.2	92.1	92.1	6.9		5.5		14		90				<0.2		1.8	
						6.2	0.3	96	23.5		7.9		23.2		92.0		6.8		6.2		15		90				<0.2		2.0	
					Bottom	11.3	0.2	67	23.4	23.4	7.9	7.9	25.6	25.6	91.7	91.8	6.8	6.8	10.6		17		94				<0.2		2.0	
						11.3	0.2	70	23.4		7.9		25.6		91.9		6.8		10.6		17		94				<0.2		2.0	
IM1	Cloudy	Moderate	13:06	5.3	Surface	1.0	0.1	168	24.2	24.2	8.4	8.4	24.5	24.5	97.0	97.0	7.1	7.1	14.3	13.2	14	14	83	87	817935	807108	<0.2	<0.2	2.0	2.0
						1.0	0.1	177	24.2		8.4		24.5		97.0		7.1		14.3		14		84				<0.2		1.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.2	179	25.4	25.4	8.4	8.4	23.5	23.5	99.0	99.0	7.1	7.1	12.1		14		91				<0.2		2.0	
						4.3	0.2	184	25.4		8.4		23.5		98.9		7.1		12.1		15		91				<0.2		2.0	
IM2	Rainy	Moderate	13:11	7.8	Surface	1.0	0.1	147	24.2	24.2	8.4	8.4	24.0	24.0	98.6	98.6	7.2	7.2	10.2	14.2	12	14	83	88	818183	806169	<0.2	<0.2	1.8	1.9
						1.0	0.1	149	24.2		8.4		24.1		98.6		7.2		10.2		13		83				<0.2		1.9	
					Middle	3.9	0.2	171	24.2	24.2	8.4	8.4	24.0	24.0	98.5	98.5	7.2		14.0		14		88				<0.2		1.8	
						3.9	0.2	178	24.2		8.4		24.0		98.5		7.2		14.1		14		88				<0.2		1.8	
					Bottom	6.8	0.2	179	24.1	24.1	8.4	8.4	24.6	24.6	97.1	97.1	7.1	7.1	18.4		15		92				<0.2		1.9	
						6.8	0.2	186	24.1		8.4		24.6		97.1		7.1		18.4		16		93				<0.2		1.9	
IM3	Rainy	Moderate	13:17	7.7	Surface	1.0	0.2	70	24.2	24.2	8.4	8.4	23.7	23.7	97.8	97.8	7.2	7.2	13.2	10.9	10	12	83	88	818783	805571	<0.2	<0.2	2.2	2.3
						1.0	0.3	74	24.2		8.4		23.7		97.8		7.2		13.2		11		84				<0.2		2.4	
					Middle	3.9	0.1	177	24.0	24.0	8.5	8.5	24.8	24.8	96.6	96.6	7.1		9.3		12		88				<0.2		2.3	
						3.9	0.2	187	24.0		8.5		24.8		96.6		7.1		9.4		11		88				<0.2		2.2	
					Bottom	6.7	0.1	214	24.0	24.0	8.5	8.5	26.2	26.2	96.4	96.4	7.0	7.0	10.2		14		91				<0.2		2.3	
						6.7	0.1	229	24.0		8.5		26.2		96.4		7.0		10.2		14		91				<0.2		2.2	
IM4	Rainy	Moderate	13:25	7.6	Surface	1.0	0.1	125	24.1	24.1	8.5	8.5	24.2	24.2	98.3	98.3	7.2	7.2	9.1	14.8	16	21	83	88	819705	804613	<0.2	<0.2	2.4	2.3
						1.0	0.1	128	24.1		8.5		24.2		98.2		7.2		9.1		15		87				<0.2		2.4	
					Middle	3.8	0.2	129	23.9	23.9	8.5	8.5	26.0	26.0	97.2	97.2	7.1		21.8		22		88				<0.2		2.4	
						3.8	0.2	140	23.9		8.5		26.0		97.2		7.1		21.9		23		88				<0.2		2.2	
					Bottom	6.6	0.2	168	23.9	23.9	8.5	8.5	26.9	26.9	97.2	97.3	7.0	7.0	13.6		23		91				<0.2		2.2	
						6.6	0.2	181	23.9		8.5		26.8		97.3		7.0		13.7		24		91				<0.2		2.2	
IM5	Rainy	Moderate	13:34	7.7	Surface	1.0	0.2	114	24.4	24.4	8.4	8.4	24.0	24.0	98.1	98.1	7.2	7.2	16.9	12.7	14	16	83	88	820726	804847	<0.2	<0.2	2.6	2.5
						1.0	0.2	129	24.4		8.4		24.0		98.1		7.2		16.9		14		88				<0.2		2.4	
					Middle	3.9	0.0	133	24.3	24.3	8.4	8.4	24.4	24.4	97.8	97.8	7.1		9.6		15		88				<0.2		2.3	
						3.9	0.0	135	24.3		8.5		24.4		97.8		7.1		9.7		16		88				<0.2		2.4	
					Bottom	6.7	0.2	177	24.2	24.2	8.5	8.5	24.9	24.9	97.3	97.3	7.1	7.1	11.5		17		91				<0.2		2.6	
						6.7	0.2	183	24.2		8.5		24.9		97.3		7.1		11.5		17		92				<0.2		2.5	
IM6	Rainy	Moderate	13:41	8.1	Surface	1.0	0.2	121	24.0	24.0	8.4	8.4	20.3	20.3	96.0	96.0	7.2	7.1	10.4	14.9	11	15	83	88	821044	805838	<0.2	<0.2	2.4	2.4
						1.0	0.2	125	23.9		8.4		20.3		95.9		7.2		10.4		10		88				<0.2		2.4	
					Middle	4.1	0.0	154	23.9	23.9	8.4	8.4	23.9	23.9	95.8	95.8	7.0		18.6		15		88				<0.2		2.4	
						4.1	0.0	168	23.9		8.4		23.9		95.8		7.0		18.6		14		88				<0.2		2.4	
					Bottom	7.1	0.1	203	24.0	24.0	8.5	8.5	24.5	24.5	96.0	96.0	7.0	7.0	15.8		18		91				<0.2		2.4	
						7.1	0.1	210	24.0		8.5		24.5		96.0		7.0		15.9		19		91				<0.2		2.3	
IM7	Rainy	Moderate	13:48	8.2	Surface	1.0	0.2	168	24.1	24.1	8.3	8.3	18.6	18.6	94.5	94.5	7.1	7.1	7.1	9.2	8	10	83	88	821348	806811	<0.2	<0.2	2.4	2.7
						1.0	0.2	171	24.1		8.3		18.6		94.4		7.1		7.2		7		84				<0.2		2.5	
					Middle	4.1	0.1	159	24.0	24.0	8.4	8.4	19.4	19.4	94.1	94.2	7.1		6.3		8		88				<0.2		2.5	
						4.1	0.1	161	24.0		8.4		19.4		94.2		7.1		6.4		9		88				<0.2		2.5	
					Bottom	7.2	0.2	210	24.1	24.1	8.4	8.4	21.6	21.6	95.6	95.7	7.1	7.1	13.9		14		91				<0.2		2.4	
						7.2	0.2	217	24.1		8.4		21.6		95.7		7.1		14.0		14		91				<0.2		3.7	
IM8	Cloudy	Moderate	12:15	8.3	Surface	1.0	0.2	165	23.6	23.6	7.9	7.9	20.9	20.8	90.3	90.4	6.8	6.9	5.3	7.4	10	14	86	90	821808	808121	<0.2	<0.2	2.5	2.5
						1.0	0.2	170	23.6		7.9		20.8		90.4		6.8		5.3		11		86				<0.2		2.5	
					Middle	4.2	0.3	177	23.7	23.7	7.9	7.9	20.6	20.6	91.3	91.5	6.9		5.3		14		91				<0.2		2.4	
						4.2	0.3	181	23.7		7.9		20.6		91.6		6.9		5.5		14		90				<0.2		2.4	
					Bottom	7.3	0.2	153	23.6	23.6	7.9	7.9	23.9	23.9	93.8	93.9	6.9	6.9	11.5		16		94				<0.2		2.6	
						7.3	0.2	155	23.6		7.9		23.9		93.9		6.9		11.6		18		94				<0.2		2.5	

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 20 April 19 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	12:22	8.7	Surface	1.0	0.4	143	23.6	23.6	7.9	7.9	20.4	20.4	90.9	91.0	6.9	6.9	5.2	9.2	9	11	86	90	822092	808813	<0.2	<0.2	2.5	2.3
						1.0	0.5	156	23.6		7.9		20.4		91.0		6.9		5.4		10		86				<0.2		2.6	
					Middle	4.4	0.4	117	23.5	23.5	7.9	7.9	20.2	20.2	91.3	91.4	6.9		5.1		10		90				<0.2		2.4	
						4.4	0.4	127	23.5		7.9		20.2		91.4		6.9		5.7		10		91				<0.2		2.6	
					Bottom	7.7	0.4	103	23.5	23.5	7.9	7.9	23.4	23.4	91.6	91.7	6.8	6.8	17.0		13		94				<0.2		2.0	
						7.7	0.4	105	23.5		7.9		23.4		91.7		6.8		16.9		13		94				<0.2		1.9	
IM10	Cloudy	Moderate	12:28	8.4	Surface	1.0	0.8	133	23.5	23.5	7.9	7.9	21.3	21.3	90.9	91.0	6.8	6.9	5.3	6.5	10	12	86	90	822388	809783	<0.2	<0.2	2.4	2.3
						1.0	0.9	135	23.5		7.9		21.3		91.0		6.8		5.3		10		86				<0.2		2.4	
					Middle	4.2	0.7	115	23.6	23.6	7.9	7.9	21.2	21.2	91.5	91.5	6.9		5.9		11		91				<0.2		2.4	
						4.2	0.8	125	23.6		7.9		21.2		91.5		6.9		6.0		10		90				<0.2		2.3	
					Bottom	7.4	0.6	103	23.5	23.5	7.9	7.9	23.0	23.0	91.3	91.4	6.8	6.8	8.1		14		94				<0.2		2.1	
						7.4	0.6	110	23.5		7.9		23.0		91.5		6.8		8.2		15		94				<0.2		2.0	
IM11	Cloudy	Moderate	12:40	7.8	Surface	1.0	0.8	101	23.6	23.6	7.9	7.9	21.8	21.8	91.4	91.5	6.8	6.9	11.4	14.7	21	22	85	90	822069	811479	<0.2	<0.2	2.3	2.3
						1.0	0.8	109	23.6		7.9		21.8		91.5		6.8		11.6		22		86				<0.2		2.2	
					Middle	3.9	0.7	111	23.5	23.5	7.9	7.9	22.0	22.0	92.2	92.3	6.9		15.7		21		90				<0.2		2.4	
						3.9	0.7	116	23.5		7.9		22.0		92.3		6.9		14.6		22		91				<0.2		2.3	
					Bottom	6.8	0.6	112	23.4	23.4	7.9	7.9	22.1	22.1	91.5	91.5	6.9	6.9	17.6		23		94				<0.2		2.4	
						6.8	0.7	120	23.4		7.9		22.1		91.5		6.9		17.5		22		95				<0.2		2.4	
IM12	Rainy	Moderate	12:48	8.2	Surface	1.0	0.7	114	23.5	23.5	7.9	7.9	21.1	21.1	91.4	91.4	6.9	6.9	8.4	11.0	18	20	86	91	821445	812033	<0.2	<0.2	2.4	2.2
						1.0	0.8	123	23.5		7.9		21.1		91.4		6.9		8.2		19		90				<0.2		2.3	
					Middle	4.1	0.4	98	23.6	23.6	7.9	7.9	21.7	21.7	91.5	91.5	6.9		10.9		18		90				<0.2		2.1	
						4.1	0.4	99	23.6		7.9		21.7		91.5		6.9		10.9		19		90				<0.2		2.2	
					Bottom	7.2	0.3	65	23.5	23.5	7.9	7.9	22.5	22.5	92.1	92.2	6.9	6.9	13.9		21		94				<0.2		2.2	
						7.2	0.4	66	23.5		7.9		22.5		92.2		6.9		13.7		22		94				<0.2		2.0	
SR1A	Rainy	Moderate	13:03	5.5	Surface	1.0	-	-	23.8	23.8	7.9	7.9	21.1	21.1	92.7	92.7	7.0	7.0	7.6	8.5	14	14	-	-	819977	812660	-	-	-	-
						1.0	-	-	23.7		7.9		21.1		92.7		7.0		7.6		13		-				-		-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.5	-	-	23.6	23.6	7.9	7.9	21.1	21.1	93.0	93.1	7.0	7.0	9.1		15		-				-		-	
						4.5	-	-	23.6		7.9		21.1		93.2		7.0		9.5		15		-				-		-	
SR2	Rainy	Moderate	13:14	4.4	Surface	1.0	0.8	96	23.6	23.6	7.9	7.9	22.3	22.3	92.2	92.2	6.9	6.9	7.8	8.5	18	18	86	88	821455	814166	<0.2	<0.2	2.6	2.5
						1.0	0.8	98	23.6		7.9		22.3		92.2		6.9		7.9		18		86				<0.2		3.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.6	92	23.6	23.6	7.9	7.9	22.6	22.6	92.3	92.4	6.9	6.9	9.2		18		91				<0.2		2.3	
						3.4	0.6	93	23.6		7.9		22.6		92.5		6.9		9.2		19		90				<0.2		2.2	
SR3	Cloudy	Moderate	12:09	8.6	Surface	1.0	0.1	210	23.6	23.6	7.9	7.9	20.4	20.4	89.8	89.8	6.8	6.8	5.8	8.0	12	17	-	-	822151	807551	-	-	-	-
						1.0	0.1	224	23.6		7.9		20.4		89.8		6.8		5.7		13		-				-		-	
					Middle	4.3	0.1	172	23.7	23.7	7.9	7.9	19.9	19.9	90.4	90.6	6.8		5.1		16		-				-		-	
						4.3	0.1	176	23.7		7.9		19.9		90.7		6.9		5.0		16		-				-		-	
					Bottom	7.6	0.1	91	23.5	23.5	7.9	7.9	23.0	23.0	92.2	92.3	6.9	6.9	12.7		22		-				-		-	
						7.6	0.1	94	23.5		7.9		23.0		92.4		6.9		13.9		23		-				-		-	
SR4A	Cloudy	Moderate	12:28	9.6	Surface	1.0	0.4	63	24.4	24.4	8.4	8.4	23.5	23.5	96.2	96.2	7.0	7.0	12.1	14.3	16	20	-	-	817192	807831	-	-	-	-
						1.0	0.4	66	24.4		8.4		23.5		96.2		7.0		12.1		16		-				-		-	
					Middle	4.8	0.3	59	24.4	24.4	8.4	8.4	24.3	24.3	95.5	95.5	7.0		13.8		20		-				-		-	
						4.8	0.3	59	24.4		8.4		24.3		95.5		7.0		13.9		20		-				-		-	
					Bottom	8.6	0.2	58	24.4	24.4	8.4	8.4	24.7	24.7	96.1	96.1	7.0	7.0	16.9		24		-				-		-	
						8.6	0.2	61	24.4		8.4		24.7		96.1		7.0		17.0		23		-				-		-	
SR5A	Cloudy	Moderate	12:09	4.5	Surface	1.0	0.1	112	24.0	24.0	8.4	8.4	23.8	23.8	94.3	94.3	6.9	6.9	10.6		12		-				-		-	
						1.0	0.1	114	24.0		8.4		23.8		94.3		6.9		10.6		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	10.6	-	13	-	-	816597	810687	-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.3	121	24.0	24.0	8.4	8.4	23.7	23.8	94.4	94.5	6.9	6.9	10.5		14		-				-		-	
						3.5	0.3	131	24.0		8.4		23.9		94.5		6.9		10.6		13		-				-		-	
SR6	Cloudy	Moderate	11:54	4.7	Surface	1.0	0.1	182	23.9	23.9	8.2	8.2	21.9	21.9	95.1	95.1	7.1	7.1	4.4	7.7	9	11	-	-	817905	814660	-	-	-	-
						1.0	0.1	191	23.8		8.2		21.9		95.0		7.1		4.4		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.0	146	23.8	23.8	8.2	8.2	22.4	22.4	93.8	93.8	7.0	7.0	11.0		12		-				-		-	
						3.7	0.0	147	23.8		8.2		22.4		93.8		7.0		11.0		12		-				-		-	
SR7	Rainy	Moderate	13:56	14.8	Surface	1.0	1.2	78	23.5	23.5	7.9	7.9	24.3	24.3	92.9	92.9	6.9	6.9	4.3	3.9	8	9	-	-	823619	823762	-	-	-	-
						1.0	1.2	79	23.5		7.9		24.3		92.9		6.9		4.1		8		-				-		-	
					Middle	7.4	0.8	91	23.5	23.5	7.9	7.9	24.3	24.3	92.6	92.5	6.8	6.9	3.0		9		-				-		-	
						7.4	0.8	93	23.5		7.9		24.3		92.4		6.8		3.1		10		-				-		-	
					Bottom	13.8	0.4	132	23.4	23.4	7.9	7.9	26.1	26.1	92.2	92.3	6.8	6.8	4.2		10		-				-		-	
						13.8	0.4	138	23.4		7.9		26.1		92.3		6.8		4.5		10		-				-		-	
SR8	Rainy	Moderate	12:54	4.8	Surface	1.0	-	-	23.7	23.7	7.9	7.9	21.4	21.4	92.7	92.8	6.9	7.0	8.0	8.4	14	15	-	-	820370	811604	-	-	-	-
						1.0	-	-	23.7		7.9		21.4		92.8		7.0		8.3		14		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	23.7	23.7	7.9	7.9	21.6	21.6	93.6	93.8	7.0	7.0	8.9		16		-				-		-	
						3.8	-	-	23.7		7.9		21.6		93.9		7.0		8.7		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 20 April 19 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	Rainy	Moderate	20:07	8.6	Surface	1.0	0.1	28	24.4	24.4	8.4	8.4	24.7	24.7	98.0	98.0	7.1	7.1	12.9	13.4	16	20	86	89	815611	804235	<0.2	<0.2	1.6	1.7
						1.0	0.1	30	24.4		8.4		24.7		98.0		7.1		12.9		15		85				<0.2		1.6	
					Middle	4.3	0.1	99	24.4	24.4	8.4	8.4	24.7	24.7	98.0	98.0	7.1		13.8		20		87				<0.2		1.6	
						4.3	0.1	105	24.4		8.4		24.7		98.0		7.1		13.9		19		89				<0.2		1.8	
					Bottom	7.6	0.1	184	24.4	24.4	8.4	8.4	24.8	24.8	98.1	98.1	7.1	7.1	13.5		23		91				<0.2		1.6	
						7.6	0.1	193	24.4		8.4		24.8		98.1		7.1		13.5		24		93				<0.2		1.7	
C2	Cloudy	Moderate	20:56	11.5	Surface	1.0	0.1	102	23.5	23.5	7.9	7.9	20.5	20.5	92.0	92.0	6.9	7.0	10.4	10.9	16	16	87	91	825689	806950	<0.2	<0.2	2.6	2.6
						1.0	0.1	106	23.5		7.9		20.5		92.0		7.0		10.5		15		88				<0.2		2.6	
					Middle	5.8	0.5	69	23.7	23.7	7.9	7.9	19.4	19.4	92.0	92.0	7.0		8.0		15		91				<0.2		2.8	
						5.8	0.5	74	23.7		7.9		19.4		92.0		7.0		8.7		16		91				<0.2		2.4	
					Bottom	10.5	0.6	52	23.5	23.5	7.9	7.9	20.9	20.9	91.6	91.6	6.9	6.9	14.0		16		95				<0.2		2.5	
						10.5	0.6	55	23.5		7.9		20.9		91.6		6.9		14.0		17		96				<0.2		2.4	
C3	Rainy	Moderate	19:01	10.8	Surface	1.0	0.3	256	23.3	23.3	7.9	7.9	26.5	26.5	91.0	91.0	6.7	6.7	2.4	4.4	7	12	87	91	822088	817803	<0.2	<0.2	1.8	2.1
						1.0	0.3	271	23.3		7.9		26.5		90.9		6.7		2.4		8		88				<0.2		1.8	
					Middle	5.4	0.5	266	23.3	23.3	7.9	7.9	27.3	27.3	91.6	91.6	6.7		3.2		12		91				<0.2		2.5	
						5.4	0.5	285	23.3		7.9		27.3		91.6		6.7		3.6		13		91				<0.2		2.6	
					Bottom	9.8	0.3	277	23.2	23.2	7.9	7.9	28.5	28.5	90.5	90.6	6.6	6.6	7.5		15		95				<0.2		1.6	
						9.8	0.3	288	23.2		7.9		28.5		90.6		6.6		7.4		15		94				<0.2		2.1	
IM1	Rainy	Moderate	19:22	3.8	Surface	1.0	0.2	353	24.2	24.2	8.4	8.4	24.2	24.2	98.0	98.0	7.2	7.2	8.2	8.6	19	20	85	89	817966	807112	<0.2	<0.2	1.6	1.7
						1.0	0.3	325	24.2		8.4		24.2		97.9		7.2		8.2		19		86				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	209	24.2	24.2	8.4	8.4	24.4	24.4	97.7	97.7	7.1	7.1	8.9		21		91				<0.2		1.7	
						2.8	0.1	212	24.2		8.4		24.4		97.7		7.1		8.9		22		92				<0.2		1.9	
IM2	Rainy	Moderate	19:17	7.5	Surface	1.0	0.4	359	24.2	24.2	8.4	8.4	24.2	24.2	98.2	98.2	7.2	7.2	6.9	8.3	12	14	86	89	818172	806172	<0.2	<0.2	1.6	1.6
						1.0	0.4	330	24.2		8.4		24.2		98.2		7.2		6.9		13		86				<0.2		1.6	
					Middle	3.8	0.2	27	24.2	24.2	8.4	8.4	24.2	24.2	98.0	98.0	7.2		6.6		15		89				<0.2		1.6	
						3.8	0.2	28	24.2		8.4		24.2		98.0		7.2		6.7		15		90				<0.2		1.6	
					Bottom	6.5	0.2	5	24.3	24.3	8.4	8.4	24.5	24.5	98.0	98.0	7.1	7.1	11.4		15		91				<0.2		1.6	
						6.5	0.2	5	24.3		8.4		24.5		97.9		7.1		11.3		16		91				<0.2		1.6	
IM3	Rainy	Moderate	19:08	8.1	Surface	1.0	0.4	38	24.1	24.1	8.4	8.4	23.3	23.2	97.5	97.5	7.2	7.2	9.3	9.7	14	16	84	89	818792	805577	<0.2	<0.2	2.1	1.8
						1.0	0.4	38	24.1		8.4		23.2		97.5		7.2		9.3		15		86				<0.2		1.9	
					Middle	4.1	0.2	16	24.1	24.1	8.4	8.4	24.1	24.1	97.4	97.4	7.1		9.2		15		88				<0.2		1.8	
						4.1	0.2	16	24.1		8.4		24.1		97.4		7.1		9.2		15		90				<0.2		1.6	
					Bottom	7.1	0.1	42	24.0	24.0	8.5	8.5	26.1	26.1	96.7	96.8	7.0	7.0	10.7		19		91				<0.2		1.7	
						7.1	0.1	42	24.0		8.5		26.1		96.8		7.0		10.8		18		92				<0.2		1.9	
IM4	Rainy	Moderate	18:57	8.0	Surface	1.0	0.2	23	24.3	24.3	8.5	8.5	24.6	24.5	98.0	98.0	7.1	7.1	12.5	15.3	19	21	84	89	819717	804586	<0.2	<0.2	2.8	2.0
						1.0	0.3	23	24.3		8.5		24.5		98.0		7.1		12.5		18		85				<0.2		1.8	
					Middle	4.0	0.3	15	24.3	24.3	8.5	8.5	25.4	25.4	98.1	98.1	7.1		15.2		22		87				<0.2		1.9	
						4.0	0.3	16	24.3		8.5		25.4		98.0		7.1		15.2		22		89				<0.2		2.0	
					Bottom	7.0	0.1	345	24.2	24.2	8.5	8.5	26.0	26.0	97.2	97.2	7.0	7.0	18.0		22		93				<0.2		1.8	
						7.0	0.2	355	24.2		8.5		26.0		97.2		7.0		18.0		22		94				<0.2		1.7	
IM5	Rainy	Moderate	18:46	7.8	Surface	1.0	0.5	3	24.4	24.4	8.4	8.4	23.7	23.7	98.2	98.2	7.2	7.2	6.4	9.9	19	20	83	88	820722	804864	<0.2	<0.2	1.5	1.5
						1.0	0.5	3	24.4		8.4		23.7		98.2		7.2		6.4		20		84				<0.2		1.5	
					Middle	3.9	0.3	2	24.3	24.3	8.4	8.4	23.7	23.7	97.9	97.9	7.2		8.2		19		87				<0.2		1.4	
						3.9	0.4	2	24.3		8.4		23.7		97.9		7.2		8.2		20		88				<0.2		1.5	
					Bottom	6.8	0.3	36	24.2	24.2	8.5	8.5	25.7	25.7	97.6	97.6	7.1	7.1	15.0		21		92				<0.2		1.4	
						6.8	0.3	36	24.2		8.5		25.7		97.6		7.1		15.1		22		93				<0.2		1.5	
IM6	Rainy	Moderate	18:35	7.6	Surface	1.0	0.1	306	24.0	24.0	8.4	8.4	21.6	21.6	95.6	95.6	7.1	7.1	14.7	14.1	11	14	84	89	821074	805840	<0.2	<0.2	1.6	1.6
						1.0	0.1	308	24.0		8.4		21.6		95.6		7.1		14.7		11		84				<0.2		1.6	
					Middle	3.8	0.1	35	24.0	24.0	8.4	8.4	22.1	22.1	95.8	95.9	7.1		8.2		14		88				<0.2		1.7	
						3.8	0.1	37	24.0		8.4		22.1		95.9		7.1		8.2		15		92				<0.2		1.7	
					Bottom	6.6	0.3	26	24.0	24.0	8.4	8.4	24.4	24.4	96.7	96.8	7.1	7.1	19.4		17		92				<0.2		1.6	
						6.6	0.3	28	24.0		8.4		24.4		96.8		7.1		19.3		16		93				<0.2		1.5	
IM7	Rainy	Moderate	18:29	7.9	Surface	1.0	0.2	315	23.9	23.9	8.3	8.3	18.4	18.4	95.0	95.1	7.2	7.2	8.0	8.6	11	15	83	88	821360	806817	<0.2	<0.2	1.7	1.8
						1.0	0.2	335	23.9		8.3		18.4		95.1		7.2		8.1		12		84				<0.2		2.0	
					Middle	4.0	0.2	51	24.0	24.0	8.4	8.4	19.5	19.5	95.0	95.1	7.2		6.4		12		88				<0.2		1.8	
						4.0	0.2	54	24.0		8.4		19.5		95.1		7.2		6.5		13		88				<0.2		1.7	
					Bottom	6.9	0.2	91	24.0	24.0	8.4	8.4	22.1	22.1	95.5	95.5	7.1	7.1	11.3		20		91				<0.2		1.7	
						6.9	0.2	93	24.0		8.4		22.1		95.5		7.1		11.4		19		92				<0.2		1.7	
IM8	Rainy	Moderate	20:30	8.0	Surface	1.0	0.3	63	23.4	23.4	7.9	7.9	19.5	19.5	90.7	90.8	6.9	7.0	4.8	5.8	16	19	88	92	821833	808122	<0.2	<0.2	2.4	2.4
						1.0	0.3	66	23.4		7.9		19.5		90.8		6.9		4.9		16		88				<0.2		2.4	
					Middle	4.0	0.5	81	23.4	23.4	7.9	7.9	19.3	19.3	92.1	92.3	7.0		5.2		19		91				<0.2		2.4	
						4.0	0.6	87	23.4		7.9		19.3		92.5		7.1		5.3		19		92				<0.2		2.6	
					Bottom	7.0	0.4	69	23.4	23.4	7.9	7.9	20.3	20.3	92.0	92.1	7.0	7.0	7.2		20		95				<0.2		2.2	
						7.0	0.4	69	23.4		7.9		20.3		92.1		7.0		7.7		21		95				<0.2		2.1	

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 20 April 19 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	Rainy	Moderate	20:23	7.6	Surface	1.0	0.2	64	23.4	23.4	7.9	7.9	19.8	19.8	90.0	90.1	6.8	6.9	6.4	10.6	11	12	88	92	822074	808789	<0.2	<0.2	1.9	2.3
						1.0	0.2	66	23.4		7.9		19.8		90.1		6.9		6.3		11		88				<0.2		2.3	
					Middle	3.8	0.3	62	23.4	23.4	7.9	7.9	19.8	19.8	90.4	90.5	6.9		6.3		12		91				<0.2		2.3	
						3.8	0.3	62	23.4		7.9		19.8		90.6		6.9		6.4		12		92				<0.2		2.8	
					Bottom	6.6	0.3	64	23.3	23.3	7.9	7.9	21.9	21.9	91.5	91.6	6.9	6.9	19.0		14		95				<0.2		2.5	
						6.6	0.3	66	23.3		7.9		21.9		91.6		6.9		19.0		12		95				<0.2		1.9	
IM10	Rainy	Moderate	20:16	8.4	Surface	1.0	0.4	72	23.4	23.4	7.9	7.9	21.1	21.1	89.8	89.8	6.8	6.8	9.7	10.9	16	17	87	92	822386	809775	<0.2	<0.2	2.2	2.1
						1.0	0.4	72	23.4		7.9		21.1		89.8		6.8		10.0		16		88				<0.2		2.2	
					Middle	4.2	0.3	35	23.3	23.3	7.9	7.9	20.6	20.6	90.3	90.5	6.8		10.9		18		92				<0.2		2.2	
						4.2	0.3	36	23.3		7.9		20.6		90.6		6.9		10.2		17		91				<0.2		2.2	
					Bottom	7.4	0.1	326	23.3	23.3	7.9	7.9	21.5	21.5	91.2	91.3	6.9	6.9	12.2		18		95				<0.2		2.0	
						7.4	0.1	337	23.3		7.9		21.5		91.3		6.9		12.4		19		96				<0.2		2.0	
IM11	Rainy	Moderate	20:03	8.9	Surface	1.0	0.3	283	23.3	23.3	7.9	7.9	24.0	24.0	91.4	91.4	6.8	6.8	11.5	14.3	13	17	87	92	822065	811483	<0.2	<0.2	1.8	1.8
						1.0	0.3	283	23.3		7.9		24.0		91.4		6.8		11.5		14		88				<0.2		1.7	
					Middle	4.5	0.2	276	23.3	23.3	7.9	7.9	23.9	23.9	91.7	91.8	6.8		13.4		17		91				<0.2		1.8	
						4.5	0.2	277	23.3		7.9		23.9		91.8		6.8		14.0		17		92				<0.2		1.7	
					Bottom	7.9	0.2	165	23.4	23.4	7.9	7.9	24.0	24.0	92.0	92.1	6.8	6.8	17.6		20		95				<0.2		1.7	
						7.9	0.2	166	23.4		7.9		24.0		92.1		6.8		17.9		20		96				<0.2		1.8	
IM12	Rainy	Moderate	19:56	8.3	Surface	1.0	0.2	269	23.4	23.4	7.9	7.9	23.9	23.9	91.5	91.5	6.8	6.8	7.3	11.6	13	16	87	92	821449	812023	<0.2	<0.2	2.0	1.9
						1.0	0.2	270	23.4		7.9		23.9		91.5		6.8		7.2		14		88				<0.2		1.8	
					Middle	4.2	0.2	276	23.5	23.5	7.9	7.9	23.8	23.8	91.8	91.8	6.8		7.2		17		92				<0.2		1.9	
						4.2	0.3	299	23.5		7.9		23.8		91.8		6.8		7.9		16		92				<0.2		1.8	
					Bottom	7.3	0.2	188	23.3	23.3	7.9	7.9	24.3	24.3	91.4	91.5	6.8	6.8	19.9		18		95				<0.2		1.8	
						7.3	0.2	192	23.3		7.9		24.3		91.5		6.8		19.9		19		96				<0.2		1.8	
SR1A	Rainy	Moderate	19:34	5.6	Surface	1.0	-	-	23.5	23.5	7.9	7.9	23.8	23.8	90.8	90.8	6.7	6.7	8.5	9.7	14	16	-	-	819977	812662	-	-	-	-
						1.0	-	-	23.5		7.9		23.8		90.8		6.7		8.4		14		-				-		-	
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-	-	-
						2.8	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	-	-	23.5	23.5	7.9	7.9	24.0	24.0	90.6	90.6	6.7	6.7	11.1		18		-				-		-	
						4.6	-	-	23.5		7.9		24.0		90.6		6.7		11.0		18		-				-		-	
SR2	Rainy	Moderate	19:20	4.6	Surface	1.0	0.1	111	23.4	23.4	7.9	7.9	23.8	23.8	90.7	90.8	6.7	6.7	7.9	8.8	15	17	88	89	821451	814158	<0.2	<0.2	2.3	2.2
						1.0	0.1	121	23.4		7.9		23.8		90.8		6.7		8.1		16		87				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	323	23.5	23.5	7.9	7.9	23.9	23.9	91.1	91.1	6.8	6.8	9.5		18		91				<0.2		1.9	
						3.6	0.2	351	23.5		7.9		23.9		91.1		6.8		9.5		18		91				<0.2		2.2	
SR3	Rainy	Moderate	20:37	8.8	Surface	1.0	0.3	151	23.3	23.3	7.8	7.8	16.9	16.9	89.4	89.4	6.9	6.9	2.7	4.6	6	9	-	-	822137	807585	-	-	-	-
						1.0	0.3	163	23.3		7.8		16.9		89.4		6.9		2.7		7		-				-		-	
					Middle	4.4	0.3	98	23.3	23.3	7.8	7.8	17.0	17.0	89.0	89.0	6.9		4.9		8		-				-		-	
						4.4	0.3	100	23.3		7.9		17.0		89.0		6.9		5.2		9		-				-		-	
					Bottom	7.8	0.6	74	23.4	23.4	7.9	7.9	18.9	18.9	88.7	88.7	6.8	6.8	6.1		11		-				-		-	
						7.8	0.6	77	23.4		7.9		18.9		88.7		6.8		6.1		12		-				-		-	
SR4A	Rainy	Moderate	20:33	7.9	Surface	1.0	0.4	84	24.3	24.3	8.4	8.4	24.8	24.8	97.6	97.6	7.1	7.1	9.4	10.3	20	22	-	-	817178	807831	-	-	-	-
						1.0	0.4	88	24.3		8.4		24.8		97.6		7.1		9.4		20		-				-		-	
					Middle	4.0	0.5	90	24.3	24.3	8.4	8.4	24.8	24.8	96.9	96.9	7.1		10.4		22		-				-		-	
						4.0	0.5	96	24.3		8.4		24.8		96.9		7.1		10.5		22		-				-		-	
					Bottom	6.9	0.5	74	24.2	24.2	8.4	8.4	25.2	25.2	96.7	96.8	7.0	7.0	11.0		25		-				-		-	
						6.9	0.5	81	24.2		8.4		25.2		96.8		7.0		11.1		24		-				-		-	
SR5A	Rainy	Moderate	20:48	3.7	Surface	1.0	0.1	291	24.2	24.2	8.4	8.4	23.8	23.8	97.1	97.1	7.1	7.1	12.5	12.8	18	19	-	-	816581	810679	-	-	-	-
						1.0	0.1	288	24.2		8.4		23.8		97.0		7.1		12.6		17		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.2	208	24.2	24.2	8.4	8.4	24.1	24.1	95.3	95.4	7.0	7.0	13.1		19		-				-		-	
						2.7	0.3	208	24.2		8.4		24.1		95.5		7.0		13.0		20		-				-		-	
SR6	Rainy	Moderate	21:14	3.6	Surface	1.0	0.1	338	24.0	24.0	8.4	8.4	21.9	21.9	94.5	94.4	7.0	7.0	4.5	5.8	9	11	-	-	817910	814645	-	-	-	-
						1.0	0.2	346	24.0		8.4		21.9		94.3		7.0		4.5		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	287	24.2	24.2	8.4	8.4	22.9	22.9	93.1	93.2	6.9	6.9	7.0		13		-				-		-	
						2.6	0.1	295	24.2		8.4		22.9		93.2		6.9		7.1		12		-				-		-	
SR7	Rainy	Moderate	18:33	14.6	Surface	1.0	0.1	296	23.1	23.1	7.9	7.9	27.7	27.7	89.2	89.3	6.5	6.5	4.7	6.2	14	16	-	-	823641	823761	-	-	-	-
						1.0	0.1	316	23.1		7.9		27.7		89.3		6.5		5.0		14		-				-		-	
					Middle	7.3	0.3	283	23.1	23.1	7.9	7.9	28.6	28.6	89.4	89.4	6.5		7.2		17		-				-		-	
						7.3	0.4	286	23.1		7.9		28.6		89.4		6.5		7.4		16		-				-		-	
					Bottom	13.6	0.2	256	23.1	23.1	7.8	7.8	28.4	28.4	90.5	90.6	6.6	6.6	6.4		18		-				-		-	
						13.6	0.2	257	23.1		7.8		28.4		90.6		6.6		6.5		18		-				-		-	
SR8	Rainy	Moderate	19:43	4.3	Surface	1.0	-	-	23.4	23.4	7.9	7.9	23.7	23.7	90.7	90.8	6.7	6.7	7.9	7.7	17	18	-	-	820377	811640	-	-	-	-
						1.0	-	-	23.4		7.9		23.7		90.8		6.7		7.9		17		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-	-	-
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	-	-	23.5	23.5	7.9	7.9	24.0	24.0	90.6	90.6	6.7	6.7	7.4		20		-				-		-	
						3.3	-	-	23.5		7.9		24.0		90.6		6.7		7.4		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 23 April 19 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	8.1	Surface	1.0	0.1	122	25.0	25.0	8.0	8.0	15.0	15.0	83.6	83.7	6.4	6.4	5.7	6.3	5	6	89	92	815633	804267	<0.2	<0.2	3.8	3.6
						1.0	0.1	147	25.0		8.0		15.0		83.8		6.4		5.6		6		89				<0.2		3.6	
					Middle	4.1	0.1	165	25.0	25.0	8.1	8.1	15.1	15.1	84.3	84.4	6.4		5.3		5		93				<0.2		3.5	
						4.1	0.1	166	25.0		8.1		15.1		84.5		6.4		5.3		6		93				<0.2		3.6	
					Bottom	7.1	0.1	157	24.9	24.9	8.1	8.1	18.1	18.1	86.8	86.9	6.5	6.5	7.8		7		93				<0.2		3.4	
						7.1	0.1	157	24.9		8.1		18.1		87.0		6.5		7.9		8		94				<0.2		3.6	
C2	Sunny	Calm	13:56	8.1	Surface	1.0	0.4	119	23.9	23.9	7.7	7.7	13.3	13.3	81.0	81.1	6.3	6.5	3.2	5.8	2	3	83	88	825666	806933	<0.2	<0.2	3.8	3.8
						1.0	0.4	120	23.9		7.7		13.3		81.1		6.3		3.3		3		84				<0.2		3.9	
					Middle	4.1	0.4	152	23.9	23.9	7.7	7.7	14.9	14.9	85.4	85.6	6.6		12.2		2		88				<0.2		3.9	
						4.1	0.5	153	23.9		7.7		14.9		85.7		6.6		12.2		3		88				<0.2		3.8	
					Bottom	7.1	0.3	158	24.2	24.2	7.7	7.7	11.9	11.9	83.9	83.9	6.6	6.6	2.0		3		91				<0.2		3.8	
						7.1	0.3	159	24.2		7.7		11.9		83.9		6.6		2.0		3		91				<0.2		3.8	
C3	Sunny	Calm	15:37	12.9	Surface	1.0	0.3	131	25.5	25.5	7.9	7.9	17.8	17.8	94.1	94.1	7.0	6.9	12.1	5.9	<2	2	84	88	822118	817826	<0.2	<0.2	3.2	3.0
						1.0	0.3	136	25.4		7.9		17.8		94.0		7.0		12.2		<2		84				<0.2		3.4	
					Middle	6.5	0.2	143	24.4	24.4	7.9	7.9	23.1	23.1	92.8	92.8	6.8		3.9		2		88				<0.2		3.4	
						6.5	0.3	144	24.4		7.9		23.2		92.8		6.8		4.0		2		88				<0.2		3.4	
					Bottom	11.9	0.1	168	24.2	24.2	7.9	7.9	25.1	25.1	92.7	92.8	6.7	6.8	1.6		2		91				<0.2		2.2	
						11.9	0.1	174	24.2		7.9		25.1		92.9		6.8		1.6		3		91				<0.2		2.3	
IM1	Sunny	Moderate	14:48	5.8	Surface	1.0	0.2	238	27.1	27.1	8.0	8.0	15.3	15.3	89.5	89.3	6.5	6.5	4.0	3.9	3	4	89	91	817957	807145	<0.2	<0.2	3.5	3.5
						1.0	0.2	241	27.0		8.0		15.3		89.1		6.5		4.0		4		90				<0.2		3.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	0.1	175	26.2	26.2	8.0	8.0	13.6	13.6	88.1	88.2	6.6	6.6	3.8		4		92				<0.2		3.6	
						4.8	0.1	182	26.1		8.0		13.6		88.3		6.6		3.7		4		93				<0.2		3.5	
IM2	Sunny	Moderate	14:42	8.4	Surface	1.0	0.2	262	25.4	25.4	7.9	7.9	12.2	12.2	83.1	83.2	6.4	6.4	3.5	4.1	2	4	88	92	818140	806162	<0.2	<0.2	3.5	3.6
						1.0	0.2	263	25.4		7.9		12.2		83.3		6.4		3.6		4		89				<0.2		3.5	
					Middle	4.2	0.3	252	25.3	25.3	8.0	8.0	12.4	12.4	82.9	82.8	6.3		4.1		4		92				<0.2		3.6	
						4.2	0.3	253	25.3		8.0		12.4		82.7		6.3		4.2		3		93				<0.2		3.6	
					Bottom	7.4	0.5	124	25.3	25.3	8.0	8.0	13.3	13.3	82.4	82.5	6.3	6.3	4.5		4		94				<0.2		3.5	
						7.4	0.5	124	25.3		8.0		13.3		82.5		6.3		4.6		5		94				<0.2		3.6	
IM3	Sunny	Moderate	14:35	8.3	Surface	1.0	0.4	222	25.4	25.4	7.9	7.9	10.8	10.8	79.8	79.9	6.2	6.3	3.9	3.8	<2	4	89	92	818762	805585	<0.2	<0.2	3.3	3.2
						1.0	0.4	228	25.4		7.9		10.8		80.0		6.2		3.9		3		89				<0.2		3.3	
					Middle	4.2	0.5	228	25.4	25.5	7.9	7.9	10.9	10.9	81.7	82.0	6.3		4.0		3		92				<0.2		3.4	
						4.2	0.5	229	25.5		7.9		10.9		82.3		6.3		4.0		4		92				<0.2		3.0	
					Bottom	7.3	0.4	120	25.5	25.5	8.0	8.0	13.9	13.9	85.7	86.0	6.5	6.6	3.7		5		94				<0.2		3.1	
						7.3	0.4	120	25.4		8.0		13.9		86.3		6.6		3.4		5		93				<0.2		3.0	
IM4	Sunny	Moderate	14:26	8.6	Surface	1.0	0.7	208	25.5	25.5	7.9	7.9	11.1	11.1	83.0	83.1	6.4	6.5	4.2	5.0	3	4	88	92	819705	804609	<0.2	<0.2	2.8	3.2
						1.0	0.7	208	25.4		8.0		11.1		83.2		6.4		4.2		4		89				<0.2		2.9	
					Middle	4.3	0.6	216	25.4	25.4	8.0	8.0	12.0	12.0	84.5	84.7	6.5		4.2		4		93				<0.2		3.1	
						4.3	0.7	227	25.4		8.0		12.0		84.9		6.5		4.6		4		94				<0.2		3.3	
					Bottom	7.6	0.5	149	25.1	25.1	8.1	8.1	18.5	18.5	87.9	88.0	6.5	6.6	6.5		6		94				<0.2		3.4	
						7.6	0.6	153	25.1		8.1		18.5		88.1		6.6		5.9		5		94				<0.2		3.4	
IM5	Sunny	Moderate	14:15	8.3	Surface	1.0	0.9	222	24.6	24.6	7.9	7.9	12.0	12.0	80.3	80.4	6.2	6.3	5.0	5.2	3	4	88	91	820753	804856	<0.2	<0.2	3.7	3.6
						1.0	0.9	229	24.6		7.9		12.0		80.4		6.3		5.1		3		89				<0.2		3.6	
					Middle	4.2	0.8	214	24.6	24.6	8.0	8.0	11.9	11.9	81.4	81.6	6.3		4.6		4		90				<0.2		3.6	
						4.2	0.8	215	24.6		8.0		11.9		81.7		6.4		4.8		4		91				<0.2		3.6	
					Bottom	7.3	0.6	165	24.7	24.7	8.0	8.0	14.5	14.5	84.5	84.7	6.5	6.5	6.2		6		94				<0.2		3.6	
						7.3	0.6	167	24.7		8.0		14.5		84.8		6.5		5.7		5		94				<0.2		3.5	
IM6	Sunny	Moderate	14:02	6.9	Surface	1.0	0.5	200	26.0	25.9	8.1	8.1	15.2	15.2	88.1	88.0	6.6	6.6	4.4	4.7	3	5	88	91	821072	805835	<0.2	<0.2	3.9	3.9
						1.0	0.6	211	25.8		8.1		15.2		87.9		6.6		4.4		4		88				<0.2		4.0	
					Middle	3.5	0.3	212	25.2	25.2	8.1	8.1	17.6	17.6	86.5	86.5	6.5		4.5		6		92				<0.2		4.1	
						3.5	0.3	208	25.1		8.1		17.6		86.5		6.5		4.6		7		92				<0.2		3.6	
					Bottom	5.9	0.3	207	25.0	25.0	8.1	8.1	18.1	18.1	86.6	86.7	6.5	6.5	5.2		6		93				<0.2		3.7	
						5.9	0.3	207	25.0		8.1		18.1		86.7		6.5		5.2		6		94				<0.2		3.8	
IM7	Sunny	Moderate	13:57	7.4	Surface	1.0	0.5	193	24.7	24.7	8.1	8.1	17.6	17.6	85.3	85.3	6.4	6.4	6.1	8.0	5	6	89	92	821370	806830	<0.2	<0.2	3.7	3.5
						1.0	0.6	199	24.7		8.1		17.6		85.3		6.4		6.0		4		89				<0.2		3.6	
					Middle	3.7	0.4	213	24.7	24.7	8.1	8.1	17.7	17.7	85.6	85.7	6.4		5.7		6		93				<0.2		3.4	
						3.7	0.4	214	24.7		8.1		17.7		85.7		6.4		6.1		6		93				<0.2		3.4	
					Bottom	6.4	0.3	168	24.7	24.7	8.2	8.2	19.0	19.0	87.2	87.3	6.5	6.5	12.0		6		95				<0.2		3.4	
						6.4	0.3	169	24.7		8.2		19.0		87.4		6.5		12.0		6		95				<0.2		3.4	
IM8	Sunny	Calm	14:21	8.2	Surface	1.0	0.3	188	24.8	24.8	7.7	7.7	9.8	9.8	78.9	79.0	6.2	6.4	2.3	11.1	2	4	88	90	821811	808119	<0.2	<0.2	3.5	3.4
						1.0	0.3	186	24.8		7.7		9.8		79.1		6.2		2.3		2		87				<0.2		3.4	
					Middle	4.1	0.4	185	24.1	24.1	7.7	7.7	12.2	12.2	83.6	83.8	6.6		13.1		4		91				<0.2		3.3	
						4.1	0.4	183	24.1		7.8		12.2		84.0		6.6		13.1		4		91				<0.2		3.2	
					Bottom	7.2	0.5	173	24.0	24.0	7.8	7.8	14.9	14.9	86.4	86.7	6.7	6.7	18.1		5		92				<0.2		3.4	
						7.2	0.5	177	24.0		7.8		14.9		86.9		6.7		18.1		4		93				<0.2		3.3	

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 23 April 19 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	Calm	14:26	7.9	Surface	1.0	0.3	179	24.3	24.3	7.7	7.7	11.8	11.8	83.7	83.9	6.6	6.6	13.2	7.6	2	4	83	87	822081	808814	<0.2	<0.2	3.4	3.5
						1.0	0.3	178	24.3		7.7		11.8		84.0		6.6		13.2		3		83				<0.2		3.6	
					Middle	4.0	0.5	181	24.2	24.2	7.7	7.7	12.7	12.7	83.4	83.5	6.5		5.2		2		85				<0.2		3.6	
						4.0	0.5	183	24.2		7.7		12.7		83.5		6.5		5.3		3		85				<0.2		3.4	
					Bottom	6.9	0.4	173	24.2	24.2	7.7	7.7	15.3	15.3	83.8	83.8	6.4	6.5	4.3		5		91				<0.2		3.4	
						6.9	0.4	178	24.2		7.7		15.3		83.8		6.5		4.2		6		92				<0.2		3.4	
IM10	Sunny	Calm	14:32	7.8	Surface	1.0	0.4	58	24.3	24.3	7.7	7.7	11.3	11.3	82.6	82.8	6.5	6.6	5.4	4.3	3	4	83	90	822384	809771	<0.2	<0.2	3.3	3.5
						1.0	0.4	61	24.2		7.7		11.3		82.9		6.5		5.4		4		88				<0.2		3.3	
					Middle	3.9	0.3	46	24.2	24.2	7.7	7.7	11.9	11.9	84.6	84.7	6.6		3.8		3		91				<0.2		3.5	
						3.9	0.3	50	24.2		7.7		11.9		84.7		6.6		3.9		4		92				<0.2		3.8	
					Bottom	6.8	0.2	44	24.3	24.3	7.7	7.7	13.4	13.4	82.8	82.9	6.4	6.4	3.5		6		92				<0.2		3.6	
						6.8	0.2	46	24.3		7.7		13.4		83.0		6.4		3.6		6		92				<0.2		3.7	
IM11	Sunny	Calm	14:43	8.1	Surface	1.0	0.2	62	24.7	24.7	7.8	7.8	16.9	16.9	89.6	89.7	6.8	6.8	13.5	12.1	3	6	83	88	822076	811471	<0.2	<0.2	2.9	3.0
						1.0	0.2	66	24.7		7.8		16.9		89.8		6.8		13.5		4		83				<0.2		3.1	
					Middle	4.1	0.1	69	24.1	24.1	7.8	7.8	19.0	19.0	89.1	89.1	6.7		15.4		6		88				<0.2		3.0	
						4.1	0.1	63	24.1		7.8		19.0		89.1		6.7		15.4		6		88				<0.2		3.1	
					Bottom	7.1	0.1	39	24.0	24.0	7.8	7.8	20.6	20.6	86.7	86.7	6.5	6.5	7.4		7		91				<0.2		3.0	
						7.1	0.1	40	24.0		7.8		20.6		86.7		6.5		7.3		8		92				<0.2		3.0	
IM12	Sunny	Calm	14:50	7.7	Surface	1.0	0.1	89	24.9	24.9	7.8	7.8	16.9	16.9	90.6	90.6	6.8	6.7	15.3	9.5	4	6	83	88	821447	812058	<0.2	<0.2	3.0	3.1
						1.0	0.1	82	24.9		7.8		16.9		90.6		6.8		15.3		5		84				<0.2		3.0	
					Middle	3.9	0.1	96	24.1	24.1	7.9	7.9	20.6	20.6	87.1	87.1	6.5		4.6		6		88				<0.2		3.1	
						3.9	0.1	97	24.1		7.9		20.6		87.1		6.5		4.7		6		88				<0.2		3.0	
					Bottom	6.7	0.1	102	23.9	23.9	7.9	7.9	22.4	22.4	89.1	89.2	6.6	6.6	8.4		8		92				<0.2		3.0	
						6.7	0.1	108	23.9		7.9		22.4		89.3		6.6		8.4		8		92				<0.2		3.2	
SR1A	Sunny	Calm	15:10	3.7	Surface	1.0	-	-	24.7	24.7	7.8	7.8	16.8	16.8	89.2	89.1	6.7	6.7	13.9	11.8	4	5	-	-	819978	812654	-	-	-	-
						1.0	-	-	24.6		7.8		16.8		88.9		6.7		14.0		4		-				-		-	
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						1.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	-	-	24.3	24.3	7.8	7.8	19.0	19.0	91.3	91.5	6.9	6.9	9.6		5		-				-		-	
						2.7	-	-	24.3		7.8		19.0		91.7		6.9		9.6		6		-				-		-	
SR2	Sunny	Calm	15:20	4.0	Surface	1.0	0.4	21	24.6	24.6	7.8	7.8	16.9	16.9	89.4	89.3	6.8	6.8	3.0	3.1	4	5	88	90	821477	814166	<0.2	<0.2	2.7	2.8
						1.0	0.4	22	24.6		7.8		17.0		89.1		6.7		3.1		4		88				<0.2		2.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.4	59	24.4	24.4	7.8	7.8	18.3	18.3	88.3	88.3	6.6	6.6	3.2		6		92				<0.2		2.8	
						3.0	0.4	55	24.4		7.8		18.3		88.3		6.6		3.0		7		93				<0.2		2.8	
SR3	Sunny	Calm	14:15	8.0	Surface	1.0	0.2	94	24.9	24.9	7.6	7.6	9.2	9.2	78.7	78.7	6.2	6.4	7.1	4.6	3	5	-	-	822153	807589	-	-	-	-
						1.0	0.2	96	24.9		7.6		9.2		78.7		6.2		7.1		3		-				-		-	
					Middle	4.0	0.4	126	24.3	24.3	7.7	7.7	12.1	12.1	83.1	83.2	6.5		3.0		6		-				-		-	
						4.0	0.4	122	24.3		7.7		12.1		83.3		6.5		3.0		5		-				-		-	
					Bottom	7.0	0.5	166	24.2	24.2	7.8	7.8	14.2	14.2	85.7	86.2	6.6	6.7	3.9		7		-				-		-	
						7.0	0.5	167	24.2		7.8		14.2		86.6		6.7		3.9		6		-				-		-	
SR4A	Sunny	Moderate	15:19	9.4	Surface	1.0	0.5	59	25.2	25.3	8.1	8.1	15.3	15.3	85.6	85.8	6.5	6.6	6.0	5.4	6	7	-	-	817194	807823	-	-	-	-
						1.0	0.6	64	25.3		8.1		15.3		85.9		6.5		5.9		6		-				-		-	
					Middle	4.7	0.5	63	25.4	25.4	8.1	8.1	14.8	14.8	87.1	87.2	6.6		5.4		6		-				-		-	
						4.7	0.5	63	25.4		8.1		14.8		87.3		6.6		5.3		7		-				-		-	
					Bottom	8.4	0.5	54	28.1	28.1	8.0	8.0	15.0	15.0	94.5	94.6	6.8	6.8	4.9		8		-				-		-	
						8.4	0.5	54	28.0		8.0		15.0		94.6		6.8		4.8		7		-				-		-	
SR5A	Sunny	Calm	15:32	5.6	Surface	1.0	0.2	106	26.0	26.1	8.1	8.1	16.3	16.3	87.9	88.0	6.5	6.5	6.1	5.3	7	7	-	-	816589	810678	-	-	-	-
						1.0	0.2	113	26.1		8.1		16.3		88.0		6.5		5.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.2	114	26.4	26.4	8.1	8.1	16.2	16.2	90.1	90.3	6.6	6.7	4.9		8		-				-		-	
						4.6	0.2	121	26.4		8.1		16.2		90.4		6.7		4.5		7		-				-		-	
SR6	Sunny	Calm	15:57	4.9	Surface	1.0	0.1	60	27.6	27.6	8.1	8.1	15.6	15.6	90.3	90.3	6.5	6.5	3.1	3.5	4	5	-	-	817905	814650	-	-	-	-
						1.0	0.1	62	27.6		8.1		15.6		90.2		6.5		3.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.0	88	27.4	27.4	8.1	8.1	15.7	15.7	90.9	91.1	6.6	6.6	3.8		5		-				-		-	
						3.9	0.0	90	27.4		8.1		15.7		91.2		6.6		4.0		6		-				-		-	
SR7	Sunny	Calm	16:04	18.6	Surface	1.0	0.3	102	24.2	24.2	7.9	7.9	25.1	25.1	92.2	92.2	6.7	6.7	1.5	4.5	3	5	-	-	823650	823761	-	-	-	-
						1.0	0.3	107	24.2		7.9		25.1		92.2		6.7		1.5		4		-				-		-	
					Middle	9.3	0.2	105	24.0	24.0	7.9	7.9	23.7	23.7	91.1	91.1	6.7		5.9		4		-				-		-	
						9.3	0.2	115	24.0		7.9		23.7		91.1		6.7		5.9		5		-				-		-	
					Bottom	17.6	0.2	93	24.0	24.0	7.9	7.9	26.1	26.1	91.2	91.3	6.6	6.6	6.0		6		-				-		-	
						17.6	0.2	95	24.0		7.9		26.1		91.3		6.6		6.0		5		-				-		-	
SR8	Sunny	Calm	15:03	3.9	Surface	1.0	-	-	24.8	24.8	7.8	7.8	16.9	17.0	89.8	89.6	6.8	6.8	1.8	2.0	2	4	-	-	820401	811646	-	-	-	-
						1.0	-	-	24.7		7.8		17.0		89.4		6.8		1.9		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	-	-	24.6	24.6	7.8	7.8	17.0	17.1	89.0	88.9	6.7	6.7	2.2		5		-				-		-	
						2.9	-	-	24.5		7.8		17.1		88.7		6.7		2.2		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 23 April 19 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	08:49	8.8	Surface	1.0	0.3	7	24.9	25.0	8.0	8.0	12.0	12.0	79.1	79.2	6.1	6.2	4.2	4.7	3	4	88	92	815622	804225	<0.2	<0.2	3.0	3.1
						1.0	0.3	7	25.1		8.0		12.0		79.2		6.1		4.3		<2		89				<0.2		3.2	
					Middle	4.4	0.3	33	25.3	25.3	8.1	8.1	16.7	16.7	84.2	84.2	6.3		4.8		5		92				<0.2		3.2	
						4.4	0.3	33	25.2		8.1		16.7		84.2		6.3		4.8		5		93				<0.2		3.2	
					Bottom	7.8	0.4	50	24.7	24.7	7.9	7.9	13.8	13.8	80.5	80.6	6.2	6.2	4.9		5		94				<0.2		3.1	
						7.8	0.4	53	24.7		7.9		13.8		80.7		6.2		4.9		5		94				<0.2		3.1	
C2	Sunny	Moderate	10:20	8.7	Surface	1.0	0.4	15	24.2	24.2	7.7	7.7	10.9	10.9	81.4	81.4	6.4	6.4	2.4	2.8	3	4	83	88	825672	806962	<0.2	<0.2	3.4	3.5
						1.0	0.5	15	24.2		7.7		10.9		81.4		6.4		2.5		4		84				<0.2		3.4	
					Middle	4.4	0.4	355	24.1	24.1	7.7	7.7	13.1	13.1	81.2	81.3	6.3		2.0		3		88				<0.2		3.5	
						4.4	0.5	327	24.1		7.7		13.1		81.3		6.3		2.0		4		88				<0.2		3.7	
					Bottom	7.7	0.3	1	24.2	24.2	7.7	7.7	14.9	14.9	83.6	83.7	6.4	6.4	3.9		4		91				<0.2		3.6	
						7.7	0.3	1	24.2		7.7		14.9		83.7		6.4		3.9		5		92				<0.2		3.6	
C3	Sunny	Calm	08:35	10.4	Surface	1.0	0.5	249	24.5	24.5	7.8	7.8	15.1	15.1	84.5	84.5	6.5	6.5	1.8	4.2	2	3	83	88	822097	817804	<0.2	<0.2	3.1	3.2
						1.0	0.5	268	24.5		7.8		15.1		84.4		6.5		1.8		<2		83				<0.2		3.1	
					Middle	5.2	0.8	254	24.4	24.4	7.8	7.8	16.1	16.1	84.5	84.6	6.5		2.2		3		88				<0.2		3.0	
						5.2	0.8	269	24.4		7.8		16.1		84.7		6.5		2.3		4		88				<0.2		3.2	
					Bottom	9.4	0.5	286	24.5	24.5	7.8	7.8	16.5	16.5	85.1	85.1	6.5	6.5	8.6		2		92				<0.2		3.1	
						9.4	0.5	298	24.5		7.8		16.5		85.1		6.5		8.5		4		93				<0.2		3.4	
IM1	Fine	Calm	08:57	5.6	Surface	1.0	0.6	13	25.0	25.0	7.9	7.9	12.3	12.3	81.2	81.3	6.3	6.3	3.4	3.3	4	5	89	91	817969	807118	<0.2	<0.2	3.6	3.7
						1.0	0.6	13	25.0		7.9		12.3		81.4		6.3		3.4		4		89				<0.2		3.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.1	277	25.1	25.1	8.0	8.0	12.5	12.5	83.6	83.8	6.4	6.4	3.3		6		92				<0.2		3.7	
						4.6	0.1	302	25.1		8.0		12.5		83.9		6.4		3.3		5		93				<0.2		3.8	
IM2	Fine	Moderate	09:03	7.9	Surface	1.0	0.5	18	25.0	25.0	7.9	7.9	12.1	12.1	80.3	80.4	6.2	6.3	3.6	3.6	4	5	89	92	818178	806158	<0.2	<0.2	3.8	3.6
						1.0	0.5	18	25.0		7.9		12.1		80.4		6.2		3.6		5		89				<0.2		3.6	
					Middle	4.0	0.4	6	24.9	24.9	8.0	8.0	12.0	12.0	81.6	81.7	6.3		3.8		4		92				<0.2		3.6	
						4.0	0.4	6	24.8		8.0		12.0		81.8		6.3		3.8		5		93				<0.2		3.5	
					Bottom	6.9	0.4	16	24.7	24.7	8.0	8.0	14.9	14.9	83.2	83.4	6.4	6.4	3.4		6		94				<0.2		3.6	
						6.9	0.4	16	24.7		8.0		14.9		83.5		6.4		3.4		6		94				<0.2		3.5	
IM3	Fine	Moderate	09:08	8.5	Surface	1.0	0.4	39	25.0	25.0	7.9	7.9	11.3	11.3	80.7	80.8	6.3	6.3	4.2	4.4	5	6	88	92	818806	805593	<0.2	<0.2	3.6	3.6
						1.0	0.5	39	25.0		7.9		11.3		80.8		6.3		4.3		4		88				<0.2		3.6	
					Middle	4.3	0.5	38	25.0	25.0	7.9	7.9	11.2	11.2	81.6	81.6	6.3		4.6		5		93				<0.2		3.6	
						4.3	0.5	41	24.9		8.0		11.2		81.6		6.3		5.1		6		93				<0.2		3.6	
					Bottom	7.5	0.4	24	24.7	24.7	8.0	8.0	14.4	14.4	82.7	82.8	6.3	6.4	4.0		8		94				<0.2		3.5	
						7.5	0.4	25	24.7		8.0		14.4		82.9		6.4		4.1		7		95				<0.2		3.7	
IM4	Fine	Moderate	09:13	8.2	Surface	1.0	0.5	18	24.6	24.6	8.0	8.0	13.4	13.4	79.5	79.6	6.1	6.2	4.0	4.0	5	6	89	93	819716	804591	<0.2	<0.2	3.8	3.6
						1.0	0.6	18	24.6		8.0		13.4		79.6		6.1		4.0		5		89				<0.2		3.7	
					Middle	4.1	0.5	10	24.6	24.6	8.0	8.0	13.6	13.6	80.1	80.2	6.2		4.2		6		93				<0.2		3.5	
						4.1	0.6	10	24.6		8.0		13.6		80.3		6.2		4.2		6		94				<0.2		3.4	
					Bottom	7.2	0.3	352	24.7	24.7	8.0	8.0	15.6	15.6	80.9	81.0	6.2	6.2	3.7		7		95				<0.2		3.5	
						7.2	0.4	324	24.7		8.0		15.6		81.1		6.2		3.7		6		95				<0.2		3.8	
IM5	Fine	Moderate	09:21	8.6	Surface	1.0	0.7	9	24.8	24.8	8.0	8.0	14.1	14.1	80.5	80.5	6.2	6.2	3.8	3.9	5	5	89	92	820738	804853	<0.2	<0.2	3.6	3.6
						1.0	0.7	9	24.8		8.0		14.1		80.5		6.2		3.7		5		88				<0.2		3.6	
					Middle	4.3	0.8	11	24.8	24.8	8.0	8.0	13.8	13.8	81.3	81.5	6.2		4.1		4		93				<0.2		3.7	
						4.3	0.8	11	24.8		8.0		13.8		81.7		6.3		4.1		6		93				<0.2		3.6	
					Bottom	7.6	0.5	351	25.0	25.0	8.0	8.0	16.1	16.1	84.7	84.8	6.4	6.4	3.8		5		94				<0.2		3.6	
						7.6	0.5	323	25.0		8.0		16.1		84.9		6.4		4.0		5		94				<0.2		3.6	
IM6	Fine	Moderate	09:29	7.8	Surface	1.0	1.2	31	24.7	24.7	8.1	8.1	15.5	15.5	81.7	81.8	6.2	6.3	3.9	3.9	4	5	89	93	821041	805827	<0.2	<0.2	3.6	3.6
						1.0	1.2	32	24.7		8.1		15.5		81.8		6.2		3.9		5		89				<0.2		3.5	
					Middle	3.9	0.9	29	24.6	24.6	8.1	8.1	15.4	15.4	82.5	82.5	6.3		3.9		5		94				<0.2		3.5	
						3.9	0.9	31	24.6		8.1		15.4		82.5		6.3		3.9		6		94				<0.2		3.6	
					Bottom	6.8	0.8	29	24.5	24.5	8.1	8.1	15.8	15.8	82.7	82.9	6.3	6.3	3.8		6		95				<0.2		3.7	
						6.8	0.9	30	24.5		8.1		15.8		83.0		6.3		4.2		6		95				<0.2		3.8	
IM7	Fine	Moderate	09:35	7.6	Surface	1.0	0.6	25	24.7	24.7	8.1	8.1	17.7	17.7	85.1	85.1	6.4	6.4	6.4	6.1	5	6	88	92	821329	806848	<0.2	<0.2	3.6	3.7
						1.0	0.7	25	24.7		8.1		17.7		85.1		6.4		6.2		6		89				<0.2		3.8	
					Middle	3.8	0.4	23	24.7	24.7	8.1	8.1	17.6	17.6	84.7	84.7	6.4		5.6		6		92				<0.2		4.0	
						3.8	0.4	24	24.7		8.1		17.6		84.7		6.4		5.7		6		93				<0.2		3.7	
					Bottom	6.6	0.2	5	24.7	24.8	8.1	8.1	18.0	18.0	85.1	85.2	6.4	6.4	6.2		7		94				<0.2		3.5	
						6.6	0.2	5	24.8		8.1		18.0		85.3		6.4		6.5		8		94				<0.2		3.7	
IM8	Sunny	Moderate	09:56	8.7	Surface	1.0	0.2	62	24.2	24.2	7.6	7.6	10.4	10.4	80.4	80.4	6.4	6.4	2.5	5.2	3	4	83	87	821816	808163	<0.2	<0.2	3.4	3.4
						1.0	0.2	63	24.1		7.6		10.4		80.3		6.4		2.5		4		84				<0.2		3.5	
					Middle	4.4	0.1	114	23.9	23.9	7.7	7.7	10.8	10.8	79.6	79.7	6.3		2.1		3		87				<0.2		3.3	
						4.4	0.1	116	23.9		7.7		10.8		79.7		6.3		2.1		4		88				<0.2		3.4	
					Bottom	7.7	0.2	91	24.1	24.1	7.7	7.7	12.7	12.7	81.5	81.6	6.4	6.4	11.0		5		91				<0.2		3.6	
						7.7	0.2	93	24.1		7.7		12.7		81.6		6.4		11.0		4		91				<0.2		3.3	

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 23 April 19 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	09:50	7.9	Surface	1.0	0.2	77	24.3	24.3	7.6	7.6	11.6	11.6	82.0	82.0	6.4	6.4	1.9	5.3	4	5	83	88	822093	808807	<0.2	<0.2	3.2	3.4
						1.0	0.2	82	24.3		7.6		11.6		82.0		6.4		1.9		4		84				<0.2		3.5	
					Middle	4.0	0.2	77	24.3	24.3	7.7	7.7	11.6	11.6	81.8	81.9	6.4		2.4		4		88				<0.2		3.4	
						4.0	0.3	83	24.3		7.7		11.6		81.9		6.4		2.5		5		88				<0.2		3.6	
					Bottom	6.9	0.1	90	24.3	24.3	7.7	7.7	12.2	12.2	82.1	82.2	6.4	6.4	11.6		5		91				<0.2		3.4	
						6.9	0.1	94	24.3		7.7		12.2		82.3		6.4		11.6		5		92				<0.2		3.5	
IM10	Sunny	Moderate	09:42	8.7	Surface	1.0	0.8	311	24.4	24.4	7.8	7.8	14.6	14.6	86.4	86.5	6.6	6.6	1.2	3.1	3	4	79	87	822374	809774	<0.2	<0.2	3.0	2.9
						1.0	0.8	313	24.4		7.8		14.6		86.5		6.7		1.2		4		84				<0.2		2.9	
					Middle	4.4	0.8	307	24.3	24.3	7.8	7.8	15.4	15.4	85.6	85.6	6.6		3.9		4		87				<0.2		2.8	
						4.4	0.8	322	24.3		7.8		15.4		85.5		6.6		3.9		3		89				<0.2		3.0	
					Bottom	7.7	0.6	318	24.3	24.3	7.8	7.8	15.4	15.4	85.5	85.6	6.6	6.6	4.2		6		91				<0.2		2.8	
						7.7	0.7	333	24.3		7.8		15.4		85.6		6.6		4.2		6		91				<0.2		2.8	
IM11	Sunny	Moderate	09:33	8.3	Surface	1.0	0.6	279	24.3	24.3	7.8	7.8	14.8	14.8	86.5	86.6	6.7	6.7	1.1	9.0	3	4	83	87	822060	811471	<0.2	<0.2	2.9	3.0
						1.0	0.6	282	24.3		7.8		14.8		86.6		6.7		1.1		3		84				<0.2		3.0	
					Middle	4.2	0.5	290	24.2	24.2	7.8	7.8	16.6	16.6	87.0	87.0	6.6		7.6		3		87				<0.2		2.8	
						4.2	0.5	302	24.2		7.8		16.6		87.0		6.6		7.7		4		87				<0.2		3.0	
					Bottom	7.3	0.2	310	24.1	24.1	7.8	7.8	18.4	18.4	86.7	86.9	6.6	6.6	18.2		6		91				<0.2		3.0	
						7.3	0.2	313	24.1		7.8		18.4		87.1		6.6		18.2		6		91				<0.2		3.0	
IM12	Sunny	Calm	09:27	7.9	Surface	1.0	0.7	261	24.2	24.2	7.8	7.8	15.7	15.7	86.2	86.2	6.6	6.6	5.8	8.6	3	6	83	87	821473	812059	<0.2	<0.2	3.3	3.2
						1.0	0.7	280	24.2		7.8		15.7		86.2		6.6		5.8		4		83				<0.2		3.1	
					Middle	4.0	0.5	264	24.2	24.2	7.8	7.8	17.6	17.6	86.5	86.5	6.6		8.8		4		87				<0.2		3.3	
						4.0	0.6	271	24.1		7.8		17.6		86.4		6.6		8.7		6		87				<0.2		3.2	
					Bottom	6.9	0.3	302	24.2	24.2	7.8	7.8	19.4	19.4	85.6	85.7	6.4	6.4	11.4		9		91				<0.2		3.3	
						6.9	0.4	323	24.2		7.8		19.4		85.7		6.4		11.5		8		92				<0.2		3.2	
SR1A	Sunny	Calm	09:07	4.6	Surface	1.0	-	-	24.5	24.5	7.8	7.8	13.9	13.9	88.2	88.2	6.8	6.8	7.3	8.8	5	5	-	-	819973	812654	-	-	-	-
						1.0	-	-	24.5		7.8		13.9		88.2		6.8		7.4		4		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	24.5	24.5	7.8	7.8	15.4	15.4	88.5	88.6	6.8	6.8	10.3		5		-				-		-	
						3.6	-	-	24.5		7.8		15.4		88.6		6.8		10.3		4		-				-		-	
SR2	Sunny	Calm	08:53	5.2	Surface	1.0	0.8	326	24.3	24.3	7.8	7.8	16.3	16.3	87.1	87.1	6.7	6.7	2.4	2.6	4	5	83	86	821448	814173	<0.2	<0.2	3.2	3.3
						1.0	0.8	337	24.3		7.8		16.3		87.1		6.7		2.5		4		84				<0.2		3.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.4	342	24.3	24.3	7.8	7.8	17.7	17.7	87.2	87.3	6.6	6.6	2.7		5		88				<0.2		3.2	
						4.2	0.4	358	24.3		7.8		17.7		87.3		6.6		2.7		6		89				<0.2		3.4	
SR3	Sunny	Moderate	10:02	9.8	Surface	1.0	0.0	264	23.9	23.9	7.6	7.6	11.1	11.1	79.3	79.4	6.3	6.4	2.4	3.2	5	6	-	-	822136	807581	-	-	-	-
						1.0	0.0	268	23.9		7.6		11.1		79.4		6.3		2.4		5		-				-		-	
					Middle	4.9	0.3	104	24.1	24.1	7.7	7.7	13.0	13.0	82.8	82.9	6.5		3.5		5		-				-		-	
						4.9	0.4	108	24.0		7.7		13.0		83.0		6.5		3.5		6		-				-		-	
					Bottom	8.8	0.5	77	24.0	24.0	7.7	7.7	13.0	13.0	83.3	83.4	6.5	6.5	3.6		6		-				-		-	
						8.8	0.5	84	24.0		7.7		13.0		83.5		6.5		3.6		6		-				-		-	
SR4A	Fine	Moderate	08:19	9.5	Surface	1.0	0.2	252	24.9	25.0	8.1	8.1	18.5	18.5	85.8	85.9	6.4	6.4	5.8	5.7	6	7	-	-	817184	807824	-	-	-	-
						1.0	0.2	270	25.0		8.1		18.5		85.9		6.4		5.8		7		-				-		-	
					Middle	4.8	0.1	130	25.3	25.3	8.1	8.1	18.3	18.2	86.5	86.5	6.4		6.2		8		-				-		-	
						4.8	0.1	134	25.3		8.1		18.2		86.5		6.4		6.3		7		-				-		-	
					Bottom	8.5	0.1	16	25.3	25.3	8.0	8.0	18.5	18.5	87.2	87.3	6.5	6.5	5.2		8		-				-		-	
						8.5	0.1	17	25.3		8.0		18.5		87.4		6.5		5.0		7		-				-		-	
SR5A	Fine	Calm	08:04	5.4	Surface	1.0	0.1	357	25.6	25.7	8.1	8.1	17.2	17.2	87.7	87.8	6.5	6.5	4.8	4.0	6	7	-	-	816570	810682	-	-	-	-
						1.0	0.1	358	25.7		8.1		17.2		87.8		6.5		4.8		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	48	26.0	26.0	8.1	8.1	17.0	17.0	88.4	88.5	6.5	6.5	3.3		8		-				-		-	
						4.4	0.1	52	26.0		8.1		17.0		88.6		6.5		3.3		8		-				-		-	
SR6	Fine	Moderate	07:30	4.7	Surface	1.0	0.1	238	25.1	25.1	7.8	7.8	14.8	14.8	83.1	83.1	6.3	6.3	3.1	3.3	4	6	-	-	817889	814668	-	-	-	-
						1.0	0.2	249	25.1		7.8		14.8		83.1		6.3		3.1		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.1	216	25.1	25.1	7.8	7.8	14.7	14.7	83.6	83.6	6.3	6.3	3.5		6		-				-		-	
						3.7	0.1	233	25.1		7.8		14.7		83.6		6.3		3.5		7		-				-		-	
SR7	Sunny	Calm	08:09	16.7	Surface	1.0	0.3	177	24.4	24.4	7.8	7.8	15.7	15.7	88.3	88.3	6.8	6.8	6.0	3.3	3	4	-	-	823659	823730	-	-	-	-
						1.0	0.3	182	24.4		7.8		15.7		88.3		6.8		5.9		4		-				-		-	
					Middle	8.4	0.1	270	24.3	24.3	7.8	7.8	15.6	15.6	88.2	88.2	6.8		1.6		5		-				-		-	
						8.4	0.1	275	24.3		7.8		15.6		88.2		6.8		1.6		4		-				-		-	
					Bottom	15.7	0.1	236	24.2	24.2	7.8	7.8	16.7	16.7	88.0	88.3	6.7	6.8	2.3		6		-				-		-	
						15.7	0.1	239	24.2		7.8		16.7		88.5		6.8		2.3		4		-				-		-	
SR8	Sunny	Calm	09:17	4.3	Surface	1.0	-	-	24.3	24.3	7.8	7.8	14.6	14.6	86.3	86.2	6.7	6.7	7.1	8.2	7	10	-	-	820375	811601	-	-	-	-
						1.0	-	-	24.3		7.8		14.6		86.1		6.6		7.1		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	-	-	24.2	24.2	7.8	7.8	18.7	18.7	85.7	85.8	6.5	6.5	9.3		12		-				-		-	
						3.3	-	-	24.2		7.8		18.7		85.8		6.5		9.3		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 25 April 19 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	Fine	Moderate	16:32	8.6	Surface	1.0	0.3	120	26.9	26.9	8.3	8.3	14.6	14.7	95.9	95.8	7.3	7.2	10.5	11.2	<2	2	88	91	815596	804237	<0.2	<0.2	2.8	2.6
						1.0	0.3	122	26.9		8.3		14.8		95.7		7.2		10.9		2		88				<0.2		2.8	
					Middle	4.3	0.3	147	26.8	26.8	8.3	8.3	13.6	13.6	95.5	95.6	7.1		13.2		2		92				<0.2		2.6	
						4.3	0.4	156	26.9		8.3		13.6		95.6		7.1		14.1		2		93				<0.2		2.6	
					Bottom	7.6	0.4	129	27.0	27.0	8.3	8.3	13.3	13.3	95.6	95.6	7.1	7.1	9.3		3		93				<0.2		2.1	
						7.6	0.4	133	27.1		8.3		13.3		95.5		7.1		9.4		<2		94				<0.2		2.4	
C2	Fine	Moderate	15:29	11.6	Surface	1.0	0.5	154	25.6	25.6	8.0	8.0	12.5	12.5	86.8	86.9	6.6	6.6	4.2	4.7	3	3	84	86	825668	806959	<0.2	<0.2	3.1	3.0
						1.0	0.5	156	25.6		8.0		12.5		87.0		6.6		4.3		3		83				<0.2		3.0	
					Middle	5.8	0.5	129	25.3	25.3	8.1	8.1	14.8	14.8	85.8	85.8	6.5		7.3		3		87				<0.2		3.0	
						5.8	0.5	130	25.3		8.1		14.8		85.8		6.5		7.2		<2		86				<0.2		3.2	
					Bottom	10.6	0.3	144	25.7	25.7	8.0	8.0	17.6	17.6	86.2	86.3	6.4	6.4	2.6		<2		89				<0.2		3.1	
						10.6	0.3	151	25.7		8.0		17.6		86.4		6.4		2.5		2		89				<0.2		2.7	
C3	Fine	Moderate	17:23	12.1	Surface	1.0	0.2	77	25.6	25.6	8.2	8.2	14.6	14.6	94.0	94.1	7.1	7.0	5.5	4.7	<2	<2	85	87	822097	817813	<0.2	<0.2	2.4	2.5
						1.0	0.2	83	25.6		8.2		14.6		94.1		7.1		5.5		<2		85				<0.2		2.7	
					Middle	6.1	0.2	119	25.4	25.4	8.2	8.2	20.1	20.0	93.0	93.3	6.8		2.2		<2		86				<0.2		2.5	
						6.1	0.2	120	25.4		8.2		20.0		93.5		6.9		2.3		<2		85				<0.2		2.6	
					Bottom	11.1	0.5	153	25.4	25.4	8.2	8.2	21.5	21.5	91.7	91.7	6.7	6.7	6.2		<2		90				<0.2		2.4	
						11.1	0.5	156	25.4		8.2		21.5		91.7		6.7		6.2		<2		89				<0.2		2.5	
IM1	Fine	Calm	16:09	5.6	Surface	1.0	0.2	216	26.3	26.3	8.1	8.1	11.0	11.0	91.6	91.6	7.0	7.0	11.0	11.9	<2	2	87	90	817954	807155	<0.2	<0.2	3.6	3.6
						1.0	0.2	227	26.3		8.1		11.0		91.6		7.0		11.3		2		88				<0.2		3.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.3	233	26.5	26.5	8.2	8.2	11.3	11.3	93.7	94.1	7.1	7.1	12.4		<2		92				<0.2		3.6	
						4.6	0.3	234	26.5		8.2		11.3		94.5		7.1		12.8		2		93				<0.2		3.8	
IM2	Fine	Moderate	16:03	7.9	Surface	1.0	0.2	205	26.5	26.5	8.1	8.1	11.3	11.3	90.6	90.6	6.8	6.9	13.8	12.0	<2	2	88	91	818169	806178	<0.2	<0.2	3.4	3.3
						1.0	0.2	221	26.5		8.1		11.3		90.6		6.8		14.8		3		89				<0.2		3.2	
					Middle	4.0	0.3	254	26.5	26.5	8.1	8.1	11.0	11.0	91.1	91.3	6.9		10.5		2		92				<0.2		3.3	
						4.0	0.3	258	26.5		8.1		11.0		91.4		6.9		10.7		2		92				<0.2		3.3	
					Bottom	6.9	0.4	237	26.4	26.4	8.2	8.2	12.1	12.1	93.1	93.3	7.0	7.0	10.8		<2		93				<0.2		3.2	
						6.9	0.4	238	26.4		8.2		12.1		93.5		7.0		11.2		<2		94				<0.2		3.3	
IM3	Fine	Moderate	15:58	8.3	Surface	1.0	0.3	251	26.3	26.3	8.1	8.1	12.5	12.5	91.3	91.1	6.9	6.9	15.2	13.5	<2	2	86	91	818786	805592	<0.2	<0.2	3.3	3.3
						1.0	0.3	239	26.3		8.1		12.5		90.8		6.8		15.2		<2		88				<0.2		3.5	
					Middle	4.2	0.3	247	26.5	26.5	8.1	8.1	11.1	11.1	90.8	90.9	6.9		11.8		2		93				<0.2		3.3	
						4.2	0.4	252	26.5		8.1		11.0		90.9		6.9		12.1		3		92				<0.2		3.3	
					Bottom	7.3	0.4	216	26.8	26.8	8.1	8.1	10.7	10.7	93.5	93.8	7.1	7.1	13.3		2		94				<0.2		3.4	
						7.3	0.4	205	26.8		8.2		10.7		94.0		7.1		13.6		3		94				<0.2		3.2	
IM4	Fine	Moderate	15:50	8.6	Surface	1.0	0.5	230	26.6	26.6	8.2	8.2	13.6	13.6	92.7	92.7	6.9	6.9	9.8	10.5	3	4	87	91	819712	804589	<0.2	<0.2	3.1	3.2
						1.0	0.5	227	26.6		8.2		13.6		92.7		6.9		9.8		4		88				<0.2		3.1	
					Middle	4.3	0.3	255	26.7	26.7	8.2	8.2	14.1	14.1	92.7	92.7	6.9		9.8		2		92				<0.2		3.2	
						4.3	0.4	255	26.7		8.2		14.1		92.6		6.9		9.7		3		93				<0.2		3.3	
					Bottom	7.6	0.2	244	26.9	26.9	8.2	8.2	13.3	13.3	93.4	93.7	6.9	7.0	11.8		5		93				<0.2		3.1	
						7.6	0.2	226	26.9		8.2		13.3		93.9		7.0		12.3		4		94				<0.2		3.2	
IM5	Fine	Moderate	15:40	7.7	Surface	1.0	0.6	216	26.6	26.5	8.2	8.2	14.9	14.9	93.3	93.4	6.9	6.9	11.7	12.2	3	3	87	91	820716	804849	<0.2	<0.2	3.6	3.3
						1.0	0.6	217	26.5		8.2		14.9		93.4		6.9		12.3		3		88				<0.2		3.3	
					Middle	3.9	0.6	222	26.4	26.4	8.2	8.2	15.4	15.3	93.2	93.2	6.9		10.4		3		92				<0.2		3.2	
						3.9	0.7	203	26.5		8.2		15.3		93.2		6.9		10.8		3		93				<0.2		3.1	
					Bottom	6.7	0.4	194	26.5	26.6	8.2	8.2	14.8	14.8	93.5	93.6	6.9	6.9	13.4		3		93				<0.2		3.2	
						6.7	0.4	180	26.6		8.2		14.8		93.7		6.9		14.4		4		93				<0.2		3.1	
IM6	Fine	Moderate	15:33	7.5	Surface	1.0	0.5	200	27.0	26.9	8.2	8.2	15.0	15.0	94.1	94.1	6.9	6.9	9.3	10.4	3	3	88	91	821075	805849	<0.2	<0.2	3.3	3.4
						1.0	0.5	189	26.9		8.2		15.0		94.1		6.9		9.2		2		88				<0.2		3.5	
					Middle	3.8	0.3	193	26.8	26.7	8.2	8.2	15.2	15.2	93.9	93.8	6.9		9.5		2		92				<0.2		3.5	
						3.8	0.3	190	26.7		8.2		15.3		93.6		6.9		9.5		<2		92				<0.2		3.3	
					Bottom	6.5	0.4	171	26.7	26.7	8.2	8.2	15.1	15.1	94.4	94.3	6.9	6.9	12.2		2		94				<0.2		3.3	
						6.5	0.4	174	26.8		8.2		15.1		94.2		6.9		12.9		4		94				<0.2		3.2	
IM7	Fine	Moderate	15:25	7.0	Surface	1.0	0.3	188	26.3	26.3	8.3	8.3	16.0	16.0	91.6	91.7	6.8	6.8	10.2	9.7	2	3	87	91	821355	806814	<0.2	<0.2	3.5	3.4
						1.0	0.4	175	26.3		8.3		16.0		91.7		6.8		10.4		4		87				<0.2		3.3	
					Middle	3.5	0.4	177	26.3	26.3	8.3	8.3	16.1	16.1	91.6	91.6	6.8		10.0		2		93				<0.2		3.5	
						3.5	0.4	182	26.3		8.3		16.1		91.5		6.8		10.3		3		93				<0.2		3.3	
					Bottom	6.0	0.4	173	26.5	26.5	8.4	8.4	16.0	16.0	91.7	91.7	6.7	6.7	8.7		3		94				<0.2		3.2	
						6.0	0.4	175	26.5		8.4		16.1		91.7		6.7		8.3		4		94				<0.2		3.3	
IM8	Fine	Moderate	16:17	7.6	Surface	1.0	0.2	61	25.8	25.8	8.0	8.0	11.0	11.0	88.3	88.3	6.8	6.8	3.6	6.0	3	5	84	87	821836	808162	<0.2	<0.2	3.4	3.4
						1.0	0.2	61	25.8		8.0		11.0		88.3		6.8		3.5		4		84				<0.2		3.5	
					Middle	3.8	0.2	78	25.5	25.5	8.0	8.0	12.5	12.5	87.2	87.2	6.7		6.0		5		88				<0.2		3.4	
						3.8	0.2	79	25.5		8.0		12.5		87.2		6.7		6.0		6		89				<0.2		3.4	
					Bottom	6.6	0.2	79	25.1	25.1	8.1	8.1	17.8	17.8	87.9	88.0	6.6	6.6	8.7		7		90				<0.2		3.4	
						6.6	0.2	84	25.1		8.1		17.8		88.0		6.6		8.2		7		89				<0.2		3.5	

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 25 April 19 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	16:24	7.2	Surface	1.0	0.2	70	25.7	25.7	8.1	8.1	11.2	11.2	90.7	90.9	7.0	6.8	7.9	6.4	3	8	84	87	822076	808820	<0.2	<0.2	3.4	3.5
						1.0	0.2	72	25.7		8.1		11.2		91.0		7.0		7.1		3		85				<0.2		3.4	
					Middle	3.6	0.4	55	25.4	25.4	8.1	8.1	14.1	14.1	87.1	87.1	6.6		6.3		6		88				<0.2		3.5	
						3.6	0.4	59	25.3		8.1		14.1		87.0		6.6		6.3		7		86				<0.2		3.4	
					Bottom	6.2	0.2	65	25.6	25.7	8.1	8.1	17.3	17.3	87.0	87.2	6.4	6.5	5.5		14		90				<0.2		3.5	
						6.2	0.2	66	25.7		8.1		17.2		87.3		6.5		5.5		13		90				<0.2		3.5	
IM10	Fine	Moderate	16:31	7.3	Surface	1.0	0.4	80	25.7	25.7	8.1	8.1	12.1	12.1	89.0	88.9	6.8	6.8	4.3	4.6	4	5	84	86	822378	809789	<0.2	<0.2	3.3	3.3
						1.0	0.4	82	25.7		8.1		12.1		88.7		6.8		4.4		3		82				<0.2		3.2	
					Middle	3.7	0.4	87	25.5	25.5	8.1	8.1	13.8	13.8	88.2	88.2	6.7		4.6		6		87				<0.2		3.4	
						3.7	0.4	88	25.5		8.1		13.8		88.1		6.7		4.6		5		86				<0.2		3.3	
					Bottom	6.3	0.3	72	25.5	25.5	8.1	8.1	16.1	16.1	88.0	88.0	6.6	6.6	4.8		5		90				<0.2		3.3	
						6.3	0.4	72	25.5		8.1		16.1		88.0		6.6		4.8		4		89				<0.2		3.3	
IM11	Fine	Moderate	16:40	7.4	Surface	1.0	0.2	115	25.9	25.9	8.1	8.1	14.2	14.2	94.4	94.6	7.1	7.0	6.2	5.6	2	3	84	87	822043	811453	<0.2	<0.2	3.2	3.4
						1.0	0.2	101	25.9		8.1		14.2		94.7		7.1		6.7		<2		84				<0.2		3.4	
					Middle	3.7	0.4	102	25.9	25.9	8.1	8.1	14.6	14.6	91.6	91.8	6.9		4.0		3		90				<0.2		3.4	
						3.7	0.4	103	25.9		8.1		14.6		91.9		6.9		4.0		<2		87				<0.2		3.4	
					Bottom	6.4	0.1	131	25.7	25.7	8.1	8.1	15.6	15.6	91.3	91.3	6.8	6.8	6.2		4		90				<0.2		3.5	
						6.4	0.1	132	25.7		8.1		15.6		91.3		6.8		6.2		3		89				<0.2		3.4	
IM12	Fine	Moderate	16:51	8.2	Surface	1.0	0.1	131	25.8	25.8	8.2	8.2	15.5	15.5	91.5	91.5	6.8	6.8	3.0	3.8	2	2	84	87	821436	812033	<0.2	<0.2	3.4	3.3
						1.0	0.1	133	25.8		8.2		15.5		91.5		6.8		3.1		3		83				<0.2		3.3	
					Middle	4.1	0.2	164	25.8	25.8	8.2	8.1	16.1	16.1	91.2	91.2	6.8		4.3		3		88				<0.2		3.2	
						4.1	0.2	158	25.8		8.1		16.1		91.2		6.8		4.3		<2		88				<0.2		3.2	
					Bottom	7.2	0.1	97	25.5	25.5	8.2	8.2	17.3	17.3	90.8	90.9	6.7	6.8	3.9		2		90				<0.2		3.3	
						7.2	0.1	104	25.5		8.2		17.3		90.9		6.8		4.0		2		90				<0.2		3.4	
SR1A	Fine	Moderate	17:05	4.7	Surface	1.0	-	-	25.5	25.5	8.2	8.2	16.8	16.8	91.2	91.1	6.8	6.8	2.8	2.5	<2	2	-	-	819982	812660	-	-	-	-
						1.0	-	-	25.5		8.2		16.8		91.0		6.8		2.8		2		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	25.5	25.5	8.2	8.2	17.3	17.3	91.2	91.3	6.8	6.8	2.3		<2		-				-		-	
						3.7	-	-	25.4		8.2		17.3		91.4		6.8		2.2		2		-				-		-	
SR2	Fine	Moderate	17:11	4.3	Surface	1.0	0.4	65	25.5	25.5	8.2	8.2	16.8	16.8	90.7	90.8	6.8	6.8	2.8	2.5	4	4	84	86	821471	814188	<0.2	<0.2	3.2	3.3
						1.0	0.4	63	25.5		8.2		16.8		90.8		6.8		2.6		3		85				<0.2		3.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.3	71	25.5	25.5	8.2	8.2	17.2	17.2	91.1	91.2	6.8	6.8	2.4		3		87				<0.2		3.3	
						3.3	0.3	62	25.5		8.2		17.2		91.2		6.8		2.4		4		88				<0.2		3.4	
SR3	Fine	Moderate	16:10	8.3	Surface	1.0	0.1	169	25.7	25.7	8.1	8.1	11.5	11.5	91.0	91.1	7.0	6.8	4.3	4.8	4	5	-	-	822143	807594	-	-	-	-
						1.0	0.2	173	25.7		8.1		11.5		91.2		7.0		4.4		3		-				-		-	
					Middle	4.2	0.2	174	25.6	25.6	8.2	8.2	14.4	14.4	87.2	87.3	6.6		4.9		4		-				-		-	
						4.2	0.2	178	25.6		8.2		14.4		87.3		6.6		4.9		5		-				-		-	
					Bottom	7.3	0.3	162	25.6	25.6	8.2	8.2	18.4	18.4	89.4	89.5	6.6	6.6	5.3		6		-				-		-	
						7.3	0.3	164	25.6		8.2		18.4		89.5		6.6		5.1		6		-				-		-	
SR4A	Fine	Moderate	16:42	9.3	Surface	1.0	0.7	56	26.7	26.7	8.2	8.2	13.7	13.7	95.7	95.7	7.1	7.1	12.9	11.1	4	4	-	-	817180	807820	-	-	-	-
						1.0	0.7	58	26.7		8.2		13.7		95.6		7.1		13.0		4		-				-		-	
					Middle	4.7	0.6	64	26.6	26.7	8.2	8.2	13.7	13.7	95.4	95.4	7.1		10.8		3		-				-		-	
						4.7	0.6	66	26.7		8.2		13.7		95.4		7.1		11.0		4		-				-		-	
					Bottom	8.3	0.6	64	27.1	27.1	8.2	8.2	13.6	13.6	96.0	96.0	7.1	7.1	9.4		3		-				-		-	
						8.3	0.6	66	27.1		8.2		13.6		96.0		7.1		9.4		4		-				-		-	
SR5A	Fine	Calm	16:55	5.6	Surface	1.0	0.5	139	28.9	28.9	8.2	8.2	14.4	14.4	98.3	98.1	7.0	7.0	12.7	13.3	3	3	-	-	816615	810695	-	-	-	-
						1.0	0.5	148	28.9		8.2		14.3		97.8		7.0		13.3		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.3	139	29.5	29.6	8.2	8.2	13.5	13.5	98.3	98.1	7.0	7.0	13.5		3		-				-		-	
						4.6	0.3	148	29.6		8.2		13.5		97.8		6.9		13.5		3		-				-		-	
SR6	Fine	Calm	17:20	4.9	Surface	1.0	0.1	152	27.8	27.8	8.2	8.2	15.8	15.7	96.5	96.6	6.9	7.0	9.3	10.7	4	3	-	-	817921	814642	-	-	-	-
						1.0	0.1	156	27.8		8.2		15.7		96.6		7.0		9.4		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	177	30.2	30.1	8.2	8.2	15.5	15.5	97.6	97.6	6.8	6.8	12.0		3		-				-		-	
						3.9	0.1	181	30.0		8.2		15.5		97.6		6.8		12.2		3		-				-		-	
SR7	Fine	Moderate	17:51	16.2	Surface	1.0	0.2	41	25.4	25.4	8.3	8.3	20.8	20.8	93.4	93.4	6.8	6.8	4.7	5.0	3	3	-	-	823622	823737	-	-	-	-
						1.0	0.2	43	25.4		8.3		20.8		93.4		6.8		4.7		2		-				-		-	
					Middle	8.1	0.2	109	25.2	25.2	8.3	8.3	22.4	22.4	93.0	93.0	6.7		8.0		5		-				-		-	
						8.1	0.2	113	25.2		8.3		22.4		93.0		6.7		8.0		5		-				-		-	
					Bottom	15.2	0.1	73	25.1	25.1	8.3	8.3	24.6	24.6	91.9	91.9	6.6	6.6	2.2		3		-				-		-	
						15.2	0.1	76	25.1		8.3		24.6		91.9		6.6		2.3		<2		-				-		-	
SR8	Fine	Moderate	16:56	5.0	Surface	1.0	-	-	25.7	25.7	8.1	8.1	15.4	15.4	90.4	90.4	6.8	6.8	3.2	2.9	3	3	-	-	820376	811621	-	-	-	-
						1.0	-	-	25.7		8.1		15.4		90.3		6.8		3.4		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	-	-	25.7	25.7	8.1	8.1	17.2	17.2	90.7	90.8	6.7	6.7	2.6		3		-				-		-	
						4.0	-	-	25.7		8.1		17.2		90.8		6.7		2.7		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 25 April 19 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	10:00	8.6	Surface	1.0	0.4	60	25.9	25.9	8.2	8.2	13.5	13.5	90.0	90.0	6.9	6.9	11.6	10.1	3	3	86	88	815613	804234	<0.2	<0.2	3.0	3.0
						1.0	0.4	61	25.9		8.3		13.5		90.0		6.9		12.2		3		87						3.2	
					Middle	4.3	0.3	30	25.9	25.9	8.3	8.3	14.7	14.7	89.7	89.8	6.8		9.4		3		88				<0.2		3.0	
						4.3	0.3	31	25.9		8.3		14.7		89.8		6.8		9.3		3		89				<0.2		3.0	
					Bottom	7.6	0.2	22	25.8	25.8	8.4	8.4	14.4	14.4	89.8	89.9	6.7	6.8	9.1		<2		89				<0.2		3.0	
						7.6	0.3	22	25.8		8.4		14.4		90.0		6.8		9.1		2		90				<0.2		2.9	
C2	Fine	Moderate	10:50	11.6	Surface	1.0	0.5	347	25.7	25.7	8.0	8.0	10.8	10.8	87.3	87.4	6.7	6.7	4.6	4.4	3	3	86	87	825701	806939	<0.2	<0.2	3.9	3.4
						1.0	0.5	319	25.7		8.0		10.8		87.5		6.7		4.8		2		85				<0.2		3.6	
					Middle	5.8	0.5	329	25.5	25.5	8.1	8.1	14.4	14.4	88.0	88.1	6.6		5.0		3		86				<0.2		3.2	
						5.8	0.5	342	25.5		8.1		14.4		88.1		6.6		5.1		3		86				<0.2		3.2	
					Bottom	10.6	0.3	346	25.2	25.2	8.1	8.1	19.0	19.0	85.9	86.0	6.4	6.4	3.5		2		88				<0.2		3.4	
						10.6	0.4	318	25.2		8.1		19.0		86.0		6.4		3.5		3		89				<0.2		3.2	
C3	Fine	Moderate	09:03	11.9	Surface	1.0	0.3	289	25.5	25.5	8.1	8.1	13.5	13.5	87.4	87.5	6.6	6.6	10.9	5.2	3	3	83	86	822107	817786	<0.2	<0.2	2.7	2.9
						1.0	0.3	313	25.5		8.1		13.5		87.5		6.6		10.2		3		84				<0.2		2.8	
					Middle	5.9	0.2	242	25.5	25.5	8.1	8.1	14.9	14.9	87.3	87.5	6.6		2.8		2		86				<0.2		3.0	
						5.9	0.3	244	25.5		8.1		14.9		87.6		6.6		2.7		3		86				<0.2		3.0	
					Bottom	10.9	0.3	280	25.6	25.6	8.1	8.1	17.7	17.7	88.1	88.1	6.5	6.5	2.2		3		89				<0.2		3.1	
						10.9	0.3	297	25.6		8.1		17.7		88.1		6.5		2.4		<2		88				<0.2		2.9	
IM1	Fine	Calm	10:08	5.8	Surface	1.0	0.0	32	26.1	26.1	8.2	8.2	13.7	13.7	91.8	91.9	7.0	7.0	9.3	9.2	2	3	87	88	817944	807129	<0.2	<0.2	3.0	2.9
						1.0	0.0	34	26.1		8.2		13.7		92.0		7.0		9.2		3		87				<0.2		2.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	0.2	338	26.3	26.3	8.3	8.3	12.3	12.3	92.5	92.7	7.0	7.0	9.1		2		90				<0.2		2.8	
						4.8	0.2	311	26.3		8.3		12.3		92.9		7.0		9.1		3		89				<0.2		2.8	
IM2	Fine	Moderate	10:15	7.9	Surface	1.0	0.4	28	25.7	25.7	8.2	8.2	12.7	12.7	91.3	91.5	6.9	7.0	9.8	9.7	2	2	87	88	818166	806164	<0.2	<0.2	2.8	2.8
						1.0	0.4	29	25.7		8.2		12.7		91.6		7.0		9.8		<2		88				<0.2		2.8	
					Middle	4.0	0.4	9	25.7	25.7	8.2	8.2	12.8	12.8	91.6	91.6	7.0		9.8		2		88				<0.2		2.9	
						4.0	0.4	9	25.7		8.2		12.8		91.5		7.0		9.7		<2		88				<0.2		2.7	
					Bottom	6.9	0.3	17	26.1	26.1	8.3	8.3	12.6	12.6	93.1	93.4	7.0	7.1	9.6		<2		89				<0.2		2.6	
						6.9	0.3	17	26.1		8.3		12.6		93.7		7.1		9.6		<2		89				<0.2		2.7	
IM3	Fine	Moderate	10:21	8.0	Surface	1.0	0.4	335	26.2	26.1	8.2	8.2	15.9	15.9	90.6	90.7	6.9	6.9	9.5	9.6	2	2	87	88	818798	805614	<0.2	<0.2	2.9	2.8
						1.0	0.4	351	26.1		8.2		15.9		90.8		6.9		9.4		<2		88				<0.2		2.8	
					Middle	4.0	0.3	353	26.1	26.1	8.2	8.2	15.6	15.6	90.6	90.6	6.9		9.6		3		88				<0.2		2.8	
						4.0	0.3	325	26.1		8.2		15.6		90.6		6.9		9.6		3		87				<0.2		2.8	
					Bottom	7.0	0.2	351	26.2	26.2	8.2	8.2	14.3	14.3	91.7	91.8	7.0	7.0	9.8		<2		90				<0.2		2.8	
						7.0	0.2	323	26.2		8.2		14.3		91.9		7.0		9.8		<2		89				<0.2		2.9	
IM4	Fine	Moderate	10:27	8.1	Surface	1.0	0.4	343	26.1	26.1	8.2	8.2	13.3	13.3	90.7	90.9	6.8	6.9	9.9	9.9	<2	2	86	88	819719	804600	<0.2	<0.2	2.8	2.9
						1.0	0.4	316	26.1		8.2		13.3		91.0		6.8		10.0		2		87				<0.2		3.0	
					Middle	4.1	0.5	358	26.2	26.3	8.2	8.2	12.3	12.3	92.3	92.5	7.0		9.7		<2		88				<0.2		2.8	
						4.1	0.5	329	26.3		8.2		12.3		92.6		7.0		9.7		2		88				<0.2		2.8	
					Bottom	7.1	0.4	347	26.5	26.5	8.2	8.2	11.4	11.4	94.4	94.5	7.1	7.1	9.9		<2		89				<0.2		2.9	
						7.1	0.4	359	26.5		8.2		11.4		94.6		7.1		9.9		2		90				<0.2		3.0	
IM5	Fine	Moderate	10:38	7.6	Surface	1.0	0.5	356	26.7	26.7	8.2	8.2	13.0	13.0	91.9	91.9	6.9	6.9	9.1	10.2	<2	3	87	88	820746	804856	<0.2	<0.2	2.7	2.7
						1.0	0.6	328	26.7		8.2		13.0		91.9		6.9		9.1		<2		87				<0.2		2.6	
					Middle	3.8	0.7	343	26.7	26.7	8.2	8.2	12.8	12.8	91.6	91.5	6.8		10.2		3		88				<0.2		2.6	
						3.8	0.7	345	26.7		8.2		12.8		91.4		6.8		10.4		3		89				<0.2		2.6	
					Bottom	6.6	0.4	14	26.8	26.8	8.2	8.2	13.5	13.5	93.2	93.1	6.9	6.9	11.1		2		89				<0.2		2.7	
						6.6	0.5	14	26.8		8.2		13.5		92.9		6.9		11.1		3		90				<0.2		2.8	
IM6	Fine	Moderate	10:44	6.8	Surface	1.0	0.8	40	26.6	26.5	8.2	8.2	14.9	14.9	91.8	91.9	6.8	6.8	10.4	10.2	3	4	86	88	821046	805826	<0.2	<0.2	2.6	2.8
						1.0	0.8	40	26.5		8.2		14.9		91.9		6.8		10.5		3		85				<0.2		2.8	
					Middle	3.4	0.5	40	26.5	26.5	8.2	8.2	15.1	15.1	92.1	92.2	6.8		10.3		4		88				<0.2		2.7	
						3.4	0.5	42	26.5		8.2		15.1		92.2		6.8		10.4		4		89				<0.2		2.8	
					Bottom	5.8	0.3	62	26.8	26.8	8.2	8.2	14.9	14.9	92.9	93.1	6.8	6.9	9.8		4		90				<0.2		2.9	
						5.8	0.3	66	26.8		8.2		14.9		93.2		6.9		9.8		3		90				<0.2		2.8	
IM7	Fine	Moderate	10:49	7.3	Surface	1.0	0.3	36	26.3	26.3	8.3	8.3	15.9	15.9	91.6	91.7	6.8	6.8	9.5	9.4	3	3	86	88	821370	806814	<0.2	<0.2	2.8	2.9
						1.0	0.3	39	26.3		8.3		15.9		91.7		6.8		9.8		3		87				<0.2		2.9	
					Middle	3.7	0.3	41	26.4	26.4	8.2	8.2	15.9	15.9	91.7	91.7	6.8		9.2		3		88				<0.2		2.8	
						3.7	0.4	43	26.4		8.2		15.9		91.7		6.8		9.3		3		89				<0.2		2.8	
					Bottom	6.3	0.4	39	26.7	26.7	8.2	8.2	15.7	15.7	92.9	93.0	6.8	6.8	9.3		3		89				<0.2		3.1	
						6.3	0.4	39	26.8		8.2		15.7		93.0		6.8		9.2		3		90				<0.2		2.8	
IM8	Fine	Moderate	10:25	7.6	Surface	1.0	0.3	265	25.4	25.4	8.0	8.0	11.6	11.6	88.1	88.1	6.8	6.7	4.9	6.7	2	3	86	87	821828	808124	<0.2	<0.2	3.4	3.5
						1.0	0.3	270	25.4		8.0		11.6		88.1		6.8		4.9		3		85				<0.2		3.2	
					Middle	3.8	0.2	262	25.5	25.5	8.0	8.0	12.8	12.8	86.8	87.0	6.6		9.3		2		86				<0.2		3.6	
						3.8	0.2	270	25.5		8.0		12.8		87.1		6.6		8.1		3		85				<0.2		3.6	
					Bottom	6.6	0.1	110	25.0	25.0	8.2	8.2	18.9	18.8	86.7	86.9	6.4	6.5	6.2		5		88				<0.2		3.5	
						6.6	0.1	114	25.0		8.2		18.8		87.0		6.5		6.6		5		90				<0.2		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 25 April 19 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	Moderate	10:19	7.3	Surface	1.0	0.3	239	25.5	25.5	8.0	8.0	10.2	10.2	87.2	87.4	6.7	6.7	4.4	6.7	3	4	85	87	822102	808796	<0.2	<0.2	3.3	3.4
						1.0	0.3	257	25.5		8.0		10.2		87.5		6.8		4.4		4		85				<0.2		3.2	
					Middle	3.7	0.3	264	25.5	25.6	8.0	8.0	11.3	11.3	86.1	86.2	6.6		4.7		3		86				<0.2		3.3	
						3.7	0.3	269	25.6		8.0		11.3		86.3		6.6		4.7		3		88				<0.2		3.6	
					Bottom	6.3	0.1	274	25.4	25.4	8.1	8.1	14.8	14.8	86.5	86.6	6.5	6.5	11.3		4		87				<0.2		3.4	
						6.3	0.1	297	25.3		8.1		14.8		86.7		6.5		11.0		4		89				<0.2		3.5	
IM10	Fine	Moderate	10:12	7.4	Surface	1.0	0.3	306	25.5	25.5	8.0	8.0	11.1	11.1	86.9	87.0	6.7	6.7	4.2	6.0	3	3	84	87	822385	809770	<0.2	<0.2	3.4	3.2
						1.0	0.3	325	25.5		8.0		11.1		87.0		6.7		4.6		3		86				<0.2		3.1	
					Middle	3.7	0.4	312	25.5	25.6	8.1	8.1	12.8	12.7	86.5	86.6	6.6		7.9		2		86				<0.2		3.3	
						3.7	0.4	312	25.6		8.1		12.7		86.7		6.6		7.9		<2		85				<0.2		3.0	
					Bottom	6.4	0.3	303	25.3	25.3	8.1	8.1	16.6	16.6	87.0	87.0	6.5	6.5	5.7		4		90				<0.2		3.3	
						6.4	0.3	311	25.3		8.2		16.6		87.0		6.5		5.7		4		88				<0.2		3.3	
IM11	Fine	Moderate	10:02	7.6	Surface	1.0	0.2	325	25.4	25.4	8.1	8.1	13.1	13.1	87.0	87.0	6.6	6.6	4.9	7.5	2	2	86	87	822044	811476	<0.2	<0.2	3.3	3.4
						1.0	0.3	334	25.4		8.1		13.1		87.0		6.6		4.9		2		85				<0.2		3.4	
					Middle	3.8	0.3	300	25.4	25.4	8.1	8.1	13.1	13.1	87.2	87.3	6.6		8.0		2		86				<0.2		3.1	
						3.8	0.3	320	25.4		8.1		13.1		87.3		6.6		8.2		2		85				<0.2		3.5	
					Bottom	6.6	0.3	303	25.2	25.2	8.1	8.1	13.7	13.7	86.2	86.2	6.6	6.6	9.6		<2		90				<0.2		3.4	
						6.6	0.3	315	25.2		8.1		13.7		86.1		6.6		9.6		2		88				<0.2		3.5	
IM12	Fine	Moderate	09:54	8.3	Surface	1.0	0.2	307	25.7	25.7	8.1	8.1	12.1	12.1	89.4	89.4	6.8	6.7	5.8	6.9	2	2	85	87	821477	812068	<0.2	<0.2	3.3	3.4
						1.0	0.2	320	25.7		8.1		12.1		89.3		6.8		6.1		<2		83				<0.2		3.3	
					Middle	4.2	0.4	289	25.5	25.5	8.1	8.1	13.2	13.2	87.4	87.5	6.6		6.1		3		86				<0.2		3.4	
						4.2	0.4	316	25.5		8.1		13.2		87.6		6.7		6.4		2		88				<0.2		3.4	
					Bottom	7.3	0.3	290	25.0	25.0	8.1	8.1	19.7	19.7	86.2	86.3	6.4	6.4	8.6		3		89				<0.2		3.4	
						7.3	0.3	311	25.0		8.1		19.7		86.3		6.4		8.6		2		88				<0.2		3.4	
SR1A	Fine	Moderate	09:36	4.7	Surface	1.0	-	-	25.9	25.9	8.1	8.1	13.6	13.6	89.0	89.1	6.7	6.7	3.9	6.0	2	3	-	-	819982	812658	-	-	-	-
						1.0	-	-	25.9		8.1		13.6		89.1		6.7		3.9		<2		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	26.0	26.0	8.1	8.1	16.6	16.6	88.2	88.3	6.5	6.5	8.2		3		-				-		-	
						3.7	-	-	26.0		8.1		16.6		88.3		6.5		8.0		3		-				-		-	
SR2	Fine	Moderate	09:23	4.3	Surface	1.0	0.1	347	25.6	25.6	8.1	8.1	13.0	13.0	87.7	87.7	6.7	6.7	7.7	6.9	2	3	86	87	821480	814165	<0.2	<0.2	2.9	3.2
						1.0	0.2	319	25.6		8.1		13.0		87.7		6.7		8.3		3		85				<0.2		3.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	342	25.5	25.5	8.1	8.1	16.2	16.2	84.8	84.8	6.3	6.3	5.7		3		89				<0.2		3.2	
						3.3	0.2	315	25.5		8.1		16.2		84.8		6.3		5.8		3		89				<0.2		3.3	
SR3	Fine	Moderate	10:30	8.4	Surface	1.0	0.2	268	25.4	25.4	8.0	8.0	11.7	11.7	88.8	89.1	6.8	6.8	6.7	7.7	3	3	-	-	822155	807563	-	-	-	-
						1.0	0.2	293	25.4		8.0		11.7		89.3		6.9		6.5		2		-				-		-	
					Middle	4.2	0.2	285	25.4	25.4	8.0	8.0	12.9	12.9	88.3	88.4	6.7		7.2		4		-				-		-	
						4.2	0.2	291	25.4		8.0		12.9		88.5		6.8		7.5		3		-				-		-	
					Bottom	7.4	0.1	12	25.0	25.1	8.1	8.1	18.7	18.7	86.6	86.7	6.4	6.4	9.2		4		-				-		-	
						7.4	0.1	12	25.1		8.1		18.7		86.7		6.4		9.2		3		-				-		-	
SR4A	Fine	Calm	09:45	8.8	Surface	1.0	0.2	262	25.8	25.8	8.4	8.4	16.9	16.9	86.8	86.4	6.4	6.2	9.9	12.0	2	2	-	-	817193	807813	-	-	-	-
						1.0	0.2	285	25.8		8.4		16.9		86.0		6.4		10.2		2		-				-		-	
					Middle	4.4	0.1	251	25.4	25.4	8.4	8.4	18.3	18.3	81.7	81.5	6.0		12.8		2		-				-		-	
						4.4	0.1	265	25.3		8.4		18.4		81.2		6.0		12.8		<2		-				-		-	
					Bottom	7.8	0.1	264	24.4	24.4	8.5	8.5	26.4	26.4	78.9	78.9	5.7	5.7	13.1		<2		-				-		-	
						7.8	0.1	265	24.4		8.5		26.5		78.9		5.7		13.1		2		-				-		-	
SR5A	Fine	Calm	09:30	5.2	Surface	1.0	0.2	316	25.7	25.7	8.3	8.3	17.8	17.8	84.5	84.4	6.2	6.2	10.3	11.0	2	2	-	-	816594	810705	-	-	-	-
						1.0	0.2	334	25.7		8.3		17.7		84.3		6.2		10.4		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	307	25.4	25.4	8.3	8.3	19.2	19.2	82.9	83.0	6.1	6.1	11.5		2		-				-		-	
						4.2	0.2	326	25.4		8.3		19.2		83.0		6.1		11.7		<2		-				-		-	
SR6	Fine	Calm	09:01	4.5	Surface	1.0	0.0	7	26.0	26.0	8.2	8.2	15.2	15.2	89.7	89.7	6.7	6.7	10.6	9.9	3	3	-	-	817916	814652	-	-	-	-
						1.0	0.0	7	26.0		8.2		15.2		89.7		6.7		10.7		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.0	307	26.0	26.0	8.2	8.2	15.2	15.2	89.6	89.6	6.7	6.7	9.1		<2		-				-		-	
						3.5	0.0	311	26.0		8.2		15.2		89.6		6.7		9.1		3		-				-		-	
SR7	Fine	Moderate	08:31	16.4	Surface	1.0	0.2	218	25.7	25.7	8.1	8.1	15.2	15.2	88.7	88.8	6.6	6.6	3.6	2.8	<2	2	-	-	823627	823761	-	-	-	-
						1.0	0.2	219	25.7		8.1		15.2		88.8		6.6		3.6		2		-				-		-	
					Middle	8.2	0.0	243	25.8	25.9	8.1	8.1	15.5	15.5	88.7	88.7	6.6		2.9		<2		-				-		-	
						8.2	0.0	244	25.9		8.1		15.5		88.6		6.6		2.9		<2		-				-		-	
					Bottom	15.4	0.0	293	25.9	25.9	8.1	8.1	15.7	15.7	88.6	88.6	6.6	6.6	2.0		<2		-				-		-	
						15.4	0.0	302	25.9		8.1		15.7		88.6		6.6		2.0		<2		-				-		-	
SR8	Fine	Moderate	09:46	5.1	Surface	1.0	-	-	25.5	25.5	8.1	8.1	13.3	13.3	86.4	86.4	6.6	6.6	5.4	5.3	4	4	-	-	820411	811644	-	-	-	-
						1.0	-	-	25.5		8.1		13.3		86.3		6.6		5.4		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	25.5	25.5	8.1	8.1	15.4	15.4	86.0	86.0	6.5	6.5	5.3		4		-				-		-	
						4.1	-	-	25.5		8.1		15.4		86.0		6.5		5.2		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 27 April 19 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	18:29	8.6	Surface	1.0	0.2	152	24.7	24.7	8.1	8.1	25.1	25.1	100.0	100.0	7.2	7.1	5.9	4.2	6	5	85	88	815607	804235	<0.2	<0.2	2.4	2.1
						1.0	0.2	156	24.7		8.1		25.1		99.9		7.2		5.9		6		85				<0.2		2.3	
					Middle	4.3	0.1	143	24.5	24.5	8.0	8.0	26.1	26.1	97.9	97.9	7.0		5.2		3		88				<0.2		2.1	
						4.3	0.1	145	24.4		8.0		26.1		97.9		7.0		5.2		4		88				<0.2		1.9	
					Bottom	7.6	0.1	147	24.0	24.0	7.9	7.9	29.7	29.7	92.4	92.4	6.6	6.6	1.5		4		92				<0.2		2.1	
						7.6	0.1	145	24.0		7.9		29.7		92.4		6.6		1.5		4		91				<0.2		2.0	
C2	Rainy	Rough	17:36	7.9	Surface	1.0	0.3	172	25.7	25.7	8.1	8.1	17.6	17.6	102.8	102.8	7.6	7.6	2.7	2.6	4	4	83	88	825698	806949	<0.2	<0.2	2.9	2.6
						1.0	0.3	182	25.7		8.1		17.6		102.8		7.6		2.7		4		84				<0.2		2.6	
					Middle	4.0	0.2	153	25.7	25.7	8.1	8.1	17.6	17.6	103.0	103.1	7.6		2.7		3		87				<0.2		2.2	
						4.0	0.2	169	25.7		8.1		17.6		103.1		7.6		2.8		4		88				<0.2		2.4	
					Bottom	6.9	0.1	154	25.7	25.7	8.1	8.1	17.6	17.6	103.3	103.3	7.6	7.6	2.3		3		92				<0.2		2.7	
						6.9	0.1	159	25.7		8.1		17.6		103.3		7.6		2.4		3		93				<0.2		2.7	
C3	Cloudy	Rough	19:56	14.6	Surface	1.0	0.2	157	25.6	25.7	8.2	8.2	19.5	19.5	118.1	118.1	8.6	8.6	2.2	5.4	5	4	83	88	822112	817804	<0.2	<0.2	2.6	2.5
						1.0	0.2	169	25.7		8.2		19.5		118.1		8.6		2.2		4		84				<0.2		2.6	
					Middle	7.3	0.3	128	25.7	25.7	8.2	8.2	19.5	19.5	117.9	117.7	8.6		2.0		4		88				<0.2		2.7	
						7.3	0.3	129	25.7		8.2		19.5		117.5		8.6		2.0		4		89				<0.2		2.4	
					Bottom	13.6	0.2	121	25.3	25.3	8.2	8.2	22.3	22.3	107.4	107.4	7.8	7.8	11.9		4		92				<0.2		2.5	
						13.6	0.2	127	25.3		8.2		22.3		107.4		7.8		11.9		4		92				<0.2		2.4	
IM1	Rainy	Rough	18:20	5.4	Surface	1.0	0.1	279	24.1	24.1	7.9	7.9	28.1	28.1	93.1	93.2	6.7	6.7	7.3	7.4	9	8	85	88	817970	807127	<0.2	<0.2	1.8	1.6
						1.0	0.1	297	24.0		7.9		28.1		93.3		6.7		7.3		8		84				<0.2		1.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	102	23.9	23.9	7.9	7.9	29.3	29.3	92.9	93.1	6.6	6.7	7.9		6		90				<0.2		1.4	
						4.4	0.1	102	23.9		7.9		29.3		93.3		6.7		7.0		7		92				<0.2		1.6	
IM2	Rainy	Rough	18:14	7.2	Surface	1.0	0.1	255	24.2	24.2	8.0	8.0	25.7	25.7	96.5	96.6	7.0	6.9	5.3	4.4	5	6	85	89	818174	806170	<0.2	<0.2	2.4	2.3
						1.0	0.1	226	24.2		8.0		25.7		96.7		7.0		5.3		6		84				<0.2		2.4	
					Middle	3.6	0.1	255	24.1	24.1	8.0	8.0	27.7	27.7	94.4	94.6	6.8		4.7		6		90				<0.2		2.4	
						3.6	0.1	265	24.1		8.0		27.7		94.7		6.8		4.7		8		87				<0.2		2.1	
					Bottom	6.2	0.1	132	24.0	24.0	7.9	7.9	28.3	28.3	90.5	90.5	6.5	6.5	3.2		6		93				<0.2		2.3	
						6.2	0.1	134	24.0		7.9		28.3		90.5		6.5		3.4		7		92				<0.2		2.2	
IM3	Rainy	Rough	18:07	7.6	Surface	1.0	0.1	228	24.7	24.7	8.0	8.0	19.6	19.6	97.5	97.5	7.2	7.2	2.9	3.9	7	7	85	88	818805	805607	<0.2	<0.2	2.3	2.3
						1.0	0.1	233	24.7		8.0		19.6		97.5		7.3		2.9		7		83				<0.2		2.3	
					Middle	3.8	0.1	240	24.3	24.3	8.0	8.0	24.4	24.4	96.3	96.6	7.0		3.7		8		90				<0.2		2.4	
						3.8	0.1	251	24.3		8.0		24.4		96.9		7.1		3.7		6		88				<0.2		2.3	
					Bottom	6.6	0.2	109	24.5	24.6	7.9	7.9	27.8	27.8	93.5	93.7	6.7	6.7	5.0		6		89				<0.2		2.2	
						6.6	0.2	112	24.6		7.9		27.8		93.8		6.7		5.0		6		92				<0.2		2.3	
IM4	Rainy	Rough	17:57	7.4	Surface	1.0	0.1	214	24.0	24.0	8.0	8.0	28.2	28.2	93.3	93.4	6.7	6.8	1.9	3.2	6	5	84	88	819747	804587	<0.2	<0.2	2.1	2.1
						1.0	0.1	229	24.0		8.0		28.2		93.4		6.7		2.0		5		82				<0.2		2.0	
					Middle	3.7	0.2	261	24.6	24.7	8.0	8.0	24.3	24.3	94.0	94.2	6.8		5.9		4		89				<0.2		2.3	
						3.7	0.2	263	24.7		8.0		24.3		94.3		6.8		5.6		4		88				<0.2		2.1	
					Bottom	6.4	0.0	266	24.5	24.5	8.0	8.0	21.1	21.2	94.1	94.0	7.0	7.0	2.0		5		90				<0.2		2.0	
						6.4	0.0	269	24.4		8.0		21.2		93.9		7.0		2.0		4		92				<0.2		2.3	
IM5	Rainy	Rough	17:43	7.5	Surface	1.0	0.4	207	24.0	24.0	8.0	8.0	28.2	28.2	93.3	93.4	6.7	6.9	1.9	2.3	8	6	85	88	820756	804874	<0.2	<0.2	2.7	2.8
						1.0	0.5	209	24.0		8.0		28.2		93.4		6.7		2.0		6		83				<0.2		2.5	
					Middle	3.8	0.2	189	24.5	24.5	8.0	8.0	18.6	18.6	93.3	93.2	7.0		2.9		5		89				<0.2		2.8	
						3.8	0.2	201	24.4		8.0		18.6		93.1		7.0		2.8		5		89				<0.2		2.8	
					Bottom	6.5	0.2	205	24.2	24.2	7.9	7.9	25.1	25.1	88.2	88.1	6.4	6.4	2.2		5		90				<0.2		2.8	
						6.5	0.2	220	24.1		7.9		25.2		88.0		6.4		2.2		6		91				<0.2		2.9	
IM6	Rainy	Rough	17:42	7.6	Surface	1.0	0.4	186	24.9	24.9	7.9	7.9	22.4	22.4	93.2	93.1	6.8	6.8	2.8	3.9	8	7	85	89	821080	805827	<0.2	<0.2	2.6	2.7
						1.0	0.4	190	24.8		7.9		22.5		92.9		6.8		2.9		9		84				<0.2		2.8	
					Middle	3.8	0.1	167	24.3	24.3	8.0	8.0	21.1	21.1	91.6	91.7	6.8		2.9		6		90				<0.2		2.4	
						3.8	0.1	178	24.3		8.0		21.1		91.7		6.8		3.0		7		89				<0.2		2.6	
					Bottom	6.6	0.1	212	24.5	24.6	7.9	7.9	27.4	27.3	92.5	92.7	6.6	6.6	6.0		5		93				<0.2		2.9	
						6.6	0.1	232	24.6		7.9		27.2		92.8		6.6		6.0		5		92				<0.2		2.6	
IM7	Rainy	Rough	17:34	8.1	Surface	1.0	0.4	171	24.6	24.6	7.9	7.9	20.9	20.9	96.4	96.6	7.1	6.9	9.8	8.6	6	5	85	87	821363	806820	<0.2	<0.2	2.9	3.2
						1.0	0.5	182	24.6		7.9		20.9		96.8		7.2		9.8		6		84				<0.2		2.7	
					Middle	4.1	0.2	194	24.2	24.2	7.9	7.9	24.6	24.6	92.5	92.5	6.7		9.4		5		88				<0.2		3.2	
						4.1	0.2	201	24.2		7.9		24.6		92.5		6.7		9.4		5		87				<0.2		3.4	
					Bottom	7.1	0.1	142	24.1	24.1	7.9	7.9	26.8	26.8	89.6	89.7	6.5	6.5	6.7		5		90				<0.2		3.4	
						7.1	0.1	144	24.1		7.9		26.8		89.7		6.5		6.7		5		90				<0.2		3.6	
IM8	Rainy	Rough	18:14	8.7	Surface	1.0	0.3	145	25.3	25.3	8.0	8.0	19.3	19.3	93.2	93.3	6.9	6.9	3.5	3.6	5	5	84	89	821820	808134	<0.2	<0.2	2.9	2.8
						1.0	0.3	152	25.3		8.0		19.3		93.3		6.9		3.5		6		85				<0.2		2.8	
					Middle	4.4	0.3	154	25.3	25.3	8.0	8.0	19.3	19.3	93.3	93.4	6.9		3.7		4		87				<0.2		2.8	
						4.4	0.3	155	25.3		8.0		19.3		93.4		6.9		3.7		5		89				<0.2		2.8	
					Bottom	7.7	0.2	131	25.3	25.3	8.0	8.0	19.8	19.8	94.0	94.3	6.9	7.0	3.5		4		93				<0.2		2.6	
						7.7	0.2	131	25.3		8.0		19.8		94.6		7.0		3.5		5		94				<0.2		2.7	

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 27 April 19 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	Rainy	Rough	18:31	7.2	Surface	1.0	0.1	159	25.3	25.3	8.0	8.0	19.0	19.0	95.7	95.7	7.1	7.1	3.4	4.0	4	5	84	89	822116	808831	<0.2	<0.2	2.9	2.9
						1.0	0.1	171	25.3		8.0		19.0		95.7		7.1		3.5		5		86				<0.2		2.9	
					Middle	3.6	0.1	141	25.3	25.3	8.0	8.0	19.0	19.0	95.4	95.4	7.0		3.6		4		88				<0.2		3.0	
						3.6	0.1	143	25.3		8.0		19.0		95.3		7.0		3.6		6		90				<0.2		3.0	
					Bottom	6.2	0.1	166	25.2	25.2	8.0	8.0	19.6	19.6	93.9	94.0	6.9	6.9	5.1		6		91				<0.2		2.8	
						6.2	0.1	167	25.2		8.0		19.6		94.0		6.9		5.1		6		92				<0.2		2.9	
IM10	Rainy	Rough	18:41	7.7	Surface	1.0	0.1	122	25.4	25.4	8.0	8.0	18.5	18.5	97.9	97.9	7.2	7.2	6.4	4.8	5	6	84	89	822379	809772	<0.2	<0.2	2.9	3.0
						1.0	0.2	122	25.4		8.0		18.5		97.9		7.2		6.4		6		86				<0.2		3.1	
					Middle	3.9	0.1	161	25.4	25.4	8.0	8.0	18.6	18.6	96.2	96.1	7.1		3.9		6		88				<0.2		2.8	
						3.9	0.1	171	25.3		8.0		18.6		96.0		7.1		4.0		5		90				<0.2		3.1	
					Bottom	6.7	0.1	162	25.3	25.3	8.0	8.0	19.3	19.3	95.6	95.6	7.0	7.0	4.2		7		92				<0.2		3.0	
						6.7	0.1	162	25.3		8.0		19.3		95.6		7.0		4.1		6		93				<0.2		2.9	
IM11	Rainy	Rough	18:54	7.5	Surface	1.0	0.1	165	25.7	25.7	8.1	8.1	17.7	17.7	104.1	104.2	7.7	7.7	3.1	3.1	5	5	85	89	822060	811475	<0.2	<0.2	3.0	3.1
						1.0	0.1	172	25.7		8.1		17.7		104.2		7.7		3.2		4		86				<0.2		3.1	
					Middle	3.8	0.2	161	25.7	25.7	8.1	8.1	17.7	17.7	104.8	104.8	7.7		2.9		6		88				<0.2		3.1	
						3.8	0.2	170	25.7		8.1		17.7		104.8		7.7		3.0		4		90				<0.2		3.1	
					Bottom	6.5	0.2	156	25.6	25.6	8.1	8.1	18.1	18.1	103.9	103.9	7.7	7.7	3.4		6		91				<0.2		3.0	
						6.5	0.2	177	25.6		8.1		18.1		103.8		7.7		3.3		5		93				<0.2		3.1	
IM12	Rainy	Rough	19:15	7.4	Surface	1.0	0.2	160	25.7	25.8	8.1	8.1	18.9	18.9	107.4	107.4	7.9	7.9	2.9	3.6	5	5	84	89	821471	812060	<0.2	<0.2	3.1	3.0
						1.0	0.3	176	25.8		8.1		18.9		107.4		7.9		2.8		6		86				<0.2		3.0	
					Middle	3.7	0.0	177	25.8	25.8	8.1	8.1	18.9	18.9	107.3	107.3	7.9		3.5		4		88				<0.2		3.2	
						3.7	0.0	178	25.7		8.1		18.9		107.3		7.9		3.5		4		90				<0.2		3.2	
					Bottom	6.4	0.1	128	25.7	25.7	8.2	8.2	18.9	18.9	107.1	107.0	7.8	7.8	4.5		4		92				<0.2		2.6	
						6.4	0.1	131	25.7		8.2		18.9		106.9		7.8		4.5		5		93				<0.2		2.7	
SR1A	Cloudy	Rough	19:30	3.9	Surface	1.0	-	-	25.9	25.9	8.1	8.1	18.5	18.5	105.8	105.8	7.8	7.8	4.4	4.6	3	3	-	-	819981	812655	-	-	-	-
						1.0	-	-	25.9		8.1		18.5		105.7		7.8		4.4		4		-				-		-	
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.0	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	-	-	25.8	25.8	8.1	8.1	18.7	18.7	103.8	103.8	7.6	7.6	4.8		4		-				-		-	
						2.9	-	-	25.8		8.1		18.7		103.7		7.6		4.8		2		-				-		-	
SR2	Cloudy	Rough	19:31	4.0	Surface	1.0	0.1	76	25.8	25.8	8.1	8.1	18.8	18.8	108.6	108.6	8.0	8.0	2.5	4.1	4	3	83	87	821461	814153	<0.2	<0.2	3.1	3.2
						1.0	0.1	85	25.8		8.1		18.8		108.6		8.0		2.6		2		84				<0.2		3.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	82	25.7	25.7	8.1	8.1	18.8	18.8	108.0	108.0	7.9	7.9	5.6		4		89				<0.2		3.1	
						3.0	0.1	96	25.7		8.1		18.8		107.9		7.9		5.6		3		91				<0.2		3.4	
SR3	Rainy	Rough	17:58	7.6	Surface	1.0	0.4	145	25.4	25.4	8.0	8.0	18.9	18.9	94.3	94.3	7.0	7.0	3.1	3.3	4	4	-	-	822150	807577	-	-	-	-
						1.0	0.4	163	25.4		8.0		18.9		94.3		7.0		3.1		4		-				-		-	
					Middle	3.8	0.3	196	25.3	25.3	8.0	8.0	19.1	19.1	93.5	93.5	6.9		3.5		4		-				-		-	
						3.8	0.3	205	25.3		8.0		19.1		93.4		6.9		3.5		4		-				-		-	
					Bottom	6.6	0.0	154	25.3	25.3	8.0	8.0	19.8	19.8	93.5	93.6	6.9	6.9	3.2		4		-				-		-	
						6.6	0.0	157	25.3		8.0		19.8		93.6		6.9		3.2		4		-				-		-	
SR4A	Cloudy	Moderate	18:40	8.1	Surface	1.0	0.1	46	25.6	25.6	8.3	8.3	18.1	18.1	112.8	112.6	8.3	7.7	9.1	8.3	5	5	-	-	817208	807796	-	-	-	-
						1.0	0.1	52	25.6		8.3		18.1		112.3		8.3		8.9		6		-				-		-	
					Middle	4.1	0.2	53	24.4	24.4	8.0	8.0	26.1	26.1	98.1	98.1	7.1		9.6		6		-				-		-	
						4.1	0.2	56	24.4		8.0		26.1		98.1		7.1		9.4		5		-				-		-	
					Bottom	7.1	0.2	30	24.5	24.6	7.9	7.9	26.6	26.6	97.7	97.8	7.0	7.0	6.5		4		-				-		-	
						7.1	0.2	31	24.6		7.9		26.5		97.8		7.0		6.5		5		-				-		-	
SR5A	Cloudy	Moderate	18:58	4.6	Surface	1.0	0.1	33	25.7	25.7	8.3	8.3	17.7	17.7	116.5	116.3	8.6	8.6	3.0	2.8	7	7	-	-	816615	810708	-	-	-	-
						1.0	0.1	33	25.6		8.3		17.8		116.1		8.6		3.1		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	95	25.0	25.0	8.0	8.0	22.7	22.7	100.7	100.6	7.3	7.3	2.5		7		-				-		-	
						3.6	0.1	98	25.0		8.0		22.7		100.5		7.3		2.5		6		-				-		-	
SR6	Cloudy	Moderate	19:31	4.2	Surface	1.0	0.0	115	25.2	25.2	8.1	8.1	18.3	18.3	107.5	107.2	8.0	8.0	1.8	3.1	6	6	-	-	817919	814643	-	-	-	-
						1.0	0.0	124	25.2		8.1		18.3		106.8		7.9		1.8		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.0	85	25.0	25.1	8.0	8.0	21.9	21.9	98.3	98.5	7.2	7.2	4.4		6		-				-		-	
						3.2	0.0	89	25.1		8.0		21.9		98.7		7.2		4.4		7		-				-		-	
SR7	Cloudy	Rough	20:32	17.6	Surface	1.0	0.1	168	25.2	25.2	8.2	8.2	23.5	23.5	113.0	112.9	8.1	8.1	2.5	2.5	4	4	-	-	823652	823726	-	-	-	-
						1.0	0.1	178	25.2		8.2		23.5		112.8		8.1		2.5		5		-				-		-	
					Middle	8.8	0.2	68	25.1	25.1	8.2	8.2	23.7	23.7	111.5	111.4	8.0	8.1	3.3		4		-				-		-	
						8.8	0.2	69	25.0		8.2		23.7		111.2		8.0		3.3		4		-				-		-	
					Bottom	16.6	0.1	154	24.9	24.9	8.1	8.1	26.1	26.1	104.4	104.3	7.5	7.5	1.7		3		-				-		-	
						16.6	0.1	161	24.9		8.1		26.1		104.2		7.4		1.8		4		-				-		-	
SR8	Cloudy	Rough	19:30	3.8	Surface	1.0	-	-	25.7	25.7	8.1	8.1	18.9	18.9	108.0	108.0	7.9	7.9	2.1	2.5	4	4	-	-	820380	811615	-	-	-	-
						1.0	-	-	25.7		8.1		18.9		108.0		7.9		2.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	-	-	25.7	25.7	8.1	8.1	18.9	18.9	107.7	107.7	7.9	7.9	2.9		4		-				-		-	
						2.8	-	-	25.7		8.1		18.9		107.6		7.9		2.8		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 27 April 19 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	06:31	8.3	Surface	1.0	0.1	319	24.5	24.5	8.0	8.0	23.6	23.6	95.0	94.9	6.9	6.9	7.1	4.2	4	4	84	87	815638	804270	<0.2	<0.2	2.3	2.1
						1.0	0.1	333	24.5		8.0		23.6		94.7		6.9		7.1		4		85				<0.2		2.2	
					Middle	4.2	0.1	17	24.4	24.4	8.0	8.0	25.6	25.6	94.0	94.0	6.8		2.8		4		88				<0.2		2.1	
						4.2	0.1	17	24.3		8.0		25.6		93.9		6.8		2.9		5		87				<0.2		1.9	
					Bottom	7.3	0.1	75	24.3	24.3	8.0	8.0	28.1	28.1	93.9	94.0	6.7	6.7	2.7		4		89				<0.2		1.9	
						7.3	0.1	75	24.3		8.0		28.1		94.0		6.7		2.8		5		90				<0.2		2.0	
C2	Cloudy	Moderate	07:39	8.0	Surface	1.0	0.3	62	25.7	25.7	8.1	8.1	17.9	17.9	102.3	102.4	7.6	7.6	3.0	3.1	3	4	84	88	825672	806935	<0.2	<0.2	2.8	2.6
						1.0	0.3	67	25.7		8.1		17.9		102.5		7.6		3.0		4		84				<0.2		2.8	
					Middle	4.0	0.2	15	25.7	25.7	8.1	8.1	17.6	17.6	103.0	103.0	7.6		2.4		3		88				<0.2		2.5	
						4.0	0.2	17	25.7		8.1		17.6		102.9		7.6		2.4		4		89				<0.2		2.8	
					Bottom	7.0	0.0	24	25.6	25.6	8.0	8.0	18.3	18.3	101.3	101.3	7.5	7.5	4.1		4		91				<0.2		2.4	
						7.0	0.0	26	25.6		8.0		18.3		101.3		7.5		4.0		4		92				<0.2		2.4	
C3	Cloudy	Moderate	05:36	12.9	Surface	1.0	0.0	257	25.3	25.3	8.0	8.0	19.4	19.4	99.8	99.8	7.4	7.3	1.5	1.5	4	3	83	88	822095	817798	<0.2	<0.2	2.7	2.6
						1.0	0.0	269	25.3		8.0		19.4		99.8		7.3		1.5		3		83				<0.2		2.5	
					Middle	6.5	0.4	263	25.3	25.3	8.0	8.0	20.2	20.2	99.4	99.4	7.3		1.4		<2		88				<0.2		2.6	
						6.5	0.4	283	25.3		8.0		20.2		99.4		7.3		1.5		3		89				<0.2		2.7	
					Bottom	11.9	0.1	281	25.3	25.3	8.0	8.0	20.6	20.6	99.3	99.3	7.3	7.3	1.5		3		91				<0.2		2.6	
						11.9	0.1	282	25.3		8.0		20.6		99.3		7.3		1.5		2		91				<0.2		2.6	
IM1	Cloudy	Moderate	06:39	5.6	Surface	1.0	0.1	279	24.3	24.3	8.0	8.0	27.5	27.5	92.3	92.3	6.6	6.6	2.8	3.0	6	5	85	87	817951	807115	<0.2	<0.2	1.5	1.6
						1.0	0.1	297	24.3		8.0		27.5		92.3		6.6		2.9		5		84				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.1	2	24.3	24.3	8.0	8.0	28.1	28.1	93.3	93.4	6.7	6.7	3.1		4		89				<0.2		1.5	
						4.6	0.1	2	24.3		8.0		28.1		93.5		6.7		3.2		6		90				<0.2		1.6	
IM2	Cloudy	Moderate	06:46	7.6	Surface	1.0	0.2	355	24.3	24.3	8.0	8.0	25.8	25.8	95.2	95.2	6.9	6.9	5.6	5.4	5	6	85	88	818162	806159	<0.2	<0.2	1.8	1.7
						1.0	0.3	327	24.3		8.0		25.8		95.2		6.9		5.6		6		83				<0.2		1.8	
					Middle	3.8	0.0	255	24.3	24.3	8.0	8.0	26.1	26.1	95.9	96.1	6.9		8.4		6		88				<0.2		1.7	
						3.8	0.0	265	24.3		8.0		26.1		96.2		7.0		8.4		7		90				<0.2		1.7	
					Bottom	6.6	0.1	32	23.9	23.9	8.0	8.0	29.3	29.3	92.1	92.2	6.6	6.6	2.1		5		89				<0.2		1.6	
						6.6	0.1	34	23.9		8.0		29.3		92.3		6.6		2.2		5		90				<0.2		1.7	
IM3	Cloudy	Moderate	06:53	7.8	Surface	1.0	0.1	47	24.3	24.3	8.0	8.0	20.4	20.5	96.3	96.3	7.2	7.0	4.5	3.4	5	5	85	88	818778	805612	<0.2	<0.2	1.7	1.7
						1.0	0.1	50	24.3		8.0		20.5		96.2		7.2		4.4		4		83				<0.2		1.7	
					Middle	3.9	0.2	40	24.0	24.0	8.0	8.0	23.5	23.6	92.8	92.8	6.8		3.2		6		88				<0.2		1.7	
						3.9	0.2	44	23.9		8.0		23.6		92.7		6.8		3.2		5		87				<0.2		1.7	
					Bottom	6.8	0.2	22	23.8	23.8	8.0	8.0	29.0	29.0	92.8	93.0	6.6	6.7	2.6		6		90				<0.2		1.8	
						6.8	0.2	23	23.8		8.0		29.0		93.1		6.7		2.6		5		92				<0.2		1.7	
IM4	Cloudy	Moderate	07:01	7.4	Surface	1.0	0.1	10	24.5	24.5	8.0	8.0	23.1	23.1	95.9	95.9	7.0	6.9	8.6	6.8	6	8	84	87	819739	804610	<0.2	<0.2	2.0	1.9
						1.0	0.1	11	24.5		8.0		23.1		95.9		7.0		8.6		7		85				<0.2		1.8	
					Middle	3.7	0.2	88	24.3	24.3	8.0	8.0	24.6	24.6	93.7	93.7	6.8		7.0		5		88				<0.2		2.0	
						3.7	0.2	93	24.3		8.0		24.6		93.7		6.8		7.0		5		87				<0.2		1.9	
					Bottom	6.4	0.1	83	23.8	23.8	8.0	8.0	28.8	28.9	93.4	93.5	6.7	6.7	4.9		13		90				<0.2		1.8	
						6.4	0.1	87	23.8		8.0		28.9		93.6		6.7		4.9		14		90				<0.2		2.0	
IM5	Cloudy	Moderate	07:09	7.5	Surface	1.0	0.3	20	24.6	24.6	8.0	8.0	19.6	19.6	95.0	95.2	7.1	7.1	8.2	5.7	9	7	83	88	820720	804871	<0.2	<0.2	2.1	2.0
						1.0	0.4	20	24.6		8.0		19.7		95.3		7.1		8.2		9		85				<0.2		2.0	
					Middle	3.8	0.1	11	24.4	24.4	8.0	8.0	21.8	21.8	95.6	95.8	7.1		6.2		7		88				<0.2		1.9	
						3.8	0.1	11	24.3		8.0		21.8		95.9		7.1		6.2		6		88				<0.2		2.0	
					Bottom	6.5	0.2	23	24.0	24.0	8.0	8.0	28.6	28.6	91.3	91.4	6.5	6.5	2.7		6		90				<0.2		1.9	
						6.5	0.2	23	24.0		8.0		28.6		91.5		6.5		2.7		6		92				<0.2		2.1	
IM6	Cloudy	Moderate	07:16	7.8	Surface	1.0	0.4	12	24.6	24.6	8.0	8.0	21.1	21.1	92.4	92.4	6.8	6.8	2.1	2.4	4	5	83	88	821058	805819	<0.2	<0.2	2.1	2.3
						1.0	0.4	11	24.6		8.0		21.1		92.3		6.8		2.0		4		85				<0.2		2.1	
					Middle	3.9	0.1	17	24.5	24.5	8.0	8.0	22.8	22.8	92.5	92.6	6.8		2.4		4		90				<0.2		2.2	
						3.9	0.1	20	24.5		8.0		22.8		92.6		6.8		2.5		5		89				<0.2		2.0	
					Bottom	6.8	0.1	0	24.2	24.2	7.9	7.9	27.6	27.6	93.8	94.0	6.7	6.8	2.8		5		89				<0.2		2.7	
						6.8	0.1	0	24.2		7.9		27.6		94.2		6.8		2.8		5		90				<0.2		2.4	
IM7	Cloudy	Moderate	07:21	8.0	Surface	1.0	0.3	10	24.5	24.5	7.9	7.9	22.7	22.7	92.7	93.0	6.8	6.7	5.1	4.7	6	6	84	88	821366	806827	<0.2	<0.2	2.7	2.7
						1.0	0.3	10	24.4		7.9		22.7		93.3		6.8		5.1		5		84				<0.2		2.5	
					Middle	4.0	0.3	12	24.2	24.2	7.9	7.9	25.2	25.2	90.2	90.4	6.6		4.6		6		89				<0.2		2.6	
						4.0	0.3	12	24.2		7.9		25.2		90.5		6.6		4.8		6		88				<0.2		2.7	
					Bottom	7.0	0.0	4	24.1	24.1	7.9	7.9	25.7	25.7	92.9	93.0	6.7	6.8	4.2		6		90				<0.2		2.7	
						7.0	0.0	4	24.1		7.9		25.7		93.1		6.8		4.6		6		92				<0.2		2.7	
IM8	Cloudy	Moderate	07:11	8.1	Surface	1.0	0.2	338	25.2	25.2	7.9	7.9	19.1	19.1	89.7	89.7	6.6	6.6	9.5	6.2	8	7	83	88	821849	808118	<0.2	<0.2	2.4	2.4
						1.0	0.2	328	25.2		7.9		19.1		89.7		6.6		9.4		8		84				<0.2		2.4	
					Middle	4.1	0.1	355	25.2	25.2	7.9	7.9	19.0	19.0	89.9	89.9	6.6		4.6		5		88				<0.2		2.4	
						4.1	0.1	345	25.2		7.9		19.0		89.9		6.6		4.6		6		88				<0.2		2.4	
					Bottom	7.1	0.2	346	25.2	25.2	7.9	7.9	19.0	19.0	89.8	89.8	6.6	6.6	4.5		7		92				<0.2		2.4	
						7.1	0.2	327	25.2		7.9		19.0		89.8		6.6		4.5		6		92				<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 27 April 19 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	07:05	8.0	Surface	1.0	0.1	311	25.3	25.3	8.0	8.0	18.3	18.3	93.0	93.0	6.9	6.8	4.7	5.2	7	6	83	88	822106	808790	<0.2	<0.2	2.4	2.4
						1.0	0.1	316	25.3		8.0		18.3		93.0		6.9		4.7		6		84				<0.2		2.4	
					Middle	4.0	0.3	323	25.3	25.3	8.0	8.0	18.9	18.9	91.0	91.0	6.7		4.2		5		88				<0.2		2.4	
						4.0	0.3	325	25.3		8.0		18.9		91.0		6.7		4.3		6		88				<0.2		2.4	
					Bottom	7.0	0.2	353	25.2	25.2	8.0	8.0	19.4	19.4	91.0	91.1	6.7	6.7	6.5		6		92				<0.2		2.5	
						7.0	0.2	356	25.2		8.0		19.4		91.1		6.7		6.5		5		92				<0.2		2.5	
IM10	Cloudy	Moderate	06:58	8.4	Surface	1.0	0.0	291	25.4	25.4	8.0	8.0	18.0	18.0	93.7	93.7	6.9	7.0	21.4	13.1	5	5	84	89	822403	809806	<0.2	<0.2	2.4	2.4
						1.0	0.0	298	25.4		8.0		18.0		93.7		6.9		21.3		4		84				<0.2		2.3	
					Middle	4.2	0.2	301	25.4	25.4	8.0	8.0	17.8	17.8	94.5	94.5	7.0		4.4		6		89				<0.2		2.4	
						4.2	0.2	305	25.4		8.0		17.8		94.4		7.0		4.4		5		89				<0.2		2.5	
					Bottom	7.4	0.1	347	25.3	25.3	8.0	8.0	18.6	18.6	93.2	93.3	6.9	6.9	13.5		4		93				<0.2		2.4	
						7.4	0.1	358	25.3		8.0		18.6		93.3		6.9		13.5		5		93				<0.2		2.3	
IM11	Cloudy	Moderate	06:48	8.7	Surface	1.0	0.1	268	25.6	25.6	8.0	8.0	16.9	16.9	100.2	100.2	7.4	7.4	2.3	6.9	2	2	83	88	822033	811477	<0.2	<0.2	2.5	2.5
						1.0	0.1	272	25.6		8.0		16.9		100.2		7.4		2.3		3		84				<0.2		2.5	
					Middle	4.4	0.1	246	25.6	25.6	8.0	8.0	17.1	17.1	98.3	98.2	7.3		2.5		2		88				<0.2		2.4	
						4.4	0.1	255	25.5		8.0		17.1		98.1		7.3		2.6		<2		88				<0.2		2.5	
					Bottom	7.7	0.1	287	25.5	25.5	8.0	8.0	17.9	17.9	97.5	97.5	7.2	7.2	15.9		<2		92				<0.2		2.6	
						7.7	0.1	292	25.5		8.0		17.9		97.5		7.2		16.0		<2		93				<0.2		2.5	
IM12	Cloudy	Moderate	06:41	8.6	Surface	1.0	0.0	256	25.6	25.6	8.0	8.0	16.3	16.3	98.5	98.5	7.3	7.3	2.6	3.2	5	3	83	87	821437	812065	<0.2	<0.2	2.4	2.5
						1.0	0.0	267	25.6		8.0		16.3		98.5		7.3		2.6		4		83				<0.2		2.5	
					Middle	4.3	0.2	270	25.6	25.6	8.0	8.0	16.6	16.6	97.9	97.8	7.3		2.6		3		88				<0.2		2.5	
						4.3	0.2	255	25.6		8.0		16.6		97.7		7.3		2.6		2		89				<0.2		2.4	
					Bottom	7.6	0.1	275	25.3	25.3	8.0	8.0	20.3	20.3	94.4	94.5	6.9	6.9	4.5		3		91				<0.2		2.5	
						7.6	0.1	278	25.3		8.0		20.3		94.5		6.9		4.5		2		88				<0.2		2.4	
SR1A	Cloudy	Moderate	06:14	5.3	Surface	1.0	-	-	25.7	25.7	8.0	8.0	16.9	16.9	98.8	98.8	7.3	7.3	2.4	2.3	<2	3	-	-	819971	812658	-	-	-	-
						1.0	-	-	25.7		8.0		16.9		98.8		7.3		2.4		3		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	-	-	25.6	25.6	8.0	8.0	16.9	16.9	99.1	99.1	7.4	7.4	2.3		3		-				-		-	
						4.3	-	-	25.6		8.0		16.9		99.1		7.4		2.2		4		-				-		-	
SR2	Cloudy	Moderate	06:00	5.8	Surface	1.0	0.0	231	25.6	25.6	8.0	8.0	17.4	17.4	99.0	99.0	7.3	7.3	2.0	4.7	2	4	83	88	821445	814146	<0.2	<0.2	2.4	2.4
						1.0	0.0	232	25.6		8.0		17.4		99.0		7.3		2.0		4		84				<0.2		2.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	0.1	229	25.6	25.6	8.0	8.0	17.1	17.1	98.7	98.7	7.3	7.3	7.5		4		92				<0.2		2.4	
						4.8	0.2	241	25.6		8.0		17.1		98.7		7.3		7.5		5		92				<0.2		2.4	
SR3	Cloudy	Moderate	07:17	8.2	Surface	1.0	0.3	24	25.2	25.2	7.9	7.9	18.6	18.6	91.4	91.4	6.8	6.8	5.0	6.3	9	8	-	-	822136	807549	-	-	-	-
						1.0	0.3	23	25.2		7.9		18.6		91.4		6.8		5.0		10		-				-		-	
					Middle	4.1	0.3	22	25.2	25.2	7.9	7.9	18.5	18.5	91.9	91.9	6.8		5.4		8		-				-		-	
						4.1	0.3	23	25.2		7.9		18.5		91.8		6.8		5.3		9		-				-		-	
					Bottom	7.2	0.2	27	25.1	25.1	8.0	8.0	20.1	20.1	90.4	90.5	6.7	6.7	8.6		6		-				-		-	
						7.2	0.2	25	25.1		8.0		20.1		90.5		6.7		8.5		5		-				-		-	
SR4A	Cloudy	Moderate	06:22	8.6	Surface	1.0	0.1	215	24.8	24.8	8.0	8.0	21.8	21.8	97.4	97.3	7.1	7.1	2.5	3.0	5	7	-	-	817192	807832	-	-	-	-
						1.0	0.1	224	24.8		8.0		21.8		97.2		7.1		2.6		6		-				-		-	
					Middle	4.3	0.1	281	24.7	24.7	8.0	8.0	21.9	21.9	96.7	96.7	7.1		2.7		4		-				-		-	
						4.3	0.2	286	24.7		8.0		21.9		96.7		7.1		2.7		6		-				-		-	
					Bottom	7.6	0.2	224	24.6	24.6	8.0	8.0	24.1	24.1	97.7	97.9	7.1	7.1	3.7		10		-				-		-	
						7.6	0.2	231	24.6		8.0		24.1		98.0		7.1		3.8		9		-				-		-	
SR5A	Cloudy	Moderate	06:04	4.6	Surface	1.0	0.1	317	25.6	25.6	8.1	8.1	17.1	17.1	109.2	109.2	8.1	8.1	2.0	2.2	5	6	-	-	816596	810672	-	-	-	-
						1.0	0.1	320	25.6		8.1		17.1		109.1		8.1		2.0		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	224	25.4	25.4	8.0	8.0	19.8	19.8	103.2	103.2	7.6	7.6	2.4		7		-				-		-	
						3.6	0.1	224	25.4		8.0		19.8		103.2		7.6		2.4		6		-				-		-	
SR6	Cloudy	Moderate	05:36	4.3	Surface	1.0	0.1	252	25.0	25.0	7.8	7.8	17.8	17.8	92.0	91.7	6.9	6.9	3.1	3.3	6	8	-	-	817916	814675	-	-	-	-
						1.0	0.1	256	25.0		7.8		17.8		91.4		6.8		3.2		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	289	24.9	24.9	7.8	7.8	21.2	21.2	85.0	85.1	6.2	6.3	3.4		9		-				-		-	
						3.3	0.1	303	24.9		7.8		21.2		85.2		6.3		3.4		10		-				-		-	
SR7	Cloudy	Moderate	05:03	20.7	Surface	1.0	0.1	275	24.8	24.8	7.9	7.9	26.4	26.4	97.2	97.2	6.9	6.9	1.7	1.9	3	3	-	-	823621	823757	-	-	-	-
						1.0	0.1	291	24.8		7.9		26.4		97.2		6.9		1.8		2		-				-		-	
					Middle	10.4	0.1	241	24.8	24.8	7.9	7.9	26.5	26.5	96.3	96.3	6.9		1.7		3		-				-		-	
						10.4	0.1	251	24.8		7.9		26.5		96.2		6.9		1.7		3		-				-		-	
					Bottom	19.7	0.1	228	24.6	24.6	7.8	7.8	27.9	27.9	93.2	93.2	6.6	6.6	2.2		3		-				-		-	
						19.7	0.1	224	24.6		7.8		27.9		93.2		6.6		2.2		4		-				-		-	
SR8	Cloudy	Moderate	06:29	4.9	Surface	1.0	-	-	25.6	25.6	8.0	8.0	17.0	17.0	98.8	98.8	7.3	7.3	2.1	4.7	3	3	-	-	820406	811613	-	-	-	-
						1.0	-	-	25.6		8.0		17.0		98.8		7.3		2.1		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	-	-	25.7	25.7	8.0	8.0	16.8	16.8	98.8	98.8	7.3	7.3	7.2		3		-				-		-	
						3.9	-	-	25.7		8.0		16.8		98.8		7.3		7.2		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 30 April 19 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	Rainy	Rough	10:24	8.7	Surface	1.0	0.2	183	26.0	26.0	8.2	8.2	14.8	14.8	103.7	103.6	7.7	7.2	11.2	10.1	6	10	83	87	815609	804239	<0.2	<0.2	1.7	1.9
						1.0	0.2	189	26.0		8.2		14.8		103.5		7.7		11.1		7		83				<0.2		1.9	
					Middle	4.4	0.1	213	25.3	25.3	8.1	8.1	23.0	23.0	93.2	93.1	6.7		8.4		8		87				<0.2		2.0	
						4.4	0.1	229	25.3		8.1		23.0		93.0		6.7		8.5		9		87				<0.2		2.0	
					Bottom	7.7	0.2	168	25.1	25.1	8.1	8.1	27.8	27.8	92.7	92.8	6.5	6.5	10.6		16		92				<0.2		2.0	
						7.7	0.2	179	25.1		8.1		27.8		92.8		6.5		10.7		14		92				<0.2		2.0	
C2	Rainy	Rough	12:37	11.5	Surface	1.0	0.3	270	25.7	25.7	7.9	7.9	14.7	14.7	92.8	92.8	7.0	6.5	10.7	14.8	6	6	85	87	825678	806921	<0.2	<0.2	2.9	3.3
						1.0	0.3	272	25.7		7.9		14.7		92.8		7.0		10.7		7		85				<0.2		3.0	
					Middle	5.8	0.2	255	25.1	25.1	7.9	7.9	21.0	21.0	81.0	81.0	5.9		14.7		6		86				<0.2		3.3	
						5.8	0.2	279	25.1		7.9		21.0		81.0		5.9		14.7		6		86				<0.2		3.2	
					Bottom	10.5	0.1	157	24.9	24.9	7.8	7.8	26.2	26.2	82.7	82.7	5.9	5.9	19.0		6		89				<0.2		3.8	
						10.5	0.1	165	24.9		7.8		26.2		82.7		5.9		19.0		6		89				<0.2		3.8	
C3	Cloudy	Moderate	10:12	12.3	Surface	1.0	0.4	93	25.8	25.8	8.0	8.0	14.2	14.2	101.7	101.7	7.7	7.2	9.2	8.4	6	5	84	88	822127	817821	<0.2	<0.2	2.1	2.1
						1.0	0.4	101	25.8		8.0		14.2		101.7		7.7		9.2		5		85				<0.2		2.0	
					Middle	6.2	0.2	338	25.1	25.1	7.9	7.9	23.0	23.0	91.5	91.5	6.6		8.0		4		88				<0.2		2.1	
						6.2	0.2	354	25.1		7.9		23.0		91.5		6.6		8.0		5		89				<0.2		1.9	
					Bottom	11.3	0.1	112	24.8	24.8	7.9	7.9	28.2	28.2	90.5	90.5	6.4	6.4	8.0		5		90				<0.2		2.0	
						11.3	0.1	116	24.8		7.9		28.2		90.5		6.4		8.0		4		89				<0.2		2.2	
IM1	Rainy	Rough	10:36	5.2	Surface	1.0	0.1	179	25.5	25.5	8.2	8.2	16.2	16.2	98.3	98.1	7.3	7.3	6.1	8.1	7	7	83	86	817937	807111	<0.2	<0.2	2.3	2.2
						1.0	0.1	185	25.5		8.2		16.2		97.9		7.3		6.1		7		84				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	163	25.2	25.2	8.1	8.1	26.0	26.0	92.4	92.5	6.6	6.6	10.1		7		88				<0.2		2.1	
						4.2	0.3	178	25.2		8.1		26.0		92.5		6.6		10.1		6		89				<0.2		2.1	
IM2	Rainy	Rough	10:43	7.8	Surface	1.0	0.2	197	25.6	25.6	8.2	8.2	14.5	14.5	100.0	100.0	7.5	7.4	6.0	6.9	6	7	83	88	818160	806146	<0.2	<0.2	2.4	2.3
						1.0	0.2	198	25.6		8.2		14.5		99.9		7.5		6.0		6		88				<0.2		2.4	
					Middle	3.9	0.2	143	25.5	25.5	8.1	8.1	16.3	16.3	98.1	98.2	7.3		6.6		7		88				<0.2		2.4	
						3.9	0.2	155	25.5		8.1		16.3		98.2		7.3		6.6		7		88				<0.2		2.3	
					Bottom	6.8	0.2	152	25.1	25.1	8.1	8.1	24.8	24.8	92.1	92.2	6.6	6.6	8.2		8		91				<0.2		2.3	
						6.8	0.2	154	25.1		8.1		24.8		92.2		6.6		8.1		9		92				<0.2		2.1	
IM3	Rainy	Rough	10:52	8.1	Surface	1.0	0.4	221	25.4	25.4	8.1	8.1	13.5	13.5	97.3	97.3	7.4	7.4	7.1	6.0	6	7	83	88	818794	805594	<0.2	<0.2	2.1	2.0
						1.0	0.4	228	25.4		8.1		13.5		97.3		7.4		7.1		6		84				<0.2		2.0	
					Middle	4.1	0.3	226	25.3	25.3	8.1	8.1	14.0	14.0	96.8	96.8	7.4		7.6		7		88				<0.2		2.0	
						4.1	0.3	234	25.2		8.1		14.0		96.8		7.4		7.6		7		88				<0.2		1.9	
					Bottom	7.1	0.3	199	24.5	24.5	8.0	8.0	20.7	20.7	98.7	98.8	7.3	7.3	3.4		8		91				<0.2		2.0	
						7.1	0.3	203	24.5		8.0		20.8		98.9		7.3		3.5		8		91				<0.2		1.9	
IM4	Rainy	Rough	11:06	8.2	Surface	1.0	0.5	225	25.5	25.5	8.1	8.1	11.5	11.5	97.4	97.4	7.5	7.4	7.5	9.1	6	8	83	87	819714	804621	<0.2	<0.2	2.1	2.1
						1.0	0.6	227	25.5		8.1		11.5		97.3		7.5		7.5		7		83				<0.2		2.1	
					Middle	4.1	0.6	235	25.3	25.3	8.1	8.1	14.0	14.0	94.7	94.5	7.2		8.8		8		88				<0.2		2.1	
						4.1	0.6	244	25.3		8.1		14.0		94.3		7.2		8.9		8		88				<0.2		1.9	
					Bottom	7.2	0.4	234	25.2	25.2	8.1	8.1	18.7	18.7	93.5	93.5	6.9	6.9	10.9		10		91				<0.2		2.2	
						7.2	0.4	242	25.2		8.1		18.7		93.5		6.9		10.9		9		91				<0.2		2.2	
IM5	Rainy	Rough	11:21	7.9	Surface	1.0	0.4	266	25.5	25.5	8.1	8.1	9.8	9.8	97.3	97.3	7.5	7.5	6.8	6.1	5	6	83	87	820726	804879	<0.2	<0.2	2.3	2.2
						1.0	0.5	286	25.5		8.1		9.8		97.3		7.5		6.8		6		84				<0.2		2.2	
					Middle	4.0	0.2	243	25.4	25.4	8.1	8.1	10.7	10.7	97.2	97.2	7.5		6.3		7		87				<0.2		2.1	
						4.0	0.2	254	25.4		8.1		10.7		97.2		7.5		6.3		7		87				<0.2		2.1	
					Bottom	6.9	0.1	200	25.4	25.4	8.1	8.1	10.7	10.7	98.4	98.5	7.6	7.6	5.6		6		91				<0.2		2.1	
						6.9	0.1	204	25.4		8.1		10.7		98.5		7.6		5.0		5		91				<0.2		2.1	
IM6	Rainy	Rough	11:36	8.3	Surface	1.0	0.4	271	25.8	25.8	8.2	8.2	14.3	14.3	104.4	104.3	7.8	7.8	5.7	6.0	5	6	83	87	821071	805846	<0.2	<0.2	2.5	2.6
						1.0	0.4	281	25.8		8.2		14.3		104.2		7.8		5.7		5		84				<0.2		2.6	
					Middle	4.2	0.1	264	25.7	25.7	8.2	8.2	14.4	14.4	102.6	102.5	7.7		6.2		6		87				<0.2		2.9	
						4.2	0.1	269	25.7		8.2		14.5		102.4		7.7		6.2		7		88				<0.2		2.8	
					Bottom	7.3	0.1	211	25.6	25.6	8.2	8.2	17.1	17.1	102.3	102.3	7.6	7.6	6.1		8		91				<0.2		2.6	
						7.3	0.1	214	25.6		8.2		17.1		102.3		7.6		6.1		7		91				<0.2		2.4	
IM7	Rainy	Rough	11:53	8.0	Surface	1.0	0.5	265	25.9	25.9	8.2	8.2	14.4	14.4	105.2	105.2	7.9	7.9	5.7	5.7	6	7	84	88	821355	806824	<0.2	<0.2	2.7	2.7
						1.0	0.5	287	25.9		8.2		14.4		105.1		7.9		5.8		6		85				<0.2		2.8	
					Middle	4.0	0.2	200	25.7	25.7	8.2	8.2	14.6	14.6	104.3	104.3	7.8		4.9		8		87				<0.2		3.0	
						4.0	0.2	211	25.7		8.2		14.6		104.3		7.8		4.9		8		88				<0.2		2.9	
					Bottom	7.0	0.1	246	25.7	25.7	8.2	8.2	14.6	14.6	103.5	103.5	7.8	7.8	6.5		7		91				<0.2		2.4	
						7.0	0.1	249	25.7		8.2		14.6		103.5		7.8		6.6		7		92				<0.2		2.4	
IM8	Rainy	Rough	12:05	7.6	Surface	1.0	0.6	99	25.6	25.6	7.9	7.9	14.7	14.7	94.9	94.9	7.1	7.0	9.7	9.5	5	4	84	88	821815	808146	<0.2	<0.2	2.1	2.1
						1.0	0.6	104	25.6		7.9		14.7		94.9		7.1		9.7		6		86				<0.2		2.2	
					Middle	3.8	0.5	100	25.4	25.4	7.9	7.9	16.8	16.8	93.0	93.0	6.9		9.3		4		89				<0.2		2.2	
						3.8	0.5	106	25.4		7.9		16.8		93.0		6.9		9.3		4		88				<0.2		2.1	
					Bottom	6.6	0.5	79	25.4	25.4	7.9	7.9	21.6	21.6	94.9	94.9	6.9	6.9	9.5		3		89				<0.2		2.1	
						6.6	0.5	81	25.4		7.9		21.6		94.9		6.9		9.5		4		89				<0.2		2.1	

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 30 April 19 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	Rainy	Rough	11:57	7.2	Surface	1.0	0.7	86	25.6	25.6	8.0	8.0	14.5	14.5	91.5	91.5	6.9	6.6	9.8	9.5	5	6	84	86	822093	808828	<0.2	<0.2	2.0	2.1
						1.0	0.7	88	25.6		8.0		14.5		91.5		6.9		9.8		6		85				<0.2		2.0	
					Middle	3.6	0.7	95	25.4	25.4	8.1	8.1	19.5	19.5	84.4	84.4	6.2		9.3		7		85				<0.2		2.2	
						3.6	0.7	100	25.4		8.1		19.5		84.4		6.2		9.3		6		85				<0.2		2.2	
					Bottom	6.2	0.4	80	25.0	25.0	8.1	8.1	24.3	24.3	84.3	84.3	6.1	6.1	9.5		6		88				<0.2		2.2	
						6.2	0.4	84	25.0		8.1		24.3		84.3		6.1		9.5		6		89				<0.2		2.2	
IM10	Rainy	Rough	11:42	7.9	Surface	1.0	0.7	100	25.6	25.6	7.9	7.9	14.0	14.0	92.0	92.0	7.0	6.6	10.0	9.6	6	6	85	88	822399	809808	<0.2	<0.2	2.0	2.1
						1.0	0.8	108	25.6		7.9		14.0		92.0		7.0		10.0		6		85				<0.2		2.2	
					Middle	4.0	0.5	96	25.2	25.2	7.9	7.9	22.3	22.3	85.5	85.5	6.2		9.3		6		88				<0.2		2.2	
						4.0	0.5	96	25.2		7.9		22.3		85.5		6.2		9.3		5		89				<0.2		2.2	
					Bottom	6.9	0.3	90	25.0	25.0	7.9	7.9	27.1	27.2	87.9	88.1	6.2	6.3	9.5		6		89				<0.2		2.1	
						6.9	0.3	92	25.0		7.9		27.2		88.3		6.3		9.5		6		90				<0.2		2.0	
IM11	Rainy	Rough	11:26	7.6	Surface	1.0	0.7	103	25.6	25.6	7.9	7.9	14.6	14.6	93.0	93.0	7.0	6.7	10.3	10.5	7	7	85	87	822061	811465	<0.2	<0.2	2.0	2.2
						1.0	0.7	104	25.6		7.9		14.6		93.0		7.0		10.3		6		85				<0.2		2.2	
					Middle	3.8	0.7	104	25.4	25.4	7.9	7.9	20.3	20.3	88.1	88.1	6.4		10.3		7		85				<0.2		2.1	
						3.8	0.7	104	25.4		7.9		20.3		88.1		6.4		10.3		6		85				<0.2		2.3	
					Bottom	6.6	0.2	116	24.9	24.9	7.8	7.8	25.3	25.3	84.4	84.4	6.1	6.1	10.8		6		89				<0.2		2.2	
						6.6	0.2	126	24.9		7.8		25.3		84.4		6.1		10.8		7		90				<0.2		2.2	
IM12	Rainy	Moderate	11:18	8.3	Surface	1.0	0.5	87	25.7	25.7	7.9	7.9	13.9	13.9	89.1	89.1	6.7	6.4	11.0	10.8	8	8	84	87	821455	812024	<0.2	<0.2	2.3	2.2
						1.0	0.5	88	25.7		7.9		13.9		89.1		6.7		11.0		8		85				<0.2		2.2	
					Middle	4.2	0.6	113	25.2	25.2	7.8	7.8	20.4	20.4	82.5	82.5	6.1		10.7		7		85				<0.2		2.2	
						4.2	0.6	120	25.2		7.8		20.4		82.5		6.1		10.7		8		89				<0.2		2.2	
					Bottom	7.3	0.1	143	25.0	25.0	7.8	7.8	24.7	24.7	82.5	82.5	5.9	5.9	10.7		8		89				<0.2		2.1	
						7.3	0.1	149	25.0		7.8		24.7		82.5		5.9		10.7		8		90				<0.2		2.0	
SR1A	Cloudy	Moderate	10:58	4.7	Surface	1.0	-	-	25.7	25.7	8.0	8.0	15.4	15.4	101.1	101.1	7.6	7.6	10.4	10.3	6	6	-	-	819971	812664	-	-	-	-
						1.0	-	-	25.7		8.0		15.4		101.1		7.6		10.4		6		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	25.7	25.7	8.0	8.0	17.9	17.9	100.0	100.0	7.4	7.4	10.1		6		-				-		-	
						3.7	-	-	25.7		8.0		17.9		100.0		7.4		10.1		7		-				-		-	
SR2	Cloudy	Moderate	10:43	5.0	Surface	1.0	0.3	105	25.8	25.8	7.9	7.9	13.0	13.0	97.7	97.7	7.4	7.4	10.7	10.9	6	7	85	87	821457	814184	<0.2	<0.2	2.2	2.3
						1.0	0.4	109	25.8		7.9		13.0		97.7		7.4		10.7		7		85				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	141	25.6	25.6	8.0	8.0	16.8	16.8	95.4	95.4	7.1	7.1	11.1		6		88				<0.2		2.4	
						4.0	0.1	144	25.6		8.0		16.8		95.4		7.1		11.1		7		88				<0.2		2.4	
SR3	Rainy	Rough	12:12	8.2	Surface	1.0	0.6	197	25.6	25.6	7.9	7.9	14.7	14.7	94.0	94.0	7.1	6.7	9.9	10.9	4	5	-	-	822145	807585	-	-	-	-
						1.0	0.6	202	25.6		7.9		14.7		94.0		7.1		9.9		4		-				-		-	
					Middle	4.1	0.4	178	25.3	25.3	7.9	7.9	17.3	17.3	85.1	85.1	6.3		10.3		5		-				-		-	
						4.1	0.5	177	25.3		7.9		17.3		85.1		6.3		10.3		6		-				-		-	
					Bottom	7.2	0.3	189	25.1	25.1	7.8	7.8	25.1	25.1	87.2	87.2	6.2	6.2	12.5		5		-				-		-	
						7.2	0.4	192	25.1		7.8		25.1		87.2		6.2		12.5		6		-				-		-	
SR4A	Rainy	Rough	10:03	9.6	Surface	1.0	0.1	80	25.9	25.9	8.1	8.1	12.9	12.9	102.2	102.2	7.7	7.3	4.7	10.3	4	8	-	-	817181	807793	-	-	-	-
						1.0	0.1	82	25.9		8.1		12.9		102.1		7.7		4.8		4		-				-		-	
					Middle	4.8	0.2	65	25.2	25.2	8.1	8.1	23.0	23.0	94.7	94.7	6.8		12.9		7		-				-		-	
						4.8	0.3	68	25.2		8.1		23.0		94.7		6.8		12.9		7		-				-		-	
					Bottom	8.6	0.3	64	25.0	25.0	8.1	8.1	26.8	26.8	92.4	92.4	6.6	6.6	13.3		14		-				-		-	
						8.6	0.3	66	25.0		8.1		26.8		92.4		6.6		13.2		14		-				-		-	
SR5A	Misty	Rough	09:40	4.1	Surface	1.0	0.0	112	26.1	26.1	8.3	8.3	14.7	14.7	113.5	113.5	8.5	8.5	5.2	7.9	5	9	-	-	816573	810702	-	-	-	-
						1.0	0.0	117	26.1		8.3		14.7		113.4		8.5		5.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	120	26.1	26.1	8.3	8.3	17.6	17.6	112.8	112.7	8.3	8.3	10.7		13		-				-		-	
						3.1	0.1	127	26.1		8.3		17.6		112.6		8.3		10.7		14		-				-		-	
SR6	Misty	Rough	09:23	4.3	Surface	1.0	0.1	26	25.7	25.7	8.2	8.2	17.8	17.8	105.2	105.2	7.8	7.8	3.1	5.4	6	8	-	-	817885	814654	-	-	-	-
						1.0	0.1	28	25.7		8.2		17.8		105.1		7.8		3.0		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.0	5	25.7	25.7	8.2	8.2	19.2	19.2	101.1	101.1	7.4	7.4	7.8		10		-				-		-	
						3.3	0.0	5	25.7		8.2		19.2		101.1		7.4		7.8		9		-				-		-	
SR7	Rainy	Moderate	09:27	16.9	Surface	1.0	0.2	90	25.0	25.0	8.0	8.0	25.7	25.7	86.4	86.4	6.2	5.9	8.0	8.5	2	4	-	-	823638	823764	-	-	-	-
						1.0	0.2	94	25.0		8.0		25.7		86.4		6.2		8.0		2		-				-		-	
					Middle	8.5	0.2	84	24.7	24.7	7.9	7.9	29.2	29.2	77.9	77.9	5.5		8.5		4		-				-		-	
						8.5	0.2	88	24.7		7.9		29.2		77.9		5.5		8.5		3		-				-		-	
					Bottom	15.9	0.0	120	24.4	24.4	8.0	8.0	31.6	31.6	81.2	81.3	5.7	5.7	9.0		5		-				-		-	
						15.9	0.0	121	24.4		8.0		31.6		81.3		5.7		9.0		6		-				-		-	
SR8	Cloudy	Moderate	11:09	5.0	Surface	1.0	-	-	25.9	25.9	8.0	8.0	15.6	15.6	92.4	92.4	6.9	6.9	12.7	12.8	12	13	-	-	820377	811601	-	-	-	-
						1.0	-	-	25.9		8.0		15.6		92.4		6.9		12.7		13		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	-	-	25.5	25.5	7.9	7.9	19.1	19.1	93.6	93.6	6.9	6.9	12.8		12		-				-		-	
						4.0	-	-	25.5		7.9		19.1		93.6		6.9		12.8		13		-				-		-	

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**

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Water Quality Monitoring

Water Quality Monitoring Results on 30 April 19 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	Rough	15:34	7.9	Surface	1.0	0.1	157	24.0	24.0	8.1	8.1	31.3	31.3	93.0	93.0	6.7	6.7	11.8	9.7	7	7	83	87	815612	804235	<0.2	<0.2	1.8	1.7
						1.0	0.1	170	24.0		8.1		31.3		93.0		6.7		11.8		7		84				<0.2		1.6	
					Middle	4.0	0.2	144	24.0	24.0	8.1	8.1	31.3	31.4	93.1	93.2	6.7		7.2		7		87				<0.2		1.6	
						4.0	0.2	148	24.0		8.1		31.4		93.2		6.7		7.2		7		87				<0.2		1.7	
					Bottom	6.9	0.1	80	24.0	24.0	8.1	8.1	31.4	31.4	93.3	93.3	6.7	6.7	10.2		7		91				<0.2		1.7	
						6.9	0.1	87	24.0		8.1		31.4		93.3		6.7		10.2		6		92				<0.2		1.6	
C2	Cloudy	Rough	14:31	11.6	Surface	1.0	0.3	68	25.0	25.0	7.9	7.9	14.7	14.7	97.7	97.8	7.4	7.3	8.6	7.8	4	6	85	89	825665	806952	<0.2	<0.2	1.8	2.0
						1.0	0.3	69	24.9		7.9		14.7		97.8		7.4		8.6		5		85				<0.2		1.9	
					Middle	5.8	0.2	92	25.2	25.3	7.9	7.9	22.2	22.2	97.7	97.7	7.1		7.9		6		90				<0.2		2.1	
						5.8	0.2	97	25.3		7.9		22.2		97.6		7.1		7.9		6		89				<0.2		2.2	
					Bottom	10.6	0.0	70	25.5	25.5	7.9	7.9	28.8	28.8	97.6	97.6	6.8	6.8	7.0		6		93				<0.2		2.2	
						10.6	0.0	72	25.5		7.9		28.8		97.6		6.8		7.0		7		94				<0.2		2.0	
C3	Cloudy	Moderate	16:41	12.2	Surface	1.0	0.0	298	24.7	24.7	7.8	7.8	16.4	16.4	97.3	97.4	7.4	7.3	12.2	12.2	6	6	84	87	822103	817800	<0.2	<0.2	2.0	2.1
						1.0	0.0	298	24.6		7.8		16.4		97.5		7.4		12.5		6		84				<0.2		2.0	
					Middle	6.1	0.4	264	24.4	24.5	7.9	7.9	20.6	20.6	95.6	95.7	7.1		14.2		6		88				<0.2		2.2	
						6.1	0.4	285	24.5		7.9		20.6		95.7		7.1		14.2		7		89				<0.2		2.2	
					Bottom	11.2	0.1	285	25.0	25.0	7.8	7.8	24.1	23.9	97.1	97.1	7.0	7.0	9.9		5		90				<0.2		2.0	
						11.2	0.1	306	25.0		7.8		23.7		97.1		7.0		9.9		6		89				<0.2		2.2	
IM1	Cloudy	Rough	15:16	3.6	Surface	1.0	0.1	43	24.0	24.0	8.1	8.1	31.3	31.3	93.7	93.8	6.7	6.7	8.5	8.6	8	7	84	88	817945	807132	<0.2	<0.2	2.0	2.1
						1.0	0.1	44	24.0		8.1		31.3		93.8		6.7		8.5		9		85				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	61	24.0	24.0	8.1	8.1	31.3	31.3	95.1	95.1	6.9	6.9	8.7		6		91				<0.2		2.1	
						2.6	0.1	65	24.0		8.1		31.3		95.1		6.9		8.8		6		91				<0.2		2.1	
IM2	Cloudy	Rough	15:09	8.1	Surface	1.0	0.3	40	24.0	24.0	8.1	8.1	31.2	31.2	95.3	95.3	6.9	6.9	9.4	10.0	6	7	84	89	818139	806182	<0.2	<0.2	2.1	2.0
						1.0	0.3	41	24.0		8.1		31.2		95.3		6.9		9.3		7		88				<0.2		2.0	
					Middle	4.1	0.0	43	24.0	24.0	8.1	8.1	31.2	31.2	95.5	95.6	6.9		11.3		7		88				<0.2		2.0	
						4.1	0.0	45	24.0		8.1		31.2		95.6		6.9		11.3		7		89				<0.2		2.1	
					Bottom	7.1	0.1	92	24.0	24.0	8.0	8.0	31.2	31.2	94.6	94.6	6.9	6.9	9.2		6		91				<0.2		1.9	
						7.1	0.1	98	24.0		8.0		31.2		94.5		6.9		9.2		6		92				<0.2		2.0	
IM3	Cloudy	Rough	15:03	7.5	Surface	1.0	0.2	49	24.0	24.0	8.0	8.0	31.0	31.0	94.2	94.2	6.8	6.9	15.3	13.3	6	7	83	87	818781	805601	<0.2	<0.2	2.0	2.2
						1.0	0.2	44	24.0		8.0		31.0		94.2		6.8		15.3		7		83				<0.2		2.1	
					Middle	3.8	0.2	52	24.0	24.0	8.0	8.0	31.0	31.0	94.4	94.4	6.9		12.8		6		88				<0.2		2.2	
						3.8	0.2	54	24.0		8.0		31.0		94.4		6.9		12.8		7		88				<0.2		2.2	
					Bottom	6.5	0.2	127	24.0	24.0	8.0	8.0	31.0	31.0	93.4	93.4	6.8	6.8	11.8		7		91				<0.2		2.2	
						6.5	0.2	126	24.0		8.0		31.0		93.4		6.8		11.9		6		91				<0.2		2.4	
IM4	Cloudy	Rough	14:54	7.7	Surface	1.0	0.1	37	24.0	24.0	8.0	8.0	31.0	31.0	93.3	93.3	6.8	6.8	10.2	12.6	7	6	83	88	819725	804590	<0.2	<0.2	2.4	2.4
						1.0	0.1	39	24.0		8.0		31.0		93.3		6.8		10.2		6		84				<0.2		2.5	
					Middle	3.9	0.2	95	24.0	24.0	8.0	8.0	31.0	31.0	93.5	93.6	6.8		15.3		6		88				<0.2		2.3	
						3.9	0.2	103	24.0		8.0		31.0		93.6		6.8		15.3		7		88				<0.2		2.4	
					Bottom	6.7	0.1	88	24.0	24.0	8.0	8.0	31.0	31.0	91.5	91.6	6.7	6.7	12.3		6		91				<0.2		2.4	
						6.7	0.1	89	24.0		8.0		31.0		91.6		6.7		12.3		6		92				<0.2		2.4	
IM5	Cloudy	Rough	14:47	7.9	Surface	1.0	0.3	54	24.0	24.0	8.0	8.0	30.9	30.9	92.9	93.0	6.8	6.8	9.5	10.7	4	5	83	88	820738	804864	<0.2	<0.2	2.5	2.4
						1.0	0.4	56	24.0		8.0		30.9		93.0		6.8		9.6		5		84				<0.2		2.5	
					Middle	4.0	0.1	89	24.0	24.0	8.0	8.0	31.0	31.0	93.4	93.5	6.8		11.2		6		88				<0.2		2.5	
						4.0	0.1	89	24.0		8.0		31.0		93.5		6.8		11.3		5		88				<0.2		2.4	
					Bottom	6.9	0.2	100	24.0	24.0	7.9	7.9	30.9	31.0	94.0	94.0	6.8	6.8	11.2		4		91				<0.2		2.3	
						6.9	0.2	113	24.0		7.9		31.0		94.0		6.8		11.2		5		91				<0.2		2.4	
IM6	Cloudy	Rough	14:41	7.8	Surface	1.0	0.4	40	24.0	24.0	7.9	7.9	31.0	31.0	88.9	88.9	6.5	6.5	6.3	6.5	5	4	83	87	821044	805814	<0.2	<0.2	2.4	2.2
						1.0	0.4	42	24.0		7.9		31.0		88.9		6.5		6.3		5		83				<0.2		2.3	
					Middle	3.9	0.1	15	24.0	24.0	8.0	8.0	31.0	31.0	89.1	89.2	6.5		7.0		4		87				<0.2		2.2	
						3.9	0.1	15	24.0		8.0		31.0		89.2		6.5		7.1		4		87				<0.2		2.1	
					Bottom	6.8	0.1	9	24.0	24.0	8.0	8.0	31.0	31.0	89.7	89.9	6.6	6.6	6.2		4		91				<0.2		1.9	
						6.8	0.1	9	24.0		8.0		31.0		90.1		6.6		6.2		4		92				<0.2		2.0	
IM7	Cloudy	Rough	14:34	7.6	Surface	1.0	0.3	27	24.1	24.1	7.9	7.9	30.7	30.7	88.1	88.1	6.4	6.4	5.9	5.9	5	6	83	88	821337	806813	<0.2	<0.2	1.9	1.9
						1.0	0.3	28	24.1		7.9		30.7		88.1		6.4		5.9		6		84				<0.2		1.9	
					Middle	3.8	0.3	27	24.1	24.0	7.9	7.9	30.8	30.8	87.9	87.9	6.4		6.7		6		88				<0.2		1.9	
						3.8	0.3	29	24.0		7.9		30.8		87.9		6.4		6.7		5		91				<0.2		2.0	
					Bottom	6.6	0.0	11	24.0	24.0	7.9	7.9	30.9	30.9	87.8	87.8	6.4	6.4	5.1		5		92				<0.2		1.9	
						6.6	0.0	11	24.0		7.9		30.9		87.8		6.4		5.1		6		92				<0.2		1.8	
IM8	Cloudy	Rough	15:08	7.4	Surface	1.0	0.2	330	25.3	25.3	7.9	7.9	15.5	15.5	97.2	97.3	7.3	7.3	13.2	12.3	5	6	85	88	821836	808132	<0.2	<0.2	1.8	1.9
						1.0	0.2	331	25.2		7.9		15.5		97.3		7.3		13.0		5		85				<0.2		1.7	
					Middle	3.7	0.1	265	25.0	25.0	7.9	7.9	16.8	16.8	96.7	96.7	7.3		12.7		6		88				<0.2		2.0	
						3.7	0.1	270	25.0		7.9		16.8		96.7		7.3		13.3		6		89				<0.2		1.8	
					Bottom	6.4	0.2	253	25.1	25.1	7.9	7.9	25.8	25.8	93.8	93.8	6.7	6.7	10.7		6		89				<0.2		1.9	
						6.4	0.2	255	25.1		7.9		25.8		93.8		6.7		10.8		5		91				<0.2		2.1	

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

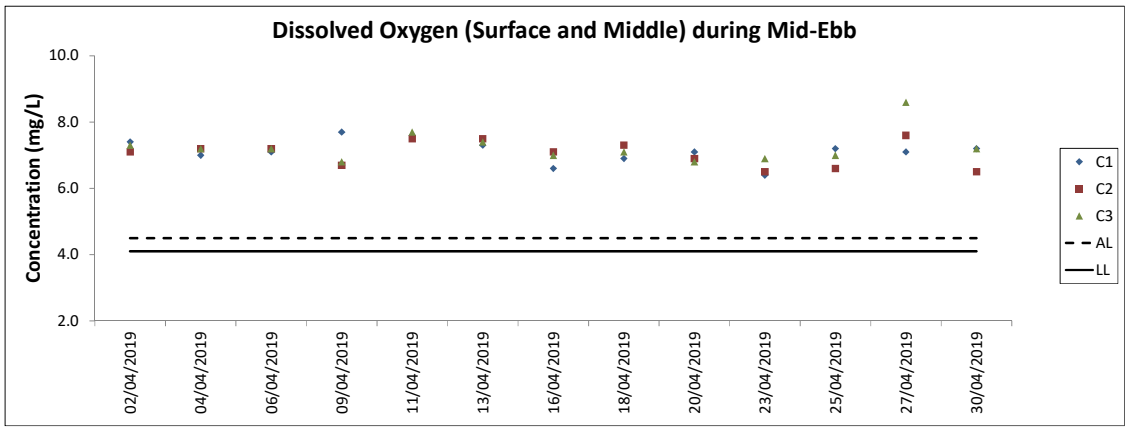
Water Quality Monitoring Results on 30 April 19 during Mid-Flood Tide

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	15:18	7.3	Surface	1.0	0.1	282	24.8	24.8	7.9	7.9	14.6	14.4	95.4	95.4	7.3	7.2	10.4	9.7	6	6	84	89	822095	808825	<0.2	<0.2	2.0	1.9
						1.0	0.1	295	24.7		7.9		14.2		95.3		7.3		10.4		6		85				<0.2		1.8	
					Middle	3.7	0.3	228	24.9	24.9	7.9	7.9	18.1	18.1	95.0	95.0	7.1		10.3		7		90				<0.2		1.8	
						3.7	0.3	236	24.9		7.9		18.1		95.0		7.1		10.2		5		90				<0.2		1.8	
					Bottom	6.3	0.2	255	25.5	25.5	7.9	7.9	24.0	24.0	98.0	98.1	7.0	7.0	8.2		5		90				<0.2		1.8	
						6.3	0.2	258	25.5		7.9		24.0		98.1		7.0		8.9		6		93				<0.2		1.9	
IM10	Cloudy	Rough	15:26	7.6	Surface	1.0	0.0	265	25.0	25.0	7.9	7.9	12.9	12.9	98.4	98.4	7.6	7.4	10.8	9.7	6	5	85	89	822367	809812	<0.2	<0.2	1.8	1.8
						1.0	0.0	277	24.9		7.9		12.9		98.3		7.6		11.1		5		85				<0.2		1.9	
					Middle	3.8	0.2	261	24.9	24.9	7.9	7.9	19.5	19.2	96.4	96.5	7.1		8.8		6		89				<0.2		1.8	
						3.8	0.2	266	24.9		7.9		19.0		96.6		7.2		8.8		5		90				<0.2		1.8	
					Bottom	6.6	0.1	244	24.6	24.6	7.9	7.9	23.7	23.7	95.2	95.3	6.9	6.9	9.5		4		93				<0.2		1.8	
						6.6	0.1	250	24.6		7.9		23.7		95.3		6.9		9.5		5		93				<0.2		1.9	
IM11	Cloudy	Rough	15:39	7.8	Surface	1.0	0.1	266	24.7	24.7	7.9	7.9	13.7	13.5	96.2	96.3	7.4	7.3	13.2	12.4	5	5	85	89	822046	811449	<0.2	<0.2	2.0	1.9
						1.0	0.1	280	24.6		7.9		13.2		96.3		7.4		13.2		6		85				<0.2		2.0	
					Middle	3.9	0.1	254	24.6	24.6	7.9	7.9	19.3	19.3	95.2	95.2	7.1		15.0		5		89				<0.2		1.7	
						3.9	0.1	261	24.6		7.9		19.3		95.1		7.1		14.6		4		90				<0.2		1.8	
					Bottom	6.8	0.1	282	24.5	24.5	8.0	8.0	24.3	24.1	95.4	95.5	6.9	7.0	9.4		5		93				<0.2		2.0	
						6.8	0.1	282	24.5		8.0		23.9		95.5		7.0		9.3		5		93				<0.2		1.8	
IM12	Cloudy	Moderate	15:48	8.1	Surface	1.0	0.0	247	24.8	24.8	7.9	7.9	13.0	13.0	95.5	95.6	7.4	7.3	12.9	12.5	5	5	85	90	821450	812053	<0.2	<0.2	1.8	1.9
						1.0	0.0	229	24.8		7.9		13.0		95.7		7.4		12.9		5		89				<0.2		1.8	
					Middle	4.1	0.2	291	24.7	24.7	7.9	7.9	21.3	21.1	96.0	96.0	7.1		10.7		5		90				<0.2		2.1	
						4.1	0.2	293	24.7		8.0		20.9		96.0		7.1		10.7		6		91				<0.2		1.9	
					Bottom	7.1	0.1	272	24.9	25.0	8.0	7.9	26.1	26.2	97.0	96.5	6.9	6.9	14.1		4		93				<0.2		1.8	
						7.1	0.1	280	25.0		7.9		26.2		96.0		6.8		14.1		5		93				<0.2		2.0	
SR1A	Cloudy	Moderate	16:07	4.9	Surface	1.0	-	-	25.1	25.1	7.8	7.8	20.6	20.6	96.2	96.4	7.1	7.1	9.4	9.2	5	4	-	-	819974	812664	-	-	-	-
						1.0	-	-	25.1		7.8		20.6		96.5		7.1		9.2		4		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	-	-	24.8	24.8	7.8	7.8	13.5	13.3	95.1	95.2	7.3	7.3	8.5		4		-				-		-	
						3.9	-	-	24.8		7.8		13.1		95.3		7.3		9.7		4		-				-		-	
SR2	Cloudy	Moderate	16:22	4.8	Surface	1.0	0.0	232	24.8	24.8	7.8	7.8	13.7	13.7	95.8	96.0	7.3	7.4	14.3	12.5	3	4	86	88	821475	814169	<0.2	<0.2	2.0	2.0
						1.0	0.0	234	24.7		7.8		13.7		96.1		7.4		13.1		3		86				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	212	24.4	24.4	8.0	8.0	15.9	15.6	95.7	95.9	7.3	7.3	11.2		4		89				<0.2		2.0	
						3.8	0.2	225	24.4		8.0		15.4		96.0		7.3		11.6		4		90				<0.2		2.0	
SR3	Cloudy	Rough	15:02	8.6	Surface	1.0	0.4	23	24.8	24.8	7.9	7.9	13.2	13.0	96.4	96.5	7.4	7.3	10.6	8.6	4	5	-	-	822132	807588	-	-	-	-
						1.0	0.4	24	24.7		7.9		12.8		96.5		7.5		10.6		5		-				-		-	
					Middle	4.3	0.3	24	24.9	24.9	7.9	7.9	22.0	22.0	96.3	96.5	7.0		7.8		5		-				-		-	
						4.3	0.3	25	24.9		7.9		22.0		96.6		7.1		7.7		6		-				-		-	
					Bottom	7.6	0.2	28	25.2	25.2	7.9	7.9	26.8	26.8	97.1	97.1	6.9	6.9	7.2		6		-				-		-	
						7.6	0.2	26	25.2		7.9		26.8		97.1		6.9		7.4		6		-				-		-	
SR4A	Cloudy	Rough	16:13	8.4	Surface	1.0	0.1	211	24.0	24.0	8.0	8.0	30.3	30.3	94.4	94.4	6.8	6.8	12.1	14.1	6	6	-	-	817196	807823	-	-	-	-
						1.0	0.1	212	24.0		8.0		30.4		94.4		6.8		12.1		5		-				-		-	
					Middle	4.2	0.2	286	23.9	23.9	8.0	8.0	30.5	30.5	94.8	94.9	6.8		15.1		6		-				-		-	
						4.2	0.2	288	23.9		8.0		30.5		95.0		6.8		15.1		6		-				-		-	
					Bottom	7.4	0.2	232	23.9	23.9	8.1	8.1	30.5	30.5	93.0	93.0	6.7	6.7	14.9		5		-				-		-	
						7.4	0.2	243	23.9		8.1		30.5		93.0		6.7		15.0		6		-				-		-	
SR5A	Cloudy	Rough	16:32	3.4	Surface	1.0	0.1	210	24.1	24.1	8.1	8.1	30.2	30.2	95.7	95.8	6.9	6.9	7.3	6.9	6	6	-	-	816578	810685	-	-	-	-
						1.0	0.1	223	24.1		8.1		30.2		95.8		6.9		7.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.4	0.1	208	24.1	24.1	8.0	8.0	30.3	30.3	94.3	94.3	6.8	6.8	6.5		5		-				-		-	
						2.4	0.1	228	24.1		8.0		30.3		94.2		6.8		6.6		6		-				-		-	
SR6	Cloudy	Rough	17:11	3.6	Surface	1.0	0.1	255	24.6	24.6	8.1	8.1	31.4	31.4	96.8	96.9	7.0	7.0	4.2	4.7	6	7	-	-	817899	814683	-	-	-	-
						1.0	0.1	256	24.6		8.1		31.4		96.9		7.0		4.3		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	264	24.8	24.8	8.1	8.1	32.2	32.2	95.6	95.6	6.9	6.9	5.2		6		-				-		-	
						2.6	0.1	268	24.8		8.1		32.2		95.6		6.9		5.2		7		-				-		-	
SR7	Cloudy	Moderate	17:11	16.8	Surface	1.0	0.1	271	24.7	24.7	8.0	8.0	18.8	18.8	88.3	88.4	6.6	6.5	9.5	8.6	5	5	-	-	823613	823755	-	-	-	-
						1.0	0.1	280	24.6		8.0		18.8		88.5		6.6		9.5		6		-				-		-	
					Middle	8.4	0.1	244	24.4	24.5	8.0	8.0	22.3	22.3	86.6	86.7	6.4		7.8		5		-				-		-	
						8.4	0.1	257	24.5		8.0		22.3		86.7		6.4		7.8		5		-				-		-	
					Bottom	15.8	0.1	286	25.0	25.0	7.9	7.9	30.8	30.8	88.1	88.1	6.1	6.1	8.6		5		-				-		-	
						15.8	0.1	288	25.0		7.9		30.8		88.1		6.1		8.6		6		-				-		-	
SR8	Cloudy	Moderate	16:00	5.2	Surface	1.0	-	-	24.8	24.8	7.9	7.9	18.5	18.5	95.5	95.6	7.1	7.2	14.5	12.0	6	6	-	-	820384	811617	-	-	-	-
						1.0	-	-	24.7		7.9		18.5		95.7		7.2		14.5		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	-	-	25.1	25.1	7.8	7.8	23.3	23.1	95.9	96.0	6.9	7.0	9.2		6		-				-		-	
						4.2	-	-	25.1		7.8		22.9		96.0		7.0		9.6		7		-				-		-	

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)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
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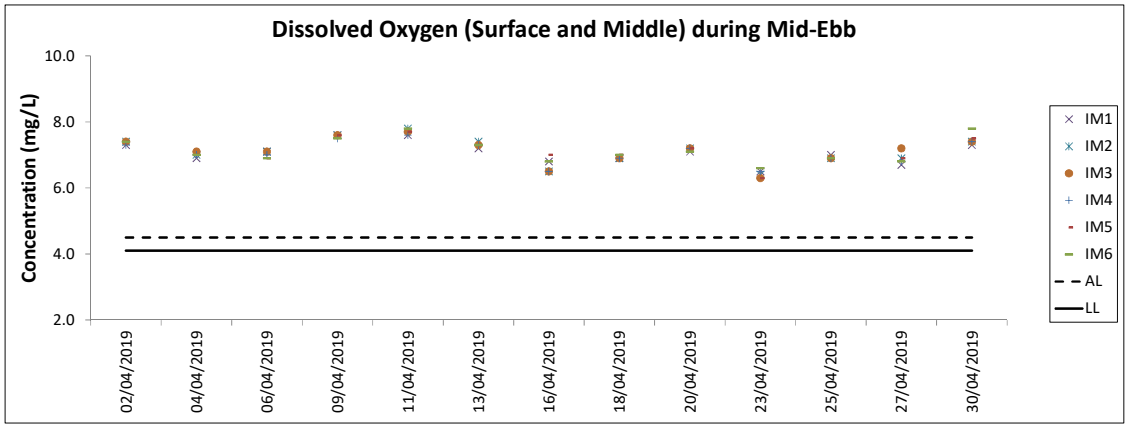
27/04/2019
30/04/2019
C1
C2
C3
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
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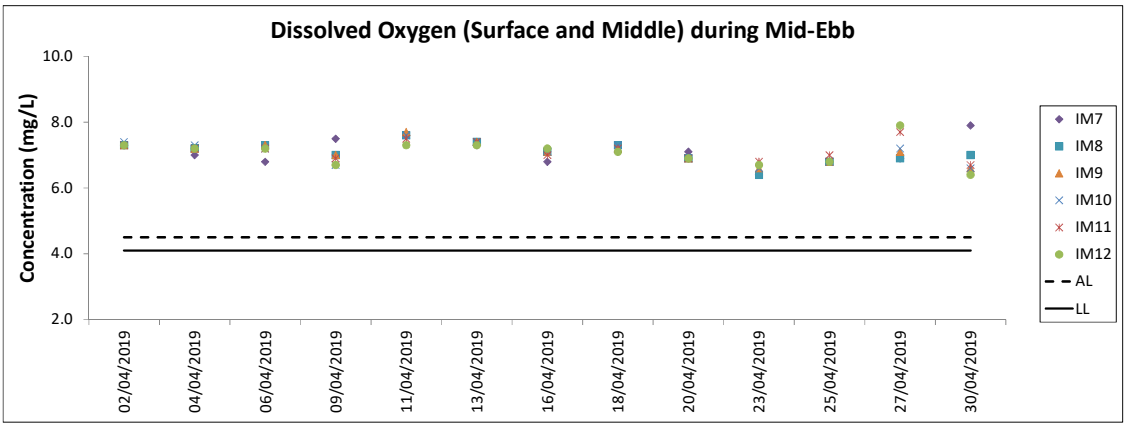
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
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IM8
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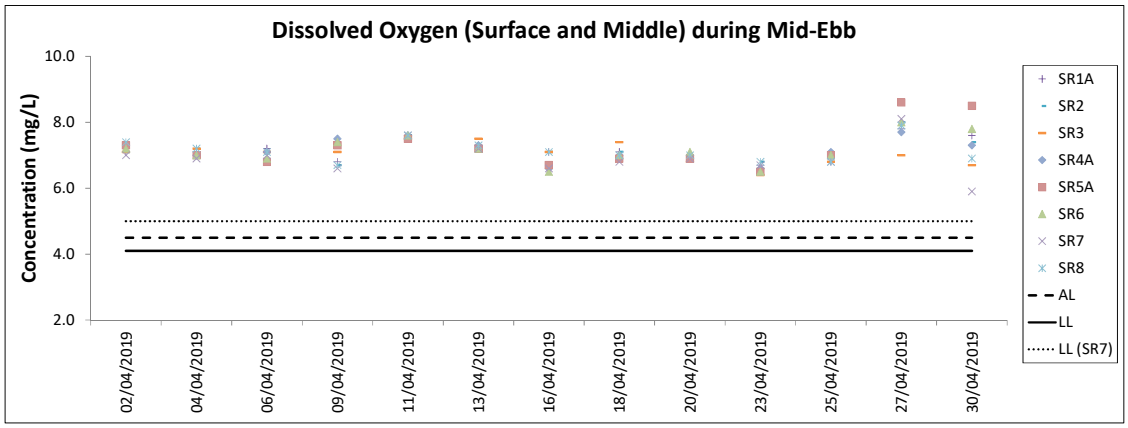
IM11
IM12
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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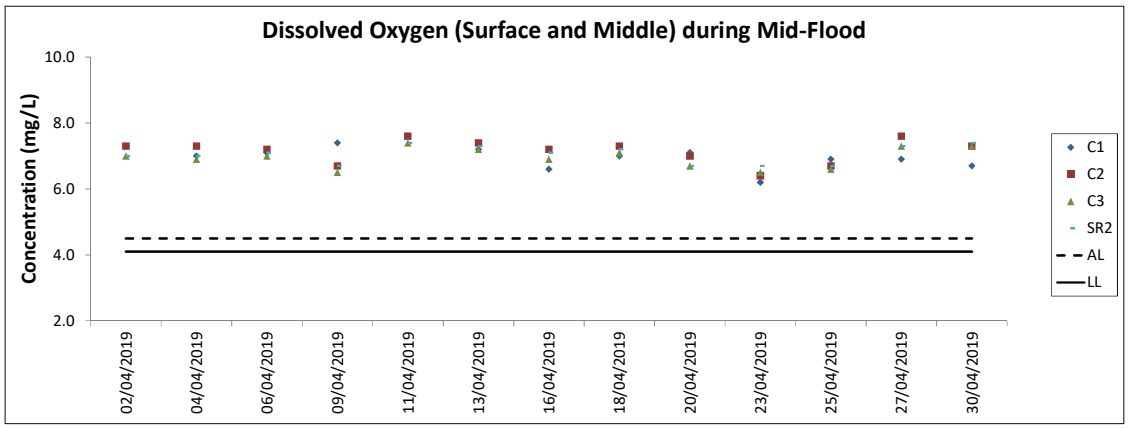
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
25/04/2019
27/04/2019
30/04/2019
SR1A
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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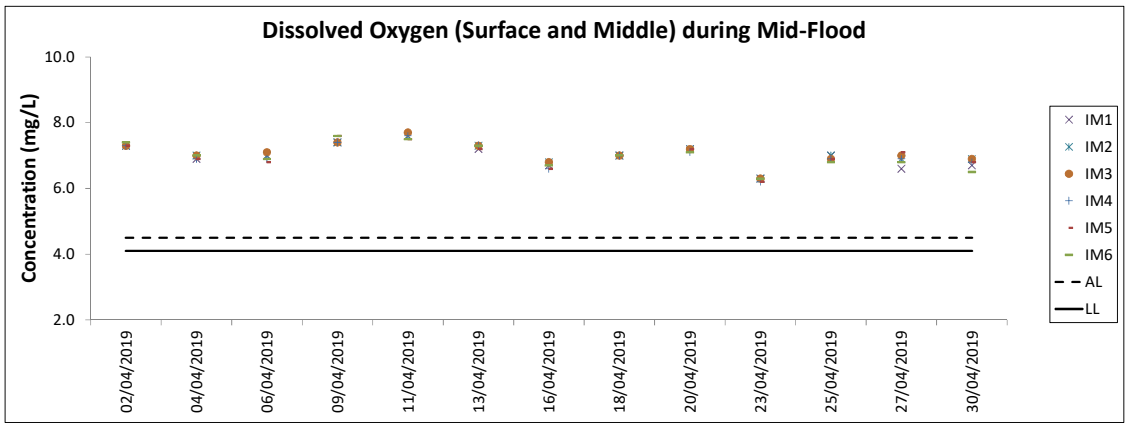
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
25/04/2019
27/04/2019
30/04/2019
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
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IM1
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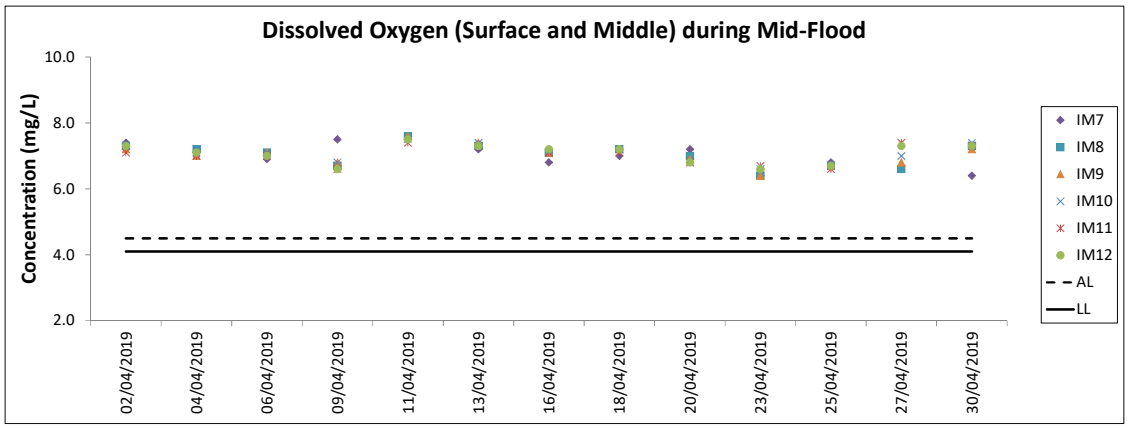
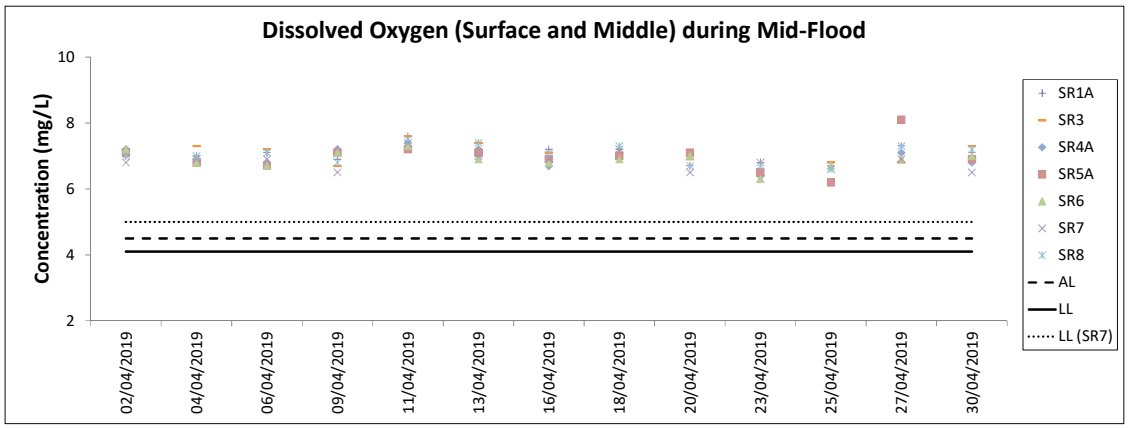
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
25/04/2019
27/04/2019
30/04/2019
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10
8
6
4
2
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
25/04/2019
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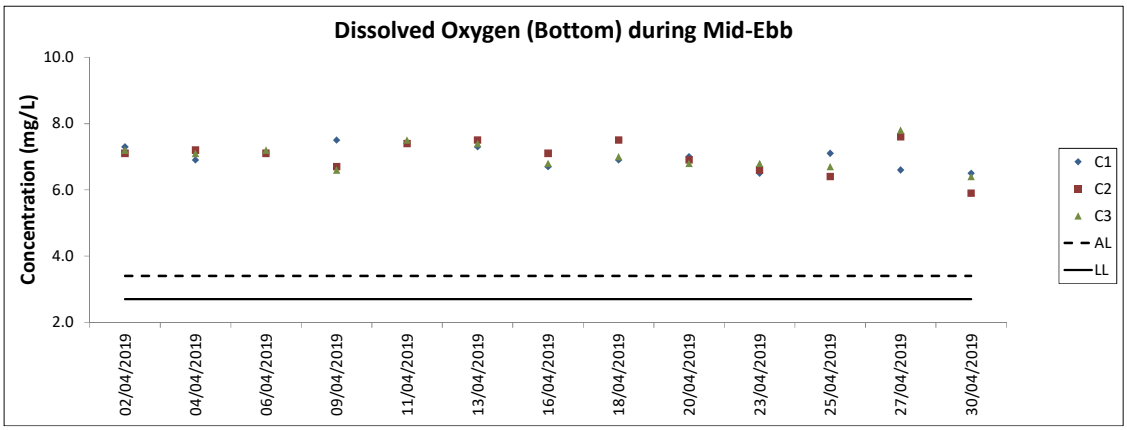
SR1A
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
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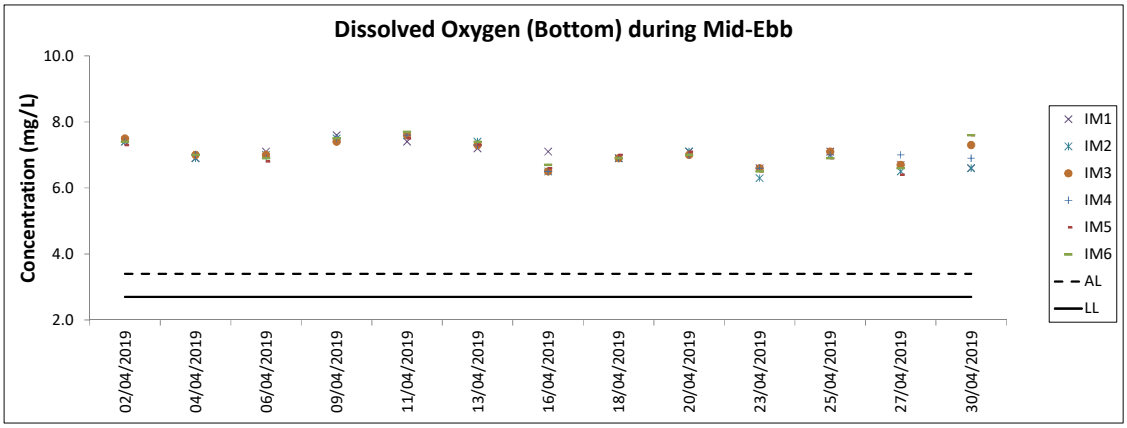
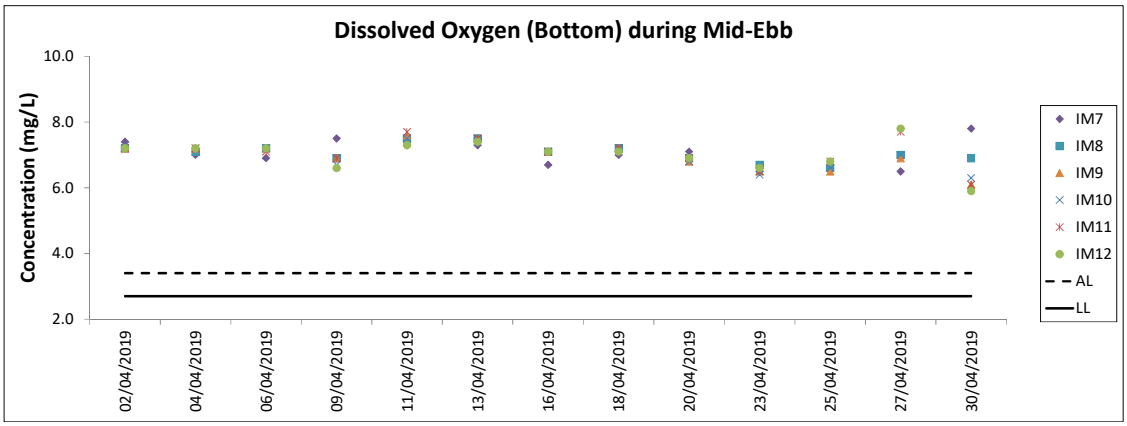
C1
C2
C3
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
25/04/2019
27/04/2019
30/04/2019
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
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20/04/2019
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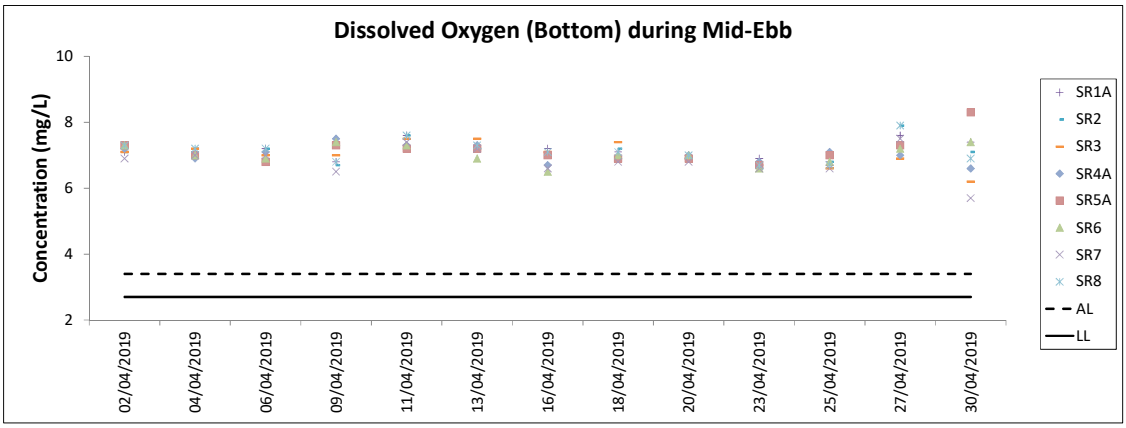
30/04/2019
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10
8
6
4
2
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
25/04/2019
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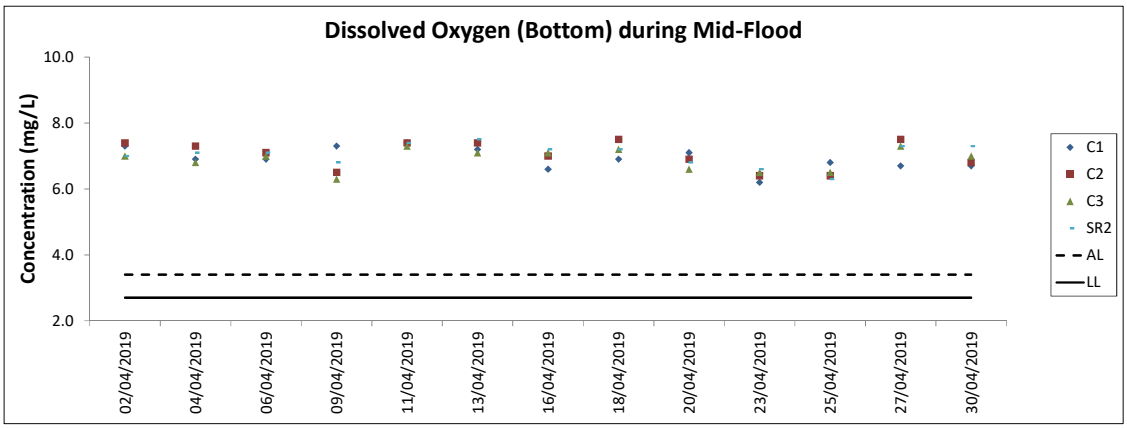
30/04/2019
SR1A
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
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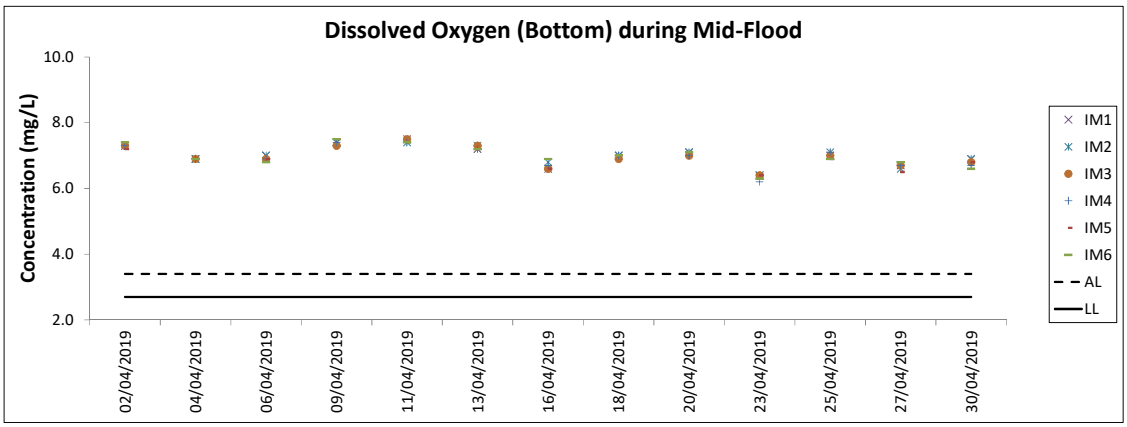
30/04/2019
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
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IM1
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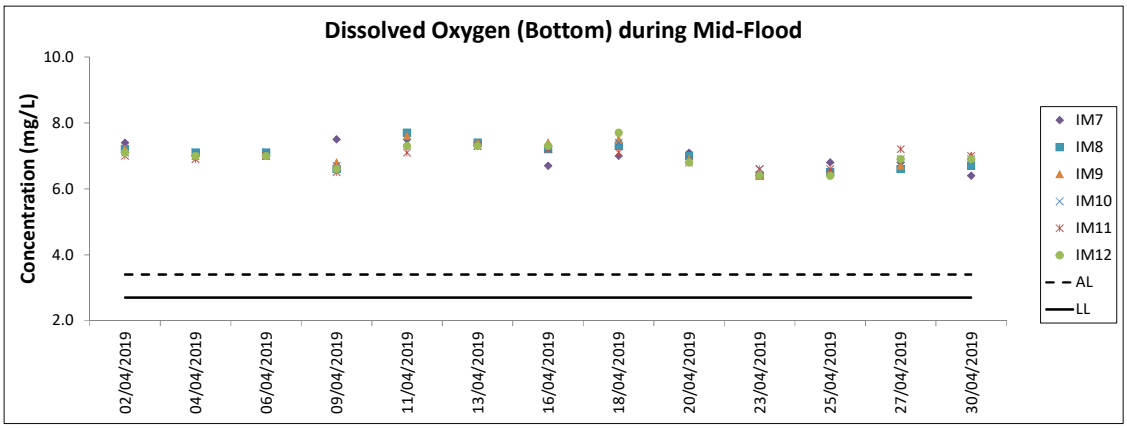
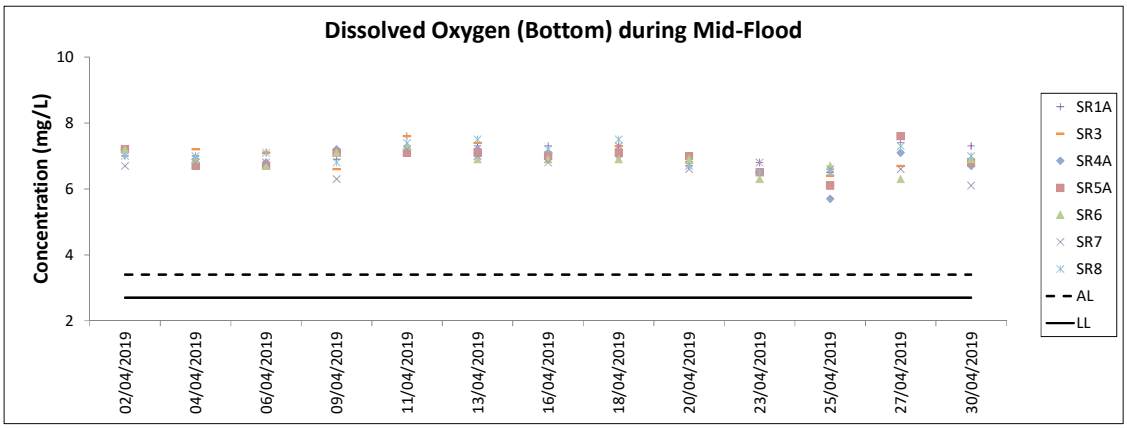
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
25/04/2019
27/04/2019
30/04/2019
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10
8
6
4
2
02/04/2019
04/04/2019
06/04/2019
09/04/2019
11/04/2019
13/04/2019
16/04/2019
18/04/2019
20/04/2019
23/04/2019
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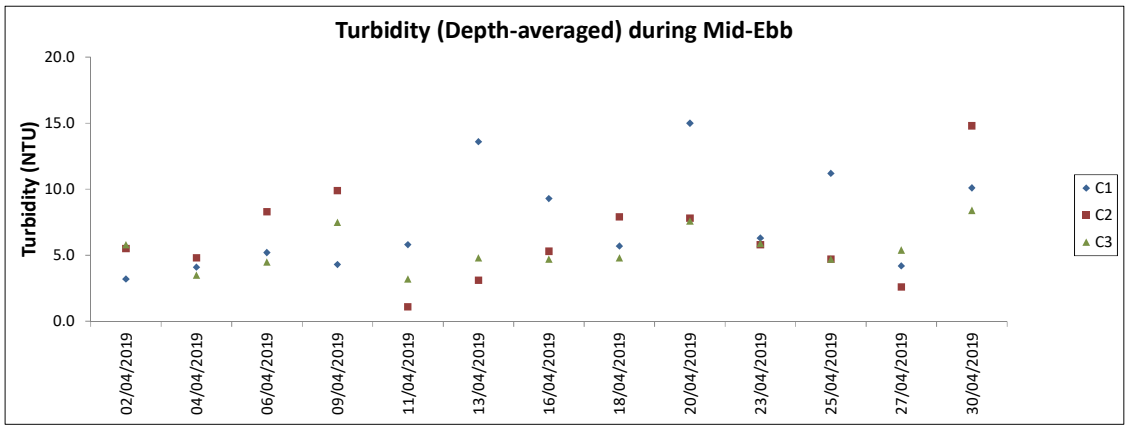
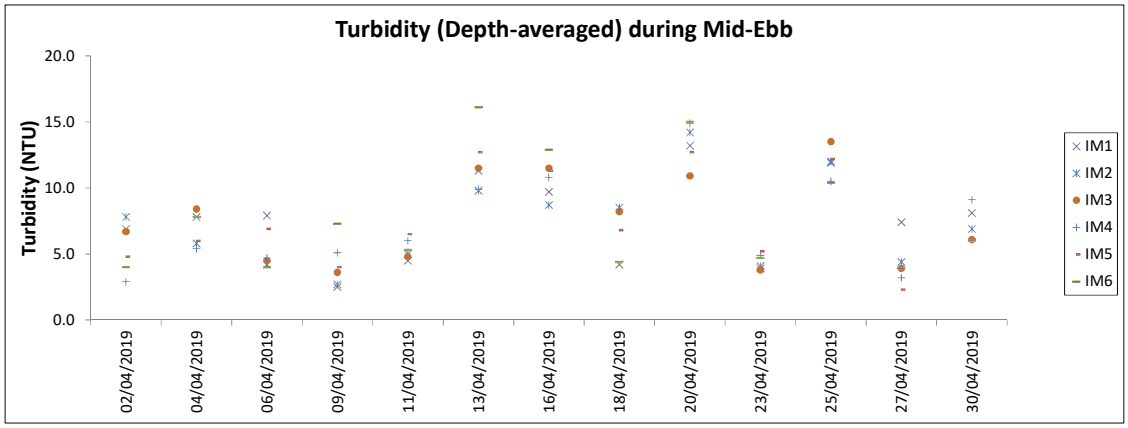
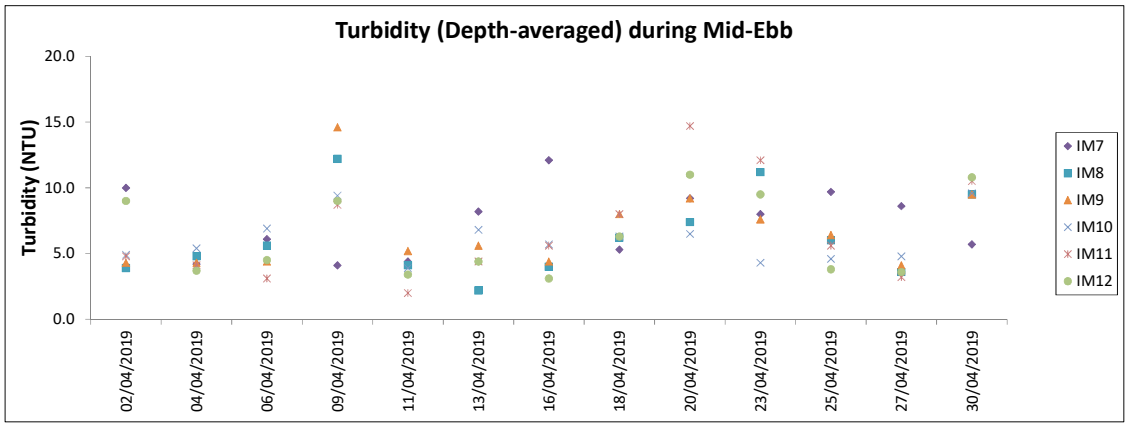
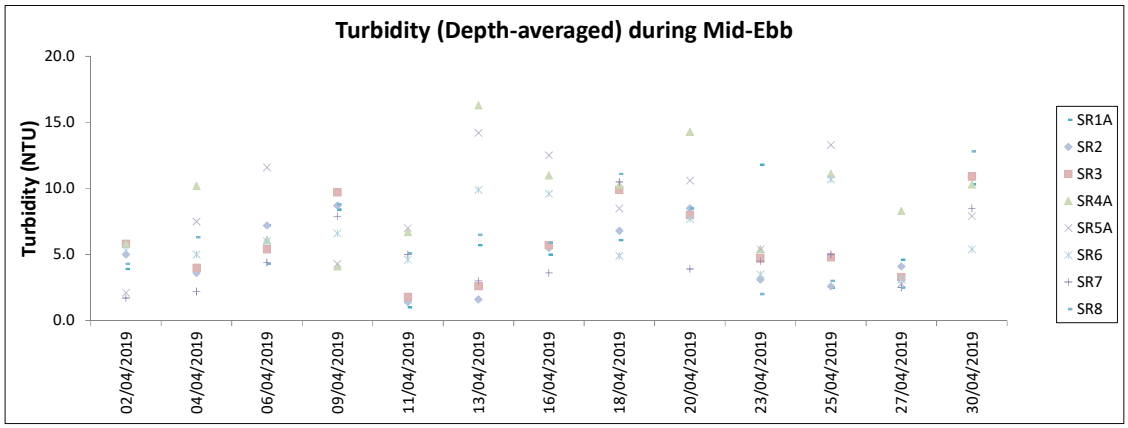
SR1A
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL

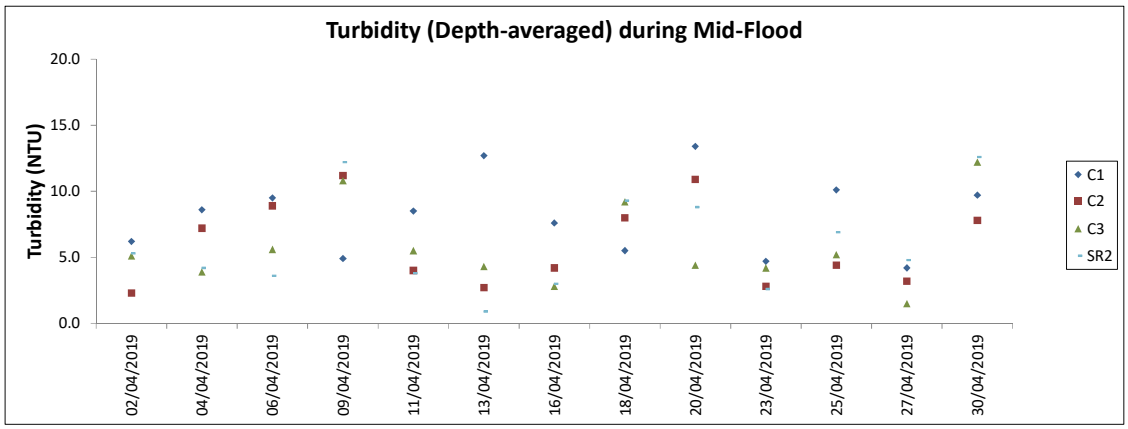


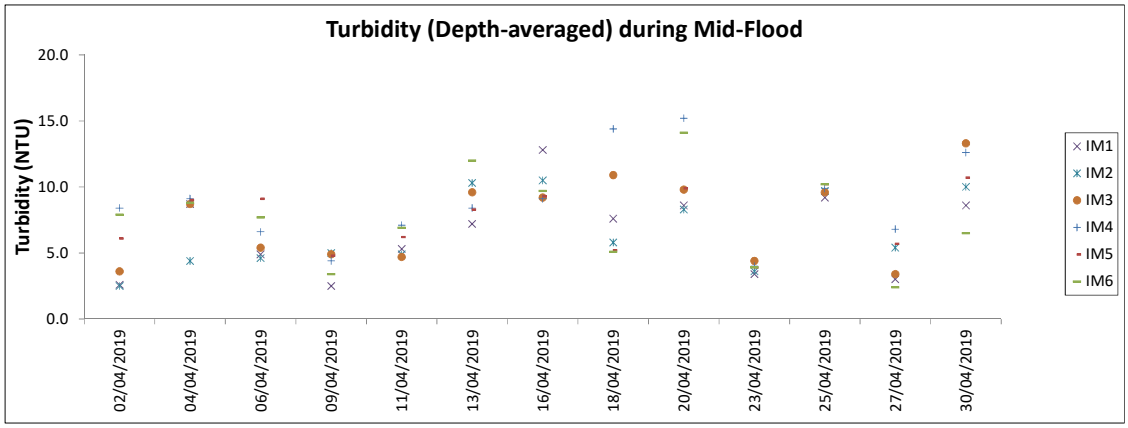


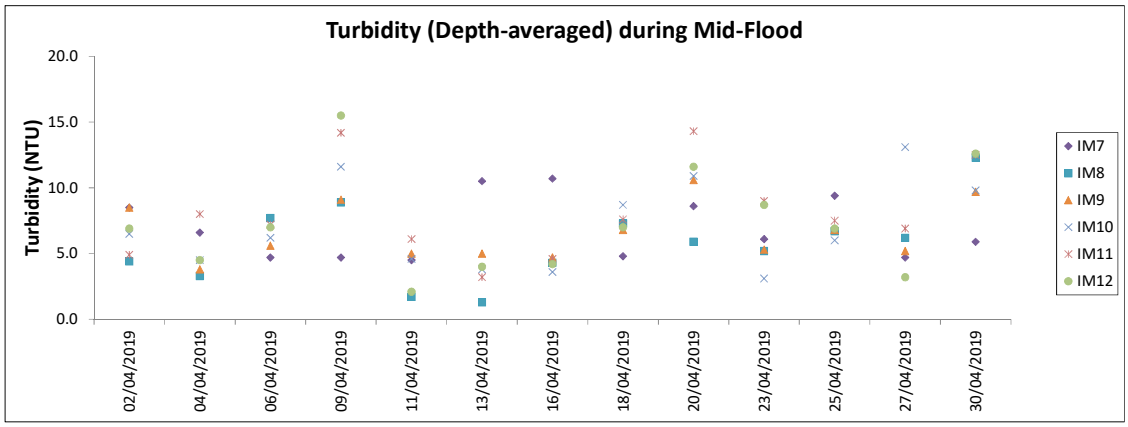


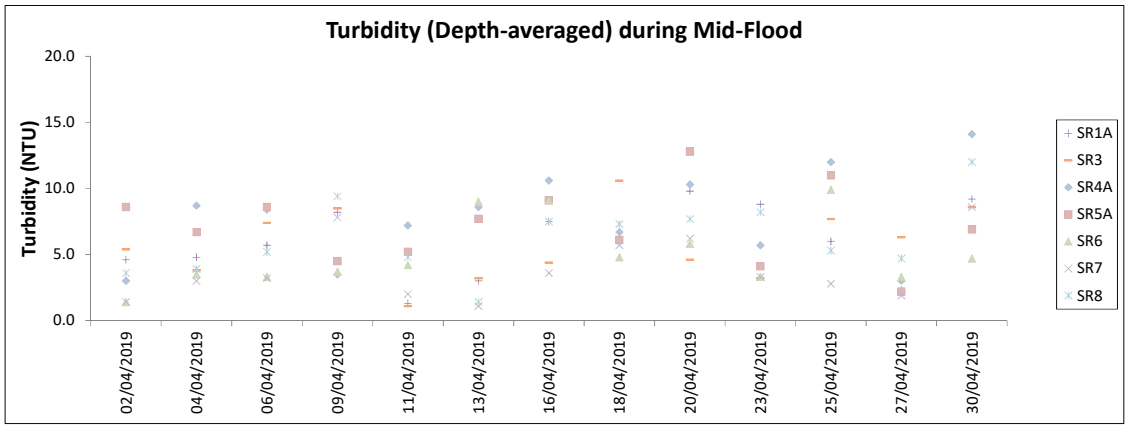


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

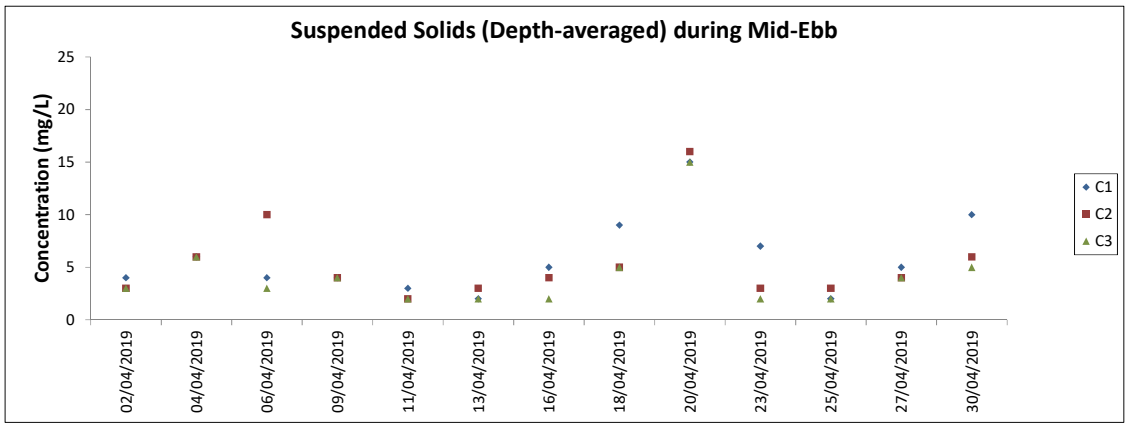


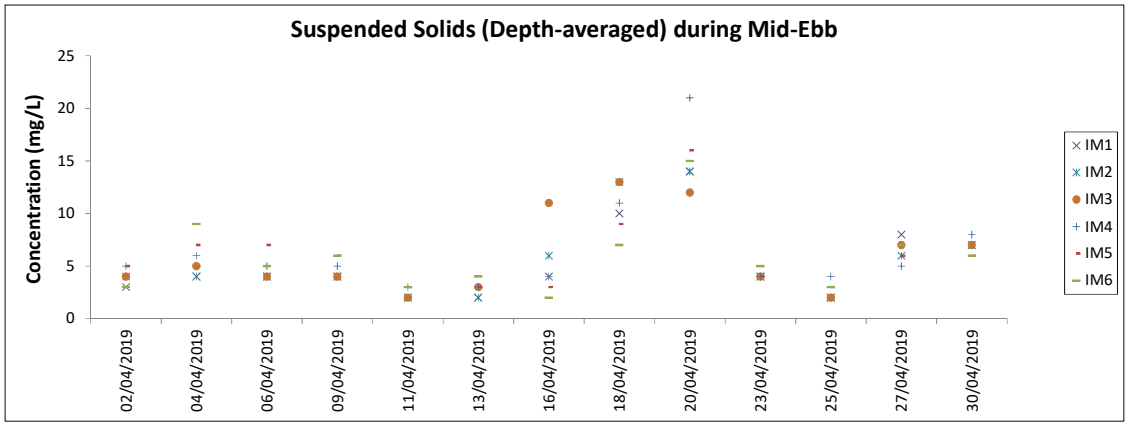


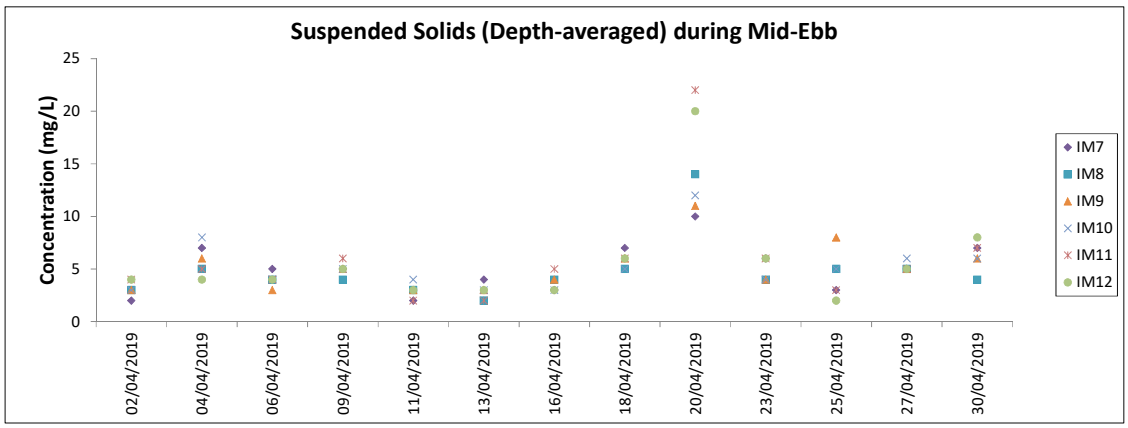


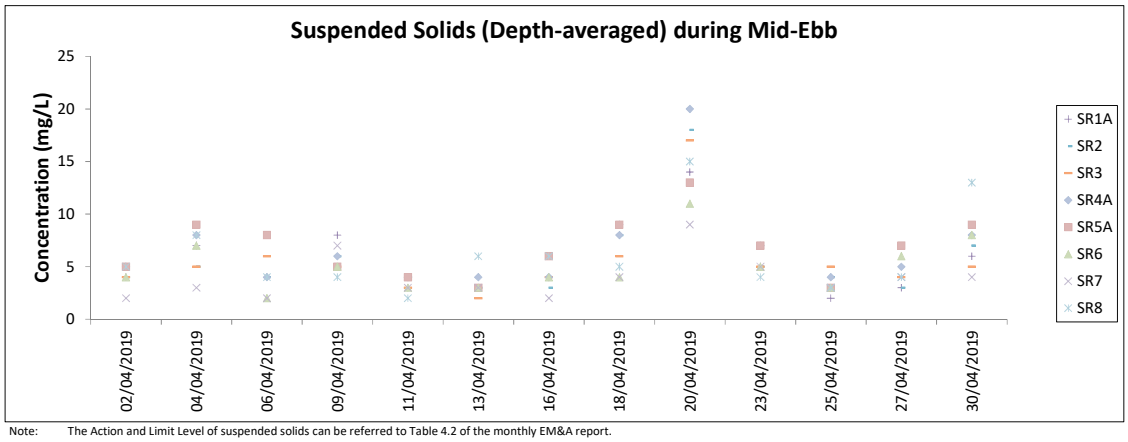


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

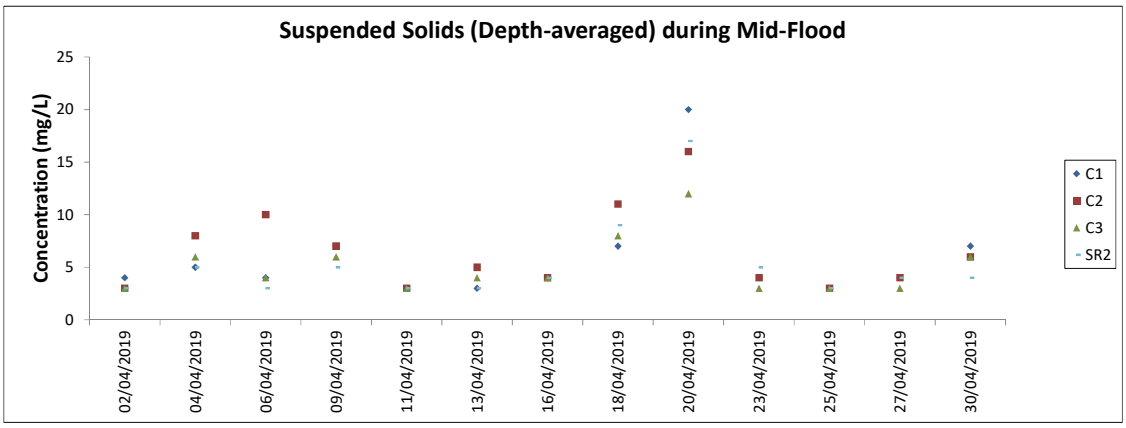


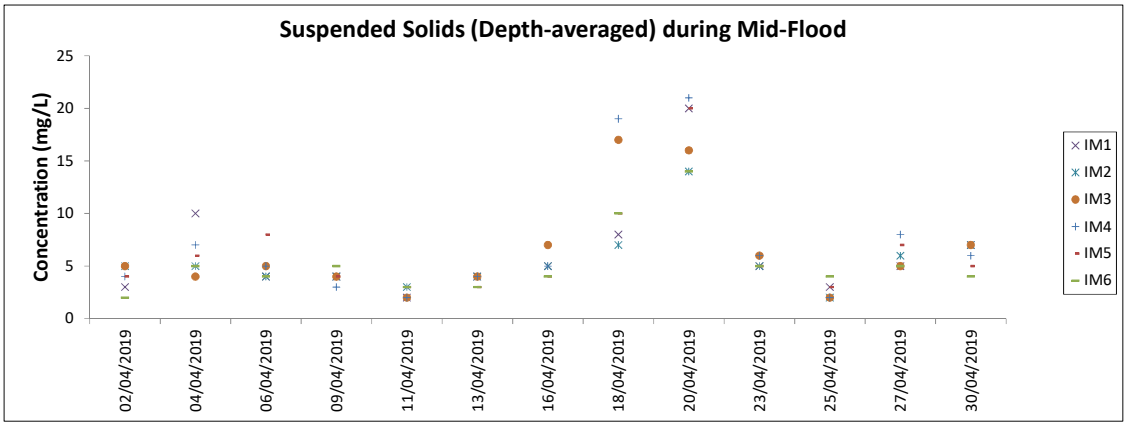


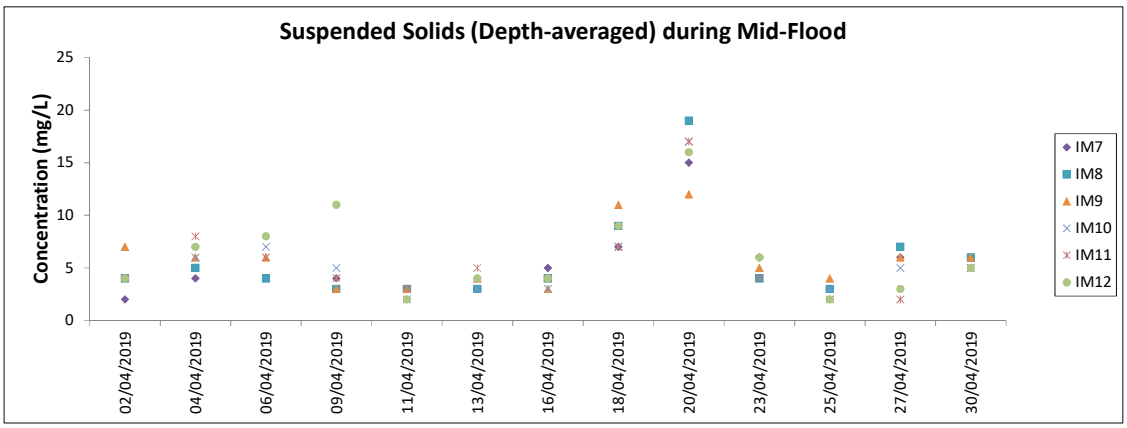


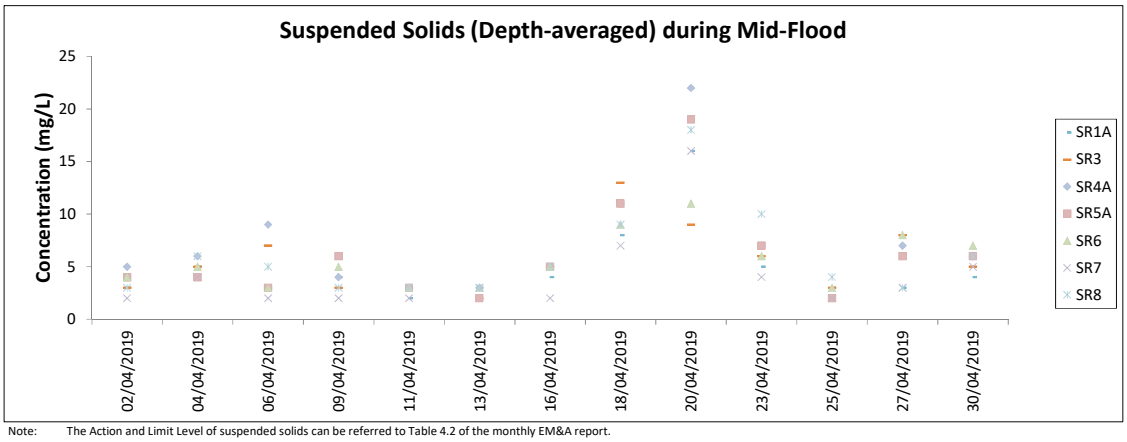


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

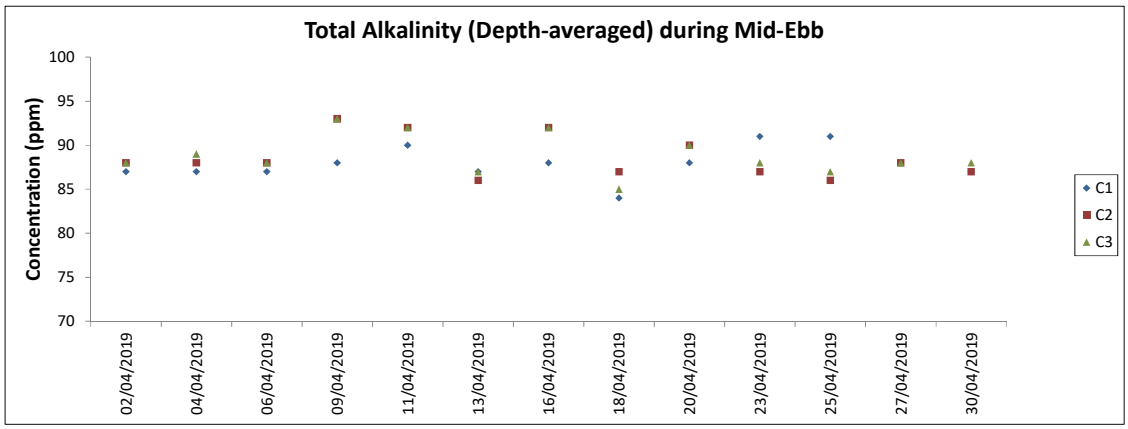


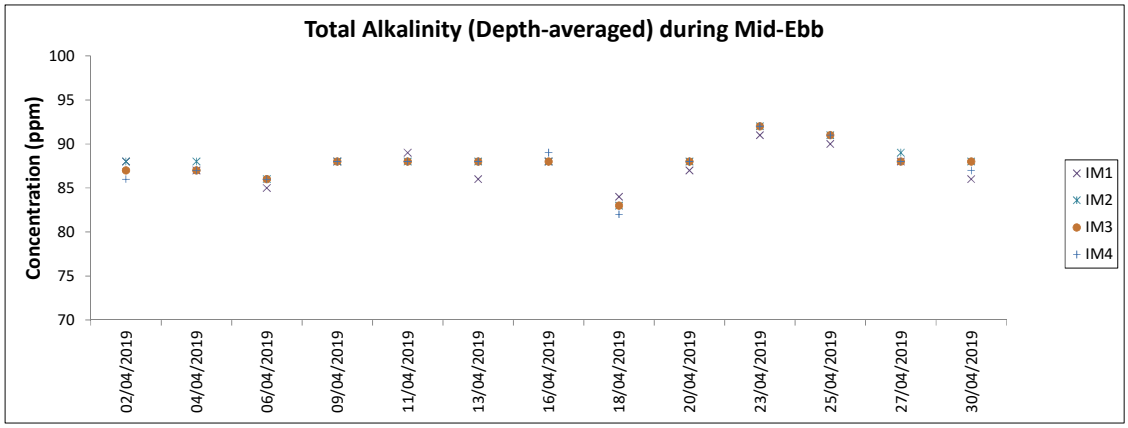


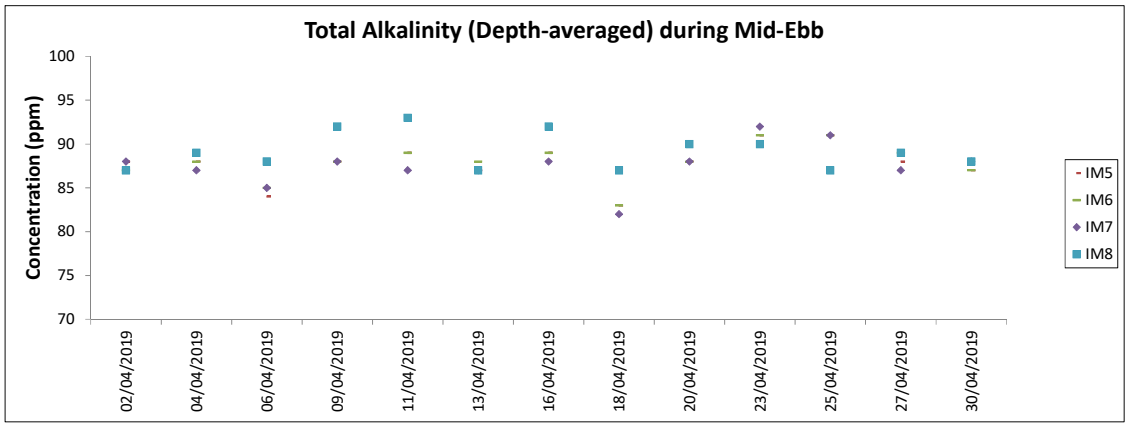


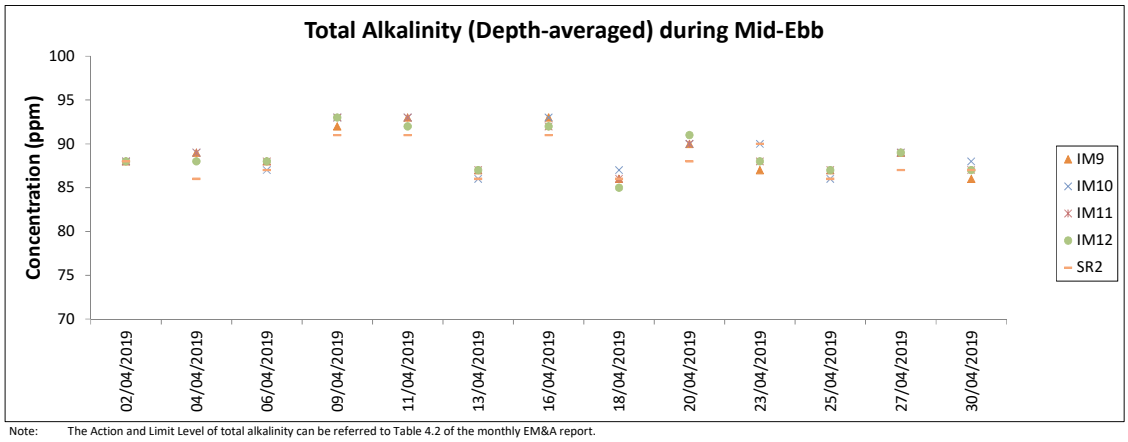


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

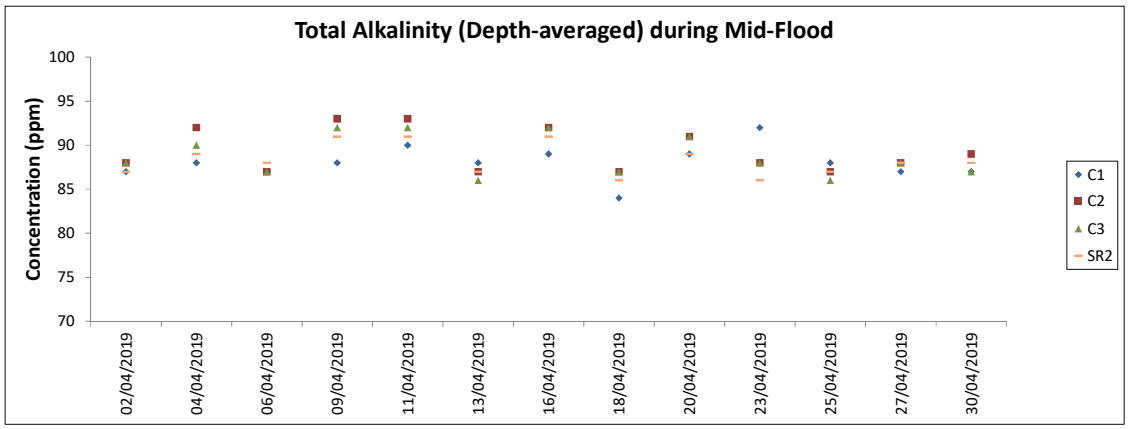


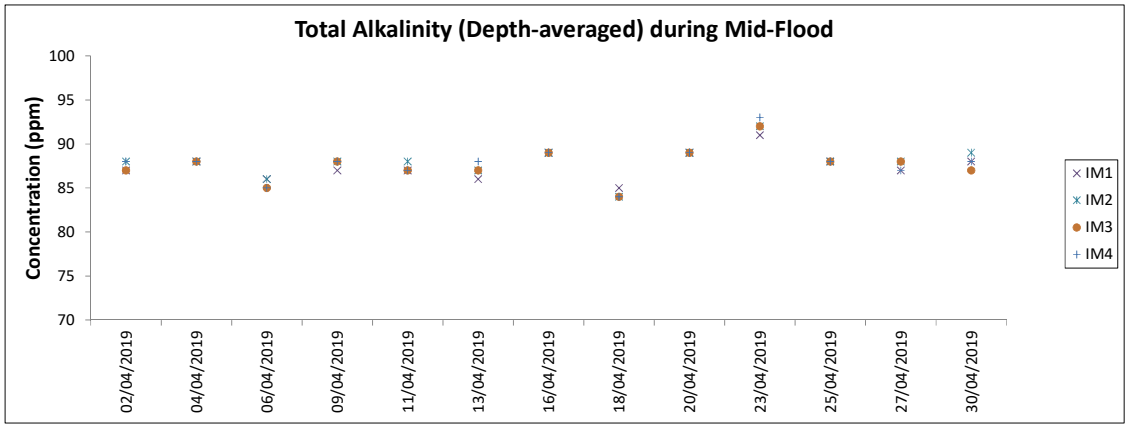


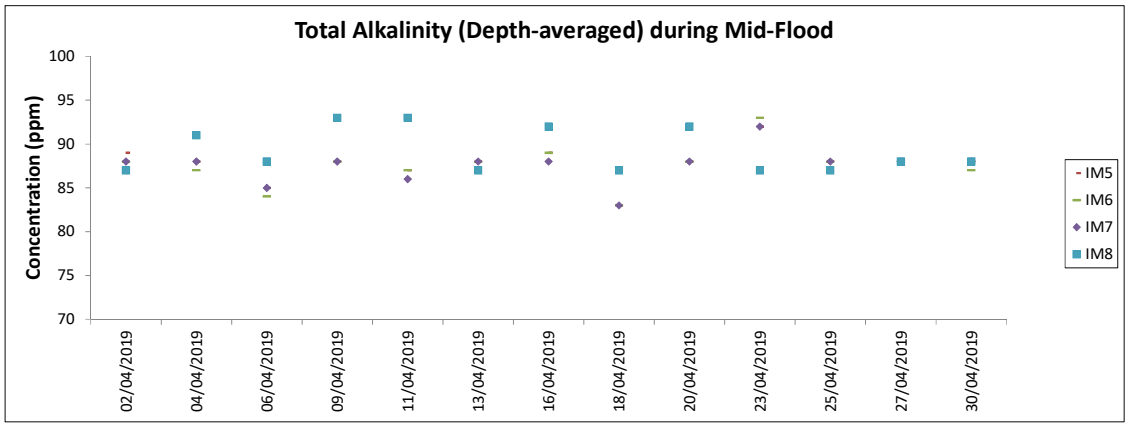


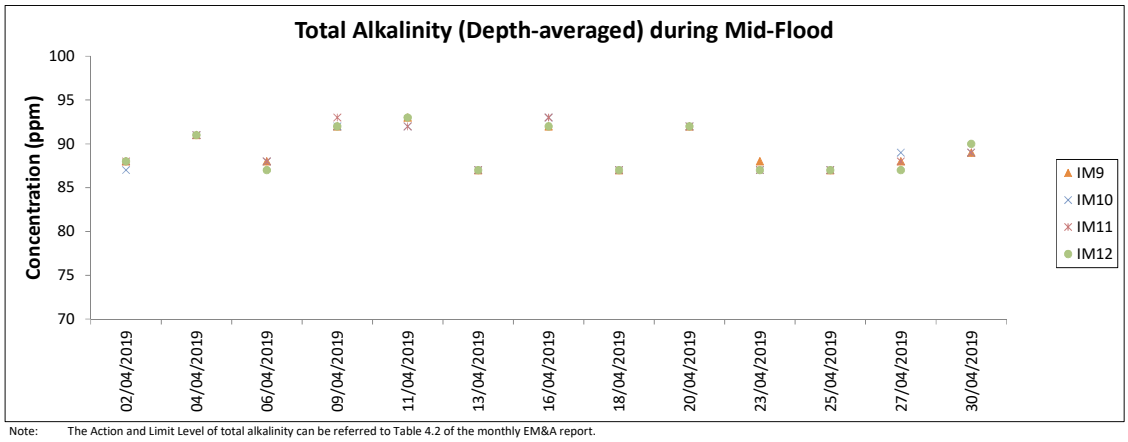


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

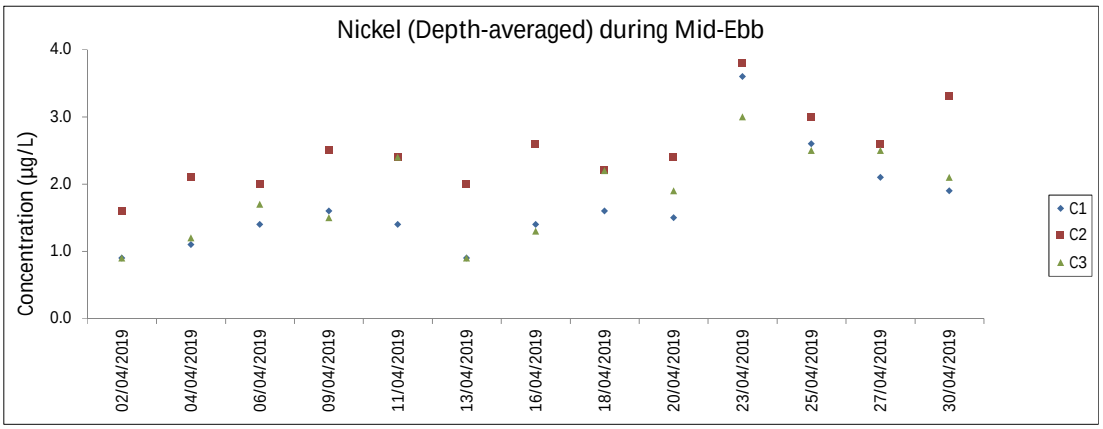


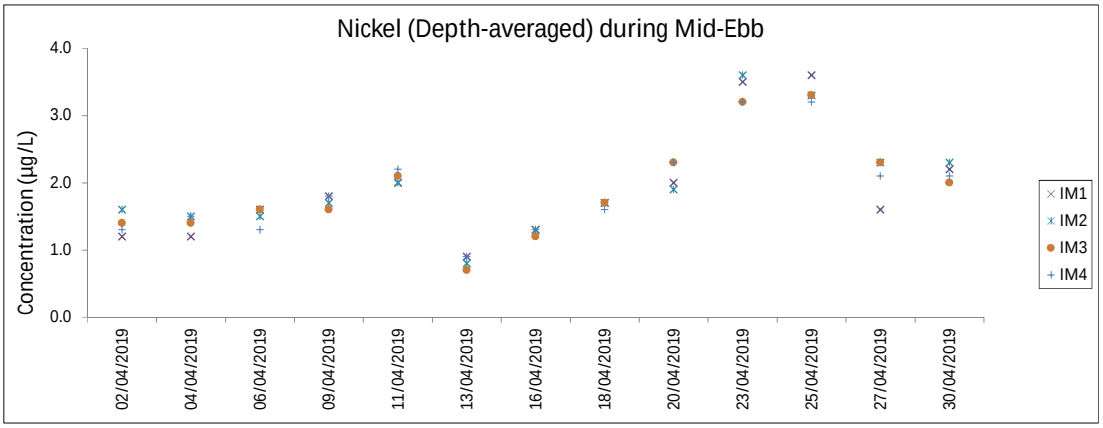


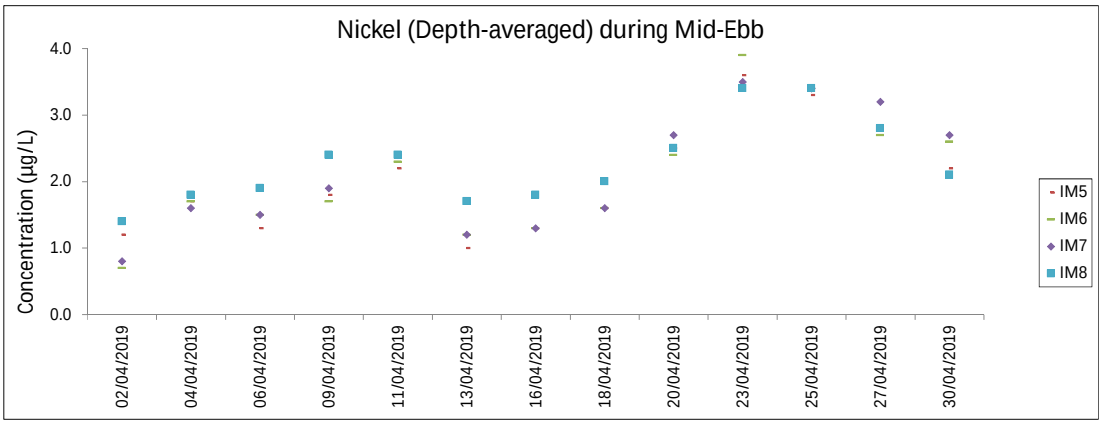


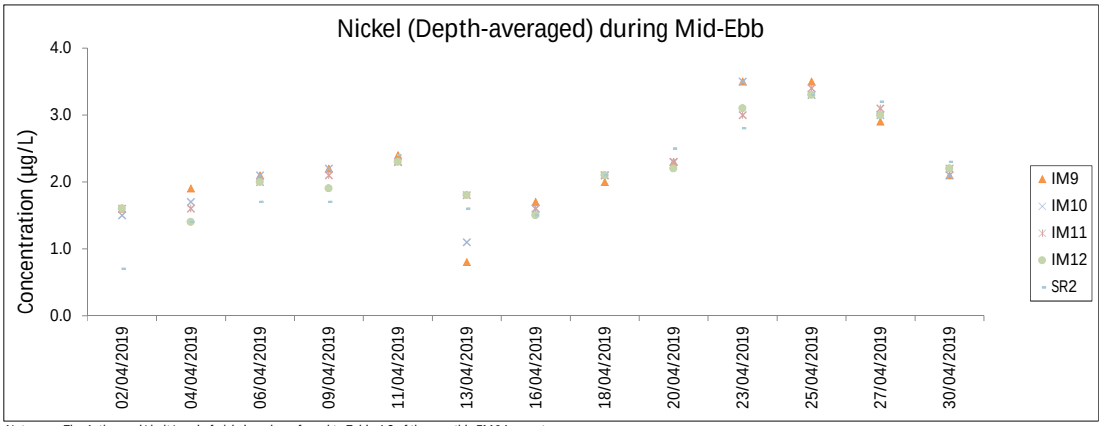


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

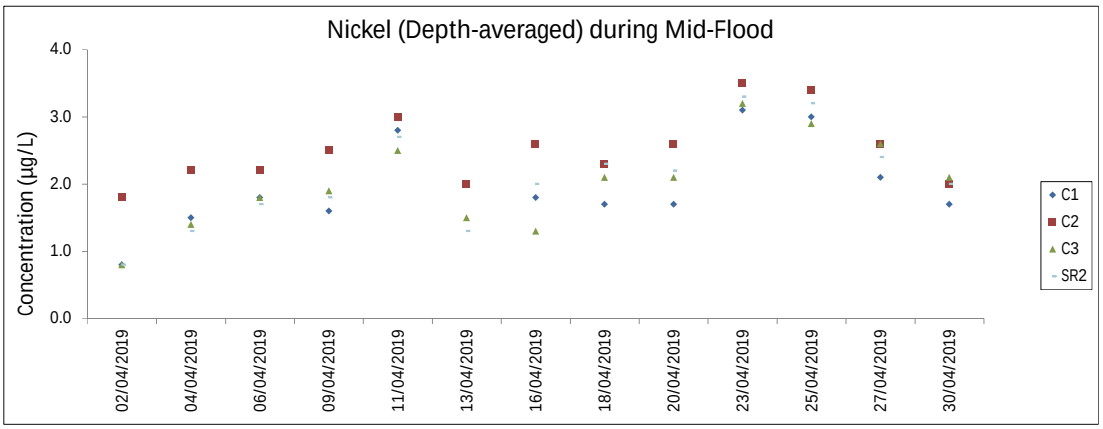


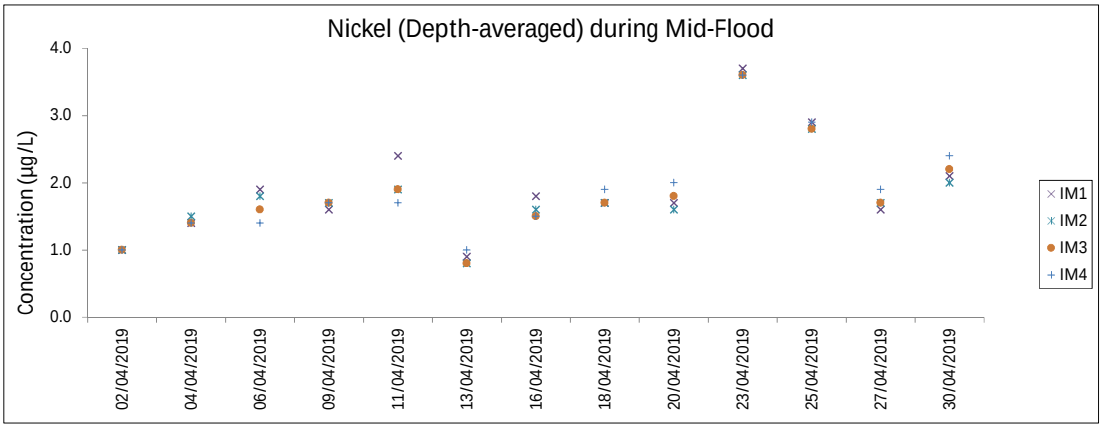


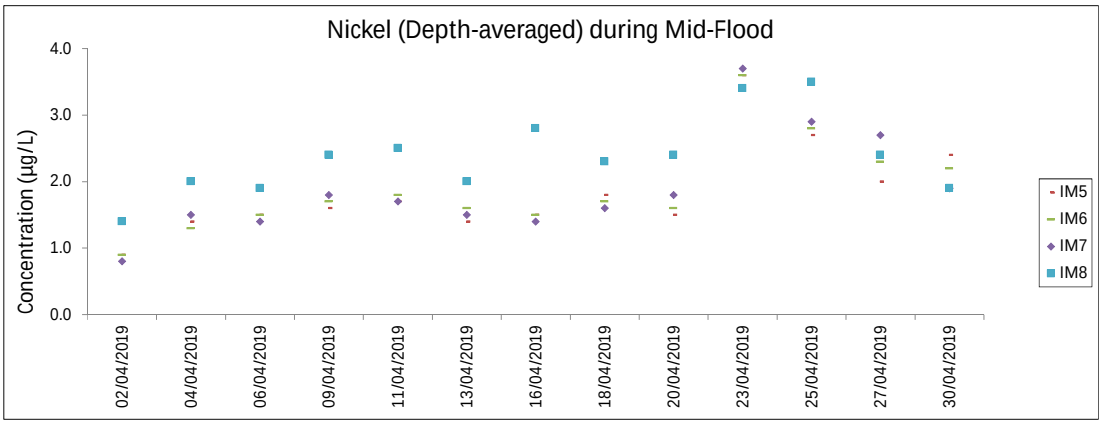


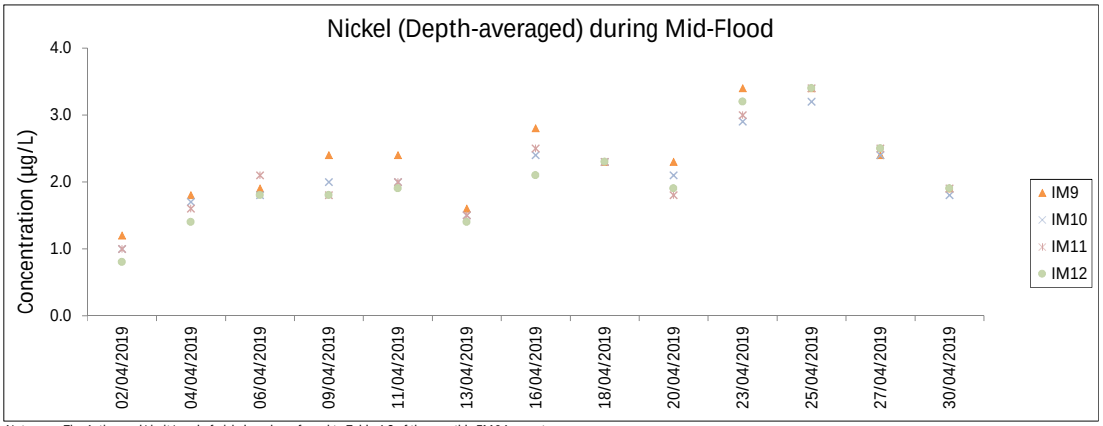


Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.
All chromium results in the reporting period was below the reporting limit 0.2 µg/L.









Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.
All chromium results in the reporting period was below the reporting limit 0.2 µg/L.
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
Weather conditions during monitoring are presented in the data tables above.
QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Chinese White Dolphin Monitoring Result

CWD Small Vessel Line-transect Survey — Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
11-Feb-19	NWL	3	56.030	WINTER	32166	3RS ET	P
11-Feb-19	NWL	4	5.200	WINTER	32166	3RS ET	P
11-Feb-19	NWL	5	1.800	WINTER	32166	3RS ET	P
11-Feb-19	NWL	3	9.170	WINTER	32166	3RS ET	S
11-Feb-19	NWL	4	3.300	WINTER	32166	3RS ET	S
12-Feb-19	NEL	1	24.190	WINTER	32166	3RS ET	P
12-Feb-19	NEL	2	12.260	WINTER	32166	3RS ET	P
12-Feb-19	NEL	3	1.200	WINTER	32166	3RS ET	P
12-Feb-19	NEL	1	6.760	WINTER	32166	3RS ET	S
12-Feb-19	NEL	2	2.690	WINTER	32166	3RS ET	S
13-Feb-19	AW	2	5.048	WINTER	32166	3RS ET	P
13-Feb-19	WL	1	1.980	WINTER	32166	3RS ET	P
13-Feb-19	WL	2	18.238	WINTER	32166	3RS ET	P
13-Feb-19	WL	1	1.410	WINTER	32166	3RS ET	S
13-Feb-19	WL	2	7.462	WINTER	32166	3RS ET	S
18-Feb-19	NEL	3	15.320	WINTER	32166	3RS ET	P
18-Feb-19	NEL	4	12.170	WINTER	32166	3RS ET	P
18-Feb-19	NEL	5	9.810	WINTER	32166	3RS ET	P
18-Feb-19	NEL	3	8.270	WINTER	32166	3RS ET	S
18-Feb-19	NEL	4	1.930	WINTER	32166	3RS ET	S
20-Feb-19	SWL	2	41.440	WINTER	32166	3RS ET	P
20-Feb-19	SWL	3	11.900	WINTER	32166	3RS ET	P
20-Feb-19	SWL	2	15.540	WINTER	32166	3RS ET	S
20-Feb-19	SWL	3	1.100	WINTER	32166	3RS ET	S
21-Feb-19	SWL	2	9.600	WINTER	32166	3RS ET	P
21-Feb-19	SWL	3	44.290	WINTER	32166	3RS ET	P
21-Feb-19	SWL	4	1.000	WINTER	32166	3RS ET	P
21-Feb-19	SWL	2	5.100	WINTER	32166	3RS ET	S
21-Feb-19	SWL	3	10.810	WINTER	32166	3RS ET	S
22-Feb-19	NWL	2	15.900	WINTER	32166	3RS ET	P
22-Feb-19	NWL	3	43.000	WINTER	32166	3RS ET	P
22-Feb-19	NWL	4	4.900	WINTER	32166	3RS ET	P
22-Feb-19	NWL	2	4.100	WINTER	32166	3RS ET	S
22-Feb-19	NWL	3	3.500	WINTER	32166	3RS ET	S
22-Feb-19	NWL	4	3.700	WINTER	32166	3RS ET	S
26-Feb-19	AW	3	2.920	WINTER	32166	3RS ET	P
26-Feb-19	AW	4	1.950	WINTER	32166	3RS ET	P
26-Feb-19	WL	2	5.060	WINTER	32166	3RS ET	P
26-Feb-19	WL	3	12.840	WINTER	32166	3RS ET	P
26-Feb-19	WL	4	2.280	WINTER	32166	3RS ET	P
26-Feb-19	WL	2	3.960	WINTER	32166	3RS ET	S
26-Feb-19	WL	3	6.840	WINTER	32166	3RS ET	S
6-Mar-19	NWL	2	7.760	SPRING	32166	3RS ET	P
6-Mar-19	NWL	3	45.090	SPRING	32166	3RS ET	P
6-Mar-19	NWL	4	9.860	SPRING	32166	3RS ET	P
6-Mar-19	NWL	2	2.390	SPRING	32166	3RS ET	S
6-Mar-19	NWL	3	9.400	SPRING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
8-Mar-19	NEL	2	7.210	SPRING	32166	3RS ET	P
8-Mar-19	NEL	3	15.470	SPRING	32166	3RS ET	P
8-Mar-19	NEL	4	14.300	SPRING	32166	3RS ET	P
8-Mar-19	NEL	2	1.100	SPRING	32166	3RS ET	S
8-Mar-19	NEL	3	9.020	SPRING	32166	3RS ET	S
12-Mar-19	AW	2	4.790	SPRING	32166	3RS ET	P
12-Mar-19	WL	2	17.206	SPRING	32166	3RS ET	P
12-Mar-19	WL	3	1.200	SPRING	32166	3RS ET	P
12-Mar-19	WL	2	8.012	SPRING	32166	3RS ET	S
12-Mar-19	WL	3	0.890	SPRING	32166	3RS ET	S
13-Mar-19	NWL	2	25.190	SPRING	32166	3RS ET	P
13-Mar-19	NWL	3	37.650	SPRING	32166	3RS ET	P
13-Mar-19	NWL	2	9.060	SPRING	32166	3RS ET	S
13-Mar-19	NWL	3	2.600	SPRING	32166	3RS ET	S
15-Mar-19	NEL	2	22.660	SPRING	32166	3RS ET	P
15-Mar-19	NEL	3	15.030	SPRING	32166	3RS ET	P
15-Mar-19	NEL	2	8.010	SPRING	32166	3RS ET	S
15-Mar-19	NEL	3	1.700	SPRING	32166	3RS ET	S
21-Mar-19	SWL	1	6.680	SPRING	32166	3RS ET	P
21-Mar-19	SWL	2	49.790	SPRING	32166	3RS ET	P
21-Mar-19	SWL	3	4.000	SPRING	32166	3RS ET	P
21-Mar-19	SWL	2	9.960	SPRING	32166	3RS ET	S
22-Mar-19	SWL	1	3.850	SPRING	32166	3RS ET	P
22-Mar-19	SWL	2	56.301	SPRING	32166	3RS ET	P
22-Mar-19	SWL	2	9.689	SPRING	32166	3RS ET	S
25-Mar-19	AW	3	4.650	SPRING	32166	3RS ET	P
25-Mar-19	WL	2	3.400	SPRING	32166	3RS ET	P
25-Mar-19	WL	3	12.070	SPRING	32166	3RS ET	P
25-Mar-19	WL	4	4.800	SPRING	32166	3RS ET	P
25-Mar-19	WL	2	4.640	SPRING	32166	3RS ET	S
25-Mar-19	WL	3	6.190	SPRING	32166	3RS ET	S
2-Apr-19	NEL	2	3.760	SPRING	32166	3RS ET	P
2-Apr-19	NEL	3	32.560	SPRING	32166	3RS ET	P
2-Apr-19	NEL	4	1.300	SPRING	32166	3RS ET	P
2-Apr-19	NEL	2	2.950	SPRING	32166	3RS ET	S
2-Apr-19	NEL	3	6.330	SPRING	32166	3RS ET	S
3-Apr-19	AW	3	4.860	SPRING	32166	3RS ET	P
3-Apr-19	WL	2	16.868	SPRING	32166	3RS ET	P
3-Apr-19	WL	3	6.320	SPRING	32166	3RS ET	P
3-Apr-19	WL	2	5.681	SPRING	32166	3RS ET	S
3-Apr-19	WL	3	3.930	SPRING	32166	3RS ET	S
9-Apr-19	SWL	2	4.100	SPRING	32166	3RS ET	P
9-Apr-19	SWL	3	50.530	SPRING	32166	3RS ET	P
9-Apr-19	SWL	4	1.000	SPRING	32166	3RS ET	P
9-Apr-19	SWL	2	1.200	SPRING	32166	3RS ET	S
9-Apr-19	SWL	3	13.470	SPRING	32166	3RS ET	S
11-Apr-19	SWL	2	50.110	SPRING	32166	3RS ET	P
11-Apr-19	SWL	3	5.000	SPRING	32166	3RS ET	P
11-Apr-19	SWL	2	13.420	SPRING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
11-Apr-19	SWL	3	2.340	SPRING	32166	3RS ET	S
17-Apr-19	AW	2	4.700	SPRING	32166	3RS ET	P
17-Apr-19	WL	1	3.160	SPRING	32166	3RS ET	P
17-Apr-19	WL	2	6.754	SPRING	32166	3RS ET	P
17-Apr-19	WL	3	13.978	SPRING	32166	3RS ET	P
17-Apr-19	WL	1	2.450	SPRING	32166	3RS ET	S
17-Apr-19	WL	2	2.196	SPRING	32166	3RS ET	S
17-Apr-19	WL	3	3.312	SPRING	32166	3RS ET	S
18-Apr-19	NEL	2	3.820	SPRING	32166	3RS ET	P
18-Apr-19	NEL	3	32.970	SPRING	32166	3RS ET	P
18-Apr-19	NEL	2	3.510	SPRING	32166	3RS ET	S
18-Apr-19	NEL	3	6.500	SPRING	32166	3RS ET	S
24-Apr-19	NWL	2	24.330	SPRING	32166	3RS ET	P
24-Apr-19	NWL	3	38.410	SPRING	32166	3RS ET	P
24-Apr-19	NWL	2	7.110	SPRING	32166	3RS ET	S
24-Apr-19	NWL	3	5.150	SPRING	32166	3RS ET	S
25-Apr-19	NWL	2	15.581	SPRING	32166	3RS ET	P
25-Apr-19	NWL	3	45.251	SPRING	32166	3RS ET	P
25-Apr-19	NWL	4	1.100	SPRING	32166	3RS ET	P
25-Apr-19	NWL	2	4.530	SPRING	32166	3RS ET	S
25-Apr-19	NWL	3	7.379	SPRING	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months (i.e. February 2019 and March 2019) 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.	P/S
11-Feb-19	1	1153	CWD	2	NWL	3	1	ON	3RS ET	22.4017	113.8877	WINTER	NONE	P
13-Feb-19	1	0941	CWD	6	AW	2	77	ON	3RS ET	22.2907	113.8745	WINTER	NONE	P
13-Feb-19	2	1042	CWD	2	WL	2	114	ON	3RS ET	22.2690	113.8480	WINTER	NONE	P
13-Feb-19	3	1203	CWD	1	WL	2	1	ON	3RS ET	22.2074	113.8406	WINTER	GILLNETTER	S
20-Feb-19	1	1033	FP	2	SWL	2	7	ON	3RS ET	22.2022	113.9362	WINTER	NONE	P
20-Feb-19	2	1511	CWD	1	SWL	2	127	ON	3RS ET	22.1862	113.8488	WINTER	NONE	P
21-Feb-19	1	1313	FP	2	SWL	2	3	ON	3RS ET	22.1482	113.8935	WINTER	NONE	S
26-Feb-19	1	1031	CWD	2	WL	3	64	ON	3RS ET	22.2603	113.8506	WINTER	NONE	P
06-Mar-19	1	1204	CWD	3	NWL	2	244	ON	3RS ET	22.3957	113.8876	SPRING	NONE	P
12-Mar-19	1	1014	CWD	1	WL	2	434	ON	3RS ET	22.2760	113.8506	SPRING	NONE	S
12-Mar-19	2	1026	CWD	5	WL	2	9	ON	3RS ET	22.2718	113.8455	SPRING	NONE	S
12-Mar-19	3	1051	CWD	11	WL	2	313	ON	3RS ET	22.2684	113.8518	SPRING	NONE	P
12-Mar-19	4	1137	CWD	1	WL	2	53	ON	3RS ET	22.2412	113.8370	SPRING	NONE	P
12-Mar-19	5	1216	CWD	4	WL	2	295	ON	3RS ET	22.2142	113.8286	SPRING	NONE	P
13-Mar-19	1	1032	CWD	2	NWL	2	76	ON	3RS ET	22.2866	113.8699	SPRING	NONE	P
21-Mar-19	1	1039	FP	6	SWL	1	230	ON	3RS ET	22.1842	113.9354	SPRING	NONE	P
21-Mar-19	2	1220	FP	3	SWL	2	103	ON	3RS ET	22.1539	113.9068	SPRING	NONE	P
22-Mar-19	1	1032	FP	3	SWL	2	81	ON	3RS ET	22.1998	113.9356	SPRING	NONE	P
22-Mar-19	2	1041	FP	5	SWL	2	103	ON	3RS ET	22.1822	113.9365	SPRING	NONE	P
22-Mar-19	3	1114	FP	9	SWL	2	296	ON	3RS ET	22.1637	113.9278	SPRING	NONE	P
22-Mar-19	4	1207	FP	2	SWL	2	2	ON	3RS ET	22.1482	113.9175	SPRING	NONE	P
22-Mar-19	5	1413	FP	1	SWL	2	199	ON	3RS ET	22.1820	113.8780	SPRING	NONE	P
22-Mar-19	6	1425	FP	1	SWL	2	45	ON	3RS ET	22.1766	113.8781	SPRING	NONE	P
22-Mar-19	7	1433	FP	2	SWL	2	70	ON	3RS ET	22.1626	113.8784	SPRING	NONE	P
22-Mar-19	8	1447	FP	4	SWL	2	85	ON	3RS ET	22.1710	113.8688	SPRING	NONE	P
25-Mar-19	1	1052	CWD	6	WL	2	206	ON	3RS ET	22.2504	113.8372	SPRING	NONE	P
3-Apr-19	1	1028	CWD	1	WL	2	355	ON	3RS ET	22.2658	113.8586	SPRING	NONE	S
3-Apr-19	2	1043	CWD	1	WL	2	202	ON	3RS ET	22.2603	113.8457	SPRING	NONE	P
3-Apr-19	3	1148	CWD	21	WL	3	728	ON	3RS ET	22.2187	113.8197	SPRING	PAIR TRAWLER	S
11-Apr-19	1	1041	FP	4	SWL	3	256	ON	3RS ET	22.1688	113.8569	SPRING	NONE	S
17-Apr-19	1	1043	CWD	3	WL	2	195	ON	3RS ET	22.2499	113.8366	SPRING	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
17-Apr-19	2	1059	CWD	1	WL	2	474	ON	3RS ET	22.2413	113.8370	SPRING	NONE	P
17-Apr-19	3	1114	CWD	2	WL	2	567	ON	3RS ET	22.2390	113.8271	SPRING	NONE	S
17-Apr-19	4	1127	CWD	4	WL	2	55	ON	3RS ET	22.2358	113.8250	SPRING	NONE	S
17-Apr-19	5	1143	CWD	3	WL	2	224	ON	3RS ET	22.2322	113.8308	SPRING	NONE	P
17-Apr-19	6	1200	CWD	4	WL	3	246	ON	3RS ET	22.2230	113.8306	SPRING	NONE	P
24-Apr-19	1	1038	CWD	1	NWL	3	33	ON	3RS ET	22.2711	113.8716	SPRING	NONE	S
25-Apr-19	1	0946	CWD	3	NWL	2	182	ON	3RS ET	22.3854	113.8697	SPRING	NONE	P
25-Apr-19	2	1000	CWD	2	NWL	2	319	ON	3RS ET	22.3797	113.8705	SPRING	NONE	P
25-Apr-19	3	1055	CWD	3	NWL	3	473	ON	3RS ET	22.2795	113.8699	SPRING	NONE	P

Abbreviations: STG# = Sighting Number; GP SZ = 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; P/S = Primary Transect / Secondary Transect

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. February 2019 and March 2019) are presented for reference only. No relevant figure or text will be mentioned in this 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 April 2019 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 454.520 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 13 on-effort sightings and total number of 49 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in April 2019 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in April 2019

$$STG = \frac{13}{454.520}\ x\ 100 = 2.86$$

Encounter Rate by Number of Dolphins (ANI) in April 2019

$$ANI = \frac{49}{454.520}\ x\ 100 = 10.78$$

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

A total of 1285.106 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 27 on-effort sightings and total number of 96 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)

$$STG = \frac{27}{1285.106}\ x\ 100 = 2.10$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{96}{1285.106}\ x\ 100 = 7.47$$

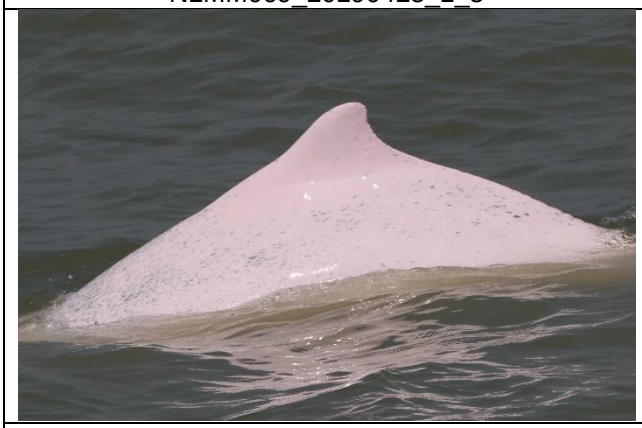
CWD Small Vessel Line-transect Survey **Photo Identification**

WLMM043_20190403_1_5	NLMM016_20190403_2_4
NLMM060_20190403_3_1	SLMM002_20190403_3_3
SLMM014_20190403_3_4	SLMM022_20190403_3_9
SLMM034_20190403_3_9	SLMM050_20190403_3_4

SLMM059_20190403_3_5	WLMM001_20190403_3_4
WLMM003_20190403_3_3	WLMM004_20190403_3_2_Lower
WLMM007_20190403_3_2	WLMM030_20190403_3_5
WLMM032_20190403_3_9	WLMM039_20190403_3_4

WLMM054_20190403_3_7	WLMM056_20190403_3_6
WLMM063_20190403_3_3	WLMM069_20190403_3_2
WLMM120_20190403_3_2	WLMM132_20190403_3_6
NLMM004_20190417_1_4	NLMM065_20190417_1_6

WLMM043_20190417_1_1	WLMM019_20190417_2_2
WLMM046_20190417_3_6	NLMM016_20190417_4_3
WLMM086_20190417_4_8	WLMM090_20190417_4_6
WLMM043_20190417_5_3	WLMM039_20190417_6_20

WLMM118_20190417_6_6	WLMM115_20190424_1_3
NLMM069_20190425_1_5	NLMM070_20190425_1_2
	
WLMM127_20190425_1_3	NLMM039_20190425_2_5
NLMM063_20190425_3_3	

CWD Land-based Theodolite Tracking Survey

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
4/Apr/19	Lung Kwu Chau	8:50	14:50	6:00	2-3	3	1	1
10/Apr/19	Lung Kwu Chau	8:53	14:53	6:00	2	2	0	-
24/Apr/19	Sha Chau	9:04	15:04	6:00	2	2	0	-

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

Appendix D. Status of Environmental Permits and Licences

	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	Site Office	397151	Receipt acknowledged by EPD on 15 Jan 2016
		Stockpiling Area	398015	Receipt acknowledged by EPD on 18 Jan 2016
	Discharge License under WPCO	Stockpiling Area	WT00024250-2016	Approved on 25 Apr 2016 to 30 Apr 2021
	Registration as Chemical Waste Producer	Stockpiling Area	WPN 5213-951-L2902-02	Registration was updated 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-RS0130-19	Valid until 13 Aug 2019
	Discharge License under WPCO	Works area of 3201	WT00032628-2018	Valid from to 19 Dec 2018 to 31 Dec 2023
	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	439729	Receipt acknowledged by EPD on 23 Nov 2018
	Registration as Chemical Waste Producer	Works area of 3202	WPN 5213-951-S3967-01	Registration was updated on 23 May 2017
	Discharge License under WPCO	Works area of 3202	WT00028293-2017	Valid from 12 Jun 2017 to 30 Jun 2022
	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-RS0949-18	Valid until 19 Apr 2019
	Registration as Chemical Waste Producer	Works area of 3203	WPN 5213-951-S3954-01	Registration was updated on 12 Dec 2016
	Discharge License under WPCO	Works area of 3203	WT00028251-2017	Valid from 9 Jun 2017 to 30 Jun 2022

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal		A/C 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
	Registration as Chemical Waste Producer	Works Area of 3204	WPN 5213-951-C4102-01	Completion of Registration on 15 Sep 2016
		Site Office of 3204	WPN 5213-951-C4102-02	Completion of Registration on 17 Mar 2017
	Discharge License under WPCO	Works area of 3204	WT00028245-2017	Valid from 5 Jun 2017 to 30 Jun 2022
	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	Registration was updated on 25 Sep 2017
		Works Area of 3205	WPN 5111-421-B2509-01	Registration was updated on 25 Sep 2017
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0132-19	Superseded by GW-RS0303-19 on 10 Apr 2019
			GW-RS0303-19	Valid until 9 Oct 2019
	Discharge License under WPCO	Works area of 3205	WT00028370-2017	Valid from 21 Jun 2017 to 30 Jun 2022
	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
		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-RS0187-19	Superseded by GW-RS0352-19 on 29 Apr 2019
			GW-RS0352-19	Valid until 28 Oct 2019
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3301	Notification of Construction Work under APCO	Works area of 3301	415821	Receipt acknowledged by EPD on 19 Apr 2017
	Registration as Chemical Waste Producer	Works area of 3301	WPN 5213-951-F2718-02	Completion of Registration on 9 Jun 2017
	Bill Account for disposal	Works area of 3301	A/C 7027728	Approval granted from EPD on 8 May 2017
	Construction Noise Permit (General Works)	Works area of 3301	GW-RS0923-18	Valid until 11 Apr 2019
		(Cable ducting works)	GW-RS0266-19	Valid from 12 Apr 2019 to 11 Oct 2019

Contract No.	Description	Location	Permit/ Reference No.	Status
		Works area of 3301	GW-RS0937-18	Valid until 11 Apr 2019
			GW-RS0267-19	Valid from 12 Apr 2019 to 11 Oct 2019
3302	Notification of Construction Work under APCO	Works area of 3302	440222	Receipt acknowledged by EPD on 10 Dec 2018
		Staging area of 3302	2018CES1	Receipt acknowledged by EPD on 21 Dec 2018
	Registration as Chemical Waste Producer	Works area of 3302	5296-951-C4331-01	Completion of Registration on 4 Jan 2019
	Bill Account for disposal	Works area of 3302	A/C 7032881	Approval granted from EPD on 8 Jan 2019
	Construction Noise Permit (General Works)	Works area of 3302	GW-RS0096-19	Valid until 10 Aug 2019
3402	Notification of Construction Work under APCO	Works area of 3402	440808	Receipt acknowledged by EPD on 31 Dec 2018
		Stockpiling area of 3402	441960	Receipt acknowledged by EPD on 8 Feb 2019
	Registration as Chemical Waste Producer	Works area of 3402	WPN 5213-951-W1172-05	Registration was updated on 25 Feb 2019
	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 27 Nov 2018
	Construction Noise Permit (General Works)	Works area of 3402	GW-RS0207-19	Valid until 14 Aug 2019
3501	Notification of Construction Work under APCO	Works area of 3501	434640	Receipt acknowledged by EPD on 13 Jun 2018
	Registration as Chemical Waste Producer	Works area of 3501	WPN 5213-951-B2520-02	Completion of Registration on 25 Jul 2017
	Discharge License under WPCO	Works area of 3501	WT00031400-2018	Valid from 30 Aug 2018 to 31 Aug 2023
	Bill Account for disposal	Works area of 3501	A/C 7028144	Approval granted from EPD on 23 Jun 2017
	Construction Noise Permit (General Works)	Works area of 3501	GW-RS0184-19	Valid until 4 Sep 2019
3502	Notification of Construction Work under APCO	Works area of 3502	437766	Receipt acknowledged by EPD on 26 Sep 2018
	Registration as Chemical Waste Producer	Works area of 3502	WPN 5213-951-B2520-01	Completion of Registration on 3 Jul 2017
	Bill Account for disposal	Works area of 3502	A/C 7028050	Approval granted from EPD on 21 Jun 2017
	Construction Noise Permit (General Works)	Works area of 3502	GW-RS0191-19	Valid until 10 Sep 2019
3503	Notification of Construction Work under APCO	Works area of 3503	435180	Receipt acknowledged by EPD on 29 Jun 2018
		Stockpiling area of 3503	439777	Receipt acknowledged by EPD on 26 Nov 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3503	WPN 5113-951-L2845-02	Completion of Registration on 8 Jan 2018
	Discharge License under WPCO	Works area of 3503	WT00031258-2018	Valid from 7 Jun 2018 to 30 Jun 2023
		Stockpiling area of 3503	WT00031826-2018	Valid from 18 Sep 2018 to 30 Sep 2023
	Bill Account for disposal	Works area of 3503	A/C 7029665	Approval granted from EPD on 27 Dec 2017
	Construction Noise Permit (General Works)	Works area of 3503	GW-RS0045-19	Valid until 20 Jul 2019
		Stockpiling area of 3503	GW-RS1031-18	Valid until 13 May 2019
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017
	Registration as Chemical Waste Producer	Works area of 3602	WPN 5296-951-N2673-01	Completion of Registration on 9 Oct 2017
		Site office of 3602	WPN 5296-951-N2673-02	Completion of Registration on 11 Dec 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 2018
	Registration as Chemical Waste Producer	Works area of 3603	WPN 5296-951-S4069-01	Completion of Registration on 22 Jan 2018
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3603	GW-RS1098-18	Superseded by GW-RS0313-19 on 26 Apr 2019
			GW-RS0313-19	Valid until 25 Oct 2019
3801	Notification of Construction Work under APCO	Works area of 3801	418345	Receipt acknowledged by EPD on 26 Jun 2017
			430372	Receipt acknowledged by EPD on 2 Feb 2018
			435652	Receipt acknowledged by EPD on 16 Jul 2018
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951-C1169-53	Completion of Registration on 14 Aug 2018
	Discharge License under WPCO	Works and stockpiling area of 3801	WT00029535-2017	Valid from 24 Nov 2017 to 30 Nov 2022
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit (General Works)	Works and stockpiling area of 3801	GW-RS0068-19	Valid until 24 Jul 2019
		Works area of 3801 (Drill and grouting works)	GW-RS0245-19	Valid until 26 Jun 2019

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, CWD Monitoring

		Total no. recorded in the reporting period	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 period	1	0	0
From 28 December 2015 to end of the reporting period	17	1	1

Appendix F. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 April 2019)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 April 2019)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	08:15	8S210	XZM	Arrival	13	-	-
01-Apr	08:53	3A061	YFT	Arrival	12.2	-	-
01-Apr	10:39	8S212	XZM	Arrival	11.9	-	-
01-Apr	10:43	3A081	ZUI	Arrival	13.1	-	-
01-Apr	11:00	8S121	XZM	Departure	11.6	-	-
01-Apr	11:07	3A063	YFT	Arrival	11.9	-	-
01-Apr	12:15	3A168	YFT	Departure	12.8	-	-
01-Apr	12:19	3A181	ZUI	Departure	12.7	-	-
01-Apr	12:40	8S215	XZM	Arrival	12.7	-	-
01-Apr	12:54	3A064	YFT	Arrival	12.9	-	-
01-Apr	13:12	8S123	XZM	Departure	12.4	-	-
01-Apr	13:42	3A082	ZUI	Arrival	12	-	-
01-Apr	14:14	3A164	YFT	Departure	12.9	-	-
01-Apr	14:21	3A182	ZUI	Departure	11.9	-	-
01-Apr	15:03	3A065	YFT	Arrival	12.3	-	-
01-Apr	16:13	3A167	YFT	Departure	12.5	-	-
01-Apr	16:35	8S218	XZM	Arrival	11.2	-	-
01-Apr	16:47	3A083	ZUI	Arrival	12	-	-
01-Apr	16:57	3A067	YFT	Arrival	12.7	-	-
01-Apr	17:03	3A183	ZUI	Departure	13.5	-	-
01-Apr	17:07	8S126	XZM	Departure	12.4	-	-
01-Apr	18:57	3A166	YFT	Departure	13.5	-	-
01-Apr	19:53	3A084	ZUI	Arrival	12.8	-	-
01-Apr	20:12	3A185	ZUI	Departure	13.2	-	-
01-Apr	20:44	8S2113	XZM	Arrival	12.8	-	-
01-Apr	22:11	8S520	XZM	Departure	11	-	-
02-Apr	08:20	8S210	XZM	Arrival	11.6	-	-
02-Apr	08:53	3A061	YFT	Arrival	12.9	-	-
02-Apr	10:30	8S212	XZM	Arrival	13.2	-	-
02-Apr	10:45	3A081	ZUI	Arrival	12.9	-	-
02-Apr	11:06	8S121	XZM	Departure	12.9	-	-
02-Apr	11:10	3A063	YFT	Arrival	11.5	-	-
02-Apr	12:12	3A181	ZUI	Departure	12.7	-	-
02-Apr	12:21	3A168	YFT	Departure	12.1	-	-
02-Apr	12:35	8S215	XZM	Arrival	12.4	-	-
02-Apr	12:57	3A064	YFT	Arrival	12.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
02-Apr	13:15	8S123	XZM	Departure	12.2	-	-
02-Apr	13:42	3A082	ZUI	Arrival	12.7	-	-
02-Apr	14:14	3A164	YFT	Departure	12.4	-	-
02-Apr	14:16	3A182	ZUI	Departure	12.8	-	-
02-Apr	14:55	3A065	YFT	Arrival	11.1	-	-
02-Apr	16:13	3A167	YFT	Departure	12.1	-	-
02-Apr	16:40	8S218	XZM	Arrival	12.1	-	-
02-Apr	16:43	3A083	ZUI	Arrival	12.1	-	-
02-Apr	16:57	3A067	YFT	Arrival	12.1	-	-
02-Apr	17:02	3A183	ZUI	Departure	13.4	-	-
02-Apr	17:05	8S126	XZM	Departure	13.2	-	-
02-Apr	19:03	3A166	YFT	Departure	13.1	-	-
02-Apr	19:53	3A084	ZUI	Arrival	12.7	-	-
02-Apr	20:06	3A185	ZUI	Departure	13.7	-	-
02-Apr	20:51	8S2113	XZM	Arrival	11.4	-	-
02-Apr	22:13	8S520	XZM	Departure	12.8	-	-
03-Apr	08:23	8S210	XZM	Arrival	10.1	-	-
03-Apr	08:53	3A061	YFT	Arrival	11.7	-	-
03-Apr	10:35	8S212	XZM	Arrival	12.4	-	-
03-Apr	10:48	3A081	ZUI	Arrival	13	-	-
03-Apr	10:57	3A063	YFT	Arrival	12.1	-	-
03-Apr	11:21	8S121	XZM	Departure	11.5	-	-
03-Apr	12:13	3A168	YFT	Departure	10.8	-	-
03-Apr	12:15	3A181	ZUI	Departure	13	-	-
03-Apr	12:41	8S215	XZM	Arrival	12.2	-	-
03-Apr	12:54	3A064	YFT	Arrival	12.1	<= 5	< 1min
03-Apr	13:16	8S123	XZM	Departure	12.6	-	-
03-Apr	13:39	3A082	ZUI	Arrival	13.1	-	-
03-Apr	14:11	3A182	ZUI	Departure	12.5	-	-
03-Apr	14:12	3A164	YFT	Departure	11.7	-	-
03-Apr	15:17	3A065	YFT	Arrival	12.1	-	-
03-Apr	16:17	3A167	YFT	Departure	12.8	-	-
03-Apr	16:41	8S218	XZM	Arrival	12.1	-	-
03-Apr	16:42	3A083	ZUI	Arrival	12.3	-	-
03-Apr	16:58	3A067	YFT	Arrival	11.9	-	-
03-Apr	17:01	3A183	ZUI	Departure	13.5	-	-
03-Apr	17:06	8S126	XZM	Departure	12.1	-	-
03-Apr	19:00	3A166	YFT	Departure	12.5	-	-
03-Apr	19:53	3A084	ZUI	Arrival	12.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	20:06	3A185	ZUI	Departure	13.7	-	-
03-Apr	20:52	8S2113	XZM	Arrival	11.8	-	-
03-Apr	22:13	8S520	XZM	Departure	12.2	-	-
04-Apr	08:21	8S210	XZM	Arrival	11.7	-	-
04-Apr	08:57	3A061	YFT	Arrival	11.9	-	-
04-Apr	10:32	8S212	XZM	Arrival	13.1	-	-
04-Apr	10:46	3A081	ZUI	Arrival	12.8	-	-
04-Apr	10:55	3A063	YFT	Arrival	11.4	-	-
04-Apr	11:05	8S121	XZM	Departure	13.6	-	-
04-Apr	12:10	3A168	YFT	Departure	11.5	-	-
04-Apr	12:11	3A181	ZUI	Departure	12.6	-	-
04-Apr	12:33	8S215	XZM	Arrival	12.6	-	-
04-Apr	12:55	3A064	YFT	Arrival	11.6	-	-
04-Apr	13:15	8S123	XZM	Departure	12.7	-	-
04-Apr	13:40	3A082	ZUI	Arrival	12.7	-	-
04-Apr	14:16	3A182	ZUI	Departure	12.4	-	-
04-Apr	14:18	3A164	YFT	Departure	12.2	-	-
04-Apr	14:54	3A065	YFT	Arrival	11.3	-	-
04-Apr	16:16	3A167	YFT	Departure	11.6	-	-
04-Apr	16:39	8S218	XZM	Arrival	12.7	-	-
04-Apr	16:43	3A083	ZUI	Arrival	13	-	-
04-Apr	17:01	3A067	YFT	Arrival	12.2	-	-
04-Apr	17:03	3A183	ZUI	Departure	13	-	-
04-Apr	17:04	8S126	XZM	Departure	13	-	-
04-Apr	19:11	3A166	YFT	Departure	12	-	-
04-Apr	19:52	3A084	ZUI	Arrival	12.3	-	-
04-Apr	20:19	3A185	ZUI	Departure	13.7	-	-
04-Apr	20:58	8S2113	XZM	Arrival	11.4	-	-
04-Apr	22:13	8S520	XZM	Departure	13.4	-	-
05-Apr	08:22	8S210	XZM	Arrival	12.1	-	-
05-Apr	08:52	3A061	YFT	Arrival	12.3	-	-
05-Apr	10:36	8S212	XZM	Arrival	13.1	-	-
05-Apr	10:47	3A081	ZUI	Arrival	13	-	-
05-Apr	10:54	3A063	YFT	Arrival	11.5	-	-
05-Apr	11:02	8S121	XZM	Departure	13.6	-	-
05-Apr	12:12	3A181	ZUI	Departure	12.3	-	-
05-Apr	12:13	3A168	YFT	Departure	8.2 **	-	-
05-Apr	12:35	8S215	XZM	Arrival	13	-	-
05-Apr	12:54	3A064	YFT	Arrival	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	13:16	8S123	XZM	Departure	12.4	-	-
05-Apr	13:44	3A082	ZUI	Arrival	12.9	-	-
05-Apr	14:17	3A164	YFT	Departure	13.1	-	-
05-Apr	14:19	3A182	ZUI	Departure	11.6	-	-
05-Apr	14:56	3A065	YFT	Arrival	11.3	-	-
05-Apr	16:13	3A167	YFT	Departure	10.9	-	-
05-Apr	16:33	8S218	XZM	Arrival	12.2	-	-
05-Apr	16:41	3A083	ZUI	Arrival	13.2	-	-
05-Apr	16:55	3A067	YFT	Arrival	12.5	-	-
05-Apr	16:58	3A183	ZUI	Departure	12.6	-	-
05-Apr	16:59	8S126	XZM	Departure	12.8	-	-
05-Apr	19:03	3A166	YFT	Departure	12.5	-	-
05-Apr	19:51	3A084	ZUI	Arrival	12.5	-	-
05-Apr	20:04	3A185	ZUI	Departure	13.8	-	-
05-Apr	20:52	8S2113	XZM	Arrival	12.9	-	-
05-Apr	22:08	8S520	XZM	Departure	12.9	-	-
06-Apr	08:14	8S210	XZM	Arrival	12.1	-	-
06-Apr	09:01	3A061	YFT	Arrival	11.7	-	-
06-Apr	10:39	8S212	XZM	Arrival	12	-	-
06-Apr	10:44	3A081	ZUI	Arrival	13.1	-	-
06-Apr	10:56	3A063	YFT	Arrival	11.6	-	-
06-Apr	11:04	8S121	XZM	Departure	12.3	-	-
06-Apr	12:13	3A181	ZUI	Departure	12.3	-	-
06-Apr	12:17	3A168	YFT	Departure	10	-	-
06-Apr	12:30	8S215	XZM	Arrival	13.2	-	-
06-Apr	12:53	3A064	YFT	Arrival	11.8	-	-
06-Apr	13:17	8S123	XZM	Departure	12.7	-	-
06-Apr	13:42	3A082	ZUI	Arrival	12	-	-
06-Apr	14:09	3A182	ZUI	Departure	11.8	-	-
06-Apr	14:16	3A164	YFT	Departure	11.2	-	-
06-Apr	14:58	3A065	YFT	Arrival	11.2	-	-
06-Apr	16:15	3A167	YFT	Departure	11.9	-	-
06-Apr	16:36	8S218	XZM	Arrival	12.5	-	-
06-Apr	16:41	3A083	ZUI	Arrival	13	-	-
06-Apr	16:54	3A067	YFT	Arrival	11.6	-	-
06-Apr	16:58	3A183	ZUI	Departure	12.4	-	-
06-Apr	17:00	8S126	XZM	Departure	13.2	-	-
06-Apr	19:06	3A166	YFT	Departure	13.2	-	-
06-Apr	19:52	3A084	ZUI	Arrival	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
06-Apr	20:03	3A185	ZUI	Departure	13.6	-	-
06-Apr	20:48	8S2113	XZM	Arrival	11.7	-	-
06-Apr	22:13	8S520	XZM	Departure	10.9	-	-
07-Apr	08:22	8S210	XZM	Arrival	11.4	-	-
07-Apr	08:56	3A061	YFT	Arrival	11.9	-	-
07-Apr	10:39	8S212	XZM	Arrival	11.7	-	-
07-Apr	10:44	3A081	ZUI	Arrival	13.1	-	-
07-Apr	10:55	3A063	YFT	Arrival	12.4	-	-
07-Apr	11:07	8S121	XZM	Departure	12.9	-	-
07-Apr	12:19	3A181	ZUI	Departure	12.3	-	-
07-Apr	12:25	3A168	YFT	Departure	12.1	-	-
07-Apr	12:39	8S215	XZM	Arrival	11.5	-	-
07-Apr	12:55	3A064	YFT	Arrival	12.1	-	-
07-Apr	13:25	8S123	XZM	Departure	12.5	-	-
07-Apr	13:46	3A082	ZUI	Arrival	12.7	-	-
07-Apr	14:17	3A164	YFT	Departure	12.2	-	-
07-Apr	14:21	3A182	ZUI	Departure	11.9	-	-
07-Apr	14:54	3A065	YFT	Arrival	12.5	-	-
07-Apr	16:18	3A167	YFT	Departure	12.4	-	-
07-Apr	16:38	8S218	XZM	Arrival	12	-	-
07-Apr	16:51	3A083	ZUI	Arrival	13	-	-
07-Apr	17:01	3A067	YFT	Arrival	11.9	-	-
07-Apr	17:06	3A183	ZUI	Departure	12.1	-	-
07-Apr	17:08	8S126	XZM	Departure	12.5	-	-
07-Apr	19:03	3A166	YFT	Departure	12.8	-	-
07-Apr	19:53	3A084	ZUI	Arrival	12.6	-	-
07-Apr	20:06	3A185	ZUI	Departure	13.2	-	-
07-Apr	20:51	8S2113	XZM	Arrival	11.7	-	-
07-Apr	22:13	8S520	XZM	Departure	12.1	-	-
08-Apr	08:19	8S210	XZM	Arrival	12	-	-
08-Apr	08:55	3A061	YFT	Arrival	12	-	-
08-Apr	10:36	8S212	XZM	Arrival	12.3	-	-
08-Apr	10:42	3A081	ZUI	Arrival	13	-	-
08-Apr	10:51	3A063	YFT	Arrival	11.2	-	-
08-Apr	10:59	8S121	XZM	Departure	12.7	-	-
08-Apr	12:14	3A181	ZUI	Departure	12.4	-	-
08-Apr	12:16	3A168	YFT	Departure	11	-	-
08-Apr	12:38	8S215	XZM	Arrival	12	-	-
08-Apr	12:54	3A064	YFT	Arrival	12.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
08-Apr	13:12	8S123	XZM	Departure	10.5	-	-
08-Apr	13:39	3A082	ZUI	Arrival	12.2	-	-
08-Apr	14:19	3A182	ZUI	Departure	12.9	-	-
08-Apr	14:19	3A164	YFT	Departure	12.5	-	-
08-Apr	14:55	3A065	YFT	Arrival	12.5	-	-
08-Apr	16:23	3A167	YFT	Departure	12.2	-	-
08-Apr	16:49	8S218	XZM	Arrival	12.5	-	-
08-Apr	16:52	3A083	ZUI	Arrival	12.9	-	-
08-Apr	16:58	3A067	YFT	Arrival	12.3	-	-
08-Apr	17:06	3A183	ZUI	Departure	12.2	-	-
08-Apr	17:08	8S126	XZM	Departure	12	-	-
08-Apr	18:58	3A166	YFT	Departure	12	-	-
08-Apr	19:53	3A084	ZUI	Arrival	12.7	-	-
08-Apr	20:06	3A185	ZUI	Departure	13.7	-	-
08-Apr	20:49	8S2113	XZM	Arrival	11.7	-	-
08-Apr	22:10	8S520	XZM	Departure	13	<= 5	< 1min
09-Apr	08:15	8S210	XZM	Arrival	12.1	-	-
09-Apr	08:52	3A061	YFT	Arrival	11.2	-	-
09-Apr	10:39	8S212	XZM	Arrival	12.5	-	-
09-Apr	10:46	3A081	ZUI	Arrival	12.4	-	-
09-Apr	10:55	3A063	YFT	Arrival	11.5	-	-
09-Apr	11:07	8S121	XZM	Departure	12.6	-	-
09-Apr	12:13	3A181	ZUI	Departure	10.7	-	-
09-Apr	12:14	3A168	YFT	Departure	11.5	-	-
09-Apr	12:39	8S215	XZM	Arrival	11.6	-	-
09-Apr	12:54	3A064	YFT	Arrival	12.1	-	-
09-Apr	13:18	8S123	XZM	Departure	12.1	-	-
09-Apr	13:40	3A082	ZUI	Arrival	13.1	-	-
09-Apr	14:12	3A182	ZUI	Departure	13.4	-	-
09-Apr	14:17	3A164	YFT	Departure	11.8	-	-
09-Apr	14:56	3A065	YFT	Arrival	12.7	-	-
09-Apr	16:16	3A167	YFT	Departure	11.5	-	-
09-Apr	16:38	3A083	ZUI	Arrival	12.1	-	-
09-Apr	16:44	8S218	XZM	Arrival	12.3	-	-
09-Apr	16:54	3A067	YFT	Arrival	12.5	-	-
09-Apr	17:05	3A183	ZUI	Departure	12	-	-
09-Apr	17:07	8S126	XZM	Departure	12.8	-	-
09-Apr	19:05	3A166	YFT	Departure	12.9	-	-
09-Apr	19:59	3A084	ZUI	Arrival	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	20:12	3A185	ZUI	Departure	12.8	-	-
09-Apr	20:44	8S2113	XZM	Arrival	11.7	-	-
09-Apr	22:13	8S520	XZM	Departure	12.6	-	-
10-Apr	08:12	8S210	XZM	Arrival	12.3	-	-
10-Apr	08:52	3A061	YFT	Arrival	11.8	-	-
10-Apr	10:05	3A081	ZUI	Arrival	12.4	-	-
10-Apr	10:33	8S212	XZM	Arrival	13.1	-	-
10-Apr	10:35	3A181	ZUI	Departure	13.4	-	-
10-Apr	10:55	3A063	YFT	Arrival	12.1	-	-
10-Apr	11:03	8S121	XZM	Departure	12.2	-	-
10-Apr	12:13	3A168	YFT	Departure	12	-	-
10-Apr	12:40	8S215	XZM	Arrival	13.7	-	-
10-Apr	12:55	3A064	YFT	Arrival	13.3	-	-
10-Apr	13:16	8S123	XZM	Departure	14	-	-
10-Apr	13:54	3A082	ZUI	Arrival	13.2	-	-
10-Apr	14:13	3A182	ZUI	Departure	12.4	-	-
10-Apr	14:14	3A164	YFT	Departure	12.7	-	-
10-Apr	14:56	3A065	YFT	Arrival	12.9	-	-
10-Apr	16:13	3A167	YFT	Departure	13.9	-	-
10-Apr	16:47	8S218	XZM	Arrival	11.7	-	-
10-Apr	16:56	3A083	ZUI	Arrival	13.4	-	-
10-Apr	16:58	3A067	YFT	Arrival	13.1	-	-
10-Apr	17:12	8S126	XZM	Departure	13.9	-	-
10-Apr	17:17	3A183	ZUI	Departure	12.4	-	-
10-Apr	19:06	3A166	YFT	Departure	12.1	-	-
10-Apr	20:40	3A084	ZUI	Arrival	12.7	-	-
10-Apr	20:47	8S2113	XZM	Arrival	12.3	-	-
10-Apr	21:02	3A185	ZUI	Departure	13.1	-	-
10-Apr	22:20	8S520	XZM	Departure	12	-	-
11-Apr	08:24	8S210	XZM	Arrival	11.3	-	-
11-Apr	08:57	3A061	YFT	Arrival	11.9	-	-
11-Apr	10:00	3A081	ZUI	Arrival	13.1	-	-
11-Apr	10:15	3A181	ZUI	Departure	12.9	-	-
11-Apr	10:33	8S212	XZM	Arrival	12.5	-	-
11-Apr	10:57	3A063	YFT	Arrival	12	-	-
11-Apr	11:04	8S121	XZM	Departure	12.6	-	-
11-Apr	12:19	3A168	YFT	Departure	12	-	-
11-Apr	12:45	8S215	XZM	Arrival	11.9	-	-
11-Apr	12:51	3A064	YFT	Arrival	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	13:17	8S123	XZM	Departure	12.3	-	-
11-Apr	13:43	3A082	ZUI	Arrival	12.8	-	-
11-Apr	14:13	3A182	ZUI	Departure	12.3	-	-
11-Apr	14:16	3A164	YFT	Departure	12.7	-	-
11-Apr	14:56	3A065	YFT	Arrival	12.3	-	-
11-Apr	16:13	3A167	YFT	Departure	12	-	-
11-Apr	16:44	8S218	XZM	Arrival	12.7	-	-
11-Apr	16:49	3A083	ZUI	Arrival	11.3	-	-
11-Apr	16:52	3A067	YFT	Arrival	13.7	-	-
11-Apr	17:17	3A183	ZUI	Departure	13.1	-	-
11-Apr	17:17	8S126	XZM	Departure	12.9	-	-
11-Apr	18:58	3A166	YFT	Departure	12.4	-	-
11-Apr	20:43	3A084	ZUI	Arrival	12.7	-	-
11-Apr	20:50	8S2113	XZM	Arrival	12.4	-	-
11-Apr	20:57	3A185	ZUI	Departure	12.5	-	-
11-Apr	22:11	8S520	XZM	Departure	11.9	-	-
12-Apr	08:21	8S210	XZM	Arrival	12.2	-	-
12-Apr	08:57	3A061	YFT	Arrival	11.7	-	-
12-Apr	10:00	3A081	ZUI	Arrival	12.5	-	-
12-Apr	10:28	3A181	ZUI	Departure	13.4	-	-
12-Apr	10:37	8S212	XZM	Arrival	12.2	-	-
12-Apr	11:01	3A063	YFT	Arrival	11.9	-	-
12-Apr	11:09	8S121	XZM	Departure	12.2	-	-
12-Apr	12:16	3A168	YFT	Departure	12.7	-	-
12-Apr	12:41	8S215	XZM	Arrival	11.6	-	-
12-Apr	13:01	3A064	YFT	Arrival	12	-	-
12-Apr	13:18	8S123	XZM	Departure	11.9	-	-
12-Apr	13:59	3A082	ZUI	Arrival	12.8	-	-
12-Apr	14:14	3A182	ZUI	Departure	13.7	-	-
12-Apr	14:17	3A164	YFT	Departure	12.4	-	-
12-Apr	14:56	3A065	YFT	Arrival	11.7	-	-
12-Apr	16:16	3A167	YFT	Departure	12.8	-	-
12-Apr	16:39	8S218	XZM	Arrival	12.6	-	-
12-Apr	16:58	3A083	ZUI	Arrival	13	-	-
12-Apr	16:59	3A067	YFT	Arrival	11.8	-	-
12-Apr	17:02	8S126	XZM	Departure	12.5	-	-
12-Apr	17:20	3A183	ZUI	Departure	13	-	-
12-Apr	19:04	3A166	YFT	Departure	12.5	-	-
12-Apr	20:47	3A084	ZUI	Arrival	13.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
12-Apr	20:54	8S2113	XZM	Arrival	11.8	-	-
12-Apr	20:59	3A185	ZUI	Departure	12.7	-	-
12-Apr	22:14	8S520	XZM	Departure	12.4	-	-
13-Apr	08:17	8S210	XZM	Arrival	11.9	-	-
13-Apr	08:58	3A061	YFT	Arrival	12	-	-
13-Apr	09:59	3A081	ZUI	Arrival	12.9	-	-
13-Apr	10:27	3A181	ZUI	Departure	13.5	-	-
13-Apr	10:33	8S212	XZM	Arrival	12.3	-	-
13-Apr	10:55	3A063	YFT	Arrival	12	-	-
13-Apr	11:01	8S121	XZM	Departure	12.5	-	-
13-Apr	12:19	3A168	YFT	Departure	13.4	-	-
13-Apr	12:33	8S215	XZM	Arrival	12.8	-	-
13-Apr	12:54	3A064	YFT	Arrival	12.5	-	-
13-Apr	13:10	8S123	XZM	Departure	12.8	-	-
13-Apr	13:41	3A082	ZUI	Arrival	12.7	-	-
13-Apr	14:16	3A182	ZUI	Departure	13.2	-	-
13-Apr	14:17	3A164	YFT	Departure	12.4	-	-
13-Apr	14:54	3A065	YFT	Arrival	13	-	-
13-Apr	16:17	3A167	YFT	Departure	12.7	-	-
13-Apr	16:39	8S218	XZM	Arrival	12.9	-	-
13-Apr	16:58	3A083	ZUI	Arrival	13	-	-
13-Apr	16:59	3A067	YFT	Arrival	12	-	-
13-Apr	17:04	8S126	XZM	Departure	12.8	-	-
13-Apr	17:18	3A183	ZUI	Departure	12.4	-	-
13-Apr	19:03	3A166	YFT	Departure	12	-	-
13-Apr	20:38	3A084	ZUI	Arrival	13.1	<= 5	< 1min
13-Apr	20:47	8S2113	XZM	Arrival	12.7	-	-
13-Apr	20:55	3A185	ZUI	Departure	11.3	-	-
13-Apr	22:11	8S520	XZM	Departure	10.1	-	-
14-Apr	08:19	8S210	XZM	Arrival	13.6	-	-
14-Apr	08:52	3A061	YFT	Arrival	13	-	-
14-Apr	10:08	3A081	ZUI	Arrival	12.8	-	-
14-Apr	10:28	8S212	XZM	Arrival	12.3	-	-
14-Apr	10:38	3A181	ZUI	Departure	12.9	-	-
14-Apr	10:58	3A063	YFT	Arrival	11.5	-	-
14-Apr	11:03	8S121	XZM	Departure	12.6	-	-
14-Apr	12:15	3A168	YFT	Departure	0.0 **	-	-
14-Apr	12:45	8S215	XZM	Arrival	12.6	-	-
14-Apr	12:54	3A064	YFT	Arrival	13	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
14-Apr	13:16	8S123	XZM	Departure	12.3	-	-
14-Apr	14:02	3A082	ZUI	Arrival	11.9	-	-
14-Apr	14:19	3A182	ZUI	Departure	13.8	-	-
14-Apr	14:24	3A164	YFT	Departure	12.7	-	-
14-Apr	14:59	3A065	YFT	Arrival	11.4	-	-
14-Apr	16:15	3A167	YFT	Departure	11.5	-	-
14-Apr	16:38	8S218	XZM	Arrival	12.6	-	-
14-Apr	16:57	3A067	YFT	Arrival	12.7	-	-
14-Apr	16:59	3A083	ZUI	Arrival	12.7	-	-
14-Apr	17:06	8S126	XZM	Departure	12.6	-	-
14-Apr	17:17	3A183	ZUI	Departure	13.2	-	-
14-Apr	18:54	3A166	YFT	Departure	11.6	-	-
14-Apr	20:42	3A084	ZUI	Arrival	13	-	-
14-Apr	20:57	8S2113	XZM	Arrival	12	-	-
14-Apr	20:59	3A185	ZUI	Departure	12.5	-	-
14-Apr	22:11	8S520	XZM	Departure	11.8	-	-
15-Apr	08:17	8S210	XZM	Arrival	12.3	-	-
15-Apr	09:03	3A061	YFT	Arrival	11.5	-	-
15-Apr	10:04	3A081	ZUI	Arrival	11.9	-	-
15-Apr	10:33	3A181	ZUI	Departure	13.3	-	-
15-Apr	10:37	8S212	XZM	Arrival	11.8	-	-
15-Apr	10:58	3A063	YFT	Arrival	12.9	-	-
15-Apr	11:04	8S121	XZM	Departure	13.2	<= 5	< 1min
15-Apr	12:26	3A168	YFT	Departure	13.5	-	-
15-Apr	12:41	8S215	XZM	Arrival	11.7	-	-
15-Apr	13:07	3A064	YFT	Arrival	11.6	-	-
15-Apr	13:16	8S123	XZM	Departure	12.4	-	-
15-Apr	14:01	3A082	ZUI	Arrival	12.5	-	-
15-Apr	14:15	3A182	ZUI	Departure	13.9	-	-
15-Apr	14:17	3A164	YFT	Departure	12.3	-	-
15-Apr	15:00	3A065	YFT	Arrival	12.7	-	-
15-Apr	15:09	3A162	YFT	Departure	12.3	-	-
15-Apr	16:11	3A163	YFT	Departure	12.1	-	-
15-Apr	16:42	3A167	YFT	Departure	12.7	-	-
15-Apr	16:50	8S218	XZM	Arrival	10.7	-	-
15-Apr	17:02	3A083	ZUI	Arrival	12	-	-
15-Apr	17:08	3A067	YFT	Arrival	11.2	-	-
15-Apr	17:12	8S126	XZM	Departure	12.5	-	-
15-Apr	17:25	3A183	ZUI	Departure	13.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	18:57	3A166	YFT	Departure	11.6	-	-
15-Apr	20:45	3A084	ZUI	Arrival	13	-	-
15-Apr	20:46	8S2113	XZM	Arrival	13.1	-	-
15-Apr	20:56	3A185	ZUI	Departure	13.1	-	-
15-Apr	22:10	8S520	XZM	Departure	12	-	-
16-Apr	08:18	8S210	XZM	Arrival	11.8	-	-
16-Apr	08:55	3A061	YFT	Arrival	12.2**	-	-
16-Apr	09:57	3A081	ZUI	Arrival	12.6	-	-
16-Apr	10:27	3A181	ZUI	Departure	12.6	-	-
16-Apr	10:32	8S212	XZM	Arrival	12.4	-	-
16-Apr	11:00	3A063	YFT	Arrival	11.5	-	-
16-Apr	11:05	8S121	XZM	Departure	12.1	-	-
16-Apr	12:12	3A168	YFT	Departure	11.3	-	-
16-Apr	12:42	8S215	XZM	Arrival	12.9	-	-
16-Apr	12:54	3A064	YFT	Arrival	13	-	-
16-Apr	13:09	8S123	XZM	Departure	12.8	-	-
16-Apr	13:41	3A082	ZUI	Arrival	12.5	-	-
16-Apr	14:16	3A164	YFT	Departure	12.7	-	-
16-Apr	14:17	3A182	ZUI	Departure	12.1	-	-
16-Apr	14:59	3A065	YFT	Arrival	11.2	-	-
16-Apr	16:17	3A167	YFT	Departure	11.6	-	-
16-Apr	16:41	8S218	XZM	Arrival	11.9	-	-
16-Apr	16:57	3A083	ZUI	Arrival	11.9	-	-
16-Apr	17:03	8S126	XZM	Departure	13	-	-
16-Apr	17:03	3A067	YFT	Arrival	12.6	-	-
16-Apr	17:17	3A183	ZUI	Departure	13.7	-	-
16-Apr	18:56	3A166	YFT	Departure	12.5	-	-
16-Apr	20:39	3A084	ZUI	Arrival	12.7	-	-
16-Apr	20:53	8S2113	XZM	Arrival	11.4	-	-
16-Apr	20:56	3A185	ZUI	Departure	12.6	-	-
16-Apr	22:12	8S520	XZM	Departure	12.9	-	-
17-Apr	08:20	8S210	XZM	Arrival	12.7	-	-
17-Apr	08:58	3A061	YFT	Arrival	12.1	-	-
17-Apr	10:07	3A081	ZUI	Arrival	12.9	-	-
17-Apr	10:38	3A181	ZUI	Departure	12.7	-	-
17-Apr	10:39	8S212	XZM	Arrival	11.8	-	-
17-Apr	11:03	3A063	YFT	Arrival	12.5	-	-
17-Apr	11:11	8S121	XZM	Departure	12.2	-	-
17-Apr	12:22	3A168	YFT	Departure	11.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	12:35	8S215	XZM	Arrival	12.7	-	-
17-Apr	12:57	3A064	YFT	Arrival	11.6	-	-
17-Apr	13:14	8S123	XZM	Departure	11.1	-	-
17-Apr	13:59	3A082	ZUI	Arrival	12.7	-	-
17-Apr	14:12	3A164	YFT	Departure	11.5	-	-
17-Apr	14:14	3A182	ZUI	Departure	11.6	-	-
17-Apr	15:09	3A065	YFT	Arrival	12.2	-	-
17-Apr	16:15	3A167	YFT	Departure	12.9	-	-
17-Apr	16:38	8S218	XZM	Arrival	11.7	-	-
17-Apr	16:58	3A083	ZUI	Arrival	12.7	-	-
17-Apr	17:00	3A067	YFT	Arrival	11.6	-	-
17-Apr	17:01	8S126	XZM	Departure	13	-	-
17-Apr	17:21	3A183	ZUI	Departure	13.8	-	-
17-Apr	18:58	3A166	YFT	Departure	13.3	-	-
17-Apr	20:37	3A084	ZUI	Arrival	12.5	-	-
17-Apr	20:44	8S2113	XZM	Arrival	12.8	-	-
17-Apr	20:58	3A185	ZUI	Departure	13	-	-
17-Apr	22:10	8S520	XZM	Departure	12.6	-	-
18-Apr	08:17	8S210	XZM	Arrival	12.1	-	-
18-Apr	08:53	3A061	YFT	Arrival	11.5	-	-
18-Apr	09:53	3A081	ZUI	Arrival	13.1	-	-
18-Apr	10:31	3A181	ZUI	Departure	12.9	-	-
18-Apr	10:35	8S212	XZM	Arrival	11.9	-	-
18-Apr	10:55	3A063	YFT	Arrival	12.2	-	-
18-Apr	11:00	8S121	XZM	Departure	13.2	-	-
18-Apr	12:19	3A168	YFT	Departure	11	-	-
18-Apr	12:40	8S215	XZM	Arrival	12.2	-	-
18-Apr	12:55	3A064	YFT	Arrival	11.8	-	-
18-Apr	13:15	8S123	XZM	Departure	12.1	-	-
18-Apr	13:59	3A082	ZUI	Arrival	12.9	-	-
18-Apr	14:13	3A164	YFT	Departure	12	-	-
18-Apr	14:13	3A182	ZUI	Departure	12	-	-
18-Apr	14:59	3A065	YFT	Arrival	11.7	-	-
18-Apr	16:25	3A167	YFT	Departure	11.6	-	-
18-Apr	16:38	8S218	XZM	Arrival	12.4	-	-
18-Apr	16:55	3A067	YFT	Arrival	12.1	-	-
18-Apr	17:01	3A083	ZUI	Arrival	11.7	-	-
18-Apr	17:03	8S126	XZM	Departure	13	-	-
18-Apr	17:16	3A183	ZUI	Departure	13.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
18-Apr	19:00	3A166	YFT	Departure	12.6	-	-
18-Apr	20:36	3A084	ZUI	Arrival	12.5	-	-
18-Apr	20:50	8S2113	XZM	Arrival	12.4	-	-
18-Apr	20:55	3A185	ZUI	Departure	13.7	-	-
18-Apr	22:12	8S520	XZM	Departure	11.9	-	-
19-Apr	08:15	8S210	XZM	Arrival	12.6	-	-
19-Apr	08:53	3A061	YFT	Arrival	12.7	-	-
19-Apr	10:01	3A081	ZUI	Arrival	12.9	-	-
19-Apr	10:31	8S212	XZM	Arrival	11.6	-	-
19-Apr	10:38	3A181	ZUI	Departure	12.7	-	-
19-Apr	10:55	3A063	YFT	Arrival	13	-	-
19-Apr	11:00	8S121	XZM	Departure	13	-	-
19-Apr	12:14	3A168	YFT	Departure	13.1	-	-
19-Apr	12:38	8S215	XZM	Arrival	13.5	-	-
19-Apr	12:53	3A064	YFT	Arrival	12.1	-	-
19-Apr	13:16	8S123	XZM	Departure	13.5	-	-
19-Apr	13:57	3A082	ZUI	Arrival	12.8	-	-
19-Apr	14:14	3A182	ZUI	Departure	11.6	-	-
19-Apr	14:58	3A065	YFT	Arrival	12.4	<= 5	< 1min
19-Apr	16:13	3A167	YFT	Departure	12.7	-	-
19-Apr	16:30	8S218	XZM	Arrival	11.4	-	-
19-Apr	16:50	3A067	YFT	Arrival	11.9	-	-
19-Apr	16:58	3A083	ZUI	Arrival	12.4	-	-
19-Apr	17:01	8S126	XZM	Departure	13.8	-	-
19-Apr	17:15	3A183	ZUI	Departure	12.8	-	-
19-Apr	18:55	3A166	YFT	Departure	10.1	-	-
19-Apr	20:35	3A084	ZUI	Arrival	11.9	-	-
19-Apr	20:47	8S2113	XZM	Arrival	12	-	-
19-Apr	20:58	3A185	ZUI	Departure	13.1	-	-
19-Apr	22:11	8S520	XZM	Departure	12.6	-	-
20-Apr	08:19	8S210	XZM	Arrival	12.1	-	-
20-Apr	08:57	3A061	YFT	Arrival	11.6	-	-
20-Apr	09:56	3A081	ZUI	Arrival	12.9	-	-
20-Apr	10:28	3A181	ZUI	Departure	13.1	-	-
20-Apr	10:32	8S212	XZM	Arrival	12.5	-	-
20-Apr	10:55	3A063	YFT	Arrival	11.6	-	-
20-Apr	11:06	8S121	XZM	Departure	12.8	-	-
20-Apr	12:17	3A168	YFT	Departure	10.6	-	-
20-Apr	12:32	8S215	XZM	Arrival	12.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
20-Apr	12:54	3A064	YFT	Arrival	12.9	-	-
20-Apr	13:12	8S123	XZM	Departure	12.4	-	-
20-Apr	14:00	3A082	ZUI	Arrival	13.4	-	-
20-Apr	14:42	3A164	YFT	Departure	12.7	-	-
20-Apr	15:01	3A065	YFT	Arrival	11.1	-	-
20-Apr	15:09	3A182	ZUI	Departure	11.3	-	-
20-Apr	16:16	3A167	YFT	Departure	12	-	-
20-Apr	16:34	8S218	XZM	Arrival	11.9	-	-
20-Apr	16:55	3A067	YFT	Arrival	12	-	-
20-Apr	17:02	3A083	ZUI	Arrival	11.9	-	-
20-Apr	17:08	8S126	XZM	Departure	12.4	-	-
20-Apr	17:24	3A183	ZUI	Departure	13.1	-	-
20-Apr	18:58	3A166	YFT	Departure	11.7	-	-
20-Apr	20:43	3A084	ZUI	Arrival	12.3	-	-
20-Apr	20:51	8S2113	XZM	Arrival	12	-	-
20-Apr	20:56	3A185	ZUI	Departure	13.2	-	-
20-Apr	22:12	8S520	XZM	Departure	11.8	-	-
21-Apr	08:20	8S210	XZM	Arrival	10.7	-	-
21-Apr	08:55	3A061	YFT	Arrival	11.5	-	-
21-Apr	09:59	3A081	ZUI	Arrival	12.7	-	-
21-Apr	10:27	3A181	ZUI	Departure	13.4	-	-
21-Apr	10:37	8S212	XZM	Arrival	12.4	-	-
21-Apr	11:01	8S121	XZM	Departure	12.7	-	-
21-Apr	11:01	3A063	YFT	Arrival	11.2	-	-
21-Apr	12:15	3A168	YFT	Departure	12.3	-	-
21-Apr	12:39	8S215	XZM	Arrival	12.2	-	-
21-Apr	12:55	3A064	YFT	Arrival	12	-	-
21-Apr	13:16	8S123	XZM	Departure	11.9	-	-
21-Apr	13:56	3A082	ZUI	Arrival	13.8	-	-
21-Apr	14:16	3A182	ZUI	Departure	12.7	-	-
21-Apr	14:17	3A164	YFT	Departure	12	-	-
21-Apr	14:58	3A065	YFT	Arrival	12.1	-	-
21-Apr	16:14	3A167	YFT	Departure	12.1	-	-
21-Apr	16:40	8S218	XZM	Arrival	12.3	-	-
21-Apr	16:59	3A083	ZUI	Arrival	13.3	-	-
21-Apr	17:00	3A067	YFT	Arrival	11.8	-	-
21-Apr	17:03	8S126	XZM	Departure	12	-	-
21-Apr	17:17	3A183	ZUI	Departure	11.5	-	-
21-Apr	19:01	3A166	YFT	Departure	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
21-Apr	20:38	3A084	ZUI	Arrival	12	-	-
21-Apr	20:51	8S2113	XZM	Arrival	12.1	-	-
21-Apr	20:54	3A185	ZUI	Departure	13.6	-	-
21-Apr	22:09	8S520	XZM	Departure	12.8	-	-
22-Apr	08:18	8S210	XZM	Arrival	11.2	-	-
22-Apr	08:54	3A061	YFT	Arrival	11.7	-	-
22-Apr	09:59	3A081	ZUI	Arrival	12.5	-	-
22-Apr	10:28	3A181	ZUI	Departure	13.7	-	-
22-Apr	10:32	8S212	XZM	Arrival	12.5	-	-
22-Apr	10:55	3A063	YFT	Arrival	12.9	-	-
22-Apr	11:02	8S121	XZM	Departure	12.8	-	-
22-Apr	12:17	3A168	YFT	Departure	12	-	-
22-Apr	12:33	8S215	XZM	Arrival	13.3	-	-
22-Apr	12:57	3A064	YFT	Arrival	12.2	-	-
22-Apr	13:15	8S123	XZM	Departure	13.4	-	-
22-Apr	13:57	3A082	ZUI	Arrival	13.3	-	-
22-Apr	14:14	3A164	YFT	Departure	12.5	-	-
22-Apr	14:33	3A182	ZUI	Departure	12.3	-	-
22-Apr	15:07	3A065	YFT	Arrival	11.7	-	-
22-Apr	16:16	3A167	YFT	Departure	12.5	-	-
22-Apr	16:33	8S218	XZM	Arrival	12.5	<= 5	< 1min
22-Apr	16:42	3A083	ZUI	Arrival	13.3	-	-
22-Apr	17:00	8S126	XZM	Departure	12.5	-	-
22-Apr	17:03	3A067	YFT	Arrival	11.9	-	-
22-Apr	17:18	3A183	ZUI	Departure	13.5	-	-
22-Apr	19:02	3A166	YFT	Departure	11.5	-	-
22-Apr	20:02	3A169	YFT	Departure	11.9	-	-
22-Apr	20:43	3A084	ZUI	Arrival	11.9	-	-
22-Apr	20:54	8S2113	XZM	Arrival	0.0 **	-	-
22-Apr	21:03	3A185	ZUI	Departure	13.1	-	-
22-Apr	22:11	8S520	XZM	Departure	12.5	-	-
23-Apr	08:21	8S210	XZM	Arrival	13	-	-
23-Apr	09:05	3A061	YFT	Arrival	13.2	-	-
23-Apr	10:12	3A081	ZUI	Arrival	12.1	-	-
23-Apr	10:36	8S212	XZM	Arrival	12.6	-	-
23-Apr	10:40	3A181	ZUI	Departure	13.1	-	-
23-Apr	10:49	3A063	YFT	Arrival	12.3	-	-
23-Apr	10:57	8S121	XZM	Departure	12.8	-	-
23-Apr	12:15	3A168	YFT	Departure	10.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
23-Apr	12:32	8S215	XZM	Arrival	12.1	-	-
23-Apr	12:57	3A064	YFT	Arrival	11.6	-	-
23-Apr	13:13	8S123	XZM	Departure	11.3	-	-
23-Apr	13:59	3A082	ZUI	Arrival	13.2	-	-
23-Apr	14:13	3A164	YFT	Departure	11.4	-	-
23-Apr	14:13	3A182	ZUI	Departure	12.3	-	-
23-Apr	14:56	3A065	YFT	Arrival	13.2	-	-
23-Apr	16:15	3A167	YFT	Departure	13.2	-	-
23-Apr	16:39	8S218	XZM	Arrival	12.2	-	-
23-Apr	17:00	3A083	ZUI	Arrival	12.5	-	-
23-Apr	17:01	8S126	XZM	Departure	11.9	-	-
23-Apr	17:06	3A067	YFT	Arrival	12.4	-	-
23-Apr	17:19	3A183	ZUI	Departure	11.2	-	-
23-Apr	18:58	3A166	YFT	Departure	13.7	-	-
23-Apr	20:42	3A084	ZUI	Arrival	12.1	-	-
23-Apr	20:47	8S2113	XZM	Arrival	11.9	-	-
23-Apr	21:08	3A185	ZUI	Departure	12.8	-	-
23-Apr	22:14	8S520	XZM	Departure	12.8	-	-
24-Apr	08:14	8S210	XZM	Arrival	12.6	-	-
24-Apr	08:52	3A061	YFT	Arrival	11.4	-	-
24-Apr	10:03	3A081	ZUI	Arrival	13.1	-	-
24-Apr	10:34	8S212	XZM	Arrival	12.4	-	-
24-Apr	10:39	3A181	ZUI	Departure	12.5	-	-
24-Apr	10:58	3A063	YFT	Arrival	12.7	-	-
24-Apr	11:03	8S121	XZM	Departure	12.5	-	-
24-Apr	12:20	3A168	YFT	Departure	12	-	-
24-Apr	12:50	8S215	XZM	Arrival	12.3	-	-
24-Apr	13:09	3A064	YFT	Arrival	13	-	-
24-Apr	13:19	8S123	XZM	Departure	13.8	-	-
24-Apr	13:56	3A082	ZUI	Arrival	13.3	-	-
24-Apr	14:17	3A164	YFT	Departure	13.7	-	-
24-Apr	14:18	3A182	ZUI	Departure	12.7	-	-
24-Apr	15:01	3A065	YFT	Arrival	12.3	-	-
24-Apr	16:11	3A167	YFT	Departure	13.3	-	-
24-Apr	16:45	8S218	XZM	Arrival	12.9	-	-
24-Apr	17:02	8S126	XZM	Departure	12.6	-	-
24-Apr	17:03	3A083	ZUI	Arrival	12.6	-	-
24-Apr	17:08	3A067	YFT	Arrival	12.8	-	-
24-Apr	17:19	3A183	ZUI	Departure	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	18:59	3A166	YFT	Departure	13.1	-	-
24-Apr	20:38	3A084	ZUI	Arrival	12.3	-	-
24-Apr	20:47	8S2113	XZM	Arrival	13.1	-	-
24-Apr	20:58	3A185	ZUI	Departure	12.3	-	-
24-Apr	22:11	8S520	XZM	Departure	12.6	-	-
25-Apr	08:16	8S210	XZM	Arrival	11.9	-	-
25-Apr	08:56	3A061	YFT	Arrival	11.8	-	-
25-Apr	10:02	3A081	ZUI	Arrival	12.5	-	-
25-Apr	10:29	8S212	XZM	Arrival	11.9	-	-
25-Apr	10:33	3A181	ZUI	Departure	13.9	-	-
25-Apr	10:55	3A063	YFT	Arrival	11.3	-	-
25-Apr	11:04	8S121	XZM	Departure	12	-	-
25-Apr	12:16	3A168	YFT	Departure	12.1	-	-
25-Apr	12:37	8S215	XZM	Arrival	11.4	-	-
25-Apr	12:56	3A064	YFT	Arrival	11.6	-	-
25-Apr	13:18	8S123	XZM	Departure	12.5	-	-
25-Apr	13:41	3A082	ZUI	Arrival	11.8	-	-
25-Apr	14:15	3A182	ZUI	Departure	13.2	-	-
25-Apr	14:26	3A164	YFT	Departure	12.1	-	-
25-Apr	14:55	3A065	YFT	Arrival	11.9	-	-
25-Apr	16:21	3A167	YFT	Departure	13.6	-	-
25-Apr	16:40	8S218	XZM	Arrival	11.9	-	-
25-Apr	16:41	3A083	ZUI	Arrival	12.7	-	-
25-Apr	17:01	8S126	XZM	Departure	12.7	-	-
25-Apr	17:06	3A067	YFT	Arrival	12	-	-
25-Apr	17:25	3A183	ZUI	Departure	13	-	-
25-Apr	18:57	3A166	YFT	Departure	12.8	-	-
25-Apr	20:37	3A084	ZUI	Arrival	12.3	-	-
25-Apr	20:49	8S2113	XZM	Arrival	11.7	-	-
25-Apr	20:58	3A185	ZUI	Departure	12.4	-	-
25-Apr	22:13	8S520	XZM	Departure	11.4	-	-
26-Apr	08:14	8S210	XZM	Arrival	13	-	-
26-Apr	08:57	3A061	YFT	Arrival	12.7	-	-
26-Apr	10:01	3A081	ZUI	Arrival	12.7	-	-
26-Apr	10:19	3A181	ZUI	Departure	13.3	-	-
26-Apr	10:31	8S212	XZM	Arrival	12	-	-
26-Apr	10:59	3A063	YFT	Arrival	10.8	-	-
26-Apr	11:25	8S121	XZM	Departure	12.7	-	-
26-Apr	12:10	3A168	YFT	Departure	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Apr	12:35	8S215	XZM	Arrival	12.1	-	-
26-Apr	12:54	3A064	YFT	Arrival	12.2	-	-
26-Apr	13:13	8S123	XZM	Departure	12.4	-	-
26-Apr	13:56	3A082	ZUI	Arrival	12.8	-	-
26-Apr	14:10	3A164	YFT	Departure	12.6	-	-
26-Apr	14:13	3A182	ZUI	Departure	13.3	-	-
26-Apr	15:02	3A065	YFT	Arrival	11.9	-	-
26-Apr	16:14	3A167	YFT	Departure	12.2	-	-
26-Apr	16:34	8S218	XZM	Arrival	12.2	-	-
26-Apr	16:56	3A067	YFT	Arrival	13.3	-	-
26-Apr	16:57	3A083	ZUI	Arrival	12.9	-	-
26-Apr	17:01	8S126	XZM	Departure	12.7	-	-
26-Apr	17:19	3A183	ZUI	Departure	12.6	-	-
26-Apr	18:59	3A166	YFT	Departure	12.7	-	-
26-Apr	20:41	3A084	ZUI	Arrival	12.5	-	-
26-Apr	20:52	8S2113	XZM	Arrival	12.3	-	-
26-Apr	20:56	3A185	ZUI	Departure	12	-	-
26-Apr	22:07	8S520	XZM	Departure	11.4	-	-
27-Apr	08:16	8S210	XZM	Arrival	11.7	-	-
27-Apr	08:59	3A061	YFT	Arrival	11.7	-	-
27-Apr	10:05	3A081	ZUI	Arrival	12.5	-	-
27-Apr	10:33	8S212	XZM	Arrival	12.2	-	-
27-Apr	10:37	3A181	ZUI	Departure	12.9	-	-
27-Apr	10:55	8S121	XZM	Departure	12.6	-	-
27-Apr	10:56	3A063	YFT	Arrival	12.6	-	-
27-Apr	12:09	3A168	YFT	Departure	12.8	-	-
27-Apr	12:40	8S215	XZM	Arrival	11.9	-	-
27-Apr	12:51	3A064	YFT	Arrival	12.7	-	-
27-Apr	13:24	8S123	XZM	Departure	13.2	-	-
27-Apr	13:58	3A082	ZUI	Arrival	12.6	-	-
27-Apr	14:13	3A164	YFT	Departure	11.9	-	-
27-Apr	14:14	3A182	ZUI	Departure	13.2	-	-
27-Apr	15:03	3A065	YFT	Arrival	13	-	-
27-Apr	16:17	3A167	YFT	Departure	13	-	-
27-Apr	16:35	8S218	XZM	Arrival	12.6	-	-
27-Apr	16:58	3A067	YFT	Arrival	12.9	-	-
27-Apr	17:01	3A083	ZUI	Arrival	13.2	-	-
27-Apr	17:13	8S126	XZM	Departure	13.3	-	-
27-Apr	17:20	3A183	ZUI	Departure	12.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
27-Apr	19:08	3A166	YFT	Departure	12.8	-	-
27-Apr	20:39	3A084	ZUI	Arrival	12.9	-	-
27-Apr	20:52	8S2113	XZM	Arrival	13	-	-
27-Apr	20:53	3A185	ZUI	Departure	12.3	-	-
27-Apr	22:09	8S520	XZM	Departure	11.5	-	-
28-Apr	08:16	8S210	XZM	Arrival	13	-	-
28-Apr	08:55	3A061	YFT	Arrival	12.1	-	-
28-Apr	10:06	3A081	ZUI	Arrival	13.1	-	-
28-Apr	10:35	8S212	XZM	Arrival	12.4	-	-
28-Apr	10:36	3A181	ZUI	Departure	12.6	-	-
28-Apr	10:56	3A063	YFT	Arrival	11	-	-
28-Apr	11:01	8S121	XZM	Departure	12.5	-	-
28-Apr	12:15	3A168	YFT	Departure	11.4	-	-
28-Apr	12:34	8S215	XZM	Arrival	13.1	-	-
28-Apr	12:57	3A064	YFT	Arrival	11.8	-	-
28-Apr	13:13	8S123	XZM	Departure	13.7	-	-
28-Apr	14:00	3A082	ZUI	Arrival	12.9	-	-
28-Apr	14:15	3A164	YFT	Departure	12.3	-	-
28-Apr	14:16	3A182	ZUI	Departure	13	-	-
28-Apr	14:58	3A065	YFT	Arrival	11.4	-	-
28-Apr	16:15	3A167	YFT	Departure	11	-	-
28-Apr	16:32	8S218	XZM	Arrival	13.3	-	-
28-Apr	16:50	3A083	ZUI	Arrival	0.0 **	-	-
28-Apr	16:59	3A067	YFT	Arrival	12.6	-	-
28-Apr	17:01	8S126	XZM	Departure	13.3	-	-
28-Apr	17:14	3A183	ZUI	Departure	13.6	-	-
28-Apr	19:01	3A166	YFT	Departure	13.2	-	-
28-Apr	20:26	3A084	ZUI	Arrival	13.2	-	-
28-Apr	20:51	8S2113	XZM	Arrival	12.7	-	-
28-Apr	20:54	3A185	ZUI	Departure	12.5	-	-
28-Apr	22:12	8S520	XZM	Departure	11.9	-	-
29-Apr	08:21	8S210	XZM	Arrival	11.3	-	-
29-Apr	09:03	3A061	YFT	Arrival	12.9	-	-
29-Apr	09:51	3A081	ZUI	Arrival	12.9	<= 5	< 6min
29-Apr	10:16	3A181	ZUI	Departure	12.2	-	-
29-Apr	10:36	8S212	XZM	Arrival	12.1	-	-
29-Apr	10:58	3A063	YFT	Arrival	11.7	-	-
29-Apr	11:15	8S121	XZM	Departure	12.9	-	-
29-Apr	12:21	3A168	YFT	Departure	11.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
29-Apr	12:34	8S215	XZM	Arrival	12.5	-	-
29-Apr	12:56	3A064	YFT	Arrival	11.9	-	-
29-Apr	13:14	8S123	XZM	Departure	12.8	-	-
29-Apr	13:40	3A082	ZUI	Arrival	11.9	-	-
29-Apr	14:18	3A182	ZUI	Departure	13.2	-	-
29-Apr	14:18	3A164	YFT	Departure	12.6	-	-
29-Apr	14:58	3A065	YFT	Arrival	11.6	-	-
29-Apr	16:16	3A167	YFT	Departure	12	-	-
29-Apr	16:35	8S218	XZM	Arrival	12.3	-	-
29-Apr	16:45	3A083	ZUI	Arrival	12.7	-	-
29-Apr	16:57	8S126	XZM	Departure	12.7	-	-
29-Apr	17:03	3A067	YFT	Arrival	12.1	-	-
29-Apr	17:21	3A183	ZUI	Departure	13.2	-	-
29-Apr	18:59	3A166	YFT	Departure	11.3	-	-
29-Apr	20:39	3A084	ZUI	Arrival	12.1	-	-
29-Apr	20:45	8S2113	XZM	Arrival	13.3	-	-
29-Apr	21:03	3A185	ZUI	Departure	13.1	-	-
29-Apr	22:09	8S520	XZM	Departure	12.4	-	-
30-Apr	08:21	8S210	XZM	Arrival	11.8	-	-
30-Apr	08:59	3A061	YFT	Arrival	12.1	-	-
30-Apr	09:55	3A081	ZUI	Arrival	12	-	-
30-Apr	10:18	3A181	ZUI	Departure	13.1	-	-
30-Apr	10:32	8S212	XZM	Arrival	11.7	-	-
30-Apr	10:53	3A063	YFT	Arrival	12.8	-	-
30-Apr	11:03	8S121	XZM	Departure	12.7	-	-
30-Apr	12:11	3A168	YFT	Departure	8.4	-	-
30-Apr	12:38	8S215	XZM	Arrival	12.3	-	-
30-Apr	13:04	3A064	YFT	Arrival	12	-	-
30-Apr	13:19	8S123	XZM	Departure	12.3	-	-
30-Apr	13:39	3A082	ZUI	Arrival	12.3	-	-
30-Apr	14:13	3A164	YFT	Departure	12.3	-	-
30-Apr	14:16	3A182	ZUI	Departure	12.7	-	-
30-Apr	15:09	3A065	YFT	Arrival	12.7	-	-
30-Apr	16:15	3A167	YFT	Departure	13.4	-	-
30-Apr	16:43	8S218	XZM	Arrival	12.8	-	-
30-Apr	16:47	3A083	ZUI	Arrival	12.3	-	-
30-Apr	16:59	3A067	YFT	Arrival	11.8	-	-
30-Apr	17:02	8S126	XZM	Departure	12.5	-	-
30-Apr	17:15	3A183	ZUI	Departure	13.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
30-Apr	18:58	3A166	YFT	Departure	11.7	-	-
30-Apr	20:27	3A084	ZUI	Arrival	12.8	-	-
30-Apr	20:50	8S2113	XZM	Arrival	12.6	-	-
30-Apr	20:54	3A185	ZUI	Departure	12.5	-	-
30-Apr	22:10	8S520	XZM	Departure	10.6	-	-

** Insufficient or no AIS data for speed calculation.

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in April 2019, 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 7 HSF movements of which the durations of all instantaneous speeding cases were less than one minute. The AIS data and ferry operators' responses showed the cases were due to local strong water. The captains had reduced speed and maintained the speed at less than 15 knots after the incidents.

Three HSFs with insufficient transmission of AIS data, and two HSFs with no transmission of AIS data were received in April 2019. Vessel captains were requested to provide the AIS plots to indicate the vessels entered the SCZ though the gate access points with no speeding in the SCZ.