MOTT MACDONALD

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

Construction Phase Monthly EM&A Report No.28 (For April 2018)

May 2018

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This Monthly EM&A Report No. 28 has been reviewed and certified by the Environmental Team Leader (ETL) in accordance with Condition 3.5 of Environmental Permit No. EP-489/2014.

Certified by: 

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

Date 14 May 2018

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By Email

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

Attn: Mr. Lawrence Tsui, Principal Manager

14 May 2018

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No.28 (April 2018)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No.28 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 May 2018.

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 28th 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 2018.

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, seawall construction, laying of sand blanket, and prefabricated vertical drain (PVD) installation. Land-side works included site establishment, site office construction, road and drainage works, cable ducting, demolition and modification of existing facilities, piling, and excavation works.

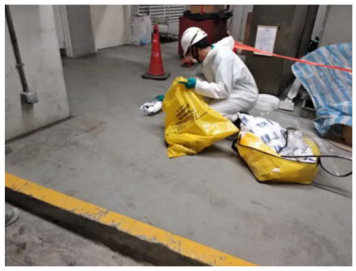
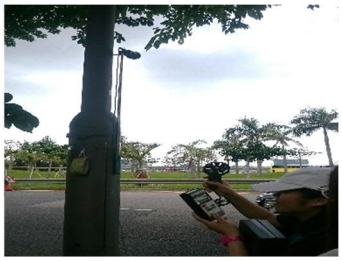
EM&A Activities Conducted in the Reporting Period

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	24
Water quality monitoring	12
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	5

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

		
Chemical Leakage Drill Conducted by Contractor	Noise Impact Monitoring Conducted by ET	Land-Based Theodolite Tracking Survey for CWD at Lung Kwu Chau

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, construction waste, and CWD did not trigger the corresponding Action and Limit Levels in the reporting period.

The water quality monitoring results for dissolved oxygen (DO), turbidity, total alkalinity, and chromium obtained during the reporting period complied with the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. Relevant investigation and follow-up actions. For suspended solids (SS) and nickel, some of the testing results triggered the relevant Action Level, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

Summary of Upcoming Key Issues

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

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- Pipeline testing and commissioning; and
- Stockpiling of excavated materials from previous HDD operation.

DCM Works:

Contract 3201 to 3205 DCM Works

- DCM works; and

Reclamation Works:

Contract 3206 Main Reclamation Works

- Laying of sand blanket;
- PVD installation;
- Seawall construction; and
- Marine filling.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

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

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Excavation works;
- Pipe installation;
- Piling works; and
- Builders works of antenna farm.

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

- Site clearance;
- Brick laying;
- Fitting out of Electrical and mechanical (E&M) works;
- Steel platform erection; and
- Cable tray installation.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;
- Drainage, and road work; and
- Piling works

APM works:

Contract 3602 Existing APM System Modification Works

- Site office establishment; and
- Concrete plinth construction.

Baggage Handling System (BHS) works:

Contract 3603 3RS Baggage Handling System

- Site survey.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Erection of hoarding;
- Diversion of underground utilities;
- Piling works; and
- Demolition of footbridge.

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

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		√	No construction activities-related complaint was received.	Nil
Notification of any summons and status of prosecutions		√	No notification of summon 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 existing submarine aviation fuel pipelines and submarine power cables also require diversion as part of the works.

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

The updated overall phasing programme of all construction works was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 7 and the contract information was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 25.

1.2 Scope of this Report

This is the 28th 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 2018.

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	Keith Chau	2972 1721
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Roy Man	3922 9376

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	Alan Tam	6119 3107
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Ilkwon Nam	9643 3117
	Environmental Officer	Dickson Mak	9525 8408
Contract 3203 DCM (Package 3) (Sambo E&C Co., Ltd)	Project Manager	Eric Kan	9014 6758
	Environmental Officer	David Hung	9765 6151
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Kyung-Sik Yoo	9683 8697
	Environmental Officer	Kanny Cho	6799 8226

Deep Cement Mixing (DCM) Works:

Contract 3205 DCM (Package 5) (Bachy Soletanche - Sambo Joint Venture)	Deputy Project Director	Min Park	9683 0765
	Environmental Officer	Margaret Chung	9130 3696

Reclamation Works:

Party	Position	Name	Telephone
Contract 3206 (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)	Project Manager	Kin Hang Chung	9412 1386

Terminal 2 (T2) Expansion Works:

Party	Position	Name	Telephone
Contract 3501 Antenna Farm and Sewage Pumping Station (Build King Construction Ltd.)	Project Manager	Raymond Au	6985 8860
	Environmental Officer	Edward Tam	9287 8270
Contract 3502 Terminal 2 APM Depot Modification Works (Build King Construction Ltd.)	Project Manager	Kivin Cheng	9380 3635
	Environmental Officer	Chun Pong Chan	9187 7118
Contract 3503 Terminal 2 Foundation and Substructure Works (Leighton – Chun Wo Joint Venture)	Construction Manager	Stephen O'Donoghue	9732 6787
	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

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 DCM works, seawall construction, laying of sand blanket, and PVD installation. Land-side works included site establishment, site office construction, road and drainage works, cable ducting, demolition and modification of existing facilities, piling, and excavation works.

The locations of the works area are presented in **Figure 1.1** to **Figure 1.2**.

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.
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 and approved by EPD pursuant to EP condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD.

Parameters	Status
Terrestrial Ecology	
Pre-construction Egretry Survey Plan	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Construction works on Sheung Sha Chau Island was suspended during the ardeid's breeding season (between April and July). The ecological monitoring is therefore suspended.
Marine Ecology	
Pre-Construction Phase Coral Dive Survey	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	The coral translocation was completed.
Post-Translocation Coral Monitoring	On-going
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite 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	
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:

- One dolphin observer training provided by ET: 18 Apr 2018
- Two skipper trainings provided by ET: 4 and 18 Apr 2018
- Nine environmental management meetings for EM&A review with works contracts: 11, 17, 18, 25, 26 and 27 Apr 2018

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-001 (Serial No. 934393)	11 Oct 2017	Monthly EM&A Report No. 22, Appendix E
	SIBATA LD-3B-002 (Serial No. 974350)	11 Sep 2017	
	SIBATA LD-3B-003 (Serial No. 276018)	11 Sep 2017	

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 E of the Construction Phase Monthly EM&A Report No. 22, 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	7 – 33	306	500
AR2	28 – 147	298	

The monitoring results complied with 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 five 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. As described in Section 4.3.3 of the Manual, monitoring at NM2 will commence when the future residential buildings in Tung Chung West Development become occupied.

Table 3.1: Locations of Impact Noise Monitoring Stations

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

Note:
(1) As described in Section 4.3.3 of the Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West 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	B&K 2238 (Serial No. 2800932)	17 Jul 2017	Monthly EM&A Report No. 19, Appendix E
	B&K 2238 (Serial No. 2808432)	30 Aug 2017	Monthly EM&A Report No. 21, Appendix E
Acoustic Calibrator	B&K 4231 (Serial No. 3003246)	16 May 2017	Monthly EM&A Report No. 17, Appendix D
	B&K 4231 (Serial No. 3004068)	17 Jul 2017	Monthly EM&A Report No. 19, Appendix E

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 – 72	75
NM3A	57 – 62	75
NM4(1)	63 – 66	70(2)
NM5(1)	54 – 61	75
NM6(1)	62 – 74	75

Notes:

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

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

The monitoring results complied with the corresponding Action and 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 road traffic noise at NM1A, aircraft and helicopter noise at NM3A and NM6, helicopter noise at NM4, and aircraft noise at NM5 during this reporting period. It is considered that the monitoring work during the reporting period is effective and there was no adverse impact attributable to the Project activities.

4 Water Quality Monitoring

Water quality monitoring of DO, turbidity, total alkalinity, chromium, and nickel was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 22 water quality monitoring stations, comprising 12 impact (IM) stations, 7 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 3.1** 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	806458	818351	
IM2	Impact Station	806193	818852	
IM3	Impact Station	806019	819411	
IM4	Impact Station	805039	819570	
IM5	Impact Station	804924	820564	
IM6	Impact Station	805828	821060	
IM7	Impact Station	806835	821349	
IM8	Impact Station	807838	821695	
IM9	Impact Station	808811	822094	
IM10	Impact Station	809838	822240	
IM11	Impact Station	810545	821501	
IM12	Impact Station	811519	821162	
SR1(1)	Future Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812586	820069	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	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)	811418 (from July 2017 onwards)	820246	

Notes:

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

(2) Details of selection criteria for the two heavy metals for 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 SR1& 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)	0.2		0.2	
	Representative Heavy Metals for regular DCM monitoring (Nickel)	3.2		3.6	
Action and Limit Levels SR1					

Parameters	Action Level (AL)	Limit Level (LL)
SS (mg/l)	To be determined prior to its commissioning	To be determined prior to its commissioning
Action and Limit Levels SR8		
SS (mg/l)	52	60

Notes:

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

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

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

(4) Details of selection criteria for the two heavy metals for 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. 15M100005)	6 Feb 2018	Monthly EM&A Report No. 27, Appendix D
	YSI ProDSS (Serial No. 16H104233)	6 Feb 2018	
	YSI ProDSS (Serial No. 16H104234)	6 Feb 2018	
	YSI ProDSS (Serial No. 17E100747)	1 Feb 2018	
	YSI ProDSS (Serial No. 17H105557)	6 Feb 2018	
	YSI 6920 V2 (Serial No. 0001C6A7)	2 Mar 2018	
	YSI 6920 (Serial No. 000109DF)	2 Mar 2018	
Digital Titrator (measurement of total alkalinity)	Titrette Digital Burette 50ml Class A (Serial No. 10N60623)	30 Apr 2018	Monthly EM&A Report No. 27, Appendix D

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 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 sea conditions varied from calm to rough, and the weather conditions varied from sunny to rainy during the monitoring period.

The water quality monitoring results for DO, turbidity, total alkalinity, and chromium obtained during the reporting period were within their corresponding Action and Limit Levels.

For SS and nickel, some of the testing results triggered the corresponding Action Level, and investigations were conducted accordingly.

Table 4.7 presents a summary of the SS compliance status at IM and SR stations during mid-flood tide for the reporting period.

Table 4.7: Summary of SS Compliance Status (Mid-Flood Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
03/04/2018									D										
05/04/2018																			
07/04/2018																			
10/04/2018																			
12/04/2018																			
14/04/2018																			
17/04/2018																			
19/04/2018									D	D				D					
21/04/2018																			
24/04/2018																			
26/04/2018																			
28/04/2018																			
No. of result triggereing Action or Limit Level	0	0	0	0	0	0	0	0	2	1	1	0	0	1	0	0	0	0	0

Note: Detailed results are presented in **Appendix C**.	
Legend:	
	The monitoring results complied with the corresponding Action and Limit Levels
	Monitoring result triggered the Action Level at monitoring station located upstream of the Project based on dominant tidal flow
D	Monitoring result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Action Levels on two monitoring days. Some of the cases occurred at monitoring stations located upstream of the Project during flood tide, that would unlikely be affected by the Project. Therefore, investigations focusing on cases occurred at monitoring stations located downstream of the Project were carried out.

As part of the investigation on the downstream events, details of the Project's marine construction activities on the concerned monitoring days were collected, as well as any observations during the monitoring. The findings are summarized in **Table 4.8**.

Table 4.8: Summary of Findings from Investigations of SS Monitoring Results (Mid-Flood Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
03/04/2018	DCM works Sand blanket laying	Around 500m	Silt curtain deployed	No	No	No
19/04/2018	DCM works Sand blanket laying	Around 500m	Silt curtain deployed	No	No	No

According to the investigation findings, it was confirmed that both DCM and sand blanket laying activities were operating normally with silt curtains deployed. The silt curtains were maintained properly.

For the monitoring results at IM9 on 3 April 2018, this station was located downstream of the Project during flood tide, which might be affected by Project's construction activities. However, it was noticed that no Action Level was triggered at other downstream monitoring stations. Thus, this appeared to be an isolated case with no observable spatial and temporal trend to indicate any effect due to Project activities. As there was no evidence of SS release due to Project activities from site observations and all mitigation measures were carried out properly, the case was considered not due to the Project.

For the monitoring result at IM9, IM10 and SR3 on 19 April 2018, these monitoring stations were located downstream of the Project during flood tide, which might be affected by Project's construction activities. However, it was noticed that Action Level was triggered at IM11, a nearby IM station located upstream of the Project. This station, while being unlikely to be affected by the Project, affect the water quality at the downstream IM and SR stations in the vicinity. Besides, during the monitoring session conducted on 19 April 2018, no specific observation was made regarding any water quality impact due to Project activities. As there was no evidence of SS release due to Project activities from site observations and all mitigation measures were carried out properly, the cases were considered not due to the Project.

Table 4.9 presents a summary of the nickel compliance status at IM and SR stations during mid-flood tide for the reporting period.

Table 4.9: Summary of Nickel Compliance Status (Mid-Flood Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
03/04/2018												
05/04/2018												
07/04/2018												
10/04/2018												
12/04/2018												
14/04/2018												
17/04/2018												
19/04/2018												
21/04/2018												
24/04/2018												
26/04/2018												
28/04/2018												
No. of result triggereing Action or Limit Level	0	1	1	0	0	0	0	0	0	0	0	0

Note: Detailed results are presented in **Appendix C**.	
Legend:	
	The monitoring results complied with the corresponding Action and Limit Levels
	Monitoring result triggered the Action Level at monitoring station located upstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Action Levels on two monitoring days. Both cases occurred at monitoring stations located upstream of the Project during flood tide, that would unlikely be affected by the Project.

4.5 Conclusion

During the reporting period, it is noted that the vast majority of monitoring results were within their corresponding Action and Limit Levels, while only a minor number of results triggered their corresponding Action level, and investigations were conducted accordingly.

Based on the investigation findings, all results that triggered the corresponding Action Level were not due to the Project. Therefore, the Project did not cause adverse impact at the water quality sensitive receivers. All required actions under the Event and Action Plan were followed. These cases appeared to be due to natural fluctuation or other sources not related to the Project.

Nevertheless, the non-project related triggers have been attended to and have initiated corresponding actions and measures. As part of the EM&A programme, the construction methods and mitigation measures for water quality will continue to be monitored and opportunities for further enhancement will continue to be explored and implemented where possible, to strive for better protection of water quality and the marine environment.

In the meantime, the contractors were reminded to implement and maintain all mitigation measures during weekly site inspection and regular environmental management meetings. These include maintaining mitigation measures for DCM works and sand blanket laying works properly as recommended in the 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 and chemical waste. 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**.

The monitoring results complied with the Action or Limit Levels during the reporting period.

Table 5.2: Construction Waste Statistics

	Excavated Material (m^3)(1)	C&D(2) Material Reused in the Project (m^3)	C&D Material Reused in other Projects (m^3)	C&D Material Disposed of as Public Fill (m^3)	Chemical Waste (kg)	Chemical Waste (L)	General Refuse (tonne)
Mar 2018(3)	-	-	-	1,741	-	18,000	297
Apr 2018(4)	1362	934	0	996	955	18,600	186

Notes:

(1) The excavated materials were temporarily stored at stockpiling area and will be reused in the Project.
(2) C&D refers to Construction and Demolition.
(3) Only updated figures are presented.
(4) Paper and 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 as proposed in the Manual 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 during the construction phase. In addition to the land-based theodolite tracking survey required for impact monitoring as stipulated in the Manual, supplemental theodolite tracking surveys have also been conducted during the implementation for the SkyPier HSF diversion and speed control in order to assist in monitoring the effectiveness of these measures, i.e. in total twice per month at the Sha Chau station and three times per month at the Lung Kwu Chau station.

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. For CWD monitoring for April 2018, data from 1 February 2018 to 30 April 2018 will be used to calculate the running quarterly encounter rates STG & ANI;

(2) Limit Level – two consecutive running quarters mean both the running quarterly encounter rates of the preceding month March 2018 (calculated by data from January 2018 to March 2018) and the running quarterly encounter rates of this month (calculated by data from February 2018 to April 2018).

(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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking 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 same location of the survey line where dolphins were spotted as far as practicable and began to survey on effort again.

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

6.3.2 Photo Identification

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

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

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

6.3.3 Land-based Theodolite Tracking 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 3, 4, 11, 12, 18, 19, 23, and 27 April 2018, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

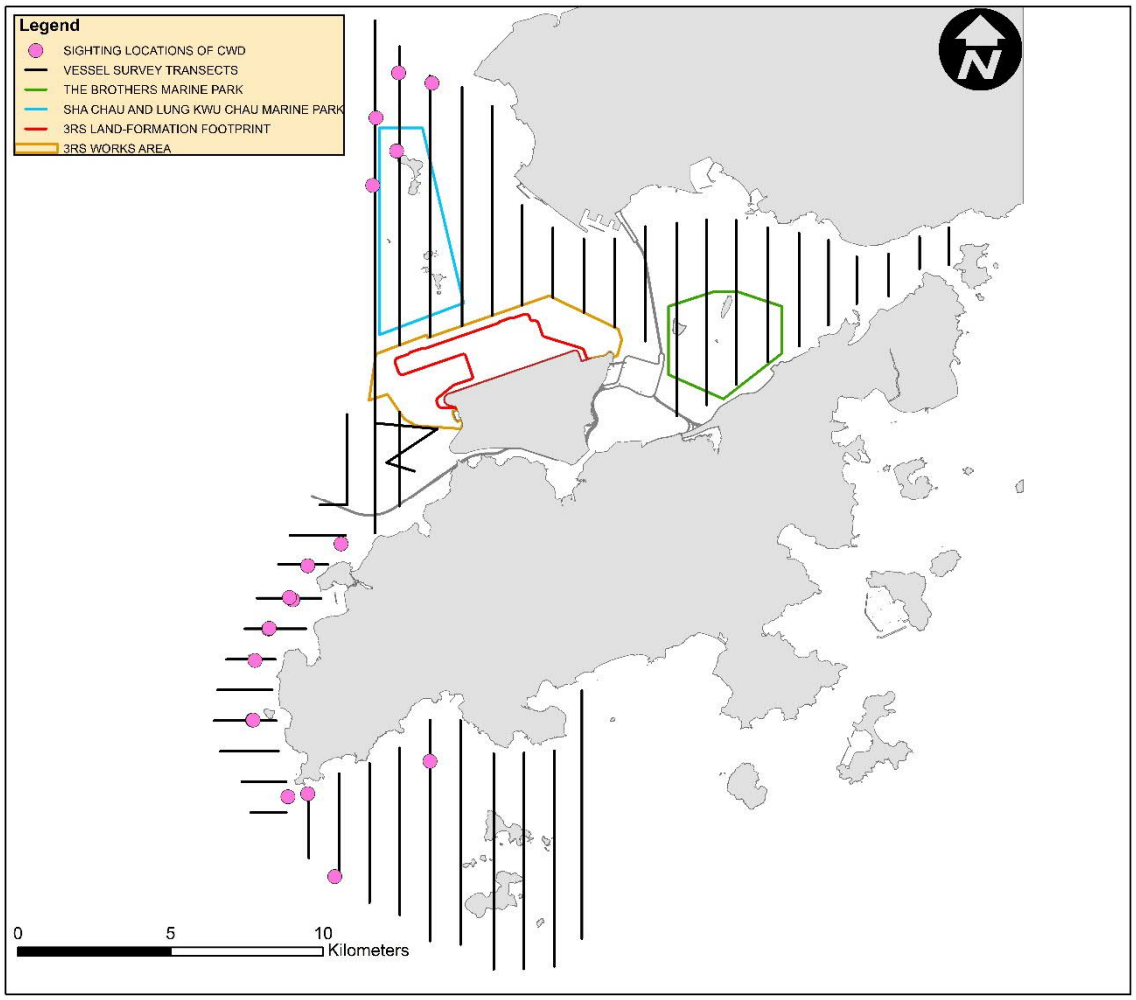
A total of around 453.91 km of survey effort was collected from these surveys, with around 97.68% of the total survey effort being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In April 2018, 18 sightings with 58 dolphins were sighted. Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in April 2018 is illustrated in **Figure 6.3**. In NWL, all CWD sightings were recorded around the northwestern corner of the survey area, particularly around the western and northern waters off Lung Kwu Chau. In WL, CWD sightings were recorded along the coast from Tai O to Fan Lau, particularly between Tai O and Peaked Hill. In SWL, two CWD sightings were recorded at the coastal waters of Fan Lau and Shek Pik respectively while one sighting was recorded at the off-shore waters at the eastern part of the survey area. No sightings of CWDs were recorded in NEL survey area.

Figure 6.3: Sightings Distribution of Chinese White Dolphins



Remarks: Please note that there are 18 pink circles on the map indicating the sighting locations of CWD. Some of them were very close to each other and therefore appear overlapped on this distribution map. Those sightings with very similar localities that appearing overlapped on the distribution map are located on the transects between Tai O and Peaked Hill.

Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from April 2018. 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 2018, a total of around 443.38 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 15 on-effort sightings with 50 dolphins were sighted under such condition. Calculation of the encounter rates in April 2018 are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from February to April 2018), a total of around 1268.37 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 53 on-effort sightings and a total number of 159 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 2018 and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. The running quarterly encounter rates STG and ANI did not trigger the Action Level (i.e., remained above the Action Level).

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

	Encounter Rate (STG)	Encounter Rate (ANI)
April 2018	3.38	11.28
Running Quarter from February 2018 to April 2018(1)	4.18	12.54
Action Level	Running quarterly(1) < 1.86	Running quarterly(1) < 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 to April 2018, containing six sets of transect surveys for all monitoring areas.

Group Size

In April 2018, 18 groups with 58 dolphins were sighted, and the average group size of CWDs was 3.22 dolphins per group. Numbers of sightings with small group size (i.e. 1-2 dolphins) and that with medium group (i.e. 3-9 dolphins) were similar. No sighting with large group size (i.e. 10 or more dolphins) was recorded.

Activities and Association with Fishing Boats

Three out of 18 sightings of CWDs were recorded engaging in feeding activities in April 2018. CWDs from two out of these three sightings were observed associating with operating purse seiner and shrimp trawler in WL respectively.

Mother-calf Pair

In April 2018, three sightings were observed with the presence of mother-and-unspotted juvenile pairs. Two of these sightings were recorded in NWL while the remaining one was observed in WL.

6.4.2 Photo Identification

In April 2018, a total number of 30 different CWD individuals were identified for totally 40 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	23-Apr-18	1	NWL	WLMM003	11-Apr-18	4	WL
NLMM010	19-Apr-18	2	NWL	WLMM004	12-Apr-18	3	WL
	23-Apr-18	1	NWL	WLMM006	12-Apr-18	2	WL
NLMM036	19-Apr-18	3	NWL	WLMM009	12-Apr-18	2	WL
		4	NWL	WLMM030	12-Apr-18	2	WL
NLMM037	23-Apr-18	1	NWL	WLMM043	11-Apr-18	1	WL
NLMM043	23-Apr-18	1	NWL		12-Apr-18	1	WL
NLMM062	12-Apr-18	3	WL	WLMM056	12-Apr-18	7	WL
NLMM063	23-Apr-18	1	NWL	WLMM064	12-Apr-18	3	WL
SLMM003	12-Apr-18	3	WL	WLMM069	12-Apr-18	4	WL
SLMM014	04-Apr-18	5	SWL			5	WL
SLMM027	11-Apr-18	3	WL	WLMM073	11-Apr-18	3	WL
	12-Apr-18	3	WL	WLMM085	11-Apr-18	4	WL
SLMM028	11-Apr-18	1	WL	WLMM086	12-Apr-18	2	WL
SLMM036	23-Apr-18	1	NWL		19-Apr-18	3	NWL
SLMM045	12-Apr-18	3	WL			4	NWL
SLMM052	12-Apr-18	3	WL	WLMM090	12-Apr-18	2	WL
SLMM058	12-Apr-18	2	WL		19-Apr-18	3	NWL
SLMM064	11-Apr-18	2	WL			4	NWL
WLMM001	11-Apr-18	4	WL				
	12-Apr-18	4	WL				

6.4.3 Land-based Theodolite Tracking Survey

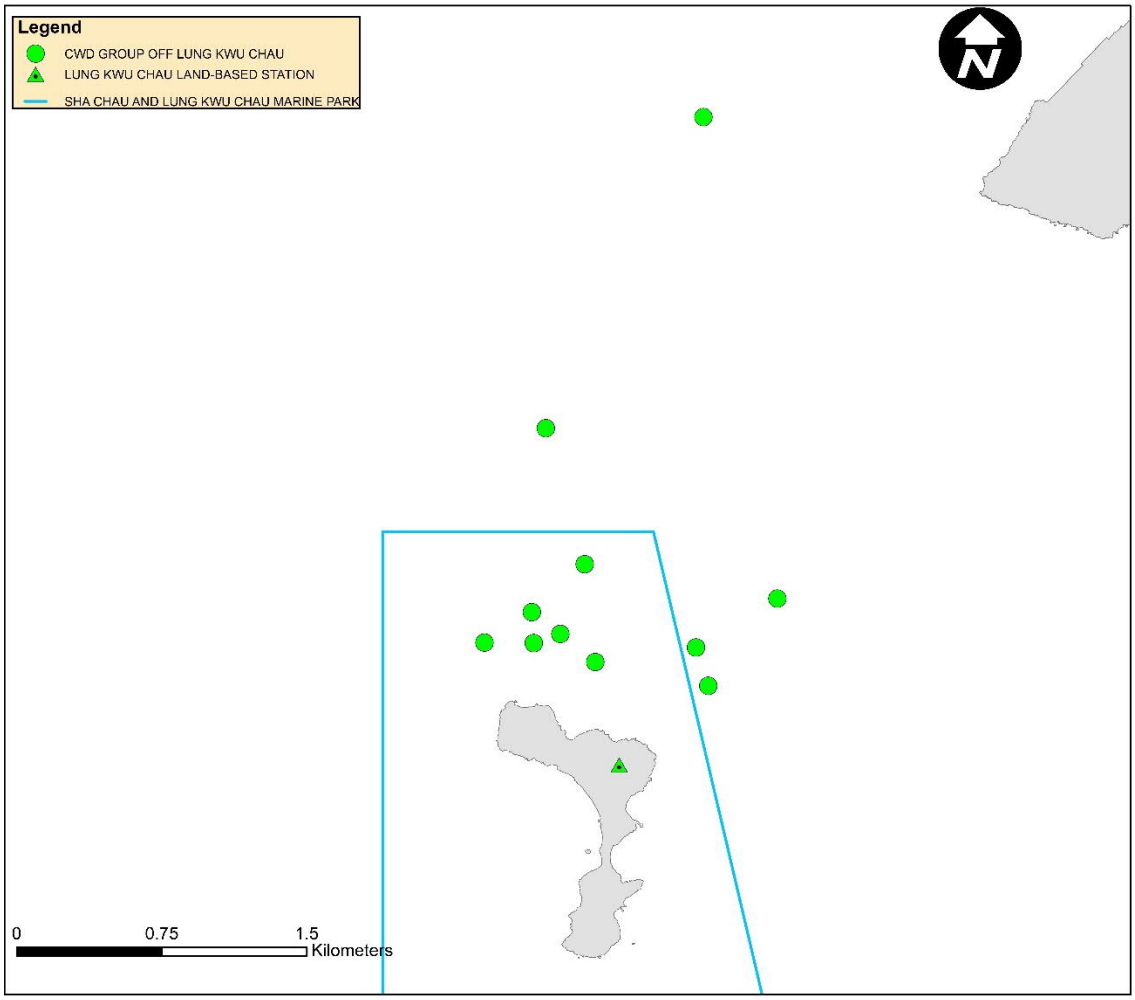
Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 13, 19 and 23 April 2018 and at SC on 20 and 26 April 2018, with a total of five days of land-based theodolite tracking survey effort accomplished in this reporting period. A total number of 11 CWD groups were tracked at LKC station during the surveys. Information of survey effort and CWD groups sighted during these land-based theodolite tracking surveys are presented in **Table 6.6**. Details of the survey effort and CWD groups tracked are presented in **Appendix C**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking surveys in April 2018 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

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

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	3	18:00	11	0.61
Sha Chau	2	12:00	0	0
TOTAL	**5**	**30:00**	**11**	**0.37**

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) has been remained underwater and positioned at south of Sha Chau Island inside the SCLKCMP with 20% duty cycle (**Figure 6.5**). The EAR deployment is generally for 4-6 weeks prior to data retrieval for analysis. Acoustic data is reviewed to give an indication of CWDs occurrence patterns and to obtain anthropogenic noise information simultaneously. Analysis (by a specialized team of acousticians) involved manually browsing through every acoustic recording and logging the occurrence of dolphin signals. All data will be re-played by computer as well as listened to by human ears for accurate assessment of dolphin group presence. As the period of data collection and analysis takes more than two months, PAM results could not be reported in monthly intervals.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractors for sand blanket laying works, in which dolphin observers were deployed by each contractor in accordance with the MMWP. Teams of at least two dolphin observers were deployed at 21 to 24 dolphin observation stations by the contractors for continuous monitoring of the DEZ by all contractors for ground

improvement works (DCM works and 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 605 individuals being trained and the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains or 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 five 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

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

The key observations from site inspection and associated recommendations were related to display of appropriate permits and labels; provision and maintenance of drip trays and spill kits; proper segregation and disposal of waste; proper implementation of dust suppression, wastewater treatment, dark smoke prevention, and runoff prevention measures; as well as proper implementation DEZ monitoring.

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**.

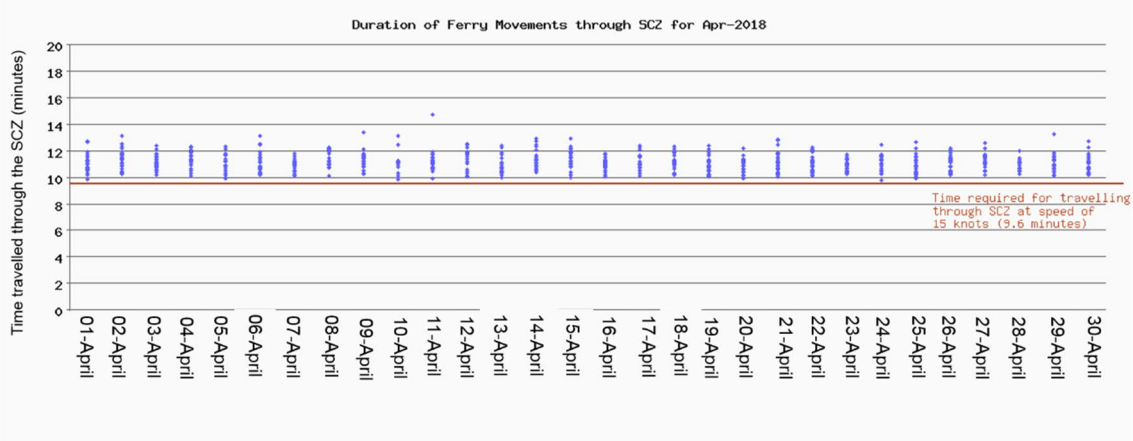
7.2 Audit of SkyPier High Speed Ferries

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., 88 to 90 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, 853 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in April 2018 and the data are presented in **Appendix F**. The time spent by the SkyPier HSFs travelling through the SCZ in April 2018 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 2018



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.

Four ferries were recorded with minor deviation from the diverted route on 4 April 2018, 06 April 2018, 13 April 2018 and 28 April 2018. Notices were sent to the ferry operators and the cases are under investigation by ET. The investigation result will be presented in the next monthly EM&A report. After the minor deviation, all HSFs returned to the diverted route following the SkyPier Plan.

For the ferry with minor deviation from the diverted route on 5 March 2018 as discussed in the No.27 EM&A Report, ET's investigation found that the vessel captain had to give way to a vessel at the portside for safety reason.

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

Requirements in the SkyPier Plan	1 April to 30 April 2018
Total number of ferry movements recorded and audited	853
Use diverted route and enter / leave SCZ through Gate Access Points	4 deviations.
Speed control in speed control zone	The average speeds taken within the SCZ by all HSFs were within 15 knots (9.2 knots to 14.0 knots), which complied with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in **Figure 7.1**.
Daily Cap (including all SkyPier HSFs)	88 to 90 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 contractor's Environmental Officer. Competency tests were subsequently conducted with the trained skippers by ET.
- In this reporting period, eight skippers were trained by ET and nine skippers were trained by contractor's Environmental Officer. In total, 919 skippers were trained from August 2016 to April 2018.
- 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 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 ground improvement works (DCM works and PVD installation) 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 Ecological Monitoring

In accordance with the Manual, ecological monitoring shall be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island during the HDD construction works period from August to March. Since the construction works on Sheung Sha Chau is suspended during the ardeid's breeding season between April to July, no ecological monitoring was carried out in this reporting period.

7.6 Status of Submissions under Environmental Permits

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

Table 7.2: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.1	Complaint Management Plan	Accepted / approved by EPD
2.4	Management Organizations	
2.5	Construction Works Schedule and Location Plans	
2.7	Marine Park Proposal	
2.8	Marine Ecology Conservation Plan	
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	

EP Condition	Submission	Status
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	
2.19	Waste Management Plan	
2.20	Supplementary Contamination Assessment Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.7 Compliance with Other Statutory Environmental Requirements

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

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

7.8.1 Complaints

No construction activities-related complaint was received during the reporting period.

7.8.2 Notifications of Summons or Status of Prosecution

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

7.8.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- Pipeline testing and commissioning; and
- Stockpiling of excavated materials from previous HDD operation.

DCM Works:

Contract 3201 to 3205 DCM Works

- DCM works; and

Reclamation Works:

Contract 3206 Main Reclamation Works

- Laying of sand blanket;
- PVD installation;
- Seawall construction; and
- Marine filling.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

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

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Excavation works;
- Pipe installation;
- Piling works; and
- Builders works of antenna farm.

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

- Site clearance;
- Brick laying;
- Fitting out of E&M works;

- Steel platform erection; and
- Cable tray installation.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;
- Drainage, and road work; and
- Piling works

APM works:

Contract 3602 Existing APM System Modification Works

- Site office establishment; and
- Concrete plinth construction.

Baggage Handling System (BHS) works:

Contract 3603 3RS Baggage Handling System

- Site survey.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Erection of hoarding;
- Diversion of underground utilities;
- Piling works; and
- Demolition of footbridge.

8.2 Key Environmental Issues for the Coming Reporting Period

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

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Water quality from laying of sand blanket, DCM works, and marine filling;
- DEZ monitoring for ground improvement works (DCM works and PVD installation) and seawall construction;
- Implementation of MMWP for silt curtain deployment by the contractors' dolphin observers;
- 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**.

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, seawall construction, laying of sand blanket, and PVD installation. Land-side works included site establishment, site office construction, road and drainage works, cable ducting, demolition and modification of existing facilities, piling, and excavation works.

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

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

The water quality monitoring results for DO, turbidity, total alkalinity, and chromium obtained during the reporting period complied with the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. For SS and nickel, some of the testing results triggered the relevant Action Level, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction activities during the reporting period did not introduce adverse impact to all water quality sensitive receivers.

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 MMWP, dolphin observers were deployed by the contractors for laying of open sea silt curtain and laying of silt curtains for sand blanket works in accordance with the MMWP. On the implementation of DEZ Plan, dolphin observers at 21 to 24 dolphin observation stations were deployed for continuous monitoring of the DEZ by all contractors for ground improvement works (DCM works and PVD installation) and seawall construction in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains or the DEZs in this reporting month. The contractor's record was checked by the ET during site inspection. Audits of acoustic decoupling measures for construction vessels were also carried out by the ET, and relevant recommendations were made during regular site inspections.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier high speed ferries (HSFs) in April 2018 were in the range of 88 to 90 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 853 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the SCZ with average speeds under 15 knots (9.2 to 14.0 knots), which were in compliance with the SkyPier Plan. Four deviations from the diverted route in April 2018 is recorded in the High Speed Ferry Monitoring System. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

On the implementation of 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 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

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

Contract P560 (R)- Daylighting Location

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

RECLAMATION WORKS AREA (please refer to Figure 1.2)

Contract 3801 - Works Area
Contract 3501 - Works Area
Contract 3502, 3602 - Works Area
Contract 3503 - Works Area
Contract 3201- 3206 and AAHK Site Offices
Contract 3301 - Works Area
Contract P560 (R)- Launching Site
Contract 3301 - Works Area
Contract 3301 - Pre-cast Area
Contract 3301 - Works Area
Contract 3602 - Site Office
Contract 3503 - Stockpiling Area
Contract P560 (R) - Site Office
Contract 3501 - Stockpiling Area
Contract 3801 - Stockpiling Area
Contract P560 (R) - Stockpiling Area

0 250 500 750 1000 m
1 : 30 000 SCALE BAR

Rev.	Date	Description	Checked
A	31AUG15	FIRST ISSUE	DC

香港國際機場 HONG KONG INTERNATIONAL AIRPORT
Airport Authority HKIA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong
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Mott MacDonald

Title: LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

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

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

Drawing No. FIGURE 1.1

Scale at A3 1 : 30000

Rev. A

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

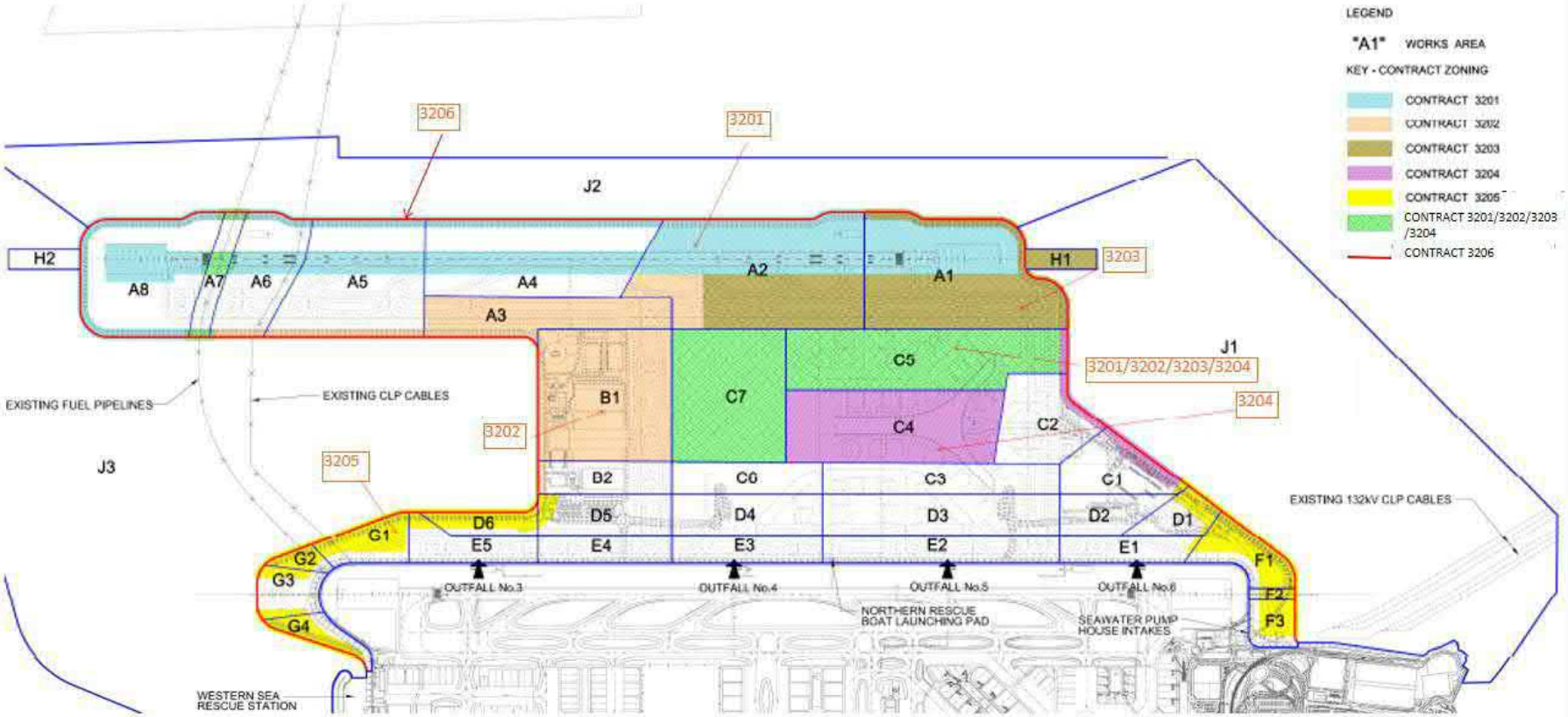
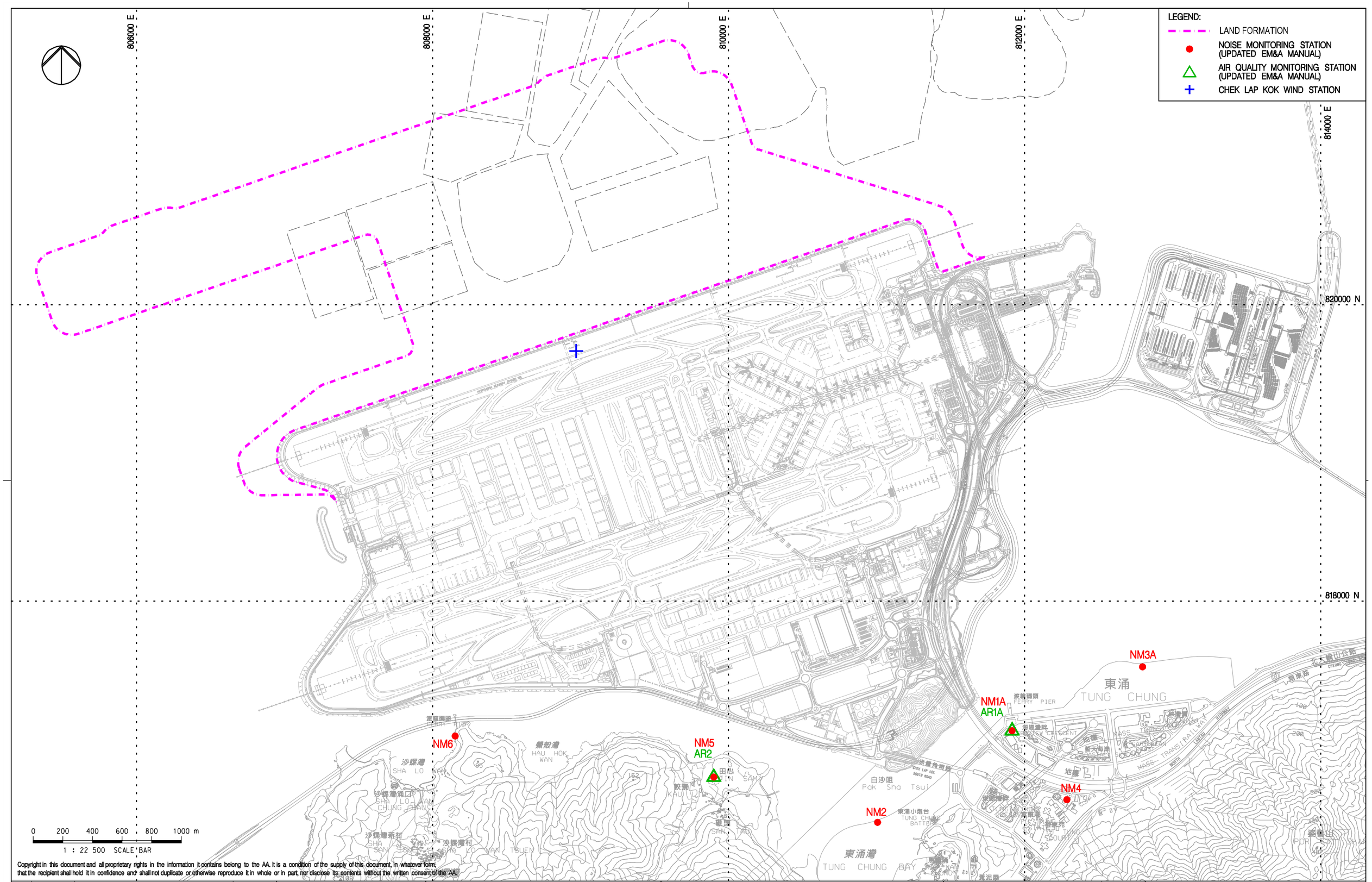


FIGURE 1.2- LOCATIONS OF RECLAMATION WORKS AREA



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

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Mott MacDonald

Title

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

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

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

Drawing No.

FIGURE 2.1

Scale at A3 1 : 22500

Rev. C

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

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

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

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

Rev.	Date	Description	Checked
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Title

WATER QUALITY MONITORING STATIONS

Consultant's Signatures for Approval		Date
Design	DC	02AUG17
Checkers	DC / TK	02AUG17
Approver	EC	02AUG17

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

Drawing No.

FIGURE 3.1

Scale at A3 1 : 60000

Rev. D

Filename: J:\355482\REPORT\ENV\EMA\170802\FIG 3.1.dgn

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

830000 N
825000 N
820000 N
815000 N
810000 N
805000 N

NORTHWEST LANTAU
NORTHEAST LANTAU
SOUTHWEST LANTAU
AIRPORT WEST
WEST LANTAU

LEGEND:
- HKSAR BOUNDARY
- LAND FORMATION
- TEMPORARY WORKS AREA BOUNDARY
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE
- DOLPHIN VESSEL SURVEY TRANSECT ROUTE

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

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

Rev.	Date	Description	Checked
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C	06FEB17	GENERAL REVISION	JT
D	01MAR17	GENERAL REVISION	JT

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

Consultant's Signatures for Approval		Date
Design	JC	01MAR17
Checkers	JC / TK	01MAR17
Approver	EC	01MAR17

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

Drawing No. FIGURE 6.1

Scale at A3 1 : 125000

Rev. D

Filename: J:\355482\REPORT\ENV\EMA\170301\MCL-P132-EMA-10-003.dgn

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

E
D

HKSAR BOUNDARY

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

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

Rev.	Date	Description	Checked
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B	06FEB17	GENERAL REVISION	JC

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MOTT MACDONALD

Title

LAND BASED DOLPHIN MONITORING IN BASELINE AND CONSTRUCTION PHASES

Consultant's Signatures for Approval		Date
Design	JC	06FEB17
Checkers	JC / TK	06FEB17
Approver	EC	06FEB17

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

Drawing No.
FIGURE 6.2

Scale at A3
1 : 45000

Rev. B

Filename: J:\355482\REPORT\ENV\EMA\170206\MCL-P132-EMA-10-004.dgn

804000 E
806000 E
808000 E
810000 E
812000 N
814000 E
816000 E
818000 E
820000 E
828000 N
826000 N
824000 N
822000 N
820000 N
818000 N

URMSTON ROAD

龍鼓洲
LUNG KWU CHAU

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

沙洲
SHA CHAU

A5

HKSAR BOUNDARY

LEGEND:

LAND FORMATION

HONG KONG INTERNATIONAL AIRPORT

AUTONOMOUS PASSIVE ACOUSTIC MONITORING LOCATION

0 500 1000 1500 2000 m

1 : 45 000 SCALE BAR

Rev.	Date	Description	Checked
A	29AUG17	FIRST ISSUE	JT

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MOTT MACDONALD

Title

LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

Consultant's Signatures for Approval		Date
Design	JC	29AUG17
Checkers	JC / TK	29AUG17
Approver	EC	29AUG17

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

Drawing No.

FIGURE 6.5

Scale at A3 1 : 45000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\170802\FIG 6.5.dgn

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

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

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

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

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

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

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

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Storage piles and bins ▪ Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required. ▪ The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable; ▪ All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or ▪ The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls. ▪ Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Rock drilling equipment ▪ Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Hazard to Human Life – Construction Phase		
Table 6.40	3.2	-	▪ Precautionary measures should be established to request barges to move away during typhoons.	Construction Site / Construction Period	I
Table 6.40	3.2	-	▪ An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	I
Table 6.40	3.2	-	▪ Location of all existing hydrant networks should be clearly identified prior to any construction works.	Construction Site / Construction Period	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;		N/A
			▪ Closed grab dredger shall be used to excavate marine sediment; ▪ Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and		N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The Silt Curtain Deployment Plan shall be implemented.		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			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, 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
			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	N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities;		N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and		N/A *(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The silt curtains and silt screens should be regularly checked and maintained.		N/A

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		
			▪ Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I
			▪ All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;		I
			▪ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;		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		N/A

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

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room.		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-18

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	**2**	**3** Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM3A, NM4, NM5 WQ General & Regular DCM mid-ebb: 14:47 mid-flood: 08:32	**4** Site Inspection CWD Survey (Vessel) NM6	**5** WQ General & Regular DCM mid-ebb: 16:02 mid-flood: 09:25	**6** Site Inspection	**7** WQ General & Regular DCM mid-ebb: 17:39 mid-flood: 10:23
8	**9** AR1A, AR2 NM1A, NM3A, NM4, NM5	**10** Site Inspection WQ General & Regular DCM mid-ebb: 10:10 mid-flood: 14:22	**11** Site Inspection CWD Survey (Vessel)	**12** Site Inspection CWD Survey (Vessel) NM6 WQ General & Regular DCM mid-ebb: 11:23 mid-flood: 16:37	**13** Site Inspection CWD Survey (Land-based) AR1A, AR2	**14** WQ General & Regular DCM mid-ebb: 12:20 mid-flood: 18:07
15	**16**	**17** Site Inspection NM6 WQ General & Regular DCM mid-ebb: 13:53 mid-flood: 07:31	**18** Site Inspection CWD Survey (Vessel)	**19** Site Inspection CWD Survey (Vessel, Land-based) AR1, AR2 NM1A, NM3A, NM4, NM5 WQ General & Regular DCM mid-ebb: 15:11 mid-flood: 08:32	**20** Site Inspection CWD Survey (Land-based)	**21** WQ General & Regular DCM mid-ebb: 16:52 mid-flood: 09:45
22	**23** CWD Survey (Vessel, Land-based)	**24** Site Inspection AR1A, AR2 NM1A, NM4 WQ General & Regular DCM mid-ebb: 09:03 mid-flood: 13:54	**25** Site Inspection	**26** Site Inspection CWD Survey (Land-based) NM3A, NM5, NM6 WQ General & Regular DCM mid-ebb: 10:59 mid-flood: 16:30	**27** Site Inspection CWD Survey (Vessel)	**28** WQ General & Regular DCM mid-ebb: 12:11 mid-flood: 18:18
29	**30** AR1A, AR2 NM1A, NM3A, NM4, NM5					

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

WQ - Water Quality
DCM - Deep Cemenet Mixing

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

Tentative Monitoring Schedule of Next Reporting Period

May-18

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 WQ General & Regular DCM mid-ebb: 13:51 mid-flood: 07:23	**2** Site Inspection NM6	**3** Site Inspection CWD Survey (Vessel, Land-based) WQ General & Regular DCM mid-ebb: 15:00 mid-flood: 08:18	**4** Site Inspection AR1A, AR2	**5** WQ General & Regular DCM mid-ebb: 16:17 mid-flood: 09:16
6	**7**	**8** Site Inspection CWD Survey (Vessel, Land-based) NM6 WQ General & Regular DCM mid-ebb: 19:01 mid-flood: 06:30	**9** Site Inspection CWD Survey (Vessel)	**10** Site Inspection CWD Survey (Vessel, Land-based) AR1A, AR2 NM1A, NM3A, NM4, NM5 WQ General & Regular DCM mid-ebb: 10:08 mid-flood: 15:03	**11** Site Inspection	**12** WQ General & Regular DCM mid-ebb: 11:17 mid-flood: 17:01
13	**14** CWD Survey (Vessel) NM6	**15** Site Inspection WQ General & Regular DCM mid-ebb: 12:55 mid-flood: 06:22	**16** Site Inspection AR1A, AR2 NM1A, NM3A, NM4, NM5	**17** Site Inspection CWD Survey (Land-based) WQ General & Regular DCM mid-ebb: 14:16 mid-flood: 07:30	**18** Site Inspection CWD Survey (Land-based)	**19** WQ General & Regular DCM mid-ebb: 15:51 mid-flood: 08:48
20	**21** Site Inspection AR1A, AR2 NM1A, NM3A, NM4, NM5	**22** WQ General & Regular DCM mid-ebb: 19:00 mid-flood: 12:01	**23** Site Inspection CWD Survey (Vessel)	**24** Site Inspection CWD Survey (Vessel) NM6 WQ General & Regular DCM mid-ebb: 09:43 mid-flood: 15:13	**25** Site Inspection CWD Survey (Vessel) AR1A, AR2	**26** WQ General & Regular DCM mid-ebb: 11:12 mid-flood: 17:21
27	**28**	**29** Site Inspection NM6 WQ General & Regular DCM mid-ebb: 12:57 mid-flood: 06:17	**30** Site Inspection	**31** Site Inspection AR1A, AR2 NM1A, NM3A, NM4, NM5 WQ General & Regular DCM mid-ebb: 14:07 mid-flood: 07:16		

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

WQ - Water Quality

DCM - Deep Cemenet Mixing

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

Appendix C. Monitoring Results

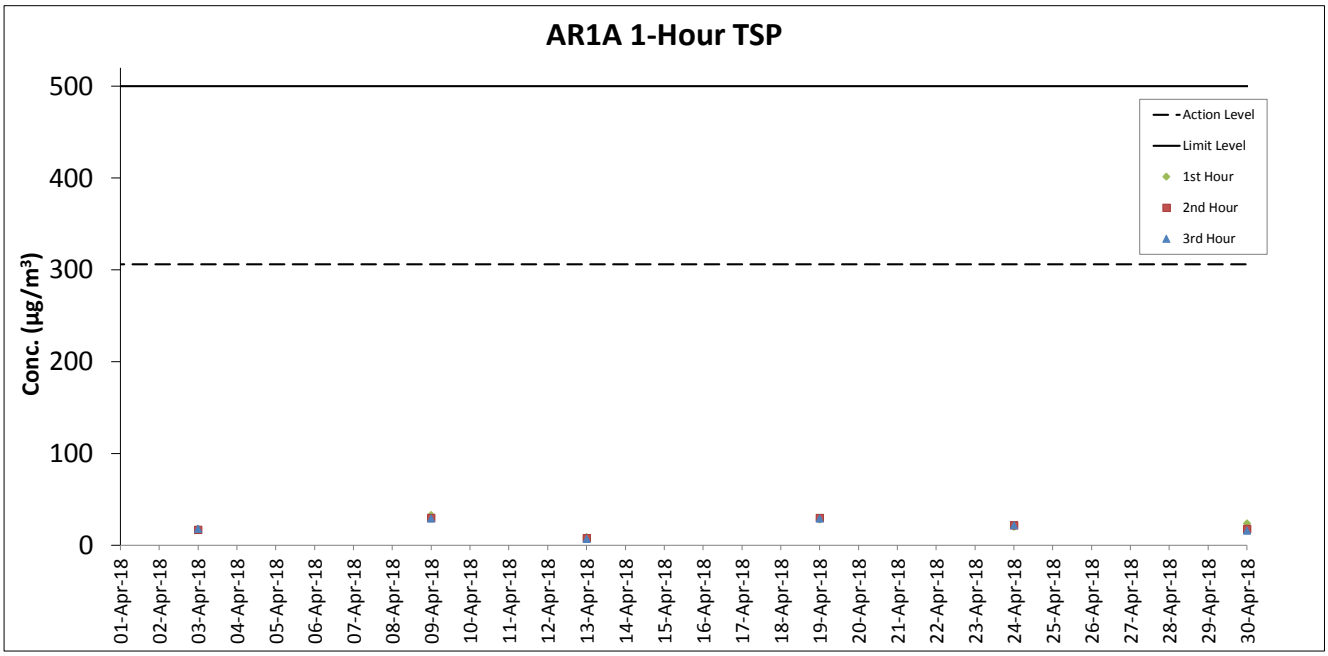
Air Quality Monitoring Results

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

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
03-Apr-18	13:00	Sunny	2.1	195	18	306	500
03-Apr-18	14:00	Sunny	1.9	206	17	306	500
03-Apr-18	15:00	Sunny	2.1	347	18	306	500
09-Apr-18	09:00	Sunny	3.6	195	33	306	500
09-Apr-18	10:00	Sunny	4.2	206	30	306	500
09-Apr-18	11:00	Sunny	5.9	63	29	306	500
13-Apr-18	09:00	Fine	5.7	195	9	306	500
13-Apr-18	10:00	Fine	7.0	206	8	306	500
13-Apr-18	11:00	Fine	7.2	162	7	306	500
19-Apr-18	13:00	Sunny	4.7	195	28	306	500
19-Apr-18	14:00	Sunny	4.3	206	30	306	500
19-Apr-18	15:00	Sunny	3.8	295	29	306	500
24-Apr-18	13:18	Cloudy	2.5	195	20	306	500
24-Apr-18	14:18	Cloudy	2.8	206	22	306	500
24-Apr-18	15:18	Cloudy	2.9	257	22	306	500
30-Apr-18	12:58	Sunny	2.9	195	24	306	500
30-Apr-18	13:58	Sunny	3.4	206	18	306	500
30-Apr-18	14:58	Sunny	1.8	299	16	306	500

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

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
03-Apr-18	08:53	Sunny	2.5	195	147	298	500
03-Apr-18	09:53	Sunny	3.0	206	129	298	500
03-Apr-18	10:53	Sunny	4.1	36	101	298	500
09-Apr-18	08:55	Sunny	3.2	195	135	298	500
09-Apr-18	09:55	Sunny	4.5	206	138	298	500
09-Apr-18	10:55	Sunny	6.7	57	125	298	500
13-Apr-18	08:54	Fine	5.6	195	32	298	500
13-Apr-18	09:54	Fine	6.4	206	28	298	500
13-Apr-18	10:54	Fine	6.9	161	29	298	500
19-Apr-18	09:02	Sunny	6.1	195	125	298	500
19-Apr-18	10:02	Sunny	5.9	206	124	298	500
19-Apr-18	11:02	Sunny	5.5	78	118	298	500
24-Apr-18	09:00	Rainy	2.6	195	123	298	500
24-Apr-18	10:00	Rainy	6.8	206	144	298	500
24-Apr-18	11:00	Rainy	2.0	75	133	298	500
30-Apr-18	09:00	Sunny	4.9	195	102	298	500
30-Apr-18	10:00	Sunny	2.9	206	110	298	500
30-Apr-18	11:00	Sunny	3.5	280	104	298	500


AR1A 1-Hour TSP
Conc. (µg/m³)
500
400
300
200
100
0
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
01-Apr-18
02-Apr-18
03-Apr-18
04-Apr-18
05-Apr-18
06-Apr-18
07-Apr-18
08-Apr-18
09-Apr-18
10-Apr-18
11-Apr-18
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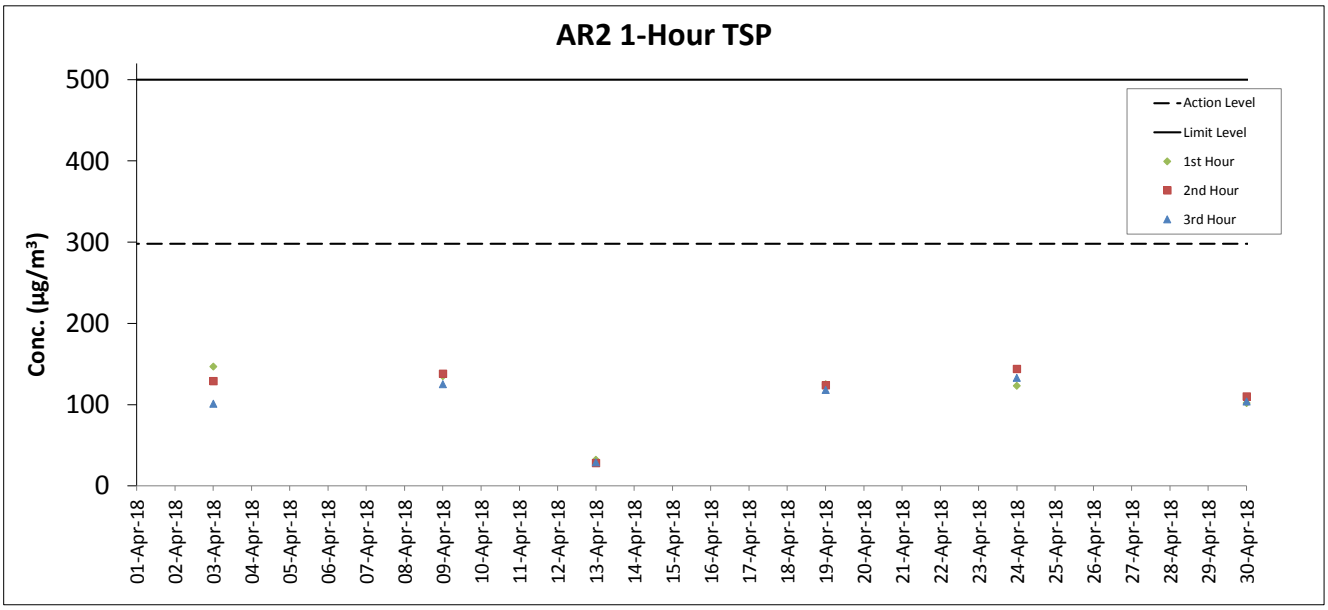
29-Apr-18
30-Apr-18


AR2 1-Hour TSP
Conc. (µg/m³)
500
400
300
200
100
0
Action Level
Limit Level
1st Hour
2nd Hour
3rd Hour
01-Apr-18
02-Apr-18
03-Apr-18
04-Apr-18
05-Apr-18
06-Apr-18
07-Apr-18
08-Apr-18
09-Apr-18
10-Apr-18
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24-Apr-18
25-Apr-18
26-Apr-18
27-Apr-18
28-Apr-18
29-Apr-18
30-Apr-18

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-18	Sunny	13:10	72.5	55.0	72
03-Apr-18	Sunny	13:15	71.5	54.0	
03-Apr-18	Sunny	13:20	71.0	54.0	
03-Apr-18	Sunny	13:25	73.0	55.5	
03-Apr-18	Sunny	13:30	72.5	56.5	
03-Apr-18	Sunny	13:35	71.5	55.0	
09-Apr-18	Sunny	09:30	75.0	56.5	72
09-Apr-18	Sunny	09:35	72.5	54.0	
09-Apr-18	Sunny	09:40	72.0	55.0	
09-Apr-18	Sunny	09:45	74.0	53.5	
09-Apr-18	Sunny	09:50	72.0	56.0	
09-Apr-18	Sunny	09:55	71.0	53.5	
19-Apr-18	Sunny	13:15	72.5	55.5	72
19-Apr-18	Sunny	13:20	71.5	53.5	
19-Apr-18	Sunny	13:25	73.5	55.0	
19-Apr-18	Sunny	13:30	73.5	56.5	
19-Apr-18	Sunny	13:35	72.0	54.5	
19-Apr-18	Sunny	13:40	74.5	55.5	
24-Apr-18	Cloudy	13:39	74.0	57.0	71
24-Apr-18	Cloudy	13:44	72.5	54.5	
24-Apr-18	Cloudy	13:49	71.5	55.5	
24-Apr-18	Cloudy	13:54	72.0	56.5	
24-Apr-18	Cloudy	13:59	71.5	55.0	
24-Apr-18	Cloudy	14:04	70.5	54.0	
30-Apr-18	Fine	13:10	73.0	56.0	72
30-Apr-18	Fine	13:15	71.5	54.5	
30-Apr-18	Fine	13:20	70.5	56.5	
30-Apr-18	Fine	13:25	72.5	56.5	
30-Apr-18	Fine	13:30	73.5	57.0	
30-Apr-18	Fine	13:35	72.0	55.5	

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

Noise Measurement Results
Station: NM3A- Site Office

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
03-Apr-18	Sunny	09:27	60.0	57.5	59
03-Apr-18	Sunny	09:32	59.5	57.5	
03-Apr-18	Sunny	09:37	58.5	57.0	
03-Apr-18	Sunny	09:42	59.0	57.0	
03-Apr-18	Sunny	09:47	59.0	57.0	
03-Apr-18	Sunny	09:52	59.0	57.0	
09-Apr-18	Sunny	13:20	61.5	60.5	62
09-Apr-18	Sunny	13:25	62.0	60.5	
09-Apr-18	Sunny	13:30	62.5	61.0	
09-Apr-18	Sunny	13:35	63.0	61.5	
09-Apr-18	Sunny	13:40	62.5	61.0	
09-Apr-18	Sunny	13:45	61.5	60.5	
19-Apr-18	Fine	09:30	68.5	61.0	61
19-Apr-18	Fine	09:35	66.5	61.0	
19-Apr-18	Fine	09:40	69.0	61.0	
19-Apr-18	Fine	09:45	67.0	60.5	
19-Apr-18	Fine	09:50	68.5	60.5	
19-Apr-18	Fine	09:55	66.5	60.5	
26-Apr-18	Cloudy	11:23	67.0	60.5	57
26-Apr-18	Cloudy	11:28	66.5	60.5	
26-Apr-18	Cloudy	11:33	67.0	60.5	
26-Apr-18	Cloudy	11:38	67.5	60.5	
26-Apr-18	Cloudy	11:43	68.5	60.5	
26-Apr-18	Cloudy	11:48	70.0	60.5	
30-Apr-18	Fine	10:35	68.0	60.5	57
30-Apr-18	Fine	10:40	68.5	61.0	
30-Apr-18	Fine	10:45	68.5	61.0	
30-Apr-18	Fine	10:50	63.0	60.5	
30-Apr-18	Fine	10:55	62.0	61.0	
30-Apr-18	Fine	11:00	62.5	61.0	

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-18	Sunny	14:05	60.0	56.5	63
03-Apr-18	Sunny	14:10	61.0	56.5	
03-Apr-18	Sunny	14:15	63.5	56.5	
03-Apr-18	Sunny	14:20	64.5	58.0	
03-Apr-18	Sunny	14:25	62.5	57.0	
03-Apr-18	Sunny	14:30	61.5	57.5	
09-Apr-18	Sunny	14:59	62.0	58.0	64
09-Apr-18	Sunny	15:04	62.5	57.5	
09-Apr-18	Sunny	15:09	61.0	57.0	
09-Apr-18	Sunny	15:14	62.5	57.5	
09-Apr-18	Sunny	15:19	63.5	58.0	
09-Apr-18	Sunny	15:24	65.0	59.0	
19-Apr-18	Sunny	14:32	62.5	60.0	66
19-Apr-18	Sunny	14:37	66.5	61.0	
19-Apr-18	Sunny	14:42	65.0	60.5	
19-Apr-18	Sunny	14:47	65.0	60.0	
19-Apr-18	Sunny	14:52	63.0	59.5	
19-Apr-18	Sunny	14:57	63.5	59.5	
24-Apr-18	Cloudy	13:27	63.0	60.5	65
24-Apr-18	Cloudy	13:32	63.5	60.5	
24-Apr-18	Cloudy	13:37	64.0	60.5	
24-Apr-18	Cloudy	13:42	63.5	60.5	
24-Apr-18	Cloudy	13:47	63.5	60.5	
24-Apr-18	Cloudy	13:52	63.5	61.0	
30-Apr-18	Sunny	14:27	66.0	59.5	64
30-Apr-18	Sunny	14:32	62.0	58.5	
30-Apr-18	Sunny	14:37	62.5	58.5	
30-Apr-18	Sunny	14:42	62.5	58.5	
30-Apr-18	Sunny	14:47	61.5	58.0	
30-Apr-18	Sunny	14:52	62.5	57.5	

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

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
03-Apr-18	Sunny	09:01	53.5	48.0	61
03-Apr-18	Sunny	09:06	59.5	48.5	
03-Apr-18	Sunny	09:11	56.5	50.0	
03-Apr-18	Sunny	09:16	54.5	49.5	
03-Apr-18	Sunny	09:21	62.0	48.5	
03-Apr-18	Sunny	09:26	62.0	49.5	
09-Apr-18	Sunny	08:55	63.5	51.0	59
09-Apr-18	Sunny	09:00	59.5	51.0	
09-Apr-18	Sunny	09:05	56.5	48.0	
09-Apr-18	Sunny	09:10	56.5	48.5	
09-Apr-18	Sunny	09:15	56.0	48.5	
09-Apr-18	Sunny	09:20	59.0	48.5	
19-Apr-18	Sunny	09:08	65.5	54.5	61
19-Apr-18	Sunny	09:13	62.0	53.5	
19-Apr-18	Sunny	09:18	59.5	53.5	
19-Apr-18	Sunny	09:23	62.0	54.0	
19-Apr-18	Sunny	09:28	61.0	54.5	
19-Apr-18	Sunny	09:33	63.5	54.5	
26-Apr-18	Cloudy	11:06	61.5	50.0	57
26-Apr-18	Cloudy	11:11	63.5	51.0	
26-Apr-18	Cloudy	11:16	54.5	49.5	
26-Apr-18	Cloudy	11:21	55.0	50.0	
26-Apr-18	Cloudy	11:26	58.5	50.0	
26-Apr-18	Cloudy	11:31	59.5	49.0	
30-Apr-18	Sunny	09:01	53.0	45.0	54
30-Apr-18	Sunny	09:06	57.0	45.0	
30-Apr-18	Sunny	09:11	53.0	43.5	
30-Apr-18	Sunny	09:16	52.0	45.0	
30-Apr-18	Sunny	09:21	50.0	43.0	
30-Apr-18	Sunny	09:26	54.5	44.5	

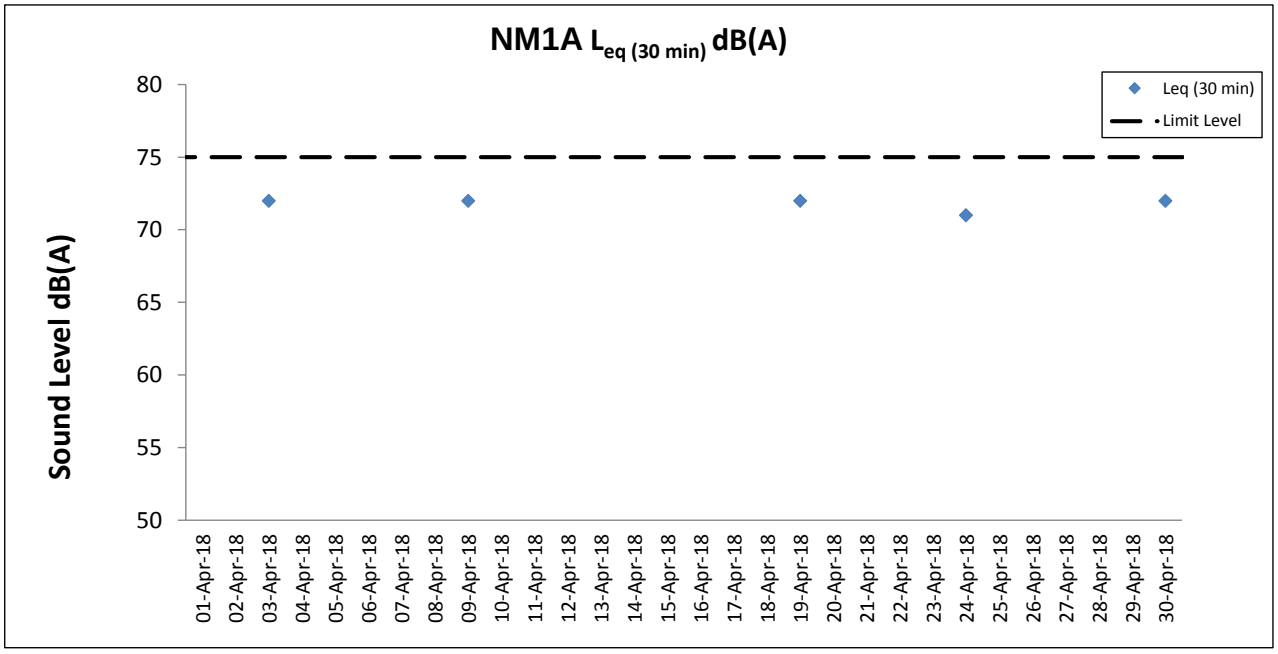
Remarks:
+3dB (A) correction was applied to free-field measurement.

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)
04-Apr-18	Sunny	09:42	68.5	51.5	70
04-Apr-18	Sunny	09:47	73.0	55.0	
04-Apr-18	Sunny	09:52	76.5	50.5	
04-Apr-18	Sunny	09:57	73.0	50.0	
04-Apr-18	Sunny	10:02	72.5	48.5	
04-Apr-18	Sunny	10:07	61.0	49.5	
12-Apr-18	Sunny	09:41	73.5	60.0	68
12-Apr-18	Sunny	09:46	74.0	55.5	
12-Apr-18	Sunny	09:51	72.0	58.5	
12-Apr-18	Sunny	09:56	71.5	55.5	
12-Apr-18	Sunny	10:01	69.0	59.0	
12-Apr-18	Sunny	10:06	71.0	57.5	
17-Apr-18	Cloudy	09:39	76.0	59.5	74
17-Apr-18	Cloudy	09:44	80.0	59.5	
17-Apr-18	Cloudy	09:49	74.0	57.5	
17-Apr-18	Cloudy	09:54	77.5	57.0	
17-Apr-18	Cloudy	09:59	71.5	51.0	
17-Apr-18	Cloudy	10:04	74.5	54.0	
26-Apr-18	Cloudy	09:42	67.0	52.5	62
26-Apr-18	Cloudy	09:47	69.5	54.5	
26-Apr-18	Cloudy	09:52	68.0	57.0	
26-Apr-18	Cloudy	09:57	70.5	61.5	
26-Apr-18	Cloudy	10:02	69.0	54.0	
26-Apr-18	Cloudy	10:07	70.5	53.5	

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


NM1A $L_{eq\ (30\ min)}$ dB(A)
Sound Level dB(A)
80
75
70
65
60
55
50
Leq (30 min)
Limit Level
01-Apr-18
02-Apr-18
03-Apr-18
04-Apr-18
05-Apr-18
06-Apr-18
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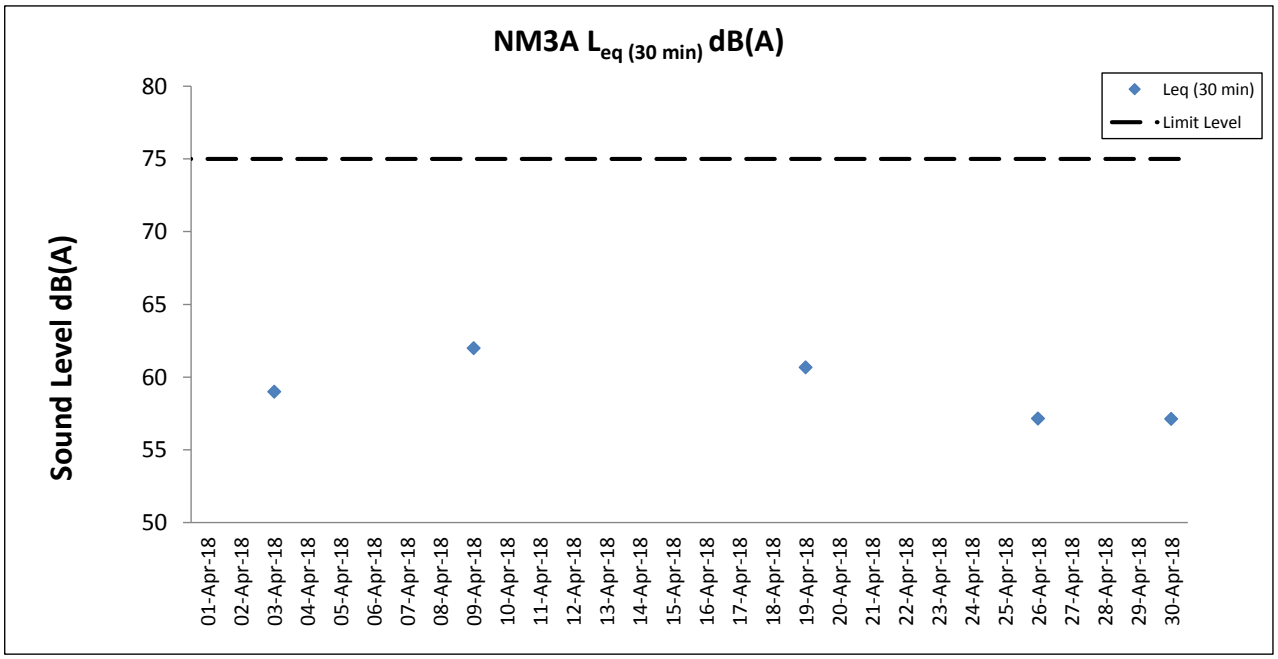
30-Apr-18


NM3A $L_{eq\ (30\ min)}$ dB(A)
Sound Level dB(A)
80
75
70
65
60
55
50
Leq (30 min)
Limit Level
01-Apr-18
02-Apr-18
03-Apr-18
04-Apr-18
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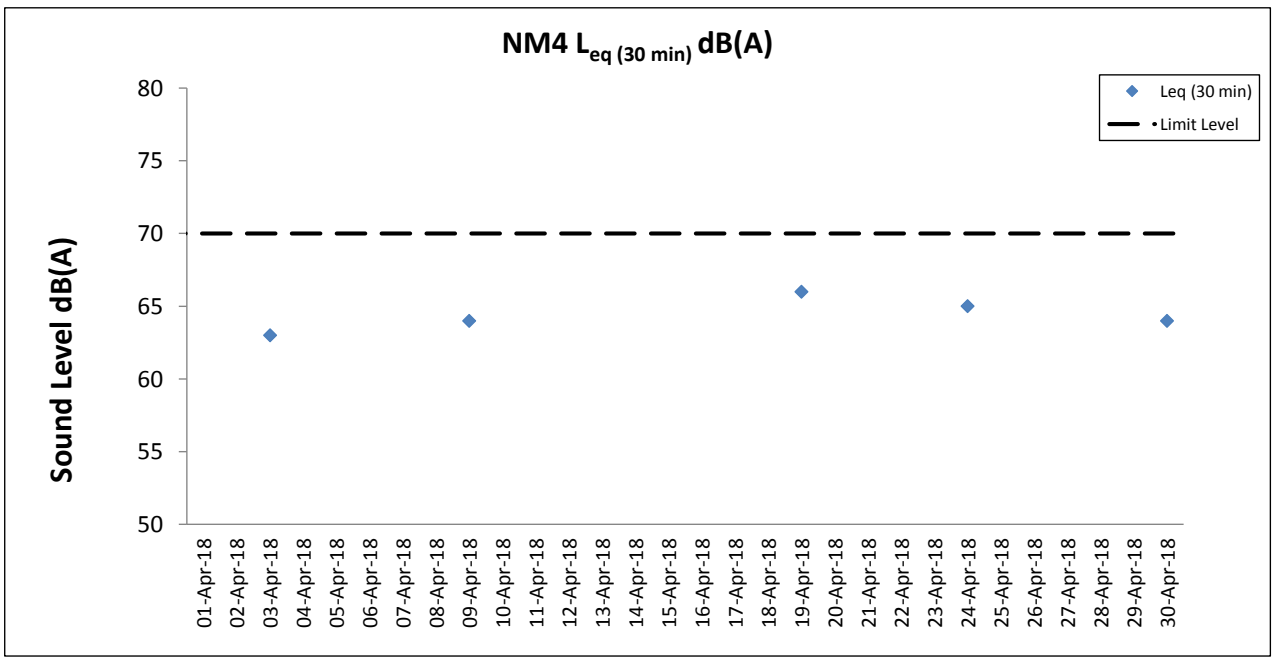
30-Apr-18


NM4 $L_{eq\ (30\ min)}$ dB(A)
Sound Level dB(A)
80
75
70
65
60
55
50
Leq (30 min)
Limit Level
01-Apr-18
02-Apr-18
03-Apr-18
04-Apr-18
05-Apr-18
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07-Apr-18
08-Apr-18
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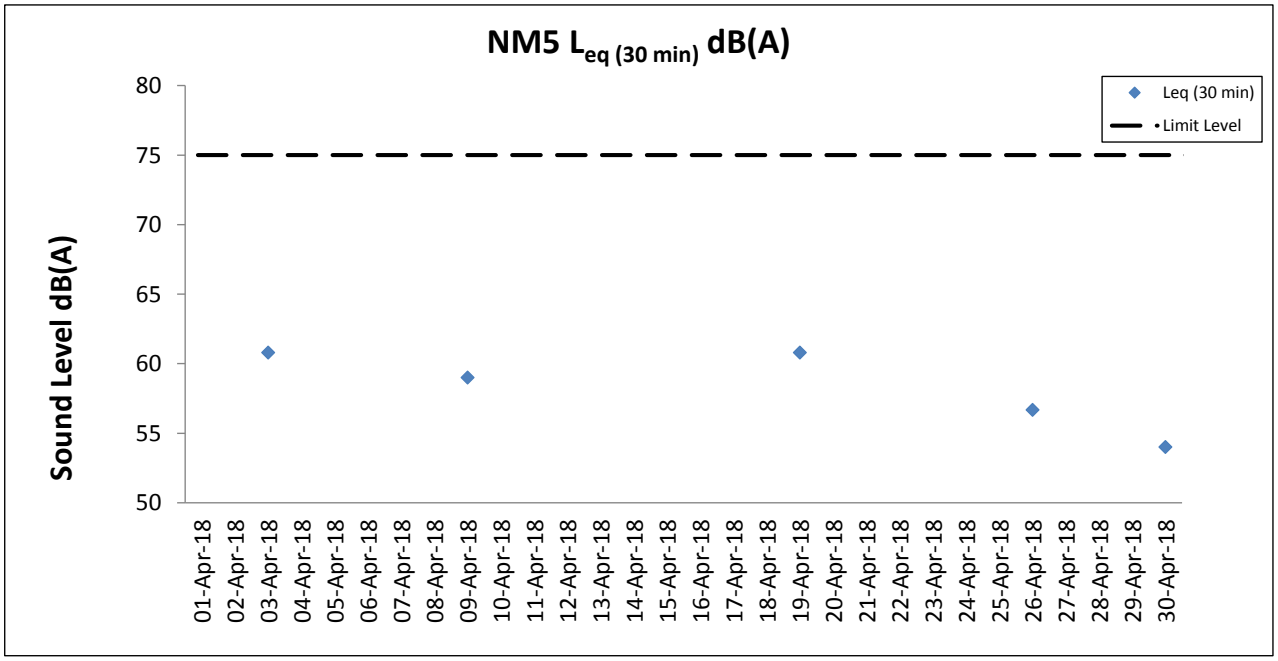
NM5 Leq (30 min) dB(A)
Sound Level dB(A)
80
75
70
65
60
55
50
Leq (30 min)
Limit Level
01-Apr-18
02-Apr-18
03-Apr-18
04-Apr-18
05-Apr-18
06-Apr-18
07-Apr-18
08-Apr-18
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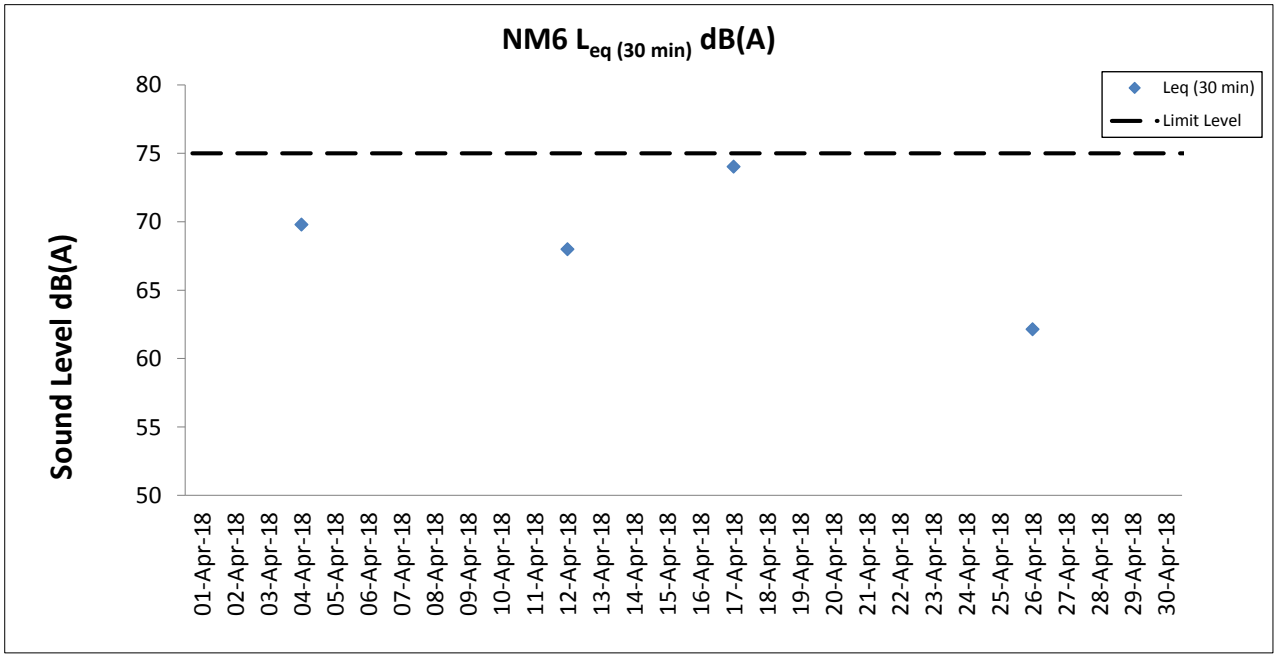
30-Apr-18


NM6 Leq (30 min) dB(A)
Sound Level dB(A)
80
75
70
65
60
55
50
Leq (30 min)
Limit Level
01-Apr-18
02-Apr-18
03-Apr-18
04-Apr-18
05-Apr-18
06-Apr-18
07-Apr-18
08-Apr-18
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29-Apr-18
30-Apr-18

Water Quality Monitoring Results

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

Water Quality Monitoring

Water Quality Monitoring Results on 03 April 18 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	14:04	8.5	Surface	1.0	0.2	194	23.0	23.0	8.1	8.1	28.7	28.7	101.8	101.9	7.4	7.4	2.8	9.0	6	6	72	74	815635	804233	<0.2	<0.2	1.8	2.2
						1.0	0.2	201	23.0		8.1		28.7		101.9		7.4		2.8		6		72				<0.2		2.1	
					Middle	4.3	0.4	210	22.1	22.1	8.1	8.1	30.1	30.1	99.8	99.8	7.3		4.4		7		74				<0.2		2.2	
						4.3	0.4	227	22.1		8.1		30.1		99.7		7.3		4.5		6		74				<0.2		2.2	
					Bottom	7.5	0.4	212	21.9	21.9	8.1	8.1	30.7	30.7	99.0	99.0	7.3	7.3	19.7		7		75				<0.2		2.5	
						7.5	0.4	212	21.9		8.1		30.7		99.0		7.3		19.9		6		76				<0.2		2.5	
C2	Fine	Moderate	13:02	12.1	Surface	1.0	0.4	148	23.1	23.1	7.8	7.8	26.6	26.6	91.7	91.7	6.7	6.7	7.4	11.6	12	12	73	75	825680	806942	<0.2	<0.2	3.0	3.1
						1.0	0.4	160	23.1		7.8		26.6		91.6		6.7		7.5		11		73				<0.2		2.8	
					Middle	6.1	0.5	165	22.5	22.5	7.9	7.9	28.9	28.9	90.6	90.6	6.6		10.5		12		75				<0.2		3.0	
						6.1	0.5	165	22.5		7.9		28.9		90.6		6.6		10.5		12		75				<0.2		3.2	
					Bottom	11.1	0.3	170	22.3	22.3	7.9	7.9	29.8	29.8	90.3	90.4	6.6	6.6	16.8		13		77				<0.2		3.3	
						11.1	0.3	177	22.3		7.9		29.8		90.4		6.6		16.7		12		77				<0.2		3.4	
C3	Fine	Moderate	14:46	12.1	Surface	1.0	0.3	63	22.9	22.9	7.9	7.9	29.2	29.2	93.5	93.5	6.8	6.7	11.6	12.6	11	12	73	75	822134	817786	<0.2	<0.2	2.2	2.0
						1.0	0.3	66	22.9		7.9		29.2		93.5		6.8		11.5		11		73				<0.2		1.9	
					Middle	6.1	0.1	97	22.4	22.4	7.9	7.9	29.9	29.9	90.6	90.7	6.6		15.9		11		75				<0.2		2.0	
						6.1	0.1	99	22.4		7.9		29.9		90.7		6.6		15.9		12		75				<0.2		1.9	
					Bottom	11.1	0.1	112	22.3	22.3	7.9	7.9	30.2	30.2	90.5	90.5	6.6	6.6	10.3		13		77				<0.2		1.9	
						11.1	0.1	114	22.3		7.9		30.2		90.5		6.6		10.2		14		77				<0.2		1.8	
IM1	Fine	Moderate	13:45	7.6	Surface	1.0	0.1	206	23.2	23.2	8.1	8.1	29.0	29.0	101.9	102.0	7.4	7.4	4.1	5.6	8	8	72	74	818341	806487	<0.2	<0.2	2.2	2.1
						1.0	0.2	224	23.2		8.1		29.0		102.0		7.4		4.1		9		72				<0.2		2.0	
					Middle	3.8	0.2	187	22.6	22.6	8.1	8.1	29.5	29.5	100.8	100.8	7.4		3.8		8		73				<0.2		2.3	
						3.8	0.2	195	22.6		8.1		29.5		100.8		7.4		3.8		7		74				<0.2		2.1	
					Bottom	6.6	0.3	181	22.1	22.1	8.1	8.1	30.3	30.3	98.8	98.8	7.2	7.2	9.0		7		75				<0.2		2.0	
						6.6	0.3	195	22.1		8.1		30.3		98.8		7.2		9.1		7		76				<0.2		1.9	
IM2	Fine	Moderate	13:40	8.5	Surface	1.0	0.1	227	23.2	23.2	8.1	8.1	28.9	28.9	100.5	100.6	7.3	7.3	5.7	6.2	9	9	72	74	818824	806170	<0.2	<0.2	2.4	2.2
						1.0	0.2	232	23.2		8.1		28.9		100.6		7.3		5.7		8		73				<0.2		2.3	
					Middle	4.3	0.1	210	22.5	22.5	8.1	8.1	29.9	29.9	100.6	100.5	7.3		4.8		9		74				<0.2		2.5	
						4.3	0.1	216	22.5		8.1		29.9		100.4		7.3		5.1		8		74				<0.2		2.2	
					Bottom	7.5	0.2	210	22.1	22.1	8.1	8.1	30.4	30.4	98.5	98.5	7.2	7.2	8.0		11		76				<0.2		2.0	
						7.5	0.2	213	22.1		8.1		30.4		98.4		7.2		7.9		9		77				<0.2		2.0	
IM3	Fine	Moderate	13:35	8.7	Surface	1.0	0.1	188	22.9	22.9	8.1	8.1	29.5	29.5	99.2	99.2	7.2	7.2	6.6	9.0	9	10	72	74	819419	806034	<0.2	<0.2	1.6	1.5
						1.0	0.1	201	22.8		8.1		29.5		99.1		7.2		6.6		10		72				<0.2		1.5	
					Middle	4.4	0.3	189	22.6	22.6	8.1	8.1	29.6	29.6	98.0	98.0	7.1		8.6		9		73				<0.2		1.6	
						4.4	0.3	205	22.6		8.1		29.6		98.0		7.1		8.6		10		74				<0.2		1.5	
					Bottom	7.7	0.2	195	22.0	22.0	8.1	8.1	30.4	30.4	97.2	97.2	7.1	7.1	11.9		11		76				<0.2		1.5	
						7.7	0.2	201	22.0		8.1		30.4		97.1		7.1		12.0		13		77				<0.2		1.5	
IM4	Fine	Moderate	13:28	7.9	Surface	1.0	0.3	190	22.6	22.6	8.1	8.1	29.6	29.6	98.3	98.3	7.2	7.2	8.0	11.5	12	13	71	73	819547	805039	<0.2	<0.2	2.2	2.1
						1.0	0.3	200	22.6		8.1		29.6		98.3		7.2		8.1		14		72				<0.2		2.1	
					Middle	4.0	0.3	176	22.1	22.1	8.1	8.1	29.9	29.9	96.5	96.5	7.1		12.7		13		73				<0.2		2.1	
						4.0	0.3	176	22.1		8.1		29.9		96.5		7.1		12.8		13		73				<0.2		2.0	
					Bottom	6.9	0.2	182	22.0	22.0	8.1	8.1	30.0	30.0	96.5	96.5	7.1	7.1	13.6		12		75				<0.2		2.0	
						6.9	0.3	193	22.0		8.1		30.0		96.5		7.1		13.6		13		76				<0.2		1.9	
IM5	Fine	Moderate	13:19	7.3	Surface	1.0	0.2	164	22.3	22.3	8.1	8.1	29.2	29.2	96.2	96.2	7.1	7.1	11.7	12.9	15	15	71	73	820535	804951	<0.2	<0.2	2.0	1.8
						1.0	0.2	171	22.3		8.1		29.2		96.2		7.1		11.8		14		72				<0.2		1.9	
					Middle	3.7	0.2	146	22.3	22.3	8.1	8.1	29.3	29.3	96.0	96.0	7.1		11.8		15		73				<0.2		1.7	
						3.7	0.2	158	22.3		8.1		29.3		96.0		7.1		11.8		14		73				<0.2		1.8	
					Bottom	6.3	0.1	206	22.2	22.2	8.1	8.1	29.5	29.5	95.7	95.7	7.0	7.0	15.3		15		75				<0.2		1.9	
						6.3	0.1	226	22.2		8.1		29.5		95.7		7.0		15.0		16		75				<0.2		1.7	
IM6	Fine	Moderate	13:11	7.2	Surface	1.0	0.1	137	22.8	22.8	8.1	8.1	29.1	29.1	98.0	97.9	7.1	7.1	8.3	11.1	11	11	72	73	821046	805802	<0.2	<0.2	2.1	1.9
						1.0	0.1	141	22.8		8.1		29.1		97.8		7.1		8.5		11		72				<0.2		2.0	
					Middle	3.6	0.2	192	22.4	22.4	8.1	8.1	29.4	29.4	96.3	96.3	7.1		10.3		10		73				<0.2		1.9	
						3.6	0.2	194	22.4		8.1		29.4		96.3		7.1		10.4		11		73				<0.2		1.8	
					Bottom	6.2	0.2	183	22.3	22.3	8.1	8.1	29.5	29.5	95.6	95.6	7.0	7.0	14.8		11		75				<0.2		1.9	
						6.2	0.2	184	22.3		8.1		29.5		95.6		7.0		14.3		12		75				<0.2		1.7	
IM7	Fine	Moderate	13:03	8.8	Surface	1.0	0.2	151	23.3	23.3	8.1	8.1	25.5	25.5	94.3	94.5	6.9	7.0	7.2	12.6	7	9	72	73	821344	806863	<0.2	<0.2	1.2	1.1
						1.0	0.2	160	23.3		8.1		25.5		94.6		7.0		7.3		8		72				<0.2		1.1	
					Middle	4.4	0.3	108	22.7	22.7	8.1	8.1	29.2	29.2	96.7	96.7	7.1		10.2		8		73				<0.2		1.2	
						4.4	0.3	114	22.7		8.1		29.2		96.7		7.1		10.3		9		73				<0.2		1.2	
					Bottom	7.8	0.0	4	22.4	22.4	8.1	8.1	29.4	29.4	95.5	95.5	7.0	7.0	20.3		11		75				<0.2		1.1	
						7.8	0.0	4	22.4		8.1		29.4		95.5		7.0		20.3		10		75				<0.2		1.0	
IM8	Fine	Moderate	13:27	8.4	Surface	1.0	0.2	147	22.8	22.8	7.9	7.9	27.4	27.4	95.2	95.3	7.0	7.2	10.9	12.5	8	8	73	75	821710	807841	<0.2	<0.2	1.9	1.9
						1.0	0.2	158	22.8		7.9		27.4		95.4		7.0		10.9		7		74				<0.2		1.9	
					Middle	4.2	0.3	82	23.0	23.0	8.0	8.0	29.8	29.8	100.5	100.6	7.3		12.8		7		75				<0.2		1.9	
						4.2	0.3	86	23.0		8.0		29.9		100.6		7.3		12.8		7		76				<0.2		1.9	
					Bottom	7.4	0.3	50	22.5	22.5	8.0	8.0	30.7	30.7	100.0	100.0	7.3	7.3	13.9		8		77				<0.2		1.9	
						7.4	0.3	54	22.5		8.0		30.7		100.0		7.3		13.9		8		77				<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 03 April 18 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	13:35	7.4	Surface	1.0	0.4	121	22.7	22.7	7.9	7.9	28.7	28.7	96.8	96.8	7.1	7.2	15.9	18.0	16	15	73	75	822104	808812	<0.2	<0.2	1.2	1.2
						1.0	0.5	122	22.7		7.9		28.7		96.8		7.1		15.8		15		73				<0.2		1.2	
					Middle	3.7	0.4	93	22.6	22.6	8.0	8.0	29.9	29.8	98.9	98.9	7.2		17.9		14		75				<0.2		1.1	
						3.7	0.4	93	22.6		8.0		29.8		98.9		7.2		17.8		14		76				<0.2		1.2	
					Bottom	6.4	0.3	75	22.6	22.6	8.0	8.0	30.4	30.4	100.0	100.0	7.2	7.2	20.5		14		77				<0.2		1.2	
						6.4	0.3	77	22.6		8.0		30.4		100.0		7.2		20.2		14		77				<0.2		1.0	
IM10	Fine	Moderate	13:44	8.3	Surface	1.0	0.7	109	23.2	23.2	7.9	7.9	27.5	27.6	96.4	96.4	7.0	7.1	12.0	15.3	9	8	73	75	822240	809862	<0.2	<0.2	1.8	1.8
						1.0	0.7	116	23.2		7.9		27.6		96.4		7.0		12.0		8		73				<0.2		1.9	
					Middle	4.2	0.6	102	22.7	22.7	8.0	8.0	29.2	29.2	97.2	97.3	7.1		14.3		7		75				<0.2		1.8	
						4.2	0.7	109	22.7		8.0		29.2		97.3		7.1		14.2		7		75				<0.2		1.8	
					Bottom	7.3	0.4	82	22.7	22.7	8.0	8.0	29.9	29.9	97.8	97.8	7.1	7.1	19.5		8		77				<0.2		1.9	
						7.3	0.5	84	22.7		8.0		29.9		97.8		7.1		19.8		7		77				<0.2		1.8	
IM11	Fine	Moderate	13:55	8.4	Surface	1.0	0.5	115	23.3	23.3	7.9	7.9	27.4	27.4	96.8	96.8	7.1	7.1	13.0	15.7	13	13	73	75	821472	810547	<0.2	<0.2	1.2	1.6
						1.0	0.6	119	23.3		7.9		27.4		96.8		7.1		13.1		12		73				<0.2		1.2	
					Middle	4.2	0.4	100	22.9	22.9	8.0	8.0	29.0	29.0	97.6	97.7	7.1		15.2		14		75				<0.2		1.9	
						4.2	0.4	109	22.9		8.0		29.0		97.7		7.1		15.6		13		75				<0.2		1.8	
					Bottom	7.4	0.4	70	22.9	22.9	8.1	8.1	29.6	29.6	98.3	98.4	7.1	7.1	18.7		13		77				<0.2		1.6	
						7.4	0.4	72	22.9		8.1		29.6		98.4		7.1		18.8		14		77				<0.2		1.8	
IM12	Fine	Moderate	14:02	9.1	Surface	1.0	0.5	110	23.5	23.5	8.0	8.0	27.4	27.4	97.9	98.0	7.1	7.1	9.7	13.4	10	10	73	75	821152	811527	<0.2	<0.2	1.7	1.7
						1.0	0.6	111	23.5		8.0		27.4		98.0		7.1		9.7		9		73				<0.2		1.7	
					Middle	4.6	0.5	91	23.1	23.1	8.0	8.0	29.0	29.0	98.2	98.2	7.1		13.5		10		75				<0.2		1.6	
						4.6	0.5	92	23.1		8.0		29.1		98.2		7.1		13.6		10		75				<0.2		1.6	
					Bottom	8.1	0.4	84	23.0	23.0	8.1	8.1	29.5	29.5	98.1	98.1	7.1	7.1	17.1		10		77				<0.2		1.7	
						8.1	0.4	89	23.0		8.1		29.5		98.1		7.1		17.0		11		77				<0.2		1.6	
SR2	Fine	Moderate	14:28	3.2	Surface	1.0	0.4	82	22.8	22.8	7.9	7.9	28.4	28.4	91.0	91.0	6.7	6.7	13.2	14.2	9	9	73	74	821440	814152	<0.2	<0.2	1.6	1.5
						1.0	0.4	84	22.8		7.9		28.4		91.0		6.7		13.6		9		73				<0.2		1.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.4	78	22.8	22.8	7.9	7.9	28.4	28.4	91.0	91.0	6.7	6.7	15.0		9		75				<0.2		1.6	
						2.2	0.4	85	22.8		7.9		28.4		91.0		6.7		15.0		9		75				<0.2		1.4	
SR3	Fine	Moderate	13:22	9.2	Surface	1.0	0.3	167	22.8	22.8	7.9	7.9	27.7	27.7	94.7	94.7	7.0	7.1	9.8	13.0	6	7	-	-	822170	807571	-	-	-	-
						1.0	0.3	170	22.8		7.9		27.7		94.7		7.0		9.9		7		-				-		-	
					Middle	4.6	0.2	117	22.7	22.7	7.9	7.9	28.8	28.7	96.8	96.9	7.1		13.4		7		-				-		-	
						4.6	0.2	126	22.7		7.9		28.7		96.9		7.1		13.4		8		-				-		-	
					Bottom	8.2	0.3	65	22.5	22.5	8.0	8.0	30.7	30.7	99.8	99.8	7.2	7.2	15.7		7		-				-		-	
						8.2	0.3	68	22.5		8.0		30.7		99.7		7.2		15.5		8		-				-		-	
SR4A	Fine	Calm	14:27	8.7	Surface	1.0	0.5	54	22.6	22.6	8.1	8.1	29.3	29.3	96.9	96.9	7.1	7.1	10.1	10.7	14	14	-	-	817162	807832	-	-	-	-
						1.0	0.6	55	22.6		8.1		29.3		96.9		7.1		10.1		15		-				-		-	
					Middle	4.4	0.4	60	22.5	22.5	8.1	8.1	29.5	29.5	96.7	96.8	7.1		10.9		14		-				-		-	
						4.4	0.4	64	22.5		8.1		29.5		96.8		7.1		10.9		15		-				-		-	
					Bottom	7.7	0.4	61	22.3	22.3	8.1	8.1	29.9	29.9	96.1	96.1	7.0	7.0	11.0		13		-				-		-	
						7.7	0.4	63	22.3		8.1		29.9		96.1		7.0		11.2		15		-				-		-	
SR5A	Fine	Calm	14:42	5.0	Surface	1.0	0.0	19	23.5	23.5	8.0	8.0	28.0	28.0	89.8	89.9	6.5	6.5	9.4	9.6	15	14	-	-	816569	810676	-	-	-	-
						1.0	0.0	20	23.5		8.0		28.0		90.0		6.5		9.5		14		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	127	23.3	23.3	8.0	8.0	28.2	28.2	92.1	92.2	6.7	6.7	9.8		14		-				-		-	
						4.0	0.2	127	23.3		8.0		28.2		92.2		6.7		9.8		13		-				-		-	
SR6	Fine	Calm	15:07	3.8	Surface	1.0	0.1	72	23.5	23.5	8.0	8.0	27.6	27.6	88.5	88.5	6.4	6.4	8.8	10.7	12	12	-	-	817883	814633	-	-	-	-
						1.0	0.1	75	23.5		8.0		27.6		88.5		6.4		8.7		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	92	23.1	23.1	8.0	8.0	27.9	27.9	87.1	87.1	6.3	6.4	12.5		12		-				-		-	
						2.8	0.1	92	23.1		8.0		27.9		87.1		6.4		12.9		12		-				-		-	
SR7	Fine	Moderate	15:15	18.7	Surface	1.0	0.7	80	23.0	23.0	7.9	7.9	29.2	29.2	95.0	95.0	6.9	6.8	5.9	6.9	8	8	-	-	823647	823721	-	-	-	-
						1.0	0.7	81	23.0		7.9		29.2		95.0		6.9		5.9		8		-				-		-	
					Middle	9.4	0.4	77	22.3	22.3	7.9	7.9	30.6	30.6	91.6	91.6	6.7		7.1		9		-				-		-	
						9.4	0.4	82	22.3		7.9		30.6		91.6		6.7		7.1		8		-				-		-	
					Bottom	17.7	0.2	49	22.3	22.3	8.0	8.0	30.6	30.6	91.9	91.9	6.7	6.7	7.5		7		-				-		-	
						17.7	0.2	49	22.3		8.0		30.6		91.9		6.7		7.6		8		-				-		-	
SR8	Fine	Moderate	14:12	4.1	Surface	1.0	-	-	23.0	23.0	7.9	7.9	28.1	28.1	92.3	92.4	6.7	6.7	12.2	13.3	10	10	-	-	820246	811418	-	-	-	-
						1.0	-	-	23.0		7.9		28.1		92.4		6.7		12.2		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	22.9	22.9	7.9	7.9	28.4	28.4	93.1	93.2	6.8	6.8	14.5		10		-				-		-	
						3.1	-	-	22.9		7.9		28.4		93.3		6.8		14.4		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 03 April 18 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	08:59	8.5	Surface	1.0	0.6	13	22.3	22.3	8.1	8.1	29.3	29.3	96.4	96.4	7.1	7.1	11.1	17.6	14	14	71	73	815614	804264	<0.2	<0.2	1.4	1.1
						1.0	0.6	14	22.3		8.1		29.3		96.4		7.1		11.2		14		72				<0.2		1.3	
					Middle	4.3	0.5	16	22.2	22.2	8.1	8.1	29.4	29.4	96.0	96.0	7.1		20.1		14		73				<0.2		1.1	
						4.3	0.5	17	22.2		8.1		29.4		96.0		7.1		20.5		12		73				<0.2		1.0	
					Bottom	7.5	0.5	20	22.1	22.1	8.1	8.1	29.6	29.6	95.5	95.5	7.0	7.0	21.3		14		75				<0.2		1.0	
						7.5	0.5	20	22.1		8.1		29.6		95.5		7.0		21.4		14		76				<0.2		1.0	
C2	Fine	Moderate	09:37	12.2	Surface	1.0	0.6	10	23.0	23.0	7.8	7.8	27.2	27.2	88.7	88.7	6.6	6.6	6.1	11.8	8	8	73	75	825661	806927	<0.2	<0.2	3.2	3.3
						1.0	0.6	10	22.9		7.8		27.2		88.7		6.6		6.1		9		73				<0.2		3.3	
					Middle	6.1	0.6	4	22.6	22.6	7.8	7.8	27.2	27.2	88.7	88.7	6.6		10.7		8		75				<0.2		3.4	
						6.1	0.6	4	22.6		7.9		27.2		88.7		6.6		10.8		8		75				<0.2		3.3	
					Bottom	11.2	0.4	330	22.5	22.5	7.9	7.9	27.2	27.2	88.5	88.5	6.6	6.6	18.9		8		77				<0.2		3.3	
						11.2	0.4	341	22.5		7.9		27.2		88.5		6.6		18.0		8		77				<0.2		3.4	
C3	Fine	Moderate	07:42	11.3	Surface	1.0	0.6	268	22.6	22.6	8.0	8.0	26.6	26.6	88.5	88.5	6.7	6.7	5.0	8.8	9	10	73	75	822081	817813	<0.2	<0.2	2.0	2.1
						1.0	0.6	292	22.6		8.0		26.6		88.5		6.7		5.0		10		73				<0.2		2.1	
					Middle	5.7	0.7	262	22.4	22.4	8.0	8.0	27.7	27.7	90.1	90.2	6.7		6.8		9		75				<0.2		2.0	
						5.7	0.8	265	22.4		8.0		27.7		90.2		6.7		7.0		10		74				<0.2		2.1	
					Bottom	10.3	0.5	263	22.3	22.3	8.0	8.0	28.9	28.9	90.4	90.5	6.7	6.7	14.5		11		76				<0.2		2.2	
						10.3	0.6	289	22.3		8.0		28.9		90.5		6.7		14.6		9		77				<0.2		2.3	
IM1	Fine	Moderate	09:15	7.8	Surface	1.0	0.6	347	22.6	22.6	8.1	8.1	27.9	27.9	93.2	93.2	6.9	6.9	12.3	19.1	12	14	72	74	818339	806442	<0.2	<0.2	3.0	3.0
						1.0	0.7	319	22.6		8.1		27.9		93.2		6.9		12.3		12		72				<0.2		3.0	
					Middle	3.9	0.5	0	22.5	22.5	8.1	8.1	28.2	28.2	93.0	93.0	6.9		20.5		12		73				<0.2		2.9	
						3.9	0.6	0	22.5		8.1		28.2		93.0		6.9		20.5		11		74				<0.2		3.0	
					Bottom	6.8	0.4	345	22.4	22.4	8.1	8.1	28.3	28.3	92.9	92.9	6.8	6.8	24.7		17		75				<0.2		3.1	
						6.8	0.5	351	22.4		8.1		28.3		92.8		6.8		24.3		17		76				<0.2		3.0	
IM2	Fine	Moderate	09:20	8.6	Surface	1.0	0.7	14	22.5	22.5	8.1	8.1	27.4	27.5	93.9	94.0	6.9	6.9	5.2	16.4	9	9	72	74	818864	806167	<0.2	<0.2	2.4	2.4
						1.0	0.8	15	22.5		8.1		27.5		94.0		6.9		5.3		9		73				<0.2		2.4	
					Middle	4.3	0.7	26	22.4	22.4	8.1	8.1	28.6	28.6	94.4	94.4	6.9		20.6		8		73				<0.2		2.8	
						4.3	0.8	28	22.4		8.1		28.7		94.4		6.9		20.4		8		73				<0.2		2.6	
					Bottom	7.6	0.5	27	22.4	22.4	8.1	8.1	28.7	28.7	94.0	94.0	6.9	6.9	23.5		9		75				<0.2		2.6	
						7.6	0.6	28	22.4		8.1		28.7		93.9		6.9		23.3		10		76				<0.2		1.8	
IM3	Fine	Moderate	09:25	8.6	Surface	1.0	0.7	356	22.7	22.7	8.1	8.1	26.7	26.7	91.9	91.9	6.8	6.9	5.3	14.0	7	7	71	73	819402	806038	<0.2	<0.2	2.7	2.6
						1.0	0.7	328	22.7		8.1		26.7		91.9		6.8		5.3		6		72				<0.2		2.7	
					Middle	4.3	0.5	11	22.5	22.5	8.1	8.1	28.1	28.1	93.3	93.3	6.9		17.5		7		73				<0.2		2.5	
						4.3	0.6	11	22.5		8.1		28.1		93.3		6.9		17.8		8		74				<0.2		2.6	
					Bottom	7.6	0.4	7	22.4	22.4	8.1	8.1	28.5	28.5	93.2	93.2	6.9	6.9	19.2		8		75				<0.2		2.5	
						7.6	0.4	7	22.4		8.1		28.5		93.2		6.9		19.0		7		75				<0.2		2.4	
IM4	Fine	Moderate	09:33	8.2	Surface	1.0	0.6	20	22.7	22.7	8.1	8.1	26.5	26.5	92.2	92.2	6.8	6.9	4.8	15.1	7	7	72	73	819584	805066	<0.2	<0.2	2.9	2.8
						1.0	0.7	21	22.7		8.1		26.5		92.2		6.8		4.8		6		73				<0.2		2.8	
					Middle	4.1	0.6	24	22.3	22.3	8.1	8.1	28.2	28.2	93.0	93.0	6.9		19.6		8		73				<0.2		2.9	
						4.1	0.7	24	22.3		8.1		28.2		93.0		6.9		19.6		7		74				<0.2		2.7	
					Bottom	7.2	0.5	26	22.3	22.3	8.1	8.1	28.3	28.3	92.9	92.9	6.9	6.9	20.9		7		75				<0.2		2.7	
						7.2	0.5	26	22.3		8.1		28.3		92.9		6.9		21.1		8		70				<0.2		2.8	
IM5	Fine	Moderate	09:43	7.4	Surface	1.0	0.8	21	22.7	22.7	8.0	8.0	26.5	26.5	92.0	92.1	6.8	6.8	8.3	16.6	8	9	71	73	820541	804953	<0.2	<0.2	2.7	2.8
						1.0	0.8	22	22.6		8.0		26.5		92.1		6.8		8.4		8		72				<0.2		2.8	
					Middle	3.7	0.7	18	22.4	22.4	8.1	8.1	27.5	27.5	92.1	92.1	6.8		18.2		8		73				<0.2		2.7	
						3.7	0.8	18	22.4		8.1		27.5		92.1		6.8		18.2		8		73				<0.2		2.7	
					Bottom	6.4	0.6	9	22.3	22.3	8.1	8.1	28.0	28.0	92.3	92.3	6.8	6.8	23.1		12		75				<0.2		2.7	
						6.4	0.7	9	22.3		8.1		28.0		92.3		6.8		23.2		12		76				<0.2		3.0	
IM6	Fine	Moderate	09:49	8.2	Surface	1.0	0.5	34	22.6	22.6	8.1	8.1	27.3	27.3	91.4	91.4	6.8	6.8	10.2	17.8	7	8	72	74	821070	805838	<0.2	<0.2	2.7	2.8
						1.0	0.5	36	22.6		8.1		27.3		91.4		6.8		10.2		8		72				<0.2		2.8	
					Middle	4.1	0.5	41	22.6	22.6	8.1	8.1	27.3	27.3	91.3	91.3	6.7		20.1		8		73				<0.2		2.8	
						4.1	0.5	43	22.6		8.1		27.3		91.3		6.7		20.1		8		74				<0.2		2.9	
					Bottom	7.2	0.4	53	22.6	22.6	8.1	8.1	27.3	27.3	91.4	91.4	6.8	6.8	23.2		8		75				<0.2		2.9	
						7.2	0.5	54	22.6		8.1		27.3		91.4		6.8		23.2		8		75				<0.2		2.7	
IM7	Fine	Moderate	09:55	8.5	Surface	1.0	0.4	46	22.6	22.6	8.1	8.1	27.4	27.4	91.4	91.4	6.8	6.8	12.3	16.3	7	8	72	74	821340	806822	<0.2	<0.2	2.9	2.9
						1.0	0.4	49	22.6		8.1		27.4		91.4		6.8		12.3		8		73				<0.2		2.9	
					Middle	4.3	0.4	47	22.6	22.6	8.1	8.1	27.3	27.3	91.2	91.2	6.7		15.7		8		73				<0.2		2.7	
						4.3	0.4	49	22.6		8.1		27.3		91.2		6.7		15.5		8		74				<0.2		2.8	
					Bottom	7.5	0.4	69	22.6	22.6	8.1	8.1	27.3	27.3	91.2	91.2	6.7	6.7	21.1		7		77				<0.2		3.0	
						7.5	0.4	72	22.6		8.1		27.3		91.2		6.7		21.1		7		76				<0.2		2.9	
IM8	Fine	Moderate	09:09	8.4	Surface	1.0	0.3	28	22.8	22.8	8.0	8.0	26.2	26.2	88.6	88.7	6.7	6.7	10.7	14.4	12	12	73	75	821715	807843	<0.2	<0.2	2.2	2.3
						1.0	0.3	30	22.8		8.0		26.2		88.7		6.7		10.7		11		73				<0.2		2.3	
					Middle	4.2	0.5	41	22.6	22.6	8.0	8.0	27.9	27.9	90.2	90.2	6.7		15.9		12		75				<0.2		2.2	
						4.2	0.5	43	22.6		8.0		27.9		90.2		6.7		15.8		12		75				<0.2		2.2	
					Bottom	7.4	0.4	48	22.6	22.6	8.1	8.1	28.7	28.7	90.7	90.7	6.8	6.8	16.5		13		77				<0.2		2.3	
						7.4	0.4	50	22.6		8.1		28.7		90.7		6.8		16.6		12		77				<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 03 April 18 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	09:01	7.3	Surface	1.0	0.3	319	22.7	22.7	8.0	8.0	28.3	28.3	91.0	91.0	6.8	6.8	12.4	14.2	30	31	73	75	822111	808816	<0.2	<0.2	2.2	2.3
						1.0	0.3	324	22.7		8.0		28.3		91.0		6.8		12.2		31		73				<0.2		2.3	
					Middle	3.7	0.3	332	22.7	22.7	7.9	7.9	28.3	28.3	90.9	91.0	6.8		14.3		32		75				<0.2		2.2	
						3.7	0.3	347	22.7		7.9		28.3		91.0		6.8		14.2		30		75				<0.2		2.4	
					Bottom	6.3	0.3	323	22.7	22.7	7.9	7.9	28.3	28.3	91.3	91.4	6.8	6.8	16.1		30		77				<0.2		2.3	
						6.3	0.3	347	22.7		7.9		28.3		91.4		6.8		15.9		33		76				<0.2		2.4	
IM10	Fine	Moderate	08:53	7.6	Surface	1.0	0.6	308	22.7	22.7	7.9	7.9	28.3	28.3	91.2	91.2	6.8	6.8	11.9	14.1	22	21	73	75	822235	809826	<0.2	<0.2	2.1	2.2
						1.0	0.7	326	22.7		7.9		28.3		91.2		6.8		11.9		22		73				<0.2		2.4	
					Middle	3.8	0.5	314	22.7	22.7	7.9	7.9	28.5	28.5	90.4	90.4	6.7		14.2		20		75				<0.2		2.2	
						3.8	0.5	338	22.7		7.9		28.5		90.4		6.7		14.2		23		75				<0.2		2.2	
					Bottom	6.6	0.4	309	22.7	22.7	7.9	7.9	28.5	28.5	91.1	91.2	6.8	6.8	15.9		18		76				<0.2		2.2	
						6.6	0.4	312	22.7		7.9		28.5		91.2		6.8		16.4		18		77				<0.2		2.1	
IM11	Fine	Moderate	08:39	8.0	Surface	1.0	0.6	293	22.6	22.6	7.9	7.9	28.1	28.1	91.3	91.3	6.8	6.8	10.5	14.2	8	11	73	75	821472	810535	<0.2	<0.2	2.2	2.2
						1.0	0.6	294	22.6		7.9		28.1		91.3		6.8		11.1		7		73				<0.2		2.2	
					Middle	4.0	0.4	291	22.6	22.6	8.0	8.0	28.2	28.2	90.8	90.8	6.8		13.4		12		75				<0.2		2.1	
						4.0	0.5	301	22.6		8.0		28.2		90.8		6.8		13.2		12		75				<0.2		2.2	
					Bottom	7.0	0.4	304	22.6	22.6	8.0	8.0	28.1	28.1	90.7	90.7	6.7	6.7	18.4		12		76				<0.2		2.0	
						7.0	0.5	318	22.6		8.0		28.2		90.7		6.7		18.6		12		77				<0.2		2.2	
IM12	Fine	Moderate	08:32	8.6	Surface	1.0	0.8	278	22.8	22.8	7.9	7.9	28.2	28.2	91.2	91.3	6.8	6.7	7.5	11.2	9	9	73	75	821134	811497	<0.2	<0.2	2.2	2.2
						1.0	0.8	284	22.8		7.9		28.2		91.3		6.8		7.4		9		73				<0.2		2.2	
					Middle	4.3	0.7	278	22.7	22.7	7.9	7.9	29.0	29.0	89.0	89.0	6.6		10.2		10		75				<0.2		2.3	
						4.3	0.8	280	22.7		7.9		29.0		89.0		6.6		10.6		9		75				<0.2		2.2	
					Bottom	7.6	0.6	278	22.7	22.7	7.9	7.9	29.4	29.4	89.2	89.2	6.6	6.6	15.7		8		77				<0.2		2.3	
						7.6	0.7	298	22.7		7.9		29.4		89.2		6.6		15.7		9		77				<0.2		2.2	
SR2	Fine	Moderate	08:03	4.4	Surface	1.0	0.3	71	22.6	22.6	7.9	7.9	28.1	28.1	91.5	91.5	6.8	6.8	11.2	12.4	15	15	73	74	821454	814154	<0.2	<0.2	2.2	2.2
						1.0	0.3	77	22.6		7.9		28.1		91.5		6.8		11.3		15		73				<0.2		2.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.3	62	22.5	22.5	7.9	7.9	28.2	28.2	91.8	91.8	6.8	6.8	13.2		15		75				<0.2		2.1	
						3.4	0.3	63	22.5		7.9		28.2		91.8		6.8		13.8		15		75				<0.2		2.2	
SR3	Fine	Moderate	09:17	8.8	Surface	1.0	0.4	-	22.9	22.9	7.8	7.8	26.0	26.0	86.7	86.7	6.5	6.5	5.0	9.7	8	8	-	-	822136	807547	-	-	-	-
						1.0	0.4	-	22.9		7.8		26.0		86.7		6.5		5.0		6		-				-		-	
					Middle	4.4	0.5	20	22.7	22.7	7.9	7.9	26.2	26.2	85.4	85.4	6.4		8.9		8		-				-		-	
						4.4	0.6	20	22.7		7.9		26.2		85.4		6.4		8.7		8		-				-		-	
					Bottom	7.8	0.4	15	22.7	22.7	8.0	8.0	26.4	26.4	85.7	85.7	6.4	6.4	15.4		8		-				-		-	
						7.8	0.4	16	22.7		8.0		26.4		85.7		6.4		15.2		8		-				-		-	
SR4A	Fine	Calm	08:34	8.9	Surface	1.0	0.3	237	22.7	22.7	8.0	8.0	28.2	28.2	87.0	87.0	6.4	6.4	9.9	10.8	15	15	-	-	817173	807835	-	-	-	-
						1.0	0.3	248	22.7		8.0		28.2		87.0		6.4		9.9		15		-				-		-	
					Middle	4.5	0.2	234	22.7	22.7	8.0	8.0	28.2	28.2	86.5	86.5	6.3		11.0		16		-				-		-	
						4.5	0.2	248	22.7		8.0		28.2		86.5		6.3		11.0		15		-				-		-	
					Bottom	7.9	0.2	239	22.7	22.7	8.0	8.0	28.2	28.2	86.8	86.9	6.4	6.4	11.5		15		-				-		-	
						7.9	0.2	241	22.7		8.0		28.2		87.0		6.4		11.4		15		-				-		-	
SR5A	Fine	Calm	08:18	5.1	Surface	1.0	0.4	283	22.8	22.8	8.0	8.0	27.8	27.8	85.4	85.4	6.3	6.3	9.4	11.1	11	12	-	-	816611	810690	-	-	-	-
						1.0	0.4	302	22.8		8.0		27.8		85.4		6.3		9.4		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.3	290	22.8	22.8	8.0	8.0	27.8	27.8	85.6	85.7	6.3	6.3	12.6		12		-				-		-	
						4.1	0.4	290	22.8		8.0		27.8		85.7		6.3		12.8		13		-				-		-	
SR6	Fine	Calm	07:56	4.2	Surface	1.0	0.3	269	22.6	22.6	7.9	7.9	27.3	27.3	86.1	86.1	6.4	6.4	13.1	13.4	15	15	-	-	817897	814673	-	-	-	-
						1.0	0.3	284	22.6		7.9		27.3		86.1		6.4		13.1		15		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.3	270	22.6	22.6	7.9	7.9	27.3	27.3	86.2	86.2	6.4	6.4	13.8		15		-				-		-	
						3.2	0.3	288	22.6		7.9		27.3		86.2		6.4		13.8		16		-				-		-	
SR7	Foggy	Moderate	07:13	18.5	Surface	1.0	0.2	215	22.6	22.6	8.0	8.0	28.5	28.5	91.1	91.2	6.8	6.8	5.2	5.3	5	6	-	-	823618	823770	-	-	-	-
						1.0	0.2	217	22.6		8.0		28.5		91.2		6.8		5.2		5		-				-		-	
					Middle	9.3	0.3	189	22.5	22.5	7.9	7.9	27.3	27.3	92.0	92.0	6.8		5.5		6		-				-		-	
						9.3	0.3	202	22.5		7.9		27.3		92.0		6.8		5.5		6		-				-		-	
					Bottom	17.5	0.0	99	22.2	22.2	7.9	7.9	28.4	28.4	90.7	90.7	6.7	6.7	5.0		6		-				-		-	
						17.5	0.0	99	22.2		7.9		28.4		90.7		6.7		5.1		5		-				-		-	
SR8	Fine	Moderate	08:26	4.1	Surface	1.0	-	-	22.7	22.7	7.9	7.9	28.1	28.1	90.6	90.6	6.7	6.7	6.2	7.6	6	6	-	-	820246	811418	-	-	-	-
						1.0	-	-	22.7		7.9		28.1		90.5		6.7		6.1		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	22.7	22.7	7.9	7.9	28.1	28.1	90.6	90.6	6.8	6.8	9.1		6		-				-		-	
						3.1	-	-	22.7		7.9		28.1		90.6		6.8		9.1		6		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 05 April 18 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	15:20	8.6	Surface	1.0	0.3	201	23.2	23.2	8.1	8.1	30.3	30.3	97.2	97.2	7.0	7.0	9.2	14.4	5	7	73	75	815619	804262	<0.2	<0.2	0.8	0.8
						1.0	0.3	207	23.2		8.1		30.3		97.2		7.0		9.2		6		73				<0.2		0.9	
					Middle	4.3	0.4	202	22.8	22.8	8.1	8.1	31.0	31.0	95.5	95.5	6.9		12.0		5		75				<0.2		0.7	
						4.3	0.4	213	22.8		8.1		31.0		95.5		6.9		12.0		6		75				<0.2		0.7	
					Bottom	7.6	0.3	203	22.5	22.5	8.1	8.1	31.5	31.5	93.7	93.7	6.8	6.8	22.0		8		77				<0.2		0.7	
						7.6	0.3	214	22.5		8.1		31.5		93.7		6.8		22.0		9		77				<0.2		0.7	
C2	Sunny	Moderate	14:19	12.2	Surface	1.0	0.5	175	24.0	24.0	7.9	7.9	25.0	25.0	85.5	85.5	6.2	6.1	14.1	15.5	6	7	73	75	825662	806964	<0.2	<0.2	2.0	2.0
						1.0	0.5	175	24.0		7.9		25.1		85.4		6.2		14.2		6		73				<0.2		1.9	
					Middle	6.1	0.5	176	23.1	23.1	8.0	8.0	27.7	27.7	81.9	81.9	6.0		14.8		9		75				<0.2		1.9	
						6.1	0.5	192	23.1		8.0		27.7		81.9		6.0		14.9		8		75				<0.2		2.0	
					Bottom	11.2	0.2	149	22.8	22.8	8.0	8.0	29.5	29.5	82.1	82.2	6.0	6.0	17.5		7		76				<0.2		2.1	
						11.2	0.3	160	22.8		8.0		29.5		82.2		6.0		17.5		7		77				<0.2		1.9	
C3	Sunny	Moderate	16:08	11.8	Surface	1.0	0.4	78	23.5	23.5	8.0	8.0	28.1	28.1	86.6	86.6	6.3	6.2	11.2	11.2	9	9	73	75	822106	817830	<0.2	<0.2	3.2	3.5
						1.0	0.4	79	23.5		8.0		28.1		86.5		6.3		11.3		9		73				<0.2		3.6	
					Middle	5.9	0.3	83	23.2	23.2	8.0	8.0	28.9	28.9	84.5	84.5	6.1		11.0		8		75				<0.2		3.6	
						5.9	0.3	84	23.2		8.0		28.9		84.5		6.1		10.8		8		75				<0.2		3.6	
					Bottom	10.8	0.3	55	23.0	23.0	8.0	8.0	29.2	29.2	84.5	84.5	6.1	6.1	11.6		9		77				<0.2		3.4	
						10.8	0.3	56	23.0		8.0		29.2		84.5		6.1		11.5		10		77				<0.2		3.8	
IM1	Cloudy	Moderate	15:02	7.6	Surface	1.0	0.3	193	23.8	23.8	8.1	8.1	28.5	28.5	93.2	93.2	6.7	6.7	10.5	12.9	8	9	73	75	818358	806452	<0.2	<0.2	1.8	1.3
						1.0	0.3	194	23.8		8.1		28.5		93.2		6.7		10.5		7		74				<0.2		1.7	
					Middle	3.8	0.3	187	22.8	22.8	8.0	8.0	30.6	30.6	92.8	92.8	6.7		13.4		7		75				<0.2		1.5	
						3.8	0.3	202	22.8		8.0		30.6		92.8		6.7		13.4		8		75				<0.2		1.4	
					Bottom	6.6	0.2	190	22.8	22.8	8.0	8.0	30.7	30.7	92.3	92.3	6.7	6.7	14.9		13		76				<0.2		0.8	
						6.6	0.3	208	22.8		8.0		30.7		92.3		6.7		14.9		12		76				<0.2		0.8	
IM2	Cloudy	Moderate	14:57	8.4	Surface	1.0	0.3	199	24.0	24.0	8.0	8.0	28.2	28.2	96.3	96.3	6.9	6.9	8.6	9.9	5	6	73	75	818824	806196	<0.2	<0.2	1.6	1.4
						1.0	0.3	201	24.0		8.0		28.2		96.3		6.9		8.6		5		73				<0.2		1.6	
					Middle	4.2	0.2	199	22.9	22.9	8.0	8.0	30.4	30.4	93.7	93.7	6.8		10.1		6		73				<0.2		1.7	
						4.2	0.2	201	22.9		8.0		30.4		93.7		6.8		10.1		8		74				<0.2		1.6	
					Bottom	7.4	0.2	173	22.8	22.8	8.0	8.0	30.9	30.9	92.8	92.8	6.7	6.7	10.9		6		77				<0.2		0.9	
						7.4	0.2	184	22.8		8.0		30.9		92.8		6.7		10.9		8		77				<0.2		0.9	
IM3	Cloudy	Moderate	14:50	8.7	Surface	1.0	0.1	201	24.2	24.2	8.0	8.0	28.4	28.4	97.7	97.7	7.0	6.9	7.9	10.4	3	6	73	74	819440	805992	<0.2	<0.2	1.5	1.4
						1.0	0.2	209	24.2		8.0		28.4		97.7		7.0		7.9		5		73				<0.2		1.4	
					Middle	4.4	0.3	224	23.4	23.4	8.0	8.0	29.7	29.7	94.8	94.8	6.8		11.3		5		74				<0.2		1.5	
						4.4	0.3	244	23.4		8.0		29.7		94.8		6.8		11.3		6		74				<0.2		1.4	
					Bottom	7.7	0.3	190	23.1	23.1	8.1	8.1	30.4	30.4	93.6	93.6	6.7	6.7	11.9		8		75				<0.2		1.4	
						7.7	0.3	204	23.1		8.1		30.4		93.6		6.7		11.9		7		75				<0.2		1.3	
IM4	Cloudy	Moderate	14:43	8.0	Surface	1.0	0.4	200	23.2	23.2	8.0	8.0	30.3	30.3	94.6	94.6	6.8	6.8	9.8	11.0	3	7	73	74	819562	805044	<0.2	<0.2	1.3	1.0
						1.0	0.4	205	23.2		8.0		30.3		94.6		6.8		9.8		4		73				<0.2		1.3	
					Middle	4.0	0.3	194	22.8	22.8	8.0	8.0	30.8	30.8	93.1	93.1	6.7		11.6		7		74				<0.2		0.9	
						4.0	0.3	196	22.8		8.0		30.8		93.1		6.7		11.6		9		74				<0.2		0.8	
					Bottom	7.0	0.2	187	22.7	22.7	8.0	8.0	31.0	31.0	92.7	92.7	6.7	6.7	11.5		7		75				<0.2		0.9	
						7.0	0.2	198	22.7		8.0		31.0		92.7		6.7		11.5		9		75				<0.2		0.8	
IM5	Cloudy	Moderate	14:33	7.4	Surface	1.0	0.3	178	24.1	24.1	8.0	8.0	26.9	26.9	95.7	95.7	6.9	6.8	9.7	14.7	7	7	73	74	820546	804899	<0.2	<0.2	2.0	1.5
						1.0	0.3	185	24.1		8.0		26.9		95.7		6.9		9.7		6		73				<0.2		1.9	
					Middle	3.7	0.3	176	23.1	23.1	8.0	8.0	29.2	29.2	92.3	92.3	6.7		13.3		6		74				<0.2		1.4	
						3.7	0.4	188	23.1		8.0		29.2		92.3		6.7		13.3		6		74				<0.2		1.3	
					Bottom	6.4	0.3	199	22.7	22.7	8.0	8.0	30.7	30.7	91.4	91.4	6.6	6.6	21.2		9		75				<0.2		1.3	
						6.4	0.3	202	22.7		8.0		30.7		91.4		6.6		21.2		9		75				<0.2		1.1	
IM6	Sunny	Moderate	14:25	7.5	Surface	1.0	0.2	147	23.4	23.4	8.0	8.0	28.9	28.9	92.0	92.0	6.6	6.6	13.9	16.6	5	6	72	73	821077	805803	<0.2	<0.2	2.0	1.6
						1.0	0.2	154	23.4		8.0		28.9		92.0		6.6		13.9		4		72				<0.2		1.9	
					Middle	3.8	0.2	155	22.9	22.9	8.0	8.0	29.7	29.7	90.7	90.7	6.6		17.2		4		74				<0.2		1.4	
						3.8	0.3	162	22.9		8.0		29.7		90.7		6.6		17.2		5		73				<0.2		1.3	
					Bottom	6.5	0.3	133	22.8	22.8	8.0	8.0	30.4	30.4	91.2	91.2	6.6	6.6	18.7		9		74				<0.2		1.4	
						6.5	0.3	143	22.8		8.0		30.4		91.2		6.6		18.7		10		73				<0.2		1.4	
IM7	Sunny	Moderate	14:17	8.7	Surface	1.0	0.3	145	24.1	24.1	8.0	8.0	27.1	27.1	96.0	96.0	6.9	6.8	9.6	12.7	8	9	72	73	821353	806828	<0.2	<0.2	2.1	1.7
						1.0	0.3	157	24.1		8.0		27.1		96.0		6.9		9.6		9		72				<0.2		2.1	
					Middle	4.4	0.1	101	23.2	23.2	8.0	8.0	29.2	29.2	93.2	93.2	6.7		12.6		7		73				<0.2		1.6	
						4.4	0.1	108	23.2		8.0		29.2		93.2		6.7		12.6		7		73				<0.2		1.7	
					Bottom	7.7	0.2	87	23.0	23.0	8.0	8.0	29.5	29.5	92.6	92.6	6.7	6.7	15.8		13		75				<0.2		1.1	
						7.7	0.2	94	23.0		8.0		29.5		92.6		6.7		15.8		11		75				<0.2		1.3	
IM8	Sunny	Moderate	14:43	8.4	Surface	1.0	0.2	155	23.6	23.6	8.0	8.0	26.5	26.5	88.6	88.6	6.5	6.6	12.7	14.0	6	7	73	75	821709	807853	<0.2	<0.2	2.6	2.8
						1.0	0.2	170	23.6		8.0		26.5		88.6		6.5		12.9		7		73				<0.2		2.6	
					Middle	4.2	0.1	65	23.5	23.5	8.0	8.0	27.9	27.9	91.8	91.8	6.6		13.7		8		75				<0.2		2.7	
						4.2	0.1	71	23.5		8.0		27.9		91.8		6.6		13.9		7		75				<0.2		2.9	
					Bottom	7.4	0.1	56	23.1	23.1	8.1	8.1	29.4	29.4	90.8	90.8	6.6	6.6	15.7		7		77				<0.2		2.8	
						7.4	0.2	58	23.1		8.1		29.4		90.8		6.6		15.3		9		77				<0.2		3.0	

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 05 April 18 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	Sunny	Moderate	14:52	7.4	Surface	1.0	0.4	136	23.3	23.3	8.0	8.0	27.8	27.8	88.2	88.3	6.4	6.5	17.4	18.0	8	9	73	75	822108	808792	<0.2	<0.2	2.6	2.5
						1.0	0.4	147	23.3		8.0		27.8		88.3		6.4		17.3		10		73				<0.2		2.4	
					Middle	3.7	0.3	125	23.3	23.3	8.0	8.0	28.2	28.2	89.1	89.1	6.5		17.8		9		75				<0.2		2.4	
						3.7	0.3	127	23.3		8.0		28.2		89.1		6.5		18.1		8		75				<0.2		2.5	
					Bottom	6.4	0.2	71	23.2	23.2	8.1	8.1	28.8	28.8	89.5	89.5	6.5	6.5	18.8		9		77				<0.2		2.4	
						6.4	0.2	71	23.2		8.1		28.8		89.5		6.5		18.6		10		77				<0.2		2.5	
IM10	Sunny	Moderate	15:01	8.3	Surface	1.0	0.6	128	23.9	23.9	7.9	7.9	25.9	25.9	87.2	87.2	6.4	6.4	11.5	14.0	6	6	73	75	822235	809813	<0.2	<0.2	2.4	2.5
						1.0	0.7	132	23.9		7.9		25.9		87.2		6.4		11.2		7		73				<0.2		2.4	
					Middle	4.2	0.5	112	23.3	23.3	8.0	8.0	27.3	27.3	86.3	86.3	6.3		13.7		7		75				<0.2		2.6	
						4.2	0.5	119	23.3		8.0		27.3		86.3		6.3		13.9		5		75				<0.2		2.4	
					Bottom	7.3	0.4	91	23.2	23.2	8.0	8.0	28.7	28.7	87.8	87.8	6.4	6.4	16.8		7		77				<0.2		2.3	
						7.3	0.4	91	23.2		8.0		28.7		87.8		6.4		16.8		6		77				<0.2		2.6	
IM11	Sunny	Moderate	15:12	8.2	Surface	1.0	0.5	115	23.6	23.6	8.0	8.0	26.5	26.5	88.7	88.7	6.5	6.5	12.3	14.6	7	7	73	75	821525	810524	<0.2	<0.2	2.6	2.6
						1.0	0.5	119	23.6		8.0		26.5		88.7		6.5		12.3		6		73				<0.2		2.5	
					Middle	4.1	0.4	103	23.5	23.5	8.0	8.0	27.5	27.5	89.8	89.8	6.5		14.4		5		75				<0.2		2.7	
						4.1	0.4	104	23.5		8.0		27.5		89.8		6.5		14.5		6		75				<0.2		2.5	
					Bottom	7.2	0.3	65	23.5	23.5	8.1	8.1	28.6	28.6	89.9	89.9	6.5	6.5	17.1		7		77				<0.2		2.6	
						7.2	0.3	67	23.5		8.1		28.6		89.9		6.5		17.0		8		77				<0.2		2.6	
IM12	Sunny	Moderate	15:20	9.0	Surface	1.0	0.4	113	23.8	23.8	8.1	8.1	26.9	26.9	91.2	91.2	6.6	6.6	12.9	14.2	12	11	73	75	821133	811539	<0.2	<0.2	2.8	2.8
						1.0	0.4	113	23.8		8.1		26.9		91.2		6.6		12.9		12		73				<0.2		2.8	
					Middle	4.5	0.4	103	23.7	23.7	8.1	8.1	27.3	27.3	90.5	90.5	6.6		14.0		12		75				<0.2		2.7	
						4.5	0.4	107	23.7		8.1		27.3		90.5		6.6		14.2		10		75				<0.2		2.7	
					Bottom	8.0	0.3	85	23.5	23.5	8.1	8.1	28.1	28.1	89.3	89.3	6.5	6.5	15.4		11		77				<0.2		2.8	
						8.0	0.3	88	23.5		8.1		28.1		89.3		6.5		15.5		11		77				<0.2		2.7	
SR2	Cloudy	Moderate	15:46	3.7	Surface	1.0	0.4	85	23.7	23.7	8.1	8.1	26.9	26.9	87.9	87.9	6.4	6.4	12.2	13.7	8	9	73	74	821467	814167	<0.2	<0.2	2.1	2.1
						1.0	0.4	86	23.7		8.1		26.9		87.9		6.4		12.2		8		73				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.3	82	23.3	23.3	8.0	8.0	27.9	27.9	85.8	85.9	6.2	6.2	15.5		9		75				<0.2		2.0	
						2.7	0.3	84	23.3		8.1		27.9		85.9		6.2		15.0		10		75				<0.2		2.3	
SR3	Sunny	Moderate	14:37	9.1	Surface	1.0	0.3	174	24.2	24.1	8.0	8.0	25.9	25.9	89.9	89.9	6.5	6.5	12.4	15.9	5	7	-	-	822131	807574	-	-	-	-
						1.0	0.3	185	24.1		8.0		25.9		89.9		6.5		12.4		6		-				-		-	
					Middle	4.6	0.1	132	23.3	23.3	8.0	8.0	28.0	28.0	89.7	89.7	6.5		17.2		8		-				-		-	
						4.6	0.2	143	23.3		8.0		28.0		89.7		6.5		17.3		9		-				-		-	
					Bottom	8.1	0.2	70	23.0	23.0	8.1	8.1	29.4	29.4	89.8	89.8	6.5	6.5	18.0		7		-				-		-	
						8.1	0.2	72	23.0		8.1		29.4		89.8		6.5		18.0		8		-				-		-	
SR4A	Cloudy	Calm	15:39	8.2	Surface	1.0	0.4	40	23.4	23.4	8.0	8.0	29.6	29.6	92.6	92.6	6.7	6.7	14.6	15.8	11	13	-	-	817206	807782	-	-	-	-
						1.0	0.5	40	23.4		8.0		29.6		92.6		6.7		14.6		10		-				-		-	
					Middle	4.1	0.3	42	23.1	23.1	8.0	8.0	29.9	29.9	91.8	91.8	6.6		16.7		11		-				-		-	
						4.1	0.4	45	23.1		8.0		29.9		91.8		6.6		16.7		13		-				-		-	
					Bottom	7.2	0.3	46	23.1	23.1	8.0	8.0	30.1	30.1	91.7	91.7	6.6	6.6	16.2		17		-				-		-	
						7.2	0.3	47	23.1		8.0		30.1		91.7		6.6		16.2		16		-				-		-	
SR5A	Cloudy	Calm	15:55	3.7	Surface	1.0	0.1	309	24.2	24.2	7.9	7.9	28.5	28.5	87.1	87.1	6.2	6.2	14.6	15.6	10	11	-	-	816576	810669	-	-	-	-
						1.0	0.1	324	24.2		7.9		28.5		87.1		6.2		14.6		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.0	57	23.8	23.8	7.9	7.9	28.5	28.5	86.5	86.5	6.2	6.2	16.5		12		-				-		-	
						2.7	0.0	62	23.8		7.9		28.5		86.5		6.2		16.5		11		-				-		-	
SR6	Cloudy	Calm	16:17	3.3	Surface	1.0	0.1	53	24.0	24.0	7.9	7.9	27.6	27.6	87.9	87.9	6.3	6.3	13.6	13.8	12	12	-	-	817880	814678	-	-	-	-
						1.0	0.1	56	24.0		7.9		27.6		87.9		6.3		13.6		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.1	63	23.8	23.8	7.9	7.9	27.9	27.9	88.8	88.8	6.4	6.4	14.0		12		-				-		-	
						2.3	0.2	66	23.8		7.9		27.9		88.8		6.4		14.0		13		-				-		-	
SR7	Sunny	Moderate	16:37	19.2	Surface	1.0	0.5	92	23.8	23.8	8.0	8.0	28.0	28.0	89.0	89.0	6.4	6.3	8.3	8.9	7	8	-	-	823630	823716	-	-	-	-
						1.0	0.6	92	23.8		8.0		28.0		89.0		6.4		8.3		7		-				-		-	
					Middle	9.6	0.2	68	23.0	23.0	8.0	8.0	29.9	29.9	85.6	85.6	6.2		8.2		6		-				-		-	
						9.6	0.2	70	23.0		8.0		29.9		85.6		6.2		8.4		6		-				-		-	
					Bottom	18.2	0.3	-	22.9	22.9	8.0	8.0	30.1	30.1	85.4	85.4	6.2	6.2	10.0		10		-				-		-	
						18.2	0.3	-	22.9		8.0		30.1		85.4		6.2		10.0		10		-				-		-	
SR8	Cloudy	Moderate	15:34	3.9	Surface	1.0	-	-	23.7	23.7	8.1	8.1	26.8	26.8	91.4	91.4	6.6	6.6	12.3	11.6	8	8	-	-	820246	811418	-	-	-	-
						1.0	-	-	23.7		8.1		26.8		91.4		6.6		12.3		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	-	-	23.7	23.7	8.1	8.1	26.7	26.7	90.9	90.9	6.6	6.6	11.0		8		-				-		-	
						2.9	-	-	23.7		8.1		26.7		90.9		6.6		10.8		8		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 05 April 18 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	09:38	8.7	Surface	1.0	0.5	17	23.2	23.2	8.0	8.0	28.6	28.6	92.8	92.8	6.7	6.7	10.3	17.9	3	4	73	75	815603	804222	<0.2	<0.2	1.8	1.4
						1.0	0.6	18	23.2		8.0		28.6		92.8		6.7		10.3		5		73				<0.2		1.7	
					Middle	4.4	0.5	21	22.5	22.5	8.0	8.0	31.2	31.2	91.8	91.8	6.6		20.2		3		75				<0.2		1.4	
						4.4	0.6	21	22.5		8.0		31.2		91.8		6.6		20.2		3		75				<0.2		1.3	
					Bottom	7.7	0.5	18	22.4	22.4	8.0	8.0	31.5	31.5	91.2	91.2	6.6	6.6	23.3		4		77				<0.2		1.2	
						7.7	0.6	18	22.4		8.0		31.5		91.2		6.6		23.3		4		76				<0.2		1.2	
C2	Sunny	Moderate	10:29	12.3	Surface	1.0	0.5	356	23.7	23.7	7.9	7.9	23.4	23.4	84.8	84.8	6.3	6.2	10.2	13.0	5	6	73	75	825669	806917	<0.2	<0.2	2.8	2.9
						1.0	0.5	328	23.7		7.9		23.4		84.8		6.3		10.1		6		74				<0.2		2.9	
					Middle	6.2	0.6	345	23.4	23.4	7.9	7.9	26.3	26.3	82.9	82.9	6.1		12.9		6		75				<0.2		2.9	
						6.2	0.7	351	23.4		7.9		26.3		82.9		6.1		13.2		5		75				<0.2		3.1	
					Bottom	11.3	0.5	351	22.9	22.9	8.0	8.0	28.2	28.2	80.6	80.6	5.9	5.9	15.8		7		77				<0.2		3.0	
						11.3	0.5	358	22.9		8.0		28.2		80.6		5.9		15.7		5		77				<0.2		2.8	
C3	Sunny	Moderate	08:38	11.5	Surface	1.0	0.5	269	23.3	23.3	8.0	8.0	27.1	27.1	84.9	84.9	6.2	6.2	8.7	10.7	5	6	73	75	822132	817805	<0.2	<0.2	1.5	1.6
						1.0	0.5	270	23.3		8.0		27.1		84.9		6.2		8.9		6		73				<0.2		1.6	
					Middle	5.8	0.5	272	23.2	23.2	8.0	8.0	27.5	27.5	83.9	83.9	6.1		10.5		6		75				<0.2		1.6	
						5.8	0.5	286	23.2		8.0		27.5		83.9		6.1		10.8		6		75				<0.2		1.8	
					Bottom	10.5	0.5	277	22.5	22.5	8.0	8.0	30.3	30.3	83.5	83.6	6.1	6.1	12.7		6		77				<0.2		1.6	
						10.5	0.5	292	22.5		8.0		30.3		83.6		6.1		12.4		8		77				<0.2		1.7	
IM1	Cloudy	Moderate	09:55	7.3	Surface	1.0	0.5	29	23.3	23.3	8.0	8.0	28.0	28.0	90.6	90.6	6.6	6.6	14.7	18.7	5	5	73	74	818379	806478	<0.2	<0.2	1.8	1.6
						1.0	0.5	29	23.3		8.0		28.0		90.6		6.6		14.7		4		72				<0.2		1.9	
					Middle	3.7	0.4	34	23.1	23.1	8.0	8.0	29.5	29.5	90.2	90.2	6.5		20.1		6		75				<0.2		1.5	
						3.7	0.5	34	23.1		8.0		29.5		90.2		6.5		20.1		6		74				<0.2		1.5	
					Bottom	6.3	0.4	40	23.1	23.1	8.0	8.0	29.8	29.8	89.9	89.9	6.5	6.5	21.2		5		75				<0.2		1.5	
						6.3	0.4	41	23.1		8.0		29.8		89.9		6.5		21.2		6		75				<0.2		1.4	
IM2	Cloudy	Moderate	10:00	8.2	Surface	1.0	0.6	357	23.3	23.3	8.0	8.0	28.0	28.0	90.3	90.3	6.6	6.6	10.9	17.4	6	6	73	74	818869	806172	<0.2	<0.2	2.0	2.0
						1.0	0.7	328	23.3		8.0		28.0		90.3		6.6		10.9		4		73				<0.2		2.0	
					Middle	4.1	0.6	4	23.2	23.2	8.0	8.0	28.8	28.8	90.3	90.3	6.5		20.9		7		73				<0.2		1.8	
						4.1	0.6	4	23.2		8.0		28.8		90.3		6.5		20.9		6		74				<0.2		2.0	
					Bottom	7.2	0.4	4	22.9	22.9	8.0	8.0	30.2	30.2	89.8	89.8	6.5	6.5	20.5		5		75				<0.2		2.1	
						7.2	0.4	4	22.9		8.0		30.2		89.8		6.5		20.5		7		75				<0.2		2.2	
IM3	Cloudy	Moderate	10:05	8.5	Surface	1.0	0.2	22	23.3	23.3	8.0	8.0	28.1	28.1	90.1	90.1	6.5	6.5	12.2	16.0	5	5	73	75	819398	806035	<0.2	<0.2	2.1	1.8
						1.0	0.3	22	23.3		8.0		28.1		90.1		6.5		12.2		4		73				<0.2		2.1	
					Middle	4.3	0.2	24	23.2	23.2	8.0	8.0	28.4	28.4	90.1	90.1	6.5		17.6		5		75				<0.2		1.7	
						4.3	0.3	24	23.2		8.0		28.4		90.1		6.5		17.6		4		75				<0.2		1.7	
					Bottom	7.5	0.2	20	23.0	23.0	8.0	8.0	29.9	29.9	89.7	89.7	6.5	6.5	18.2		6		75				<0.2		1.7	
						7.5	0.2	21	23.0		8.0		29.9		89.7		6.5		18.2		4		76				<0.2		1.7	
IM4	Cloudy	Moderate	10:12	8.2	Surface	1.0	0.5	29	23.5	23.5	8.0	8.0	26.5	26.5	89.3	89.3	6.5	6.5	11.0	16.6	4	5	73	75	819566	805030	<0.2	<0.2	2.5	2.3
						1.0	0.5	31	23.5		8.0		26.5		89.3		6.5		11.0		5		73				<0.2		2.6	
					Middle	4.1	0.6	39	23.2	23.2	8.0	8.0	27.5	27.5	89.5	89.5	6.5		19.0		5		75				<0.2		2.4	
						4.1	0.6	40	23.2		8.0		27.5		89.5		6.5		19.0		6		75				<0.2		2.4	
					Bottom	7.2	0.5	40	22.8	22.8	8.0	8.0	30.2	30.2	89.1	89.1	6.4	6.4	19.8		4		77				<0.2		1.9	
						7.2	0.5	43	22.8		8.0		30.2		89.1		6.4		19.8		5		77				<0.2		2.1	
IM5	Cloudy	Moderate	10:21	7.6	Surface	1.0	0.7	41	23.3	23.3	8.0	8.0	27.3	27.3	89.6	89.6	6.5	6.5	17.8	21.5	8	8	72	74	820547	804942	<0.2	<0.2	2.2	2.1
						1.0	0.7	43	23.3		8.0		27.3		89.6		6.5		17.8		8		73				<0.2		2.2	
					Middle	3.8	0.7	36	23.2	23.2	8.0	8.0	27.6	27.6	89.6	89.6	6.5		22.3		8		74				<0.2		2.1	
						3.8	0.7	38	23.2		8.0		27.6		89.6		6.5		22.3		7		74				<0.2		2.0	
					Bottom	6.6	0.6	31	23.2	23.2	8.0	8.0	29.4	29.4	90.6	90.6	6.5	6.5	24.5		10		75				<0.2		2.0	
						6.6	0.6	31	23.2		8.0		29.4		90.6		6.5		24.5		8		75				<0.2		1.8	
IM6	Cloudy	Moderate	10:28	7.2	Surface	1.0	0.4	23	23.3	23.3	8.0	8.0	27.9	27.9	89.0	89.0	6.5	6.5	17.1	18.3	10	12	72	74	821073	805834	<0.2	<0.2	2.1	1.8
						1.0	0.4	23	23.3		8.0		27.9		89.0		6.5		17.1		9		72				<0.2		1.8	
					Middle	3.6	0.5	-	23.2	23.2	8.0	8.0	28.4	28.4	89.0	89.0	6.5		18.6		13		73				<0.2		1.6	
						3.6	0.5	-	23.2		8.0		28.4		89.0		6.5		18.6		13		74				<0.2		1.6	
					Bottom	6.2	0.4	356	23.2	23.2	8.0	8.0	28.7	28.7	89.3	89.3	6.5	6.5	19.2		13		76				<0.2		1.7	
						6.2	0.4	328	23.2		8.0		28.7		89.3		6.5		19.2		13		76				<0.2		1.8	
IM7	Cloudy	Moderate	10:35	8.4	Surface	1.0	0.3	23	23.4	23.4	8.0	8.0	27.2	27.2	88.9	88.9	6.5	6.5	18.8	21.0	3	10	71	73	821357	806859	<0.2	<0.2	2.8	2.4
						1.0	0.3	23	23.4		8.0		27.2		88.9		6.5		18.8		5		72				<0.2		2.9	
					Middle	4.2	0.4	18	23.3	23.3	8.0	8.0	28.3	28.3	88.6	88.6	6.4		20.7		12		73				<0.2		2.4	
						4.2	0.5	19	23.4		8.0		28.3		88.6		6.4		20.7		11		73				<0.2		2.3	
					Bottom	7.4	0.4	16	23.2	23.2	8.0	8.0	28.6	28.6	88.7	88.7	6.4	6.4	23.6		13		75				<0.2		1.9	
						7.4	0.4	16	23.2		8.0		28.6		88.7		6.4		23.6		14		74				<0.2		2.1	
IM8	Sunny	Moderate	10:04	8.4	Surface	1.0	0.2	67	23.5	23.5	8.0	8.0	25.1	25.1	85.9	85.9	6.3	6.3	12.9	15.8	8	7	73	75	821691	807827	<0.2	<0.2	2.8	2.8
						1.0	0.2	68	23.5		8.0		25.1		85.9		6.3		13.2		6		74				<0.2		2.9	
					Middle	4.2	0.3	39	23.4	23.4	8.0	8.0	25.7	25.7	85.5	85.5	6.3		16.6		6		75				<0.2		2.8	
						4.2	0.4	40	23.4		8.0		25.7		85.5		6.3		16.9		6		75				<0.2		2.8	
					Bottom	7.4	0.3	39	23.3	23.3	8.1	8.1	26.4	26.4	85.5	85.5	6.3	6.3	17.8		7		77				<0.2		2.9	
						7.4	0.3	40	23.3		8.1		26.4		85.5		6.3		17.4		6		78				<0.2		2.6	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 05 April 18 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	09:55	7.4	Surface	1.0	0.3	304	23.4	23.4	8.0	8.0	26.1	26.1	86.2	86.2	6.3	6.3	14.6	18.0	17	17	73	76	822113	808798	<0.2	<0.2	2.4	2.4
						1.0	0.3	317	23.4		8.0		26.1		86.2		6.3		14.2		17		74				<0.2		2.4	
					Middle	3.7	0.4	314	23.4	23.4	8.0	8.0	26.1	26.1	86.1	86.1	6.3		18.8		18		75				<0.2		2.3	
						3.7	0.4	321	23.4		8.0		26.1		86.1		6.3		18.9		16		76				<0.2		2.4	
					Bottom	6.4	0.4	326	23.4	23.4	8.0	8.0	26.2	26.2	86.7	86.7	6.4	6.4	20.7		18		77				<0.2		2.5	
						6.4	0.4	352	23.4		8.0		26.2		86.7		6.4		20.7		17		78				<0.2		2.2	
IM10	Sunny	Moderate	09:47	7.0	Surface	1.0	0.6	303	23.5	23.5	8.0	8.0	25.8	25.8	85.9	85.9	6.3	6.3	13.8	15.4	7	7	73	75	822216	809836	<0.2	<0.2	2.5	2.5
						1.0	0.6	324	23.5		8.0		25.8		85.9		6.3		13.8		8		74				<0.2		2.5	
					Middle	3.5	0.5	304	23.3	23.3	8.0	8.0	26.7	26.7	85.3	85.3	6.2		15.6		7		75				<0.2		2.7	
						3.5	0.6	315	23.3		8.0		26.7		85.3		6.2		15.4		7		76				<0.2		2.5	
					Bottom	6.0	0.4	312	23.3	23.3	8.0	8.0	26.8	26.8	85.9	85.9	6.3	6.3	16.8		8		77				<0.2		2.4	
						6.0	0.4	325	23.3		8.0		26.8		85.9		6.3		16.8		7		77				<0.2		2.5	
IM11	Sunny	Moderate	09:31	7.7	Surface	1.0	0.6	288	23.4	23.4	8.0	8.0	25.8	25.8	85.7	85.7	6.3	6.3	11.1	12.6	7	8	74	76	821478	810542	<0.2	<0.2	2.4	2.5
						1.0	0.6	292	23.4		8.0		25.8		85.6		6.3		11.0		8		73				<0.2		2.6	
					Middle	3.9	0.4	286	23.4	23.4	8.0	8.0	26.5	26.5	85.1	85.1	6.2		12.5		7		75				<0.2		2.5	
						3.9	0.4	303	23.4		8.0		26.5		85.1		6.2		12.5		9		76				<0.2		2.6	
					Bottom	6.7	0.4	295	23.3	23.3	8.0	8.0	27.1	27.1	85.5	85.6	6.2	6.3	14.3		7		77				<0.2		2.6	
						6.7	0.4	304	23.3		8.0		27.1		85.6		6.3		14.4		7		78				<0.2		2.4	
IM12	Sunny	Moderate	09:25	8.0	Surface	1.0	0.7	279	23.5	23.5	7.9	7.9	25.3	25.4	85.8	85.8	6.3	6.2	12.4	14.1	8	7	74	76	821166	811498	<0.2	<0.2	2.1	2.1
						1.0	0.7	291	23.5		7.9		25.4		85.8		6.3		12.7		7		75				<0.2		2.0	
					Middle	4.0	0.7	277	23.2	23.2	8.0	8.0	27.4	27.4	83.9	83.9	6.1		13.5		7		75				<0.2		2.0	
						4.0	0.8	285	23.2		8.0		27.4		83.9		6.1		13.2		7		75				<0.2		2.1	
					Bottom	7.0	0.5	277	23.2	23.2	8.0	8.0	27.6	27.6	84.0	84.0	6.1	6.1	16.2		7		77				<0.2		2.1	
						7.0	0.5	277	23.2		8.0		27.7		84.0		6.1		16.5		7		77				<0.2		2.1	
SR2	Sunny	Moderate	08:58	4.6	Surface	1.0	0.2	315	23.3	23.3	8.0	8.0	27.3	27.3	83.9	84.0	6.1	6.1	13.0	15.9	7	7	74	74	821465	814165	<0.2	<0.2	2.0	2.1
						1.0	0.2	319	23.3		8.0		27.3		84.0		6.1		13.1		6		73				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	320	23.2	23.2	8.0	8.0	27.8	27.8	85.8	85.9	6.3	6.3	18.7		8		75				<0.2		2.0	
						3.6	0.2	341	23.2		8.0		27.8		85.9		6.3		18.7		6		75				<0.2		2.1	
SR3	Sunny	Moderate	10:09	9.2	Surface	1.0	0.3	24	23.6	23.6	7.9	7.9	25.1	25.1	85.1	85.1	6.3	6.3	8.2	10.2	5	7	-	-	822127	807567	-	-	-	-
						1.0	0.4	25	23.6		7.9		25.1		85.1		6.3		8.3		6		-				-		-	
					Middle	4.6	0.3	26	23.5	23.5	7.9	7.9	25.2	25.2	84.4	84.5	6.2		9.9		9		-				-		-	
						4.6	0.3	27	23.5		7.9		25.2		84.5		6.2		10.1		8		-				-		-	
					Bottom	8.2	0.2	9	23.4	23.4	7.9	7.9	25.5	25.5	85.1	85.1	6.3	6.3	12.4		7		-				-		-	
						8.2	0.2	9	23.4		7.9		25.5		85.1		6.3		12.5		8		-				-		-	
SR4A	Fine	Calm	09:16	9.3	Surface	1.0	0.4	252	23.2	23.2	7.9	7.9	28.6	28.6	85.8	85.8	6.2	6.2	14.9	19.1	10	11	-	-	817201	807807	-	-	-	-
						1.0	0.5	269	23.2		7.9		28.6		85.8		6.2		14.9		9		-				-		-	
					Middle	4.7	0.3	252	23.2	23.2	7.9	7.9	28.6	28.6	85.8	85.8	6.2		18.1		9		-				-		-	
						4.7	0.3	256	23.2		7.9		28.6		85.8		6.2		18.1		9		-				-		-	
					Bottom	8.3	0.2	250	23.2	23.2	7.9	7.9	28.7	28.7	86.2	86.2	6.3	6.3	24.4		13		-				-		-	
						8.3	0.2	259	23.2		7.9		28.7		86.2		6.3		24.4		13		-				-		-	
SR5A	Fine	Calm	09:00	4.0	Surface	1.0	0.3	270	23.3	23.3	7.9	7.9	28.4	28.4	84.6	84.6	6.1	6.1	16.5	16.8	8	11	-	-	816597	810711	-	-	-	-
						1.0	0.3	283	23.3		7.9		28.4		84.6		6.1		16.5		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	284	23.3	23.3	7.9	7.9	28.4	28.4	86.1	86.1	6.2	6.2	17.1		13		-				-		-	
						3.0	0.3	309	23.3		7.9		28.4		86.1		6.2		17.1		15		-				-		-	
SR6	Fine	Calm	08:40	4.3	Surface	1.0	0.2	255	23.3	23.3	7.9	7.9	27.6	27.6	83.0	83.0	6.0	6.0	13.9	13.6	8	9	-	-	817869	814647	-	-	-	-
						1.0	0.2	256	23.3		7.9		27.6		83.0		6.0		13.9		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	268	23.2	23.2	7.9	7.9	27.9	27.9	87.1	87.1	6.3	6.3	13.2		11		-				-		-	
						3.3	0.2	268	23.2		7.9		27.9		87.1		6.3		13.2		9		-				-		-	
SR7	Sunny	Moderate	08:08	18.7	Surface	1.0	0.2	224	23.1	23.1	8.0	8.0	27.8	27.8	85.1	85.1	6.2	6.2	8.1	8.6	4	4	-	-	823621	823721	-	-	-	-
						1.0	0.2	224	23.1		8.0		27.8		85.1		6.2		8.3		4		-				-		-	
					Middle	9.4	0.3	192	22.7	22.7	8.0	8.0	29.5	29.5	83.3	83.3	6.1		8.6		4		-				-		-	
						9.4	0.3	196	22.7		8.0		29.5		83.3		6.1		8.9		4		-				-		-	
					Bottom	17.7	-	53	22.5	22.5	8.0	8.0	30.4	30.4	83.0	83.0	6.0	6.0	8.7		6		-				-		-	
						17.7	-	57	22.5		8.0		30.4		83.0		6.0		8.7		4		-				-		-	
SR8	Sunny	Moderate	09:19	4.0	Surface	1.0	-	-	23.4	23.4	8.0	8.0	25.7	25.7	86.8	86.8	6.4	6.4	9.5	9.3	4	4	-	-	820246	811418	-	-	-	-
						1.0	-	-	23.4		8.0		25.7		86.8		6.4		9.7		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	23.4	23.4	8.0	8.0	26.0	26.0	88.4	88.4	6.5	6.5	8.9		5		-				-		-	
						3.0	-	-	23.4		8.0		26.0		88.4		6.5		8.9		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 07 April 18 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	Average	DA	Value	DA
C1	Cloudy	Rough	16:57	9.1	Surface	1.0	0.5	209	21.5	21.5	8.2	8.2	30.9	30.9	97.6	97.6	7.2	7.1	9.0	9.8	6	7	73	75	815649	804223	<0.2	<0.2	<0.2	2.4	2.5
						1.0	0.6	214	21.5		8.2		30.9		97.6		7.2		9.2		5		73				<0.2			2.6	
					Middle	4.6	0.4	197	21.8	21.8	8.2	8.2	31.7	31.7	95.6	95.6	7.0		8.6		6		75				<0.2	<0.2		2.6	
						4.6	0.4	197	21.8		8.2		31.7		95.5		7.0		8.5		6		75				<0.2			2.6	
					Bottom	8.1	0.3	191	22.4	22.4	8.2	8.2	33.3	33.3	94.9	95.0	6.8	6.8	11.8		10		77				<0.2	<0.2		2.4	
						8.1	0.3	204	22.4		8.2		33.3		95.0		6.8		11.8		10		77				<0.2			2.4	
C2	Cloudy	Rough	15:57	12.0	Surface	1.0	0.3	162	22.1	22.1	8.0	8.0	27.5	27.5	91.5	91.5	6.8	6.7	13.1	13.1	8	9	73	75	825701	806960	<0.2	<0.2	<0.2	2.8	2.6
						1.0	0.3	171	22.1		8.0		27.5		91.5		6.8		13.1		7		73				<0.2			2.8	
					Middle	6.0	0.1	138	22.3	22.3	8.1	8.1	30.8	30.8	91.3	91.3	6.6		14.8		8		75				<0.2	<0.2		2.6	
						6.0	0.2	142	22.3		8.1		30.8		91.3		6.6		14.8		7		75				<0.2			2.5	
					Bottom	11.0	0.1	355	22.1	22.1	8.1	8.1	32.4	32.4	93.4	93.4	6.8	6.8	11.3		10		77				<0.2	<0.2		2.4	
						11.0	0.1	327	22.1		8.1		32.4		93.4		6.8		11.3		11		77				<0.2			2.4	
C3	Cloudy	Moderate	17:41	11.8	Surface	1.0	0.3	74	22.0	22.0	8.1	8.1	32.0	32.0	92.7	92.7	6.7	6.8	5.5	5.9	5	5	73	75	822123	817800	<0.2	<0.2	<0.2	1.6	1.7
						1.0	0.3	74	22.0		8.1		32.0		92.7		6.7		5.5		6		74				<0.2			1.7	
					Middle	5.9	0.2	89	22.1	22.1	8.1	8.1	32.7	32.7	93.6	93.6	6.8		5.9		6		75				<0.2	<0.2		1.7	
						5.9	0.2	95	22.1		8.1		32.7		93.6		6.8		5.9		4		75				<0.2			1.6	
					Bottom	10.8	0.2	69	22.1	22.1	8.1	8.1	33.2	33.2	95.3	95.3	6.9	6.9	6.2		5		77				<0.2	<0.2		1.7	
						10.8	0.2	73	22.1		8.1		33.2		95.3		6.9		6.2		4		76				<0.2			1.6	
IM1	Cloudy	Rough	16:41	7.8	Surface	1.0	0.2	179	21.9	21.9	8.2	8.2	31.1	31.1	94.9	95.0	6.9	6.9	10.7	11.0	10	10	73	75	818378	806473	<0.2	<0.2	<0.2	2.2	2.3
						1.0	0.2	196	21.9		8.2		31.1		95.0		7.0		10.6		10		73				<0.2			2.4	
					Middle	3.9	0.2	145	22.0	22.0	8.2	8.2	31.9	31.9	95.2	95.2	6.9		10.1		9		75				<0.2	<0.2		2.3	
						3.9	0.2	150	22.0		8.2		31.9		95.2		6.9		10.3		10		75				<0.2			2.4	
					Bottom	6.8	0.1	159	22.3	22.3	8.2	8.2	32.8	32.8	95.3	95.3	6.9	6.9	12.4		11		77				<0.2	<0.2		2.3	
						6.8	0.1	168	22.3		8.2		32.8		95.3		6.9		11.9		10		77				<0.2			2.1	
IM2	Cloudy	Rough	16:36	8.6	Surface	1.0	0.2	189	21.8	21.8	8.2	8.2	30.7	30.7	94.6	94.6	6.9	6.9	11.1	11.0	8	10	73	75	818829	806219	<0.2	<0.2	<0.2	2.2	2.2
						1.0	0.2	202	21.8		8.2		30.7		94.6		6.9		11.3		8		73				<0.2			2.1	
					Middle	4.3	0.2	164	22.1	22.1	8.2	8.2	32.5	32.5	95.4	95.4	6.9		10.3		10		75				<0.2	<0.2		2.2	
						4.3	0.2	171	22.1		8.2		32.5		95.4		6.9		10.2		9		75				<0.2			2.2	
					Bottom	7.6	0.1	177	22.2	22.2	8.2	8.2	32.7	32.7	95.3	95.3	6.9	6.9	11.6		12		77				<0.2	<0.2		2.2	
						7.6	0.1	188	22.2		8.2		32.7		95.3		6.9		11.5		12		77				<0.2			2.3	
IM3	Cloudy	Rough	16:30	8.7	Surface	1.0	0.1	193	21.8	21.8	8.2	8.2	30.9	30.9	95.2	95.2	7.0	7.0	10.6	10.9	8	8	73	75	819405	805997	<0.2	<0.2	<0.2	2.2	2.2
						1.0	0.2	206	21.8		8.2		30.9		95.2		7.0		10.8		7		73				<0.2			2.2	
					Middle	4.4	0.2	102	21.9	21.9	8.2	8.2	31.6	31.6	95.2	95.2	6.9		10.1		8		75				<0.2	<0.2		2.0	
						4.4	0.2	111	21.9		8.2		31.6		95.2		6.9		10.0		8		75				<0.2			2.0	
					Bottom	7.7	0.1	45	22.2	22.2	8.2	8.2	32.7	32.7	95.0	95.0	6.9	6.9	11.8		7		77				<0.2	<0.2		2.2	
						7.7	0.1	45	22.2		8.2		32.7		95.0		6.9		11.8		8		77				<0.2			2.3	
IM4	Cloudy	Rough	16:22	8.2	Surface	1.0	0.2	190	21.7	21.7	8.2	8.2	30.4	30.4	96.8	96.8	7.1	7.1	9.0	10.4	6	7	73	75	819544	805057	<0.2	<0.2	<0.2	2.2	2.2
						1.0	0.2	204	21.7		8.2		30.4		96.8		7.1		9.2		8		73				<0.2			2.2	
					Middle	4.1	0.1	184	21.8	21.8	8.2	8.2	31.8	31.8	95.9	95.9	7.0		9.1		7		75				<0.2	<0.2		2.3	
						4.1	0.1	189	21.8		8.2		31.8		95.9		7.0		9.2		7		75				<0.2			2.2	
					Bottom	7.2	0.1	179	22.3	22.3	8.2	8.2	32.9	32.9	95.7	95.7	6.9	6.9	12.8		8		77				<0.2	<0.2		2.3	
						7.2	0.2	188	22.3		8.2		32.9		95.7		6.9		12.9		8		77				<0.2			2.1	
IM5	Cloudy	Rough	16:13	7.4	Surface	1.0	0.1	138	21.7	21.7	8.2	8.2	31.0	31.0	97.1	97.1	7.1	7.1	8.6	12.8	6	7	73	75	820589	804919	<0.2	<0.2	<0.2	2.1	2.1
						1.0	0.1	144	21.7		8.2		31.0		97.1		7.1		8.7		7		73				<0.2			2.2	
					Middle	3.7	0.1	126	21.7	21.7	8.2	8.2	31.2	31.2	95.9	95.9	7.0		10.3		7		75				<0.2	<0.2		2.2	
						3.7	0.1	126	21.7		8.2		31.2		95.8		7.0		10.3		6		75				<0.2			2.1	
					Bottom	6.4	0.1	159	22.1	22.1	8.2	8.2	32.1	32.1	93.4	93.4	6.8	6.8	19.6		7		77				<0.2	<0.2		2.1	
						6.4	0.1	166	22.1		8.2		32.1		93.4		6.8		19.5		6		77				<0.2			2.1	
IM6	Cloudy	Rough	16:06	7.5	Surface	1.0	0.1	156	21.7	21.7	8.2	8.2	30.3	30.3	95.5	95.5	7.0	6.9	10.2	13.3	7	8	73	75	821068	805803	<0.2	<0.2	<0.2	2.2	2.2
						1.0	0.1	168	21.7		8.2		30.3		95.4		7.0		10.1		8		73				<0.2			2.3	
					Middle	3.8	0.1	114	21.8	21.8	8.2	8.2	30.7	30.7	93.2	93.2	6.8		12.7		6		75				<0.2	<0.2		2.2	
						3.8	0.1	120	21.8		8.2		30.7		93.1		6.8		12.7		6		75				<0.2			2.1	
					Bottom	6.5	0.1	110	22.2	22.2	8.2	8.2	32.1	32.1	92.4	92.4	6.7	6.7	17.1		8		77				<0.2	<0.2		2.1	
						6.5	0.1	120	22.2		8.2		32.1		92.4		6.7		17.2		10		77				<0.2			2.0	
IM7	Cloudy	Rough	15:58	8.9	Surface	1.0	0.1	135	21.7	21.7	8.2	8.2	28.5	28.5	94.8	94.8	7.1	7.0	13.2	16.0	10	11	73	75	821352	806822	<0.2	<0.2	<0.2	1.9	2.0
						1.0	0.1	144	21.7		8.2		28.5		94.7		7.1		13.3		11		73				<0.2			2.0	
					Middle	4.5	0.2	88	21.7	21.7	8.2	8.2	29.9	29.9	92.9	92.9	6.9		14.1		11		75				<0.2	<0.2		2.1	
						4.5	0.3	96	21.7		8.2		29.9		92.8		6.9		14.4		11		75				<0.2			2.1	
					Bottom	7.9	0.2	98	22.2	22.2	8.2	8.2	31.9	31.9	92.6	92.7	6.7	6.7	20.6		10		76				<0.2	<0.2		1.9	
						7.9	0.2	103	22.2		8.2		31.9		92.7		6.7		20.6		12		77				<0.2			2.1	
IM8	Cloudy	Moderate	16:20	8.8	Surface	1.0	0.2	142	21.8	21.8	8.2	8.2	28.3	28.3	95.3	95.3	7.1	7.1	15.2	15.1	9	11	73	75	821666	807855	<0.2	<0.2	<0.2	1.9	2.0
						1.0	0.2	146	21.8		8.2		28.3		95.3		7.1		15.2		11		73				<0.2			1.9	
					Middle	4.4	0.2	119	21.9	21.9	8.1	8.1	28.7	28.7	95.5	95.5	7.1		15.6		9		75				<0.2	<0.2		2.1	
						4.4	0.2	124	21.9		8.1		28.7		95.5		7.1		15.6		10		75				<0.2			2.1	
					Bottom	7.8	0.2	70	21.8	21.8	8.1	8.1	31.8	31.8	96.4	96.4	7.0	7.0	14.4		12		75				<0.2	<0.2		1.8	
						7.8	0.2	75	21.8		8.1		31.8		96.4		7.0		14.4		13		76				<0.2			2.0	

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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 07 April 18 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	Average	DA	Value	DA
IM9	Cloudy	Moderate	16:28	7.6	Surface	1.0	0.3	119	21.8	21.8	8.2	8.2	28.5	28.5	94.4	94.4	7.0	7.0	15.3	18.3	11	11	73	75	822068	808825	<0.2	<0.2	<0.2	1.9	1.9
						1.0	0.4	119	21.8		8.2		28.5		94.4		7.0		15.3		12		73				<0.2			2.0	
					Middle	3.8	0.4	99	21.8	21.8	8.2	8.2	29.1	29.1	93.8	93.8	6.9		17.8		12		75				<0.2	<0.2		1.9	
						3.8	0.4	99	21.8		8.2		29.1		93.8		6.9		17.8		11		75				<0.2			1.8	
					Bottom	6.6	0.2	83	22.1	22.1	8.1	8.1	31.6	31.6	95.6	95.6	7.0	7.0	21.9		11		76				<0.2	<0.2		1.9	
						6.6	0.3	88	22.1		8.1		31.6		95.6		7.0		21.9		11		77				<0.2			1.8	
IM10	Cloudy	Moderate	16:35	7.5	Surface	1.0	0.5	113	22.1	22.1	8.1	8.1	29.9	29.9	92.1	92.1	6.8	6.8	14.8	15.1	9	10	73	74	822229	809863	<0.2	<0.2	<0.2	1.8	1.8
						1.0	0.5	114	22.1		8.1		29.9		92.1		6.8		14.8		11		73				<0.2			1.8	
					Middle	3.8	0.3	97	22.1	22.1	8.1	8.1	30.3	30.3	92.6	92.6	6.8		15.0		10		75				<0.2	<0.2		1.7	
						3.8	0.4	97	22.1		8.1		30.3		92.6		6.8		15.0		10		71				<0.2			1.9	
					Bottom	6.5	0.4	97	22.1	22.1	8.1	8.1	31.1	31.1	99.9	99.9	7.3	7.3	15.5		10		77				<0.2	<0.2		1.7	
						6.5	0.4	100	22.1		8.1		31.1		99.9		7.3		15.5		9		76				<0.2			1.7	
IM11	Cloudy	Moderate	16:48	8.2	Surface	1.0	0.4	101	22.0	22.0	8.1	8.1	29.1	29.1	90.3	90.3	6.7	6.7	15.5	16.2	10	12	73	74	821473	810574	<0.2	<0.2	<0.2	1.7	1.7
						1.0	0.4	109	22.0		8.1		29.1		90.3		6.7		15.5		9		73				<0.2			1.8	
					Middle	4.1	0.3	92	22.1	22.1	8.2	8.2	30.4	30.4	90.4	90.4	6.6		16.4		12		74				<0.2	<0.2		1.7	
						4.1	0.3	95	22.1		8.2		30.4		90.4		6.6		16.4		12		74				<0.2			1.8	
					Bottom	7.2	0.1	75	22.1	22.1	8.1	8.1	30.8	30.8	92.2	92.2	6.7	6.7	16.6		12		75				<0.2	<0.2		1.7	
						7.2	0.1	77	22.1		8.1		30.8		92.2		6.7		16.6		14		75				<0.2			1.7	
IM12	Cloudy	Moderate	16:56	8.9	Surface	1.0	0.4	82	21.9	21.9	8.1	8.1	29.5	29.5	90.7	90.7	6.7	6.6	13.9	13.2	12	13	72	74	821186	811503	<0.2	<0.2	<0.2	1.8	1.7
						1.0	0.4	86	21.9		8.1		29.5		90.7		6.7		13.9		13		73				<0.2			1.7	
					Middle	4.5	0.2	95	21.9	21.9	8.1	8.1	30.4	30.4	88.7	88.7	6.5		11.6		14		75				<0.2	<0.2		1.6	
						4.5	0.2	104	21.9		8.1		30.4		88.7		6.5		11.6		13		75				<0.2			1.7	
					Bottom	7.9	0.1	134	22.2	22.2	8.0	8.0	31.7	31.7	88.4	88.4	6.4	6.4	14.0		14		76				<0.2	<0.2		1.6	
						7.9	0.1	147	22.2		8.0		31.7		88.4		6.4		14.0		13		75				<0.2			1.7	
SR2	Cloudy	Moderate	17:21	4.3	Surface	1.0	0.2	46	22.0	22.0	8.1	8.1	31.0	31.0	91.7	91.7	6.7	6.7	7.8	8.3	8	8	73	74	821468	814141	<0.2	<0.2	<0.2	1.2	1.3
						1.0	0.2	47	22.0		8.1		31.0		91.7		6.7		7.8		8		73				<0.2			1.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.3	0.2	38	22.2	22.2	8.1	8.1	32.0	32.0	94.1	94.1	6.8	6.8	8.8		8		75				<0.2	<0.2		1.3	
						3.3	0.2	40	22.2		8.1		32.0		94.1		6.8		8.8		8		75				<0.2			1.3	
SR3	Cloudy	Moderate	16:16	9.4	Surface	1.0	0.3	156	21.9	21.9	8.0	8.0	27.8	27.8	94.9	94.9	7.1	7.1	12.8	17.7	10	11	-	-	822136	807586	-	-	-	-	-
						1.0	0.3	156	21.9		8.0		27.8		94.9		7.1		12.8		11		-				-			-	
					Middle	4.7	0.2	143	21.7	21.7	8.1	8.1	29.8	29.8	94.3	94.3	7.0		16.2		11		-	-			-	-		-	
						4.7	0.2	149	21.7		8.1		29.8		94.3		7.0		16.2		10		-				-			-	
					Bottom	8.4	0.3	150	22.1	22.1	8.1	8.1	31.7	31.7	95.7	95.7	7.0	7.0	24.2		11		-	-			-	-		-	
						8.4	0.3	150	22.1		8.1		31.7		95.7		7.0		24.2		10		-				-			-	
SR4A	Cloudy	Moderate	17:20	9.2	Surface	1.0	0.3	81	21.8	21.8	8.1	8.1	31.2	31.2	93.3	93.3	6.8	6.8	14.7	15.8	11	12	-	-	817192	807795	-	-	-	-	-
						1.0	0.3	85	21.8		8.1		31.2		93.3		6.8		14.5		11		-				-			-	
					Middle	4.6	0.3	75	22.3	22.3	8.2	8.2	32.5	32.5	93.3	93.3	6.7		13.3		12		-	-			-	-		-	
						4.6	0.4	77	22.3		8.2		32.5		93.3		6.7		13.4		12		-				-			-	
					Bottom	8.2	0.2	61	22.3	22.3	8.2	8.2	32.8	32.8	93.3	93.3	6.7	6.7	19.2		15		-	-			-	-		-	
						8.2	0.2	61	22.3		8.2		32.8		93.3		6.7		19.5		13		-				-			-	
SR5A	Cloudy	Moderate	17:36	5.1	Surface	1.0	0.3	24	22.0	22.0	8.0	8.0	28.5	28.5	88.3	88.3	6.5	6.6	14.9	15.9	10	10	-	-	816612	810723	-	-	-	-	-
						1.0	0.3	25	22.0		8.0		28.5		88.3		6.6		15.1		10		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	4.1	0.2	8	22.0	22.0	8.1	8.1	30.0	30.0	90.2	90.2	6.6	6.6	16.7		10		-	-			-	-		-	
						4.1	0.2	8	22.0		8.1		29.9		90.2		6.6		16.9		11		-				-			-	
SR6	Cloudy	Moderate	17:59	4.1	Surface	1.0	0.1	69	22.0	22.0	8.0	8.0	27.3	27.3	89.1	89.1	6.7	6.7	11.0	11.4	10	10	-	-	817909	814659	-	-	-	-	-
						1.0	0.1	72	22.0		8.0		27.3		89.0		6.6		11.1		10		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.1	0.1	83	22.2	22.2	8.0	8.0	27.7	27.7	90.5	90.6	6.7	6.7	11.8		10		-	-			-	-		-	
						3.1	0.1	86	22.2		8.0		27.7		90.6		6.7		11.7		10		-				-			-	
SR7	Cloudy	Moderate	18:09	16.3	Surface	1.0	0.1	35	21.9	21.9	8.1	8.1	32.5	32.5	92.6	92.6	6.7	6.7	5.1	6.0	6	6	-	-	823665	823736	-	-	-	-	-
						1.0	0.1	36	21.9		8.1		32.5		92.6		6.7		5.1		6		-				-			-	
					Middle	8.2	0.1	315	22.1	22.1	8.1	8.1	33.3	33.3	92.5	92.5	6.7		6.1		6		-	-			-	-		-	
						8.2	0.1	322	22.1		8.1		33.3		92.5		6.7		6.1		5		-				-			-	
					Bottom	15.3	0.1	91	22.1	22.1	8.1	8.1	33.3	33.3	93.7	93.8	6.7	6.7	6.9		7		-	-			-	-		-	
						15.3	0.1	94	22.1		8.1		33.3		93.8		6.7		6.8		6		-				-			-	
SR8	Cloudy	Moderate	17:09	4.3	Surface	1.0	-	-	22.0	22.0	8.1	8.1	29.8	29.8	92.4	92.4	6.8	6.8	14.3	12.5	8	9	-	-	820246	811418	-	-	-	-	-
						1.0	-	-	22.0		8.1		29.8		92.4		6.8		14.3		8		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.3	-	-	22.0	22.0	8.1	8.1	30.3	30.3	96.1	96.1	7.0	7.0	10.6		10		-	-			-	-		-	
						3.3	-	-	22.0		8.1		30.3		96.1		7.0		10.6		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 07 April 18 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	Average	DA	Value	DA
C1	Cloudy	Rough	10:34	8.7	Surface	1.0	0.2	162	21.9	21.9	8.1	8.1	31.4	31.4	94.8	94.8	6.9	6.9	10.2	13.0	8	10	73	75	815637	804272	<0.2	<0.2	<0.2	1.8	1.8
						1.0	0.2	171	21.9		8.1		31.4		94.8		6.9		9.8		6		73				<0.2			1.7	
					Middle	4.4	0.1	236	22.1	22.1	8.2	8.2	31.9	31.9	94.5	94.5	6.9		13.4		9		75				<0.2	<0.2		1.8	
						4.4	0.1	258	22.1		8.2		31.9		94.5		6.9		13.4		11		75				<0.2			1.8	
					Bottom	7.7	0.1	55	22.4	22.4	8.2	8.2	33.0	33.0	94.5	94.5	6.8	6.8	15.5		13		76				<0.2	<0.2		1.8	
						7.7	0.2	55	22.4		8.2		33.0		94.5		6.8		15.6		13		77				<0.2			1.8	
C2	Cloudy	Rough	11:21	11.8	Surface	1.0	0.2	309	22.3	22.3	8.1	8.1	27.1	27.1	90.1	90.1	6.7	6.6	13.5	18.0	8	11	73	75	825708	806940	<0.2	<0.2	<0.2	2.6	2.6
						1.0	0.2	310	22.3		8.1		27.1		90.1		6.7		13.5		9		73				<0.2			2.5	
					Middle	5.9	0.4	321	22.3	22.3	8.0	8.0	30.7	30.7	89.7	89.7	6.5		21.2		11		75				<0.2	<0.2		2.7	
						5.9	0.4	335	22.3		8.0		30.7		89.7		6.5		21.2		13		75				<0.2			2.4	
					Bottom	10.8	0.3	313	22.3	22.3	8.0	8.0	31.1	31.1	91.9	91.9	6.7	6.7	19.4		12		75				<0.2	<0.2		2.6	
						10.8	0.3	330	22.3		8.0		31.1		91.9		6.7		19.4		13		76				<0.2			2.5	
C3	Cloudy	Moderate	09:25	11.4	Surface	1.0	0.4	248	22.2	22.2	8.1	8.1	31.6	31.6	90.3	90.3	6.6	6.6	5.7	6.4	7	9	74	75	822100	817832	<0.2	<0.2	<0.2	1.5	1.6
						1.0	0.4	250	22.2		8.1		31.6		90.3		6.6		5.8		8		73				<0.2			1.6	
					Middle	5.7	0.5	250	22.2	22.2	8.1	8.1	32.9	32.9	90.5	90.5	6.5		6.8		8		75				<0.2	<0.2		1.6	
						5.7	0.5	253	22.2		8.1		32.9		90.5		6.5		6.8		9		75				<0.2			1.4	
					Bottom	10.4	0.3	258	22.2	22.2	8.1	8.1	32.9	32.9	90.9	90.9	6.5	6.5	6.5		10		77				<0.2	<0.2		1.7	
						10.4	0.4	280	22.2		8.1		32.9		90.9		6.5		6.5		9		77				<0.2			1.5	
IM1	Cloudy	Rough	10:56	7.7	Surface	1.0	0.1	326	21.9	21.9	8.1	8.1	29.6	29.6	92.4	92.4	6.8	6.8	12.2	16.2	12	12	73	75	818323	806470	<0.2	<0.2	<0.2	2.0	2.1
						1.0	0.1	337	21.9		8.1		29.6		92.4		6.8		12.4		11		74				<0.2			2.1	
					Middle	3.9	0.2	353	21.9	21.9	8.1	8.1	29.7	29.7	91.8	91.8	6.8		15.2		11		75				<0.2	<0.2		2.2	
						3.9	0.2	325	21.9		8.1		29.7		91.8		6.8		15.3		11		75				<0.2			2.1	
					Bottom	6.7	0.3	18	22.2	22.2	8.2	8.2	32.4	32.4	91.9	91.9	6.6	6.6	21.1		12		77				<0.2	<0.2		2.0	
						6.7	0.3	18	22.2		8.2		32.4		91.9		6.6		20.7		13		78				<0.2			2.1	
IM2	Cloudy	Rough	11:03	8.6	Surface	1.0	0.2	352	21.9	21.9	8.1	8.1	29.3	29.3	93.0	93.1	6.9	6.9	12.6	16.4	14	14	74	76	818854	806206	<0.2	<0.2	<0.2	2.1	2.1
						1.0	0.2	324	21.9		8.1		29.3		93.1		6.9		12.7		14		74				<0.2			2.1	
					Middle	4.3	0.2	26	21.9	21.9	8.1	8.1	29.4	29.4	92.5	92.5	6.8		12.5		13		75				<0.2	<0.2		2.0	
						4.3	0.2	27	21.9		8.1		29.4		92.5		6.8		12.6		12		76				<0.2			2.2	
					Bottom	7.6	0.3	27	22.2	22.2	8.1	8.1	32.3	32.3	92.4	92.5	6.7	6.7	24.1		16		77				<0.2	<0.2		2.0	
						7.6	0.3	28	22.2		8.1		32.3		92.5		6.7		23.9		16		78				<0.2			2.1	
IM3	Cloudy	Rough	11:09	8.4	Surface	1.0	0.2	4	21.9	21.9	8.1	8.1	29.1	29.1	93.0	93.0	6.9	6.9	11.3	13.7	17	17	73	76	819434	806024	<0.2	<0.2	<0.2	1.8	1.8
						1.0	0.2	4	21.9		8.1		29.1		93.0		6.9		11.3		17		74				<0.2			1.7	
					Middle	4.2	0.3	26	21.9	21.9	8.1	8.1	29.2	29.2	92.5	92.5	6.8		13.3		17		76				<0.2	<0.2		1.8	
						4.2	0.3	27	21.9		8.1		29.2		92.5		6.8		13.3		16		76				<0.2			1.8	
					Bottom	7.4	0.2	34	22.2	22.2	8.1	8.1	32.2	32.2	91.8	91.8	6.6	6.6	16.4		17		77				<0.2	<0.2		1.8	
						7.4	0.2	36	22.2		8.1		32.2		91.8		6.6		16.4		16		77				<0.2			1.8	
IM4	Cloudy	Rough	11:17	8.1	Surface	1.0	0.3	6	21.7	21.7	8.1	8.1	29.4	29.4	94.0	94.0	7.0	7.0	10.4	13.0	8	8	73	76	819571	805037	<0.2	<0.2	<0.2	2.0	2.0
						1.0	0.3	6	21.7		8.1		29.4		94.0		7.0		10.6		6		74				<0.2			2.0	
					Middle	4.1	0.3	8	21.7	21.7	8.1	8.1	29.4	29.4	93.4	93.4	6.9		12.8		8		75				<0.2	<0.2		2.0	
						4.1	0.3	8	21.7		8.1		29.4		93.3		6.9		13.0		8		76				<0.2			1.9	
					Bottom	7.1	0.4	28	22.2	22.2	8.1	8.1	32.3	32.3	92.5	92.5	6.7	6.7	15.3		8		78				<0.2	<0.2		1.9	
						7.1	0.4	29	22.2		8.1		32.3		92.5		6.7		15.6		8		77				<0.2			2.0	
IM5	Cloudy	Rough	11:29	7.5	Surface	1.0	0.1	346	21.8	21.8	8.1	8.1	29.2	29.2	94.0	94.0	7.0	7.0	10.2	14.5	8	8	74	76	820539	804934	<0.2	<0.2	<0.2	1.8	1.8
						1.0	0.1	318	21.8		8.1		29.2		94.0		7.0		10.3		8		74				<0.2			1.6	
					Middle	3.8	0.2	355	21.8	21.8	8.1	8.1	29.3	29.3	92.9	92.9	6.9		14.4		7		76				<0.2	<0.2		1.9	
						3.8	0.3	327	21.8		8.1		29.3		92.8		6.9		14.3		8		76				<0.2			1.8	
					Bottom	6.5	0.1	323	22.1	22.1	8.1	8.1	32.1	32.1	92.6	92.7	6.7	6.7	18.7		7		78				<0.2	<0.2		1.8	
						6.5	0.1	345	22.1		8.1		32.1		92.7		6.7		18.8		8		78				<0.2			1.7	
IM6	Cloudy	Rough	11:38	7.4	Surface	1.0	0.1	140	21.9	21.9	8.1	8.1	29.1	29.1	93.2	93.2	6.9	6.9	11.3	13.9	9	9	74	76	821073	805856	<0.2	<0.2	<0.2	1.8	1.8
						1.0	0.1	150	21.9		8.1		29.1		93.2		6.9		11.4		8		73				<0.2			1.8	
					Middle	3.7	0.1	28	22.0	22.0	8.1	8.1	29.2	29.2	92.2	92.2	6.8		13.3		10		76				<0.2	<0.2		1.7	
						3.7	0.1	28	22.0		8.1		29.2		92.2		6.8		13.5		9		76				<0.2			1.7	
					Bottom	6.4	0.1	70	22.1	22.1	8.1	8.1	31.1	31.1	92.6	92.7	6.7	6.8	17.2		8		78				<0.2	<0.2		1.8	
						6.4	0.1	73	22.1		8.1		31.2		92.7		6.8		16.8		8		78				<0.2			1.7	
IM7	Cloudy	Rough	11:47	8.8	Surface	1.0	0.1	213	22.0	22.0	8.2	8.2	28.8	28.8	92.4	92.4	6.8	6.8	13.5	16.5	11	12	74	76	821359	806819	<0.2	<0.2	<0.2	1.9	1.7
						1.0	0.1	222	22.0		8.2		28.8		92.4		6.9		13.4		12		74				<0.2			1.8	
					Middle	4.4	0.1	21	22.1	22.1	8.2	8.2	29.6	29.6	91.7	91.7	6.7		14.6		11		75				<0.2	<0.2		1.7	
						4.4	0.1	21	22.1		8.2		29.6		91.7		6.7		14.7		12		76				<0.2			1.7	
					Bottom	7.8	0.1	283	22.2	22.2	8.1	8.1	31.0	31.0	91.8	91.9	6.7	6.7	21.8		12		77				<0.2	<0.2		1.6	
						7.8	0.1	283	22.2		8.1		31.0		91.9		6.7		21.2		12		78				<0.2			1.6	
IM8	Cloudy	Rough	10:50	8.2	Surface	1.0	0.2	228	22.1	22.1	8.2	8.2	27.1	27.1	90.3	90.3	6.7	6.8	20.1	20.4	17	17	74	75	821706	807844	<0.2	<0.2	<0.2	1.8	1.9
						1.0	0.2	236	22.1		8.2		27.1		90.3		6.7		20.1		17		73				<0.2			1.9	
					Middle	4.1	0.0	255	22.2	22.2	8.2	8.2	27.4	27.4	91.2	91.2	6.8		19.8		18		75				<0.2	<0.2		1.9	
						4.1	0.0	262	22.2		8.2		27.4		91.2		6.8		19.8		16		75				<0.2			1.9	
					Bottom	7.2	0.2	67	22.3	22.3	8.1	8.1	30.2	30.2	93.0	93.0	6.8	6.8	21.3		16		75				<0.2	<0.2		2.1	
						7.2	0.2	69	22.3		8.1		30.2		93.0		6.8		21.3		16		76				<0.2			1.7	

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 07 April 18 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	Average	DA	Value	DA
IM9	Cloudy	Rough	10:43	7.3	Surface	1.0	0.1	352	22.3	22.3	8.2	8.2	27.4	27.4	89.5	89.3	6.7	6.6	16.9	18.4	17	19	73	75	822084	808836	<0.2	<0.2	<0.2	1.4	1.4
						1.0	0.1	324	22.3		8.2		27.4		89.1		6.6		16.9		19		73				<0.2			1.4	
					Middle	3.7	0.2	305	22.3	22.3	8.2	8.2	27.7	27.7	88.8	88.8	6.6		18.8		18		75				<0.2	<0.2		1.4	
						3.7	0.2	307	22.3		8.2		27.7		88.8		6.6		18.8		19		75				<0.2			1.4	
					Bottom	6.3	0.3	289	22.4	22.4	8.1	8.1	30.2	30.2	90.8	90.8	6.6	6.6	19.6		20		76				<0.2	<0.2		1.4	
						6.3	0.4	306	22.4		8.1		30.2		90.8		6.6		19.6		20		77				<0.2			1.4	
IM10	Cloudy	Rough	10:35	7.4	Surface	1.0	0.4	288	22.0	22.0	8.0	8.0	30.1	30.1	89.6	89.6	6.6	6.6	8.3	11.1	6	5	73	75	822233	809859	<0.2	<0.2	<0.2	1.4	1.4
						1.0	0.4	313	22.0		8.0		30.1		89.6		6.6		8.3		6		73				<0.2			1.4	
					Middle	3.7	0.3	282	22.1	22.1	8.0	8.0	31.1	31.1	89.7	89.7	6.5		11.9		5		75				<0.2	<0.2		1.2	
						3.7	0.4	306	22.1		8.0		31.1		89.7		6.5		11.9		5		75				<0.2			1.4	
					Bottom	6.4	0.3	281	22.1	22.1	8.0	8.0	31.4	31.4	91.7	91.7	6.7	6.7	13.1		4		77				<0.2	<0.2		1.4	
						6.4	0.3	298	22.1		8.0		31.4		91.7		6.7		13.1		6		77				<0.2			1.4	
IM11	Cloudy	Moderate	10:22	8.4	Surface	1.0	0.2	291	22.3	22.3	8.0	8.0	29.3	29.3	88.4	88.4	6.5	6.5	9.8	10.4	6	6	73	74	821526	810520	<0.2	<0.2	<0.2	1.8	2.1
						1.0	0.2	305	22.3		8.0		29.3		88.4		6.5		9.8		4		73				<0.2			2.0	
					Middle	4.2	0.1	304	22.3	22.3	8.0	8.0	31.3	31.3	89.8	89.9	6.5		11.0		6		74				<0.2	<0.2		2.0	
						4.2	0.1	333	22.3		8.0		31.3		89.9		6.5		11.1		6		75				<0.2			2.2	
					Bottom	7.4	0.2	293	22.2	22.2	8.0	8.0	31.6	31.6	92.3	92.3	6.7	6.7	10.3		7		75				<0.2	<0.2		2.2	
						7.4	0.3	300	22.2		8.0		31.6		92.3		6.7		10.3		7		76				<0.2			2.3	
IM12	Cloudy	Moderate	10:15	9.0	Surface	1.0	0.5	265	22.2	22.2	8.0	8.0	28.6	28.6	87.2	87.2	6.4	6.4	8.3	9.7	5	5	73	74	821191	811497	<0.2	<0.2	<0.2	1.7	2.0
						1.0	0.5	286	22.2		8.0		28.6		87.2		6.4		8.3		6		73				<0.2			1.8	
					Middle	4.5	0.4	272	22.2	22.2	8.0	8.0	31.8	31.8	86.7	86.7	6.3		9.5		5		74				<0.2	<0.2		2.3	
						4.5	0.4	281	22.2		8.0		31.8		86.7		6.3		9.5		4		74				<0.2			2.1	
					Bottom	8.0	0.2	271	22.2	22.2	8.0	8.0	32.1	32.1	87.8	87.8	6.3	6.3	11.3		5		76				<0.2	<0.2		1.9	
						8.0	0.2	296	22.2		8.0		32.1		87.8		6.3		11.3		4		75				<0.2			1.9	
SR2	Cloudy	Moderate	09:48	3.8	Surface	1.0	0.2	278	22.0	22.0	8.0	8.0	30.6	30.6	90.0	90.0	6.6	6.6	7.8	8.3	5	6	73	74	821468	814174	<0.2	<0.2	<0.2	1.3	1.4
						1.0	0.2	288	22.0		8.0		30.6		90.0		6.6		7.8		4		73				<0.2			1.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	2.8	0.1	266	22.3	22.3	8.0	8.0	32.0	32.0	92.3	92.3	6.7	6.7	8.8		6		75				<0.2	<0.2		1.5	
						2.8	0.1	286	22.3		8.0		32.0		92.3		6.7		8.8		7		75				<0.2			1.5	
SR3	Cloudy	Rough	10:56	9.0	Surface	1.0	0.1	294	22.3	22.3	8.1	8.1	27.3	27.3	91.3	91.3	6.8	6.8	20.7	19.9	18	17	-	-	822143	807549	-	-	-	-	-
						1.0	0.1	320	22.3		8.1		27.3		91.3		6.8		20.7		16		-				-			-	
					Middle	4.5	0.1	3	22.3	22.3	8.1	8.1	27.5	27.5	91.9	91.9	6.8		19.4		17		-				-	-		-	
						4.5	0.1	3	22.3		8.1		27.5		91.9		6.8		19.4		16		-				-			-	
					Bottom	8.0	0.3	34	22.3	22.3	8.1	8.1	29.7	29.7	95.5	95.5	7.0	7.0	19.7		17		-				-	-		-	
						8.0	0.4	36	22.3		8.1		29.7		95.5		7.0		19.7		16		-				-			-	
SR4A	Cloudy	Moderate	10:14	9.3	Surface	1.0	0.1	246	22.0	22.0	8.1	8.1	28.2	28.2	87.9	87.9	6.5	6.5	15.4	19.9	15	15	-	-	817216	807823	-	-	-	-	-
						1.0	0.1	269	22.0		8.1		28.2		87.9		6.5		15.4		16		-				-			-	
					Middle	4.7	0.2	67	22.4	22.4	8.1	8.1	30.8	30.8	88.3	88.3	6.4		20.5		15		-				-	-		-	
						4.7	0.2	72	22.4		8.1		30.8		88.3		6.4		20.6		15		-				-			-	
					Bottom	8.3	0.2	53	22.4	22.4	8.1	8.1	31.7	31.7	88.6	88.6	6.4	6.4	23.6		15		-				-	-		-	
						8.3	0.2	57	22.4		8.1		31.7		88.6		6.4		23.6		15		-				-			-	
SR5A	Cloudy	Calm	09:58	4.4	Surface	1.0	0.0	179	22.8	22.8	8.0	8.0	28.0	28.0	80.6	80.6	5.9	5.9	16.4	15.7	14	14	-	-	816593	810721	-	-	-	-	-
						1.0	0.0	188	22.8		8.0		28.0		80.6		5.9		16.6		15		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.4	0.0	295	22.7	22.7	8.0	8.0	28.0	28.0	81.8	81.9	6.0	6.0	15.0		14		-				-	-		-	
						3.4	0.0	301	22.7		8.0		28.0		81.9		6.0		14.9		14		-				-			-	
SR6	Cloudy	Calm	09:36	4.5	Surface	1.0	0.1	240	22.2	22.2	8.0	8.0	26.9	26.9	86.6	86.6	6.5	6.5	12.7	13.2	11	12	-	-	817909	814657	-	-	-	-	-
						1.0	0.1	263	22.2		8.0		26.9		86.5		6.5		12.5		12		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.5	0.1	231	22.6	22.6	8.0	8.0	29.3	29.3	85.0	85.0	6.2	6.2	13.8		13		-				-	-		-	
						3.5	0.1	249	22.6		8.0		29.4		85.0		6.2		13.7		13		-				-			-	
SR7	Cloudy	Moderate	08:54	16.0	Surface	1.0	0.2	49	22.1	22.1	8.0	8.0	32.5	32.5	90.9	90.9	6.6	6.6	5.0	5.6	4	5	-	-	823657	823765	-	-	-	-	-
						1.0	0.2	53	22.1		8.0		32.5		90.9		6.6		5.0		5		-				-			-	
					Middle	8.0	0.2	51	22.2	22.2	8.1	8.1	32.9	32.9	91.2	91.2	6.6		5.7		4		-				-	-		-	
						8.0	0.2	54	22.2		8.1		32.9		91.2		6.6		5.7		6		-				-			-	
					Bottom	15.0	0.1	106	22.2	22.2	8.1	8.1	33.3	33.3	92.3	92.3	6.6	6.6	6.2		4		-				-	-		-	
						15.0	0.1	110	22.2		8.1		33.3		92.3		6.6		6.2		6		-				-			-	
SR8	Cloudy	Moderate	10:09	4.6	Surface	1.0	-	-	22.3	22.3	8.0	8.0	28.5	28.5	87.4	87.4	6.4	6.4	9.1	8.9	6	6	-	-	820246	811418	-	-	-	-	-
						1.0	-	-	22.3		8.0		28.5		87.4		6.4		9.1		7		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.6	-	-	22.4	22.4	8.0	8.0	31.4	31.4	89.8	89.8	6.5	6.5	8.7		6		-				-	-		-	
						3.6	-	-	22.4		8.0		31.4		89.8		6.5		8.7		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 10 April 18 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	10:17	8.2	Surface	1.0	0.2	194	23.2	23.2	8.2	8.2	30.0	30.0	111.3	111.3	8.0	7.8	7.5	7.7	5	4	73	75	815628	804267	<0.2	<0.2	2.3	2.2
						1.0	0.2	200	23.2		8.2		30.0		111.2		8.0		7.4		3		73				<0.2		2.7	
					Middle	4.1	0.4	210	22.1	22.1	8.2	8.2	32.5	32.5	103.5	103.5	7.5		8.2		3		75				<0.2		2.2	
						4.1	0.4	228	22.1		8.2		32.5		103.5		7.5		8.6		3		75				<0.2		2.1	
					Bottom	7.2	0.4	212	22.0	22.0	8.2	8.2	32.9	32.9	100.5	100.6	7.3	7.3	7.2		3		77				<0.2		1.8	
						7.2	0.4	218	22.0		8.2		32.9		100.6		7.3		7.2		4		77				<0.2		1.8	
C2	Fine	Moderate	11:23	11.5	Surface	1.0	0.3	176	23.3	23.3	8.0	8.0	28.0	28.0	96.3	96.3	7.0	6.7	7.4	8.7	4	4	72	74	825681	806948	<0.2	<0.2	2.5	2.6
						1.0	0.3	187	23.3		8.0		28.0		96.2		7.0		7.4		2		72				<0.2		2.7	
					Middle	5.8	0.1	172	22.2	22.2	8.0	8.0	31.7	31.7	86.4	86.4	6.3		7.9		5		73				<0.2		2.6	
						5.8	0.1	172	22.2		8.0		31.7		86.4		6.3		8.0		4		74				<0.2		2.6	
					Bottom	10.5	0.2	165	22.1	22.1	8.0	8.0	32.1	32.1	86.9	87.0	6.3	6.3	10.7		4		75				<0.2		2.6	
						10.5	0.2	174	22.1		8.0		32.1		87.0		6.3		10.7		4		76				<0.2		2.6	
C3	Fine	Moderate	09:30	11.5	Surface	1.0	0.0	188	22.5	22.5	8.0	8.0	32.4	32.4	93.2	93.2	6.7	6.6	3.6	4.0	<2	2	71	73	822135	817829	<0.2	<0.2	1.6	1.2
						1.0	0.0	205	22.5		8.0		32.4		93.1		6.7		3.6		<2		71				<0.2		1.3	
					Middle	5.8	0.1	158	22.2	22.2	8.0	8.0	33.1	33.1	89.5	89.5	6.4		3.8		<2		73				<0.2		1.0	
						5.8	0.1	161	22.2		8.0		33.1		89.4		6.4		3.9		<2		73				<0.2		1.2	
					Bottom	10.5	0.1	69	22.2	22.2	8.0	8.0	33.2	33.2	89.1	89.1	6.4	6.4	4.4		2		75				<0.2		1.3	
						10.5	0.1	71	22.2		8.0		33.2		89.1		6.4		4.5		3		76				<0.2		0.9	
IM1	Sunny	Moderate	10:39	7.0	Surface	1.0	0.0	329	22.6	22.6	8.1	8.1	29.7	29.7	102.3	102.3	7.5	7.5	6.4	7.9	3	5	73	75	818364	806461	<0.2	<0.2	2.2	1.9
						1.0	0.0	303	22.6		8.1		29.7		102.3		7.5		6.5		5		73				<0.2		2.0	
					Middle	3.5	0.0	21	22.3	22.3	8.1	8.1	30.7	30.7	101.7	101.7	7.4		7.6		5		75				<0.2		2.2	
						3.5	0.0	22	22.3		8.1		30.6		101.7		7.4		7.6		6		75				<0.2		2.2	
					Bottom	6.0	0.1	69	22.1	22.1	8.1	8.1	31.7	31.7	98.0	98.0	7.1	7.1	9.6		7		77				<0.2		1.5	
						6.0	0.1	70	22.1		8.1		31.7		98.0		7.1		9.5		6		77				<0.2		1.5	
IM2	Sunny	Moderate	10:45	7.7	Surface	1.0	0.1	331	22.7	22.7	8.1	8.1	29.5	29.5	102.4	102.5	7.5	7.5	7.8	7.8	6	5	73	75	818851	806213	<0.2	<0.2	2.1	2.0
						1.0	0.1	305	22.7		8.1		29.5		102.6		7.5		8.0		6		73				<0.2		2.3	
					Middle	3.9	0.0	333	22.3	22.3	8.1	8.1	30.5	30.5	101.6	101.6	7.4		7.2		4		75				<0.2		2.2	
						3.9	0.0	306	22.3		8.1		30.5		101.6		7.4		7.4		5		75				<0.2		2.3	
					Bottom	6.7	0.1	97	22.1	22.1	8.1	8.1	31.7	31.7	100.1	100.2	7.3	7.3	8.3		4		77				<0.2		1.7	
						6.7	0.1	101	22.1		8.1		31.7		100.2		7.3		8.3		4		77				<0.2		1.6	
IM3	Sunny	Moderate	10:51	7.6	Surface	1.0	0.0	12	22.7	22.7	8.1	8.1	29.5	29.5	102.8	102.8	7.5	7.5	7.4	7.9	6	6	73	75	819415	806001	<0.2	<0.2	2.1	1.8
						1.0	0.0	12	22.7		8.1		29.6		102.8		7.5		7.3		6		73				<0.2		2.0	
					Middle	3.8	0.0	352	22.3	22.3	8.1	8.1	30.1	30.1	102.0	102.0	7.5		8.1		7		75				<0.2		2.1	
						3.8	0.0	324	22.3		8.1		30.1		102.0		7.5		8.3		5		75				<0.2		2.0	
					Bottom	6.6	0.1	13	22.1	22.1	8.1	8.1	31.5	31.5	100.6	100.6	7.3	7.3	8.0		5		77				<0.2		1.4	
						6.6	0.1	13	22.1		8.1		31.5		100.6		7.3		8.3		6		77				<0.2		1.4	
IM4	Sunny	Moderate	10:58	7.1	Surface	1.0	0.2	204	22.7	22.7	8.1	8.1	29.5	29.5	103.0	103.0	7.5	7.5	7.0	7.3	5	6	73	75	819542	805057	<0.2	<0.2	2.0	1.8
						1.0	0.2	207	22.7		8.1		29.5		103.0		7.5		6.6		4		73				<0.2		2.0	
					Middle	3.6	0.1	208	22.3	22.3	8.2	8.2	30.8	30.8	102.5	102.5	7.5		6.8		7		75				<0.2		2.1	
						3.6	0.1	220	22.3		8.2		30.8		102.4		7.5		7.0		8		75				<0.2		2.0	
					Bottom	6.1	0.2	158	22.1	22.1	8.2	8.2	31.5	31.5	100.7	100.7	7.3	7.3	8.2		6		77				<0.2		1.5	
						6.1	0.2	166	22.1		8.2		31.5		100.7		7.3		8.4		6		77				<0.2		1.4	
IM5	Sunny	Moderate	11:14	6.6	Surface	1.0	0.1	142	22.9	22.8	8.1	8.1	29.4	29.4	102.8	102.9	7.5	7.5	7.8	7.4	6	7	73	75	820585	804922	<0.2	<0.2	1.8	1.9
						1.0	0.1	147	22.8		8.1		29.5		103.0		7.5		7.8		7		73				<0.2		2.0	
					Middle	3.3	0.2	131	22.3	22.3	8.1	8.1	30.2	30.2	102.1	102.1	7.5		7.0		5		75				<0.2		1.9	
						3.3	0.2	143	22.3		8.1		30.2		102.1		7.5		7.3		7		75				<0.2		2.0	
					Bottom	5.6	0.1	83	22.1	22.1	8.2	8.2	31.6	31.6	100.9	100.9	7.3	7.3	7.1		9		77				<0.2		1.7	
						5.6	0.1	83	22.1		8.2		31.6		100.9		7.3		7.3		8		77				<0.2		1.7	
IM6	Sunny	Moderate	11:15	6.3	Surface	1.0	0.1	154	22.7	22.7	8.1	8.1	29.6	29.6	102.6	102.6	7.5	7.5	8.2	8.3	6	7	73	75	821039	805836	<0.2	<0.2	2.2	2.0
						1.0	0.1	162	22.7		8.1		29.6		102.6		7.5		8.2		7		73				<0.2		2.2	
					Middle	3.2	0.2	101	22.3	22.3	8.2	8.2	30.5	30.5	102.1	102.1	7.4		7.0		6		75				<0.2		2.2	
						3.2	0.2	104	22.3		8.2		30.5		102.1		7.4		6.7		7		75				<0.2		2.1	
					Bottom	5.3	0.1	80	22.2	22.2	8.1	8.1	32.1	32.1	99.9	100.0	7.2	7.2	9.8		8		77				<0.2		1.9	
						5.3	0.1	86	22.2		8.1		32.1		100.0		7.2		9.8		7		77				<0.2		1.6	
IM7	Sunny	Moderate	11:26	7.5	Surface	1.0	0.1	163	22.9	22.9	8.1	8.1	29.5	29.5	102.9	102.9	7.5	7.5	8.2	7.9	5	5	73	75	821329	806847	<0.2	<0.2	2.2	2.0
						1.0	0.1	164	22.9		8.1		29.4		102.9		7.5		8.4		4		73				<0.2		2.3	
					Middle	3.8	0.1	97	22.3	22.3	8.2	8.2	30.8	30.8	103.1	103.1	7.5		6.8		4		75				<0.2		2.3	
						3.8	0.1	101	22.3		8.2		30.8		103.1		7.5		7.0		5		75				<0.2		2.0	
					Bottom	6.5	0.1	62	22.1	22.1	8.2	8.2	31.4	31.4	100.6	100.7	7.3	7.3	8.7		5		76				<0.2		1.6	
						6.5	0.1	67	22.1		8.2		31.4		100.7		7.3		8.4		5		77				<0.2		1.6	
IM8	Fine	Moderate	10:57	7.6	Surface	1.0	0.3	32	23.6	23.6	8.0	8.0	27.8	27.8	96.8	96.8	7.0	6.8	6.9	6.2	4	5	72	74	821671	807831	<0.2	<0.2	2.3	2.3
						1.0	0.3	32	23.6		8.0		27.8		96.7		7.0		7.0		4		72				<0.2		2.2	
					Middle	3.8	0.3	42	22.2	22.2	8.0	8.0	30.6	30.6	90.7	90.7	6.6		6.2		4		73				<0.2		2.1	
						3.8	0.3	42	22.2		8.0		30.6		90.6		6.6		6.2		5		74				<0.2		2.4	
					Bottom	6.6	0.3	44	22.2	22.2	8.0	8.0	31.4	31.4	91.4	91.5	6.6	6.7	5.5		5		75				<0.2		2.3	
						6.6	0.3	44	22.2		8.0		31.4		91.5		6.7		5.5		5		76				<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 10 April 18 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	10:51	7.7	Surface	1.0	0.1	53	23.5	23.5	8.0	8.0	28.0	28.0	97.5	97.5	7.1	6.9	7.0	6.4	5	5	72	74	822080	808837	<0.2	<0.2	2.3	2.0
						1.0	0.1	55	23.5		8.0		28.0		97.5		7.1		7.0		4		73				<0.2		1.9	
					Middle	3.9	0.3	52	22.2	22.2	8.0	8.0	31.1	31.1	90.8	90.8	6.6		5.4		5		74				<0.2		1.9	
						3.9	0.3	56	22.2		8.0		31.1		90.8		6.6		5.4		5		74				<0.2		1.9	
					Bottom	6.7	0.3	72	22.1	22.1	8.0	8.0	31.8	31.8	87.8	87.8	6.4	6.4	6.8		6		76				<0.2		1.9	
						6.7	0.3	72	22.1		8.0		31.8		87.8		6.4		6.9		4		76				<0.2		1.9	
IM10	Fine	Moderate	10:47	7.1	Surface	1.0	0.2	96	22.8	22.8	8.0	8.0	29.0	29.0	96.6	96.6	7.0	7.1	6.9	7.3	5	5	72	74	822245	809831	<0.2	<0.2	1.7	1.9
						1.0	0.2	96	22.7		8.0		29.0		96.6		7.0		7.0		4		72				<0.2		1.9	
					Middle	3.6	0.3	108	22.2	22.2	8.1	8.1	30.3	30.3	96.4	96.5	7.1		7.4		4		74				<0.2		1.8	
						3.6	0.3	111	22.2		8.1		30.3		96.5		7.1		7.4		3		74				<0.2		2.1	
					Bottom	6.1	0.2	109	22.1	22.1	8.1	8.1	31.9	31.9	96.6	96.6	7.0	7.0	7.6		7		75				<0.2		2.0	
						6.1	0.2	114	22.1		8.1		31.9		96.6		7.0		7.6		5		75				<0.2		2.0	
IM11	Fine	Moderate	10:31	8.2	Surface	1.0	0.2	128	22.5	22.5	8.1	8.1	30.4	30.4	93.9	93.8	6.8	6.7	8.5	8.5	6	6	71	73	821486	810552	<0.2	<0.2	1.9	1.9
						1.0	0.2	134	22.5		8.1		30.4		93.6		6.8		8.4		5		72				<0.2		1.8	
					Middle	4.1	0.2	135	22.2	22.2	8.1	8.1	31.2	31.2	89.6	89.5	6.5		8.2		5		73				<0.2		1.8	
						4.1	0.2	143	22.2		8.1		31.2		89.4		6.5		8.4		6		74				<0.2		2.1	
					Bottom	7.2	0.1	92	22.2	22.2	8.0	8.0	31.5	31.5	89.9	90.0	6.5	6.5	8.7		6		75				<0.2		1.9	
						7.2	0.1	98	22.2		8.0		31.5		90.0		6.5		8.7		7		75				<0.2		2.0	
IM12	Fine	Moderate	10:23	8.8	Surface	1.0	0.1	103	22.7	22.7	8.1	8.1	30.4	30.4	93.4	93.4	6.8	6.7	8.4	7.6	6	6	72	74	821161	811532	<0.2	<0.2	1.8	1.9
						1.0	0.2	107	22.7		8.1		30.4		93.3		6.8		8.4		6		72				<0.2		1.7	
					Middle	4.4	0.2	116	22.1	22.1	8.0	8.0	31.4	31.4	89.3	89.3	6.5		7.0		7		74				<0.2		1.9	
						4.4	0.2	125	22.1		8.0		31.4		89.3		6.5		7.0		6		74				<0.2		2.1	
					Bottom	7.8	0.1	127	22.1	22.1	8.0	8.0	31.5	31.5	90.1	90.1	6.6	6.6	7.4		6		75				<0.2		2.0	
						7.8	0.2	131	22.1		8.0		31.5		90.1		6.6		7.4		5		75				<0.2		2.0	
SR2	Fine	Moderate	09:53	3.4	Surface	1.0	0.2	44	22.4	22.4	8.0	8.0	31.4	31.4	91.3	91.4	6.6	6.6	6.4	6.6	5	5	71	72	821453	814144	<0.2	<0.2	1.5	1.5
						1.0	0.2	47	22.4		8.0		31.4		91.4		6.6		6.4		5		72				<0.2		1.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.4	0.2	40	22.2	22.2	8.0	8.0	31.6	31.6	90.9	91.0	6.6	6.6	7.1		4		73				<0.2		1.5	
						2.4	0.2	43	22.2		8.0		31.6		91.0		6.6		6.6		5		73				<0.2		1.5	
SR3	Fine	Moderate	11:00	7.5	Surface	1.0	0.4	88	23.8	23.8	8.0	8.0	27.7	27.7	95.7	95.7	6.9	6.8	6.9	6.2	4	6	-	-	822141	807579	-	-	-	-
						1.0	0.4	92	23.8		8.0		27.7		95.6		6.9		6.9		6		-				-		-	
					Middle	3.8	0.4	60	22.2	22.2	8.0	8.0	30.6	30.6	91.9	92.0	6.7		6.2		5		-				-		-	
						3.8	0.4	60	22.2		8.0		30.6		92.1		6.7		6.2		7		-				-		-	
					Bottom	6.5	0.3	58	22.2	22.2	8.0	8.0	31.1	31.1	92.9	92.9	6.8	6.8	5.5		5		-				-		-	
						6.5	0.3	62	22.2		8.0		31.1		92.9		6.8		5.3		6		-				-		-	
SR4A	Sunny	Moderate	09:56	8.3	Surface	1.0	0.3	84	22.5	22.5	8.2	8.2	30.4	30.4	106.1	106.1	7.7	7.5	8.0	9.1	7	10	-	-	817186	807815	-	-	-	-
						1.0	0.3	88	22.5		8.2		30.4		106.0		7.7		8.3		7		-				-		-	
					Middle	4.2	0.2	78	22.0	22.0	8.2	8.2	32.2	32.2	99.5	99.5	7.2		8.8		6		-				-		-	
						4.2	0.2	82	22.0		8.2		32.2		99.4		7.2		9.0		6		-				-		-	
					Bottom	7.3	0.2	67	21.9	21.9	8.2	8.2	32.8	32.8	96.9	96.9	7.0	7.0	10.6		17		-				-		-	
						7.3	0.2	67	21.9		8.2		32.8		96.9		7.0		9.9		15		-				-		-	
SR5A	Sunny	Calm	09:37	4.1	Surface	1.0	0.0	46	23.6	23.6	8.1	8.1	31.0	31.0	96.6	96.6	6.9	6.9	11.6	14.7	8	8	-	-	816595	810710	-	-	-	-
						1.0	0.0	46	23.6		8.1		31.0		96.6		6.9		11.7		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	98	22.4	22.4	8.1	8.1	31.6	31.6	93.1	93.1	6.7	6.7	17.7		7		-				-		-	
						3.1	0.1	99	22.4		8.1		31.6		93.1		6.7		17.7		7		-				-		-	
SR6	Sunny	Calm	09:12	4.0	Surface	1.0	0.2	49	23.0	23.0	8.2	8.2	31.4	31.4	99.2	99.2	7.1	7.1	6.3	6.8	7	7	-	-	817886	814678	-	-	-	-
						1.0	0.2	49	23.0		8.2		31.4		99.2		7.1		6.6		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	58	22.4	22.4	8.1	8.1	31.5	31.5	96.4	96.5	7.0	7.0	7.1		6		-				-		-	
						3.0	0.2	62	22.4		8.1		31.5		96.5		7.0		7.3		8		-				-		-	
SR7	Fine	Moderate	08:54	19.8	Surface	1.0	0.1	47	22.3	22.3	8.0	8.0	33.0	33.0	89.2	89.2	6.4	6.4	4.1	5.0	7	7	-	-	823608	823770	-	-	-	-
						1.0	0.1	49	22.3		8.0		33.0		89.1		6.4		4.1		6		-				-		-	
					Middle	9.9	0.1	260	22.2	22.2	8.0	8.0	33.4	33.4	87.7	87.7	6.3		5.0		7		-				-		-	
						9.9	0.1	279	22.2		8.0		33.4		87.7		6.3		5.0		7		-				-		-	
					Bottom	18.8	0.1	33	22.1	22.1	8.0	8.0	33.6	33.6	88.2	88.2	6.3	6.3	5.8		7		-				-		-	
						18.8	0.1	34	22.1		8.0		33.6		88.2		6.3		5.8		9		-				-		-	
SR8	Fine	Calm	10:17	3.6	Surface	1.0	-	-	22.6	22.6	8.1	8.1	30.7	30.7	97.8	97.8	7.1	7.1	9.4	8.8	8	7	-	-	820246	811418	-	-	-	-
						1.0	-	-	22.6		8.1		30.7		97.7		7.1		9.5		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	-	-	22.4	22.4	8.1	8.1	31.0	31.0	95.9	95.9	7.0	7.0	8.1		6		-				-		-	
						2.6	-	-	22.4		8.1		31.0		95.8		7.0		8.0		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 10 April 18 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	13:41	8.5	Surface	1.0	0.1	296	23.9	23.9	8.2	8.2	29.5	29.5	111.5	111.5	7.9	7.8	7.7	8.1	4	4	73	75	815616	804244	<0.2	<0.2	1.8	1.5
						1.0	0.1	311	23.9		8.2		29.5		111.5		8.0		7.9		4		73				<0.2		2.0	
					Middle	4.3	0.0	104	22.2	22.2	8.2	8.2	32.2	32.2	106.3	106.3	7.7		6.9		4		75				<0.2		1.8	
						4.3	0.0	110	22.2		8.2		32.2		106.2		7.7		7.1		3		75				<0.2		1.8	
					Bottom	7.5	0.0	118	22.0	22.0	8.2	8.2	32.8	32.8	103.7	103.8	7.5	7.5	9.5		4		77				<0.2		0.8	
						7.5	0.0	122	22.0		8.2		32.8		103.8		7.5		9.2		4		77				<0.2		0.8	
C2	Sunny	Moderate	12:40	11.4	Surface	1.0	0.2	186	23.4	23.4	8.0	8.0	27.8	27.8	95.0	95.1	6.9	6.7	8.0	8.3	5	6	72	74	825674	806954	<0.2	<0.2	2.6	2.6
						1.0	0.2	203	23.4		8.0		27.8		95.1		6.9		8.0		6		73				<0.2		2.6	
					Middle	5.7	0.1	235	22.2	22.2	8.0	8.0	31.1	31.1	88.8	88.7	6.5		6.1		5		73				<0.2		2.7	
						5.7	0.1	241	22.2		8.0		31.1		88.6		6.5		6.1		7		74				<0.2		2.4	
					Bottom	10.4	0.1	134	22.1	22.1	8.0	8.0	32.3	32.3	85.8	85.9	6.2	6.2	10.8		6		75				<0.2		2.5	
						10.4	0.1	140	22.1		8.0		32.3		85.9		6.2		10.8		6		75				<0.2		2.6	
C3	Sunny	Moderate	14:35	11.9	Surface	1.0	0.2	275	23.2	23.1	8.1	8.1	31.8	31.8	97.1	97.1	6.9	6.8	4.3	5.1	3	3	72	73	822082	817781	<0.2	<0.2	1.5	1.5
						1.0	0.2	288	23.1		8.1		31.8		97.1		6.9		4.3		3		72				<0.2		1.5	
					Middle	6.0	0.2	242	22.6	22.6	8.0	8.0	32.2	32.2	92.4	92.4	6.6		4.9		3		73				<0.2		1.8	
						6.0	0.2	261	22.6		8.0		32.2		92.4		6.6		4.9		3		73				<0.2		1.3	
					Bottom	10.9	0.2	298	22.3	22.3	8.0	8.0	33.0	33.0	92.8	92.9	6.7	6.7	6.1		2		75				<0.2		1.4	
						10.9	0.2	310	22.3		8.0		33.0		93.0		6.7		6.0		2		75				<0.2		1.4	
IM1	Sunny	Moderate	13:21	7.3	Surface	1.0	0.0	234	23.4	23.4	8.2	8.2	30.4	30.4	112.8	112.8	8.1	8.0	5.3	6.0	2	3	73	75	818351	806464	<0.2	<0.2	1.5	1.2
						1.0	0.0	246	23.4		8.2		30.4		112.7		8.1		5.3		2		73				<0.2		1.4	
					Middle	3.7	0.1	93	22.2	22.2	8.2	8.2	31.6	31.6	107.5	107.4	7.8		5.7		3		75				<0.2		1.3	
						3.7	0.1	97	22.2		8.2		31.7		107.3		7.8		6.0		3		75				<0.2		1.3	
					Bottom	6.3	-	311	22.0	22.0	8.2	8.2	32.8	32.7	101.3	101.3	7.3	7.3	7.0		3		78				<0.2		1.0	
						6.3	-	313	22.0		8.2		32.7		101.3		7.3		6.6		3		77				<0.2		0.9	
IM2	Sunny	Moderate	13:13	8.1	Surface	1.0	0.1	230	23.3	23.3	8.2	8.2	30.4	30.4	111.4	111.4	8.0	7.9	6.5	7.2	3	2	74	76	818826	806171	<0.2	<0.2	1.4	1.3
						1.0	0.1	236	23.3		8.2		30.5		111.3		8.0		6.5		3		73				<0.2		1.5	
					Middle	4.1	0.0	0	22.1	22.1	8.2	8.2	31.8	31.8	106.6	106.6	7.7		6.9		2		75				<0.2		1.3	
						4.1	0.0	0	22.1		8.2		31.8		106.5		7.7		6.9		2		76				<0.2		1.6	
					Bottom	7.1	0.0	12	22.0	22.0	8.2	8.2	32.7	32.7	101.9	101.9	7.4	7.4	8.4		2		77				<0.2		1.0	
						7.1	0.0	12	22.0		8.2		32.7		101.9		7.4		8.1		2		78				<0.2		1.1	
IM3	Sunny	Moderate	13:08	8.3	Surface	1.0	0.1	220	23.2	23.2	8.2	8.2	29.9	29.9	108.7	108.7	7.8	7.7	7.5	6.5	3	4	73	75	819431	806026	<0.2	<0.2	1.9	1.5
						1.0	0.1	228	23.2		8.2		29.9		108.7		7.8		7.5		3		74				<0.2		2.0	
					Middle	4.2	0.0	17	22.0	22.0	8.2	8.2	32.0	32.0	104.5	104.5	7.6		6.5		3		75				<0.2		1.4	
						4.2	0.0	18	22.0		8.2		32.0		104.5		7.6		6.7		4		75				<0.2		1.6	
					Bottom	7.3	0.1	84	22.0	22.0	8.2	8.2	32.7	32.7	103.5	103.5	7.5	7.5	5.7		5		77				<0.2		1.1	
						7.3	0.1	87	22.0		8.2		32.7		103.5		7.5		5.2		7		77				<0.2		1.2	
IM4	Sunny	Moderate	13:01	7.5	Surface	1.0	0.1	189	23.2	23.2	8.2	8.2	29.7	29.6	107.2	107.3	7.7	7.7	7.9	7.5	2	4	74	76	819547	805042	<0.2	<0.2	1.8	1.5
						1.0	0.1	202	23.2		8.2		29.6		107.4		7.7		8.6		2		74				<0.2		2.0	
					Middle	3.8	0.0	95	22.1	22.1	8.2	8.2	32.2	32.2	106.3	106.3	7.7		7.1		4		76				<0.2		1.6	
						3.8	0.0	101	22.1		8.2		32.2		106.2		7.7		7.2		4		76				<0.2		1.4	
					Bottom	6.5	0.0	44	22.0	22.0	8.2	8.2	32.6	32.6	104.5	104.5	7.6	7.6	7.0		6		77				<0.2		1.1	
						6.5	0.0	46	22.0		8.2		32.6		104.4		7.6		7.2		4		78				<0.2		1.0	
IM5	Sunny	Moderate	12:53	6.8	Surface	1.0	0.1	219	23.2	23.2	8.1	8.1	28.9	28.9	103.9	103.9	7.5	7.5	8.5	8.7	3	3	73	75	820563	804915	<0.2	<0.2	2.0	1.7
						1.0	0.2	220	23.2		8.1		28.9		103.9		7.5		8.5		3		74				<0.2		2.0	
					Middle	3.4	0.1	246	22.2	22.2	8.2	8.2	31.0	31.0	101.5	101.5	7.4		8.3		3		75				<0.2		2.0	
						3.4	0.1	249	22.2		8.2		31.0		101.5		7.4		8.5		3		76				<0.2		1.8	
					Bottom	5.8	0.0	7	22.1	22.1	8.2	8.2	32.4	32.4	100.1	100.1	7.2	7.2	9.2		3		77				<0.2		1.2	
						5.8	0.0	7	22.1		8.2		32.4		100.0		7.2		9.4		4		77				<0.2		1.2	
IM6	Sunny	Moderate	12:45	6.7	Surface	1.0	0.3	30	23.4	23.4	8.1	8.1	29.2	29.2	104.3	104.3	7.5	7.5	8.9	9.7	4	4	73	75	821037	805821	<0.2	<0.2	2.1	1.7
						1.0	0.3	32	23.4		8.1		29.2		104.3		7.5		9.1		3		74				<0.2		2.2	
					Middle	3.4	0.2	18	22.3	22.3	8.2	8.2	30.8	30.8	101.4	101.4	7.4		8.7		4		75				<0.2		1.8	
						3.4	0.2	19	22.3		8.2		30.8		101.4		7.4		8.9		5		76				<0.2		1.7	
					Bottom	5.7	0.3	24	22.1	22.1	8.2	8.2	31.9	31.9	99.8	99.8	7.2	7.2	11.2		4		77				<0.2		1.2	
						5.7	0.3	25	22.1		8.2		31.9		99.8		7.2		11.5		4		77				<0.2		1.2	
IM7	Sunny	Moderate	12:38	8.2	Surface	1.0	0.1	193	23.5	23.5	8.1	8.1	28.7	28.7	102.3	102.4	7.4	7.4	7.3	7.7	3	3	73	75	821351	806812	<0.2	<0.2	2.3	1.8
						1.0	0.1	204	23.5		8.1		28.7		102.4		7.4		7.4		2		73				<0.2		3.0	
					Middle	4.1	0.1	148	22.3	22.3	8.2	8.2	30.8	30.8	101.8	101.8	7.4		7.9		3		75				<0.2		1.5	
						4.1	0.1	156	22.3		8.2		30.8		101.7		7.4		7.8		3		75				<0.2		1.7	
					Bottom	7.2	0.1	88	22.1	22.1	8.2	8.2	32.0	32.0	99.1	99.1	7.2	7.2	8.1		3		77				<0.2		1.2	
						7.2	0.1	90	22.1		8.2		32.0		99.1		7.2		7.7		2		77				<0.2		1.2	
IM8	Sunny	Moderate	13:05	7.9	Surface	1.0	0.1	203	23.6	23.6	8.0	8.0	28.5	28.5	97.8	97.7	7.0	7.0	6.7	6.2	3	3	71	74	821698	807830	<0.2	<0.2	2.6	2.6
						1.0	0.2	219	23.6		8.0		28.5		97.6		7.0		6.8		2		72				<0.2		2.5	
					Middle	4.0	0.0	306	22.4	22.4	8.0	8.0	30.3	30.3	95.7	95.7	7.0		6.1		2		73				<0.2		2.5	
						4.0	0.0	322	22.4		8.0		30.3		95.7		7.0		6.1		3		74				<0.2		2.7	
					Bottom	6.9	0.1	20	22.1	22.1	8.1	8.1	31.5	31.5	98.2	97.8	7.1	7.1	5.6		3		75				<0.2		2.6	
						6.9	0.1	21	22.1		8.1		31.5		97.4		7.1		5.8		4		76				<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 10 April 18 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	13:13	7.0	Surface	1.0	0.1	217	23.5	23.5	8.0	8.0	28.7	28.7	97.0	97.0	7.0	7.0	6.9	7.1	2	3	71	73	822077	808824	<0.2	<0.2	2.7	2.8
						1.0	0.1	233	23.5		8.0		28.7		96.9		7.0		6.9		3		72				<0.2		2.8	
					Middle	3.5	0.2	164	22.3	22.3	8.1	8.1	30.8	30.8	95.5	95.5	6.9		7.1		3		73				<0.2		2.8	
						3.5	0.2	177	22.3		8.1		30.8		95.4		6.9		7.1		4		74				<0.2		2.8	
					Bottom	6.0	0.1	86	22.2	22.2	8.1	8.1	31.0	31.0	95.4	95.4	6.9	6.9	7.1		4		75				<0.2		2.8	
						6.0	0.1	93	22.2		8.1		31.0		95.4		6.9		7.2		2		75				<0.2		2.8	
IM10	Sunny	Moderate	13:20	6.5	Surface	1.0	0.1	163	23.9	23.9	8.0	8.0	28.7	28.7	99.0	98.9	7.1	7.0	6.6	7.2	3	5	72	75	822253	809840	<0.2	<0.2	2.5	2.5
						1.0	0.1	175	23.8		8.0		28.7		98.8		7.1		6.7		4		73				<0.2		2.5	
					Middle	3.3	0.1	121	22.4	22.4	8.1	8.1	30.6	30.6	94.7	94.7	6.9		7.3		4		75				<0.2		2.7	
						3.3	0.2	130	22.4		8.1		30.6		94.6		6.9		7.4		6		75				<0.2		2.5	
					Bottom	5.5	0.1	76	22.3	22.3	8.0	8.0	30.8	30.8	94.2	94.3	6.9	6.9	7.7		7		76				<0.2		2.5	
						5.5	0.1	82	22.3		8.0		30.8		94.4		6.9		7.3		8		76				<0.2		2.3	
IM11	Sunny	Moderate	13:33	7.8	Surface	1.0	0.1	173	22.9	22.9	8.0	8.0	29.8	29.8	97.7	97.7	7.1	7.1	6.4	7.1	4	4	73	75	821475	810521	<0.2	<0.2	2.5	2.4
						1.0	0.1	178	22.9		8.0		29.8		97.7		7.1		6.4		3		73				<0.2		2.4	
					Middle	3.9	0.1	313	22.5	22.5	8.1	8.1	30.3	30.3	97.1	97.1	7.1		7.3		5		76				<0.2		2.4	
						3.9	0.1	342	22.5		8.1		30.3		97.1		7.1		7.3		3		76				<0.2		2.4	
					Bottom	6.8	0.1	337	22.5	22.5	8.1	8.1	30.6	30.6	96.1	96.1	7.0	7.0	7.7		3		76				<0.2		2.4	
						6.8	0.1	342	22.5		8.1		30.6		96.0		7.0		7.6		3		76				<0.2		2.4	
IM12	Sunny	Moderate	13:42	8.7	Surface	1.0	0.2	139	23.0	23.0	8.1	8.1	29.9	29.9	99.7	99.7	7.2	7.1	7.1	7.7	5	5	73	75	821155	811494	<0.2	<0.2	2.6	2.6
						1.0	0.2	152	23.1		8.1		29.9		99.6		7.2		7.1		6		74				<0.2		2.6	
					Middle	4.4	0.1	121	22.4	22.4	8.2	8.2	30.9	30.9	95.9	95.9	7.0		8.2		4		75				<0.2		2.5	
						4.4	0.1	130	22.4		8.2		30.9		95.9		7.0		8.3		6		75				<0.2		2.6	
					Bottom	7.7	0.0	6	22.3	22.3	8.1	8.1	31.3	31.3	94.2	94.2	6.8	6.8	7.6		5		76				<0.2		2.5	
						7.7	0.0	6	22.3		8.1		31.3		94.2		6.8		7.7		5		77				<0.2		2.5	
SR2	Sunny	Moderate	14:11	3.3	Surface	1.0	0.0	303	23.4	23.4	8.1	8.1	30.3	30.3	100.6	100.6	7.2	7.2	6.4	6.6	<2	4	71	73	821433	814193	<0.2	<0.2	1.8	1.6
						1.0	0.0	315	23.4		8.1		30.3		100.6		7.2		6.5		<2		72				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.1	295	23.0	23.0	8.1	8.1	30.6	30.6	98.0	98.0	7.1	7.1	6.8		4		74				<0.2		1.5	
						2.3	0.1	295	23.0		8.1		30.6		97.9		7.0		6.8		6		74				<0.2		1.4	
SR3	Sunny	Moderate	13:00	8.7	Surface	1.0	0.2	192	23.9	23.9	8.0	8.0	28.6	28.6	97.0	96.9	7.0	6.9	6.7	6.8	3	5	-	-	822157	807557	-	-	-	-
						1.0	0.2	197	23.8		8.0		28.6		96.8		6.9		6.8		4		-				-		-	
					Middle	4.4	0.1	10	22.2	22.2	8.1	8.1	31.0	31.0	94.8	95.0	6.9		7.2		6		-				-		-	
						4.4	0.1	10	22.2		8.1		31.0		95.2		6.9		7.4		4		-				-		-	
					Bottom	7.7	0.1	24	22.1	22.1	8.1	8.1	31.9	31.8	95.5	95.5	6.9	6.9	6.5		8		-				-		-	
						7.7	0.1	24	22.1		8.1		31.8		95.4		6.9		6.4		7		-				-		-	
SR4A	Sunny	Calm	14:03	9.2	Surface	1.0	0.1	82	22.5	22.5	8.2	8.2	30.5	30.5	107.5	107.5	7.8	7.6	7.9	8.7	9	10	-	-	817172	807834	-	-	-	-
						1.0	0.1	84	22.5		8.2		30.5		107.4		7.8		7.9		8		-				-		-	
					Middle	4.6	0.1	63	21.9	21.9	8.2	8.2	32.2	32.2	100.8	100.8	7.3		9.2		11		-				-		-	
						4.6	0.1	63	21.9		8.2		32.2		100.7		7.3		9.3		10		-				-		-	
					Bottom	8.2	0.0	265	21.9	21.9	8.2	8.2	32.7	32.7	99.0	99.1	7.2	7.2	8.8		10		-				-		-	
						8.2	0.0	267	21.9		8.2		32.7		99.1		7.2		9.0		9		-				-		-	
SR5A	Sunny	Calm	14:22	5.4	Surface	1.0	0.1	356	23.7	23.7	8.1	8.1	31.0	31.0	97.7	97.7	6.9	6.9	9.0	9.3	8	8	-	-	816576	810707	-	-	-	-
						1.0	0.1	328	23.7		8.1		31.0		97.6		6.9		9.1		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	345	22.5	22.5	8.1	8.1	31.4	31.4	93.3	93.4	6.7	6.7	9.6		8		-				-		-	
						4.4	0.2	346	22.6		8.1		31.4		93.4		6.7		9.5		8		-				-		-	
SR6	Sunny	Calm	14:47	4.5	Surface	1.0	0.0	215	23.0	23.0	8.2	8.2	31.4	31.4	99.4	99.4	7.1	7.1	9.4	7.8	5	7	-	-	817911	814682	-	-	-	-
						1.0	0.0	222	23.0		8.2		31.4		99.4		7.1		9.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	227	22.5	22.5	8.1	8.1	31.4	31.4	97.3	97.4	7.0	7.0	6.3		9		-				-		-	
						3.5	0.1	248	22.5		8.1		31.4		97.4		7.0		6.1		10		-				-		-	
SR7	Sunny	Moderate	15:10	17.5	Surface	1.0	0.1	209	22.6	22.6	8.1	8.1	33.1	33.1	92.1	92.1	6.6	6.6	4.0	4.1	6	7	-	-	823621	823728	-	-	-	-
						1.0	0.1	213	22.6		8.1		33.1		92.1		6.6		4.0		6		-				-		-	
					Middle	8.8	0.1	134	22.5	22.5	8.1	8.1	33.2	33.2	90.4	90.4	6.5		4.0		6		-				-		-	
						8.8	0.1	136	22.5		8.1		33.2		90.3		6.5		4.0		6		-				-		-	
					Bottom	16.5	0.1	50	22.4	22.4	8.0	8.0	33.3	33.3	90.4	90.4	6.5	6.5	4.3		8		-				-		-	
						16.5	0.1	54	22.4		8.0		33.3		90.4		6.5		4.3		9		-				-		-	
SR8	Sunny	Calm	13:50	5.8	Surface	1.0	-	-	23.6	23.6	8.2	8.2	30.6	30.6	101.6	101.6	7.2	7.2	9.5	9.1	9	9	-	-	820372	811422	-	-	-	-
						1.0	-	-	23.6		8.2		30.6		101.5		7.2		9.5		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.8	-	-	23.0	23.0	8.1	8.1	30.8	30.8	98.3	98.3	7.1	7.1	8.6		9		-				-		-	
						4.8	-	-	23.0		8.1		30.8		98.3		7.1		8.6		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**
Note: Access to SR8 was blocked by barge and its wires. The monitoring at SR8 was slightly shifted to the closest safe and accessible location temporarily.

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

Water Quality Monitoring

Water Quality Monitoring Results on 12 April 18 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	11:46	8.1	Surface	1.0	0.2	215	23.7	23.7	8.4	8.4	28.6	28.6	126.8	126.6	9.3	8.3	10.2	12.0	10	9	71	73	815627	804222	<0.2	<0.2	1.9	1.4
						1.0	0.2	216	23.7		8.4		28.6		126.4		9.2		10.2		10		72				<0.2		1.8	
					Middle	4.1	0.2	182	22.4	22.4	8.2	8.2	31.5	31.5	100.9	100.9	7.3		9.9		10		73				<0.2		1.5	
						4.1	0.2	190	22.4		8.2		31.5		100.9		7.3		9.9		8		73				<0.2		1.7	
					Bottom	7.1	0.1	198	22.2	22.2	8.2	8.2	32.5	32.5	101.1	101.2	7.3	7.3	15.9		9		75				<0.2		0.8	
						7.1	0.1	198	22.2		8.2		32.5		101.2		7.3		16.0		8		76				<0.2		0.9	
C2	Cloudy	Moderate	12:37	11.4	Surface	1.0	0.4	165	24.2	24.2	8.1	8.1	24.7	24.7	105.3	105.2	7.7	7.2	10.2	11.7	7	7	73	75	825673	806918	<0.2	<0.2	2.6	2.1
						1.0	0.4	177	24.2		8.1		24.7		105.1		7.7		10.2		7		73				<0.2		2.5	
					Middle	5.7	0.3	170	23.2	23.2	8.0	8.0	28.9	28.9	91.1	91.1	6.6		9.3		6		75				<0.2		2.1	
						5.7	0.4	176	23.2		8.0		28.9		91.1		6.6		9.3		7		75				<0.2		1.9	
					Bottom	10.4	0.4	151	22.8	22.8	8.0	8.0	31.4	31.4	87.8	87.9	6.3	6.3	15.6		8		77				<0.2		1.8	
						10.4	0.4	161	22.8		8.0		31.4		88.0		6.3		15.6		7		77				<0.2		1.9	
C3	Cloudy	Moderate	10:34	12.2	Surface	1.0	0.2	75	23.4	23.4	8.1	8.1	30.1	30.1	98.9	98.9	7.1	6.9	6.5	7.1	4	5	73	75	822127	817807	<0.2	<0.2	1.2	0.8
						1.0	0.2	75	23.4		8.1		30.1		98.8		7.1		6.5		3		73				<0.2		1.1	
					Middle	6.1	0.2	112	22.9	22.9	8.0	8.0	31.9	31.9	91.8	91.8	6.6		6.7		4		75				<0.2		0.9	
						6.1	0.2	118	22.9		8.0		31.9		91.7		6.6		6.7		4		75				<0.2		0.8	
					Bottom	11.2	0.2	83	22.6	22.6	8.0	8.0	32.7	32.7	89.0	89.0	6.4	6.4	8.1		7		77				<0.2		0.3	
						11.2	0.3	89	22.6		8.0		32.7		89.0		6.4		8.1		5		76				<0.2		0.4	
IM1	Fine	Moderate	12:05	7.2	Surface	1.0	0.3	189	23.2	23.2	8.3	8.3	28.8	28.8	111.6	111.5	8.1	7.8	11.5	11.1	8	8	72	74	818373	806466	<0.2	<0.2	1.9	1.9
						1.0	0.3	207	23.2		8.3		28.8		111.4		8.1		10.9		9		72				<0.2		1.7	
					Middle	3.6	0.2	174	22.8	22.8	8.2	8.2	30.1	30.1	102.0	102.0	7.4		11.5		8		73				<0.2		1.9	
						3.6	0.2	184	22.8		8.2		30.1		101.9		7.4		11.2		8		73				<0.2		1.9	
					Bottom	6.2	0.1	168	22.5	22.5	8.2	8.2	31.2	31.2	100.4	100.4	7.3	7.3	10.8		8		76				<0.2		1.9	
						6.2	0.1	170	22.5		8.2		31.2		100.4		7.3		10.7		8		76				<0.2		1.8	
IM2	Fine	Moderate	12:10	8.2	Surface	1.0	0.1	237	23.7	23.7	8.3	8.3	27.3	27.3	115.7	115.7	8.4	8.1	8.5	10.3	9	9	72	74	818860	806185	<0.2	<0.2	1.8	1.9
						1.0	0.1	245	23.7		8.3		27.3		115.7		8.4		8.6		8		72				<0.2		1.8	
					Middle	4.1	0.1	234	23.1	23.1	8.2	8.2	29.4	29.4	106.2	106.2	7.7		9.8		10		74				<0.2		1.9	
						4.1	0.1	255	23.1		8.3		29.4		106.1		7.7		10.0		9		74				<0.2		1.8	
					Bottom	7.2	0.0	154	22.5	22.5	8.2	8.2	31.1	31.1	101.2	101.2	7.3	7.3	12.3		8		75				<0.2		2.0	
						7.2	0.0	167	22.5		8.2		31.1		101.1		7.3		12.6		8		75				<0.2		1.8	
IM3	Fine	Moderate	12:24	8.1	Surface	1.0	0.1	221	23.8	23.8	8.4	8.4	26.1	26.1	129.0	128.3	9.4	8.4	9.4	11.6	9	9	72	74	819411	806046	<0.2	<0.2	2.0	2.1
						1.0	0.1	226	23.8		8.4		26.1		127.5		9.3		9.2		8		72				<0.2		2.0	
					Middle	4.1	0.2	222	22.9	22.9	8.2	8.2	29.4	29.4	102.3	102.3	7.4		12.4		8		73				<0.2		2.0	
						4.1	0.2	235	22.9		8.2		29.4		102.2		7.4		12.3		8		74				<0.2		2.0	
					Bottom	7.1	0.2	210	22.8	22.8	8.2	8.2	30.1	30.1	101.6	101.6	7.4	7.4	13.1		9		75				<0.2		2.2	
						7.1	0.2	230	22.8		8.2		30.1		101.6		7.4		13.3		11		75				<0.2		2.1	
IM4	Fine	Moderate	12:30	7.5	Surface	1.0	0.1	230	23.8	23.8	8.4	8.4	25.2	25.2	133.8	133.1	9.8	8.6	10.5	12.6	9	9	72	74	819567	805047	<0.2	<0.2	2.1	1.9
						1.0	0.1	235	23.8		8.4		25.2		132.3		9.7		10.4		9		72				<0.2		1.9	
					Middle	3.8	0.2	209	22.9	22.9	8.2	8.2	29.1	29.1	103.1	103.0	7.5		11.5		9		74				<0.2		1.9	
						3.8	0.2	211	22.9		8.2		29.1		102.8		7.5		12.0		10		74				<0.2		1.7	
					Bottom	6.5	0.1	187	22.7	22.7	8.2	8.2	30.5	30.5	100.5	100.7	7.3	7.3	15.5		9		77				<0.2		1.9	
						6.5	0.2	197	22.7		8.2		30.5		100.8		7.3		15.4		8		77				<0.2		1.8	
IM5	Fine	Moderate	12:40	6.6	Surface	1.0	0.3	183	23.9	23.9	8.4	8.4	25.7	25.7	128.0	127.2	9.3	8.2	10.3	11.3	9	9	72	74	820584	804922	<0.2	<0.2	1.9	1.8
						1.0	0.3	193	23.9		8.4		25.7		126.3		9.2		9.9		8		73				<0.2		1.7	
					Middle	3.3	0.3	176	22.9	22.9	8.2	8.2	28.5	28.5	99.2	99.3	7.2		12.2		10		73				<0.2		1.8	
						3.3	0.4	193	22.9		8.2		28.5		99.3		7.2		12.2		8		73				<0.2		1.5	
					Bottom	5.6	0.3	170	22.9	22.9	8.2	8.2	29.8	29.8	98.9	98.9	7.2	7.2	11.6		9		76				<0.2		1.8	
						5.6	0.3	176	22.9		8.2		29.8		98.9		7.2		11.6		9		77				<0.2		2.0	
IM6	Fine	Moderate	12:48	6.5	Surface	1.0	0.3	171	23.7	23.7	8.4	8.4	25.9	25.9	125.4	124.6	9.2	8.3	10.8	11.6	9	9	72	74	821050	805798	<0.2	<0.2	1.8	1.8
						1.0	0.3	172	23.7		8.4		25.9		123.7		9.0		10.4		8		73				<0.2		2.0	
					Middle	3.3	0.3	184	23.1	23.1	8.2	8.2	28.1	28.1	101.1	101.2	7.4		10.9		9		73				<0.2		1.7	
						3.3	0.3	186	23.1		8.2		28.1		101.2		7.4		11.4		8		73				<0.2		1.7	
					Bottom	5.5	0.2	200	23.0	23.0	8.2	8.2	28.5	28.6	100.6	100.8	7.3	7.3	13.4		9		75				<0.2		1.8	
						5.5	0.2	213	23.0		8.2		28.6		100.9		7.3		12.8		9		76				<0.2		1.8	
IM7	Fine	Moderate	12:55	8.1	Surface	1.0	0.1	149	23.3	23.3	8.2	8.2	27.0	27.0	97.2	96.9	7.1	7.0	9.8	11.0	10	9	72	73	821376	806851	<0.2	<0.2	1.7	1.8
						1.0	0.1	154	23.3		8.2		27.0		96.5		7.1		9.6		10		72				<0.2		1.6	
					Middle	4.1	0.1	182	23.1	23.1	8.1	8.1	28.7	28.7	94.5	94.6	6.9		10.8		9		73				<0.2		1.9	
						4.1	0.1	194	23.1		8.1		28.7		94.7		6.9		11.2		8		73				<0.2		1.8	
					Bottom	7.1	0.1	171	22.9	22.9	8.1	8.1	29.1	29.1	96.0	96.1	7.0	7.0	12.3		8		75				<0.2		2.1	
						7.1	0.1	180	22.9		8.2		29.1		96.1		7.0		12.5		8		75				<0.2		1.9	
IM8	Cloudy	Moderate	12:10	8.0	Surface	1.0	0.1	179	23.4	23.4	8.1	8.1	26.2	26.2	105.3	105.3	7.7	7.4	10.2	10.6	8	7	73	75	821668	807822	<0.2	<0.2	1.8	1.7
						1.0	0.1	191	23.4		8.1		26.2		105.2		7.7		10.2		8		73				<0.2		1.8	
					Middle	4.0	0.2	189	23.2	23.2	8.1	8.1	28.3	28.3	97.9	98.0	7.1		11.0		7		75				<0.2		1.9	
						4.0	0.2	207	23.2		8.1		28.3		98.0		7.1		11.0		6		75				<0.2		1.8	
					Bottom	7.0	0.1	159	23.1	23.1	8.1	8.1	28.6	28.6	99.3	99.3	7.2	7.2	10.5		8		77				<0.2		1.5	
						7.0	0.1	171	23.1		8.1		28.6		99.2		7.2		10.5		7		77				<0.2		1.6	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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Water Quality Monitoring

Water Quality Monitoring Results on 12 April 18 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	12:02	6.9	Surface	1.0	0.3	124	23.4	23.4	8.1	8.1	26.8	26.8	101.2	101.2	7.4	7.3	11.2	12.3	9	8	73	75	822080	808783	<0.2	<0.2	2.1	1.9
						1.0	0.3	124	23.4		8.1		26.8		101.1		7.4		11.2		8		73				<0.2		2.2	
					Middle	3.5	0.2	129	23.1	23.1	8.1	8.1	28.3	28.3	97.6	97.7	7.1		12.9		7		75				<0.2		1.8	
						3.5	0.2	141	23.1		8.1		28.3		97.7		7.1		12.9		8		75				<0.2		1.7	
					Bottom	5.9	0.2	97	23.1	23.1	8.1	8.1	28.6	28.6	98.5	98.5	7.2	7.2	12.9		9		77				<0.2		1.7	
						5.9	0.2	104	23.1		8.1		28.6		98.5		7.2		12.9		9		77				<0.2		1.8	
IM10	Cloudy	Moderate	11:54	7.5	Surface	1.0	0.4	128	23.8	23.8	8.1	8.1	24.9	24.9	103.2	103.2	7.6	7.3	10.3	11.4	7	7	73	75	822225	809840	<0.2	<0.2	2.4	2.2
						1.0	0.4	131	23.8		8.1		24.9		103.1		7.6		10.3		7		73				<0.2		2.3	
					Middle	3.8	0.4	117	23.2	23.2	8.1	8.1	28.0	28.0	96.5	96.5	7.0		11.3		6		75				<0.2		2.5	
						3.8	0.4	127	23.2		8.1		28.0		96.5		7.0		11.3		7		75				<0.2		2.3	
					Bottom	6.5	0.3	118	23.2	23.2	8.1	8.1	28.2	28.2	96.7	96.7	7.0	7.0	12.7		9		76				<0.2		2.1	
						6.5	0.3	128	23.2		8.1		28.2		96.7		7.0		12.6		7		77				<0.2		1.8	
IM11	Cloudy	Moderate	11:39	7.4	Surface	1.0	0.3	115	23.8	23.8	8.2	8.2	26.1	26.1	112.9	112.9	8.2	7.9	11.6	11.8	10	11	73	75	821482	810544	<0.2	<0.2	1.8	1.6
						1.0	0.4	125	23.8		8.2		26.1		112.8		8.2		11.6		10		73				<0.2		1.9	
					Middle	3.7	0.4	107	23.5	23.5	8.2	8.2	27.3	27.3	105.2	105.2	7.6		12.1		10		75				<0.2		1.7	
						3.7	0.4	112	23.5		8.2		27.3		105.1		7.6		12.1		10		75				<0.2		1.6	
					Bottom	6.4	0.2	116	23.2	23.2	8.1	8.1	28.9	28.9	99.5	99.5	7.2	7.2	11.7		12		77				<0.2		1.3	
						6.4	0.2	124	23.2		8.1		28.9		99.5		7.2		11.7		12		77				<0.2		1.4	
IM12	Cloudy	Moderate	11:29	8.7	Surface	1.0	0.4	78	23.9	23.9	8.3	8.3	25.3	25.3	119.6	119.5	8.7	7.9	14.4	13.5	15	16	73	75	821158	811522	<0.2	<0.2	1.6	1.7
						1.0	0.4	79	23.9		8.3		25.3		119.3		8.7		14.4		14		73				<0.2		1.6	
					Middle	4.4	0.3	98	23.3	23.3	8.1	8.1	28.1	28.1	97.0	97.0	7.0		14.7		17		75				<0.2		1.5	
						4.4	0.4	105	23.3		8.1		28.2		96.9		7.0		14.7		16		75				<0.2		1.7	
					Bottom	7.7	0.2	93	23.1	23.1	8.0	8.0	29.8	29.8	92.6	92.7	6.7	6.7	11.4		16		77				<0.2		1.8	
						7.7	0.2	94	23.1		8.0		29.8		92.7		6.7		11.4		17		76				<0.2		1.8	
SR2	Cloudy	Moderate	10:59	4.4	Surface	1.0	0.3	90	23.3	23.3	8.1	8.1	29.5	29.5	96.5	96.5	7.0	7.0	9.6	11.1	8	7	73	74	821436	814173	<0.2	<0.2	2.1	1.8
						1.0	0.3	94	23.3		8.1		29.5		96.5		7.0		9.7		7		73				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.1	78	23.1	23.1	8.0	8.0	30.1	30.1	94.8	94.9	6.8	6.8	12.4		7		75				<0.2		1.5	
						3.4	0.1	82	23.1		8.0		30.1		94.9		6.8		12.5		7		75				<0.2		1.3	
SR3	Cloudy	Moderate	12:16	8.8	Surface	1.0	0.0	177	23.5	23.5	8.1	8.1	25.7	25.7	101.3	101.2	7.4	7.0	10.5	12.3	7	8	-	-	822168	807572	-	-	-	-
						1.0	0.0	190	23.5		8.1		25.7		101.0		7.4		10.5		8		-				-		-	
					Middle	4.4	0.2	164	23.0	23.0	8.0	8.0	28.8	28.8	91.1	91.2	6.6		12.7		8		-				-		-	
						4.4	0.2	166	23.0		8.0		28.8		91.2		6.6		12.7		6		-				-		-	
					Bottom	7.8	0.1	178	23.0	23.0	8.0	8.0	29.6	29.6	90.0	90.1	6.5	6.5	13.6		10		-				-		-	
						7.8	0.1	187	23.0		8.0		29.6		90.1		6.5		13.6		10		-				-		-	
SR4A	Fine	Calm	11:27	8.6	Surface	1.0	0.1	64	23.3	23.3	8.3	8.3	28.4	28.4	108.1	108.0	7.8	7.6	11.8	16.0	11	11	-	-	817177	807803	-	-	-	-
						1.0	0.1	69	23.3		8.3		28.4		107.8		7.8		11.8		10		-				-		-	
					Middle	4.3	0.1	55	22.6	22.6	8.2	8.2	30.3	30.3	101.5	101.5	7.4		17.2		10		-				-		-	
						4.3	0.2	58	22.6		8.2		30.3		101.5		7.4		17.3		9		-				-		-	
					Bottom	7.6	0.2	83	22.6	22.6	8.2	8.2	30.3	30.3	101.6	101.6	7.4	7.4	18.8		12		-				-		-	
						7.6	0.2	89	22.6		8.2		30.3		101.6		7.4		19.0		11		-				-		-	
SR5A	Fine	Calm	11:09	5.0	Surface	1.0	0.1	94	23.7	23.7	8.3	8.3	27.5	27.5	109.1	109.0	7.9	7.9	9.7	9.5	10	9	-	-	816577	810710	-	-	-	-
						1.0	0.1	100	23.7		8.3		27.4		108.8		7.9		9.8		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	46	23.7	23.7	8.2	8.2	28.8	28.8	104.7	104.7	7.5	7.5	9.2		8		-				-		-	
						4.0	0.1	47	23.7		8.2		28.8		104.7		7.5		9.3		10		-				-		-	
SR6	Fine	Calm	10:45	4.0	Surface	1.0	0.1	67	23.6	23.6	8.1	8.1	29.0	29.0	103.5	103.5	7.4	7.4	7.6	7.9	8	7	-	-	817870	814669	-	-	-	-
						1.0	0.1	68	23.6		8.1		29.0		103.4		7.4		7.8		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	55	23.5	23.5	8.1	8.1	29.1	29.1	101.9	101.9	7.3	7.3	8.0		6		-				-		-	
						3.0	0.1	56	23.5		8.1		29.1		101.8		7.3		8.1		6		-				-		-	
SR7	Cloudy	Moderate	09:59	18.6	Surface	1.0	0.3	49	23.0	23.0	8.0	8.0	31.7	31.7	92.8	92.8	6.6	6.5	6.7	7.7	4	4	-	-	823643	823748	-	-	-	-
						1.0	0.3	51	23.0		8.0		31.7		92.7		6.6		6.7		3		-				-		-	
					Middle	9.3	0.2	73	22.6	22.6	8.0	8.0	33.0	33.0	89.0	89.0	6.4		8.2		4		-				-		-	
						9.3	0.2	73	22.6		8.0		33.0		89.0		6.4		8.2		4		-				-		-	
					Bottom	17.6	0.0	52	22.6	22.6	8.0	8.0	32.9	32.9	89.3	89.3	6.4	6.4	8.4		6		-				-		-	
						17.6	0.0	53	22.6		8.0		32.9		89.3		6.4		8.2		5		-				-		-	
SR8	Cloudy	Moderate	11:20	4.1	Surface	1.0	-	-	23.9	23.9	8.2	8.2	26.9	26.9	109.3	109.3	7.9	7.9	12.5	16.4	6	7	-	-	820246	811418	-	-	-	-
						1.0	-	-	23.9		8.2		26.9		109.2		7.9		12.5		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	23.7	23.7	8.1	8.1	27.8	27.8	105.3	105.3	7.6	7.6	20.3		7		-				-		-	
						3.1	-	-	23.7		8.1		27.8		105.3		7.6		20.4		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 12 April 18 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	15:56	8.6	Surface	1.0	0.2	77	23.8	23.8	8.4	8.4	27.2	27.2	145.2	145.2	10.5	9.0	7.6	11.1	10	10	72	75	815628	804261	<0.2	<0.2	1.2	1.2
						1.0	0.2	84	23.8		8.4		27.2		145.2		10.5		7.7		10		73				<0.2		1.3	
					Middle	4.3	0.1	30	22.7	22.7	8.2	8.2	30.5	30.5	103.1	103.1	7.5		10.8		9		75				<0.2		1.5	
						4.3	0.1	30	22.7		8.2		30.5		103.0		7.5		10.9		10		75				<0.2		1.3	
					Bottom	7.6	0.2	21	22.3	22.3	8.2	8.2	32.1	32.1	101.4	101.5	7.3	7.3	14.8		12		76				<0.2		1.0	
						7.6	0.2	22	22.3		8.2		32.1		101.5		7.3		14.7		10		76				<0.2		1.1	
C2	Cloudy	Moderate	14:52	11.1	Surface	1.0	0.5	164	23.3	23.2	8.0	8.0	25.8	25.8	93.5	93.5	6.9	6.8	11.7	10.8	11	11	73	75	825656	806967	<0.2	<0.2	2.3	1.9
						1.0	0.5	171	23.2		8.0		25.8		93.5		6.9		11.7		11		73				<0.2		2.5	
					Middle	5.6	0.1	208	23.3	23.3	8.0	8.0	28.4	28.4	91.8	91.8	6.7		9.7		12		75				<0.2		1.8	
						5.6	0.2	228	23.3		8.0		28.4		91.8		6.7		9.5		11		75				<0.2		1.8	
					Bottom	10.1	0.1	343	23.0	23.0	8.0	8.0	29.8	29.8	89.7	89.7	6.5	6.5	11.2		11		77				<0.2		1.4	
						10.1	0.1	357	23.0		8.0		29.8		89.7		6.5		11.2		11		77				<0.2		1.4	
C3	Cloudy	Moderate	16:45	11.8	Surface	1.0	0.3	270	23.8	23.8	8.2	8.2	28.2	28.2	111.7	111.8	8.0	7.5	8.6	8.2	11	12	73	75	822093	817790	<0.2	<0.2	1.6	1.3
						1.0	0.3	289	23.8		8.2		28.2		111.8		8.0		8.6		11		73				<0.2		1.5	
					Middle	5.9	0.4	249	23.3	23.3	8.1	8.1	29.8	29.8	96.6	96.6	6.9		7.2		12		75				<0.2		1.4	
						5.9	0.4	251	23.3		8.1		29.8		96.6		6.9		7.2		11		75				<0.2		1.2	
					Bottom	10.8	0.4	278	22.7	22.7	8.0	8.0	32.3	32.3	92.8	92.9	6.6	6.7	8.8		12		77				<0.2		0.9	
						10.8	0.4	299	22.7		8.0		32.3		92.9		6.7		8.8		14		77				<0.2		1.0	
IM1	Cloudy	Moderate	15:37	7.2	Surface	1.0	0.0	283	23.4	23.4	8.3	8.3	28.1	28.1	118.2	118.2	8.6	8.1	9.3	11.0	13	13	72	74	818340	806460	<0.2	<0.2	2.0	2.1
						1.0	0.0	310	23.4		8.3		28.1		118.2		8.6		9.3		14		72				<0.2		2.2	
					Middle	3.6	0.1	327	22.9	22.9	8.2	8.2	29.9	29.9	103.5	103.5	7.5		10.4		12		73				<0.2		2.0	
						3.6	0.1	327	22.9		8.2		29.9		103.4		7.5		10.4		13		74				<0.2		2.3	
					Bottom	6.2	0.2	349	22.4	22.4	8.2	8.2	31.4	31.4	99.9	100.0	7.2	7.2	13.4		15		75				<0.2		2.1	
						6.2	0.2	358	22.4		8.2		31.4		100.0		7.2		13.3		13		76				<0.2		2.0	
IM2	Cloudy	Moderate	15:32	8.1	Surface	1.0	0.2	200	23.7	23.7	8.3	8.3	27.0	27.0	109.5	108.7	8.0	7.6	9.2	9.4	9	9	72	74	818874	806195	<0.2	<0.2	2.0	2.1
						1.0	0.2	214	23.7		8.3		27.0		107.8		7.8		9.1		8		72				<0.2		2.2	
					Middle	4.1	0.2	224	23.1	23.1	8.2	8.2	28.5	28.5	100.2	100.3	7.3		9.1		8		73				<0.2		2.3	
						4.1	0.2	245	23.1		8.2		28.5		100.3		7.3		9.3		9		74				<0.2		2.1	
					Bottom	7.1	0.2	8	22.7	22.7	8.2	8.2	30.3	30.3	100.6	100.6	7.3	7.3	9.6		11		75				<0.2		2.1	
						7.1	0.2	8	22.7		8.2		30.4		100.6		7.3		10.1		9		75				<0.2		2.1	
IM3	Cloudy	Moderate	15:27	8.1	Surface	1.0	0.1	183	24.3	24.3	8.5	8.5	26.2	26.1	148.3	148.2	10.7	9.2	10.3	9.4	11	11	72	74	819390	806009	<0.2	<0.2	2.2	2.1
						1.0	0.1	200	24.3		8.5		26.1		148.1		10.7		10.3		12		72				<0.2		2.0	
					Middle	4.1	0.1	277	23.0	23.0	8.2	8.2	28.8	28.8	104.3	104.3	7.6		9.1		10		73				<0.2		2.0	
						4.1	0.1	297	23.0		8.2		28.8		104.3		7.6		9.3		10		74				<0.2		2.1	
					Bottom	7.1	0.1	270	22.9	22.9	8.2	8.2	29.7	29.7	104.5	104.5	7.6	7.6	8.6		10		75				<0.2		2.1	
						7.1	0.1	288	22.9		8.2		29.7		104.5		7.6		8.7		10		76				<0.2		2.1	
IM4	Cloudy	Moderate	15:20	7.4	Surface	1.0	0.1	260	24.7	24.7	8.5	8.5	25.4	25.4	143.9	143.9	10.4	9.7	9.2	10.5	13	13	72	74	819577	805016	<0.2	<0.2	2.2	2.2
						1.0	0.1	270	24.7		8.5		25.4		143.9		10.4		9.1		11		72				<0.2		2.2	
					Middle	3.7	0.1	0	23.7	23.7	8.3	8.3	26.8	26.7	123.4	123.3	9.0		11.7		10		73				<0.2		2.1	
						3.7	0.1	0	23.7		8.3		26.7		123.2		9.0		11.4		12		74				<0.2		2.3	
					Bottom	6.4	0.1	0	23.1	23.1	8.2	8.2	28.5	28.5	109.7	110.2	8.0	8.0	10.8		16		75				<0.2		2.1	
						6.4	0.1	0	23.1		8.2		28.6		110.6		8.0		10.6		18		76				<0.2		2.1	
IM5	Cloudy	Moderate	15:11	6.8	Surface	1.0	0.1	240	24.7	24.7	8.5	8.5	24.6	24.6	138.6	137.9	10.0	8.6	11.4	12.8	9	9	73	74	820557	804896	<0.2	<0.2	2.2	2.2
						1.0	0.1	257	24.7		8.5		24.6		137.1		9.9		11.4		8		73				<0.2		2.4	
					Middle	3.4	0.2	265	23.1	23.1	8.2	8.2	28.0	28.0	98.8	98.8	7.2		12.6		8		73				<0.2		2.1	
						3.4	0.2	270	23.1		8.2		28.0		98.8		7.2		13.2		10		74				<0.2		2.2	
					Bottom	5.8	0.2	312	22.9	22.9	8.1	8.1	28.8	28.8	97.8	97.9	7.1	7.1	14.1		10		75				<0.2		2.2	
						5.8	0.2	336	22.9		8.1		28.8		97.9		7.1		14.1		10		75				<0.2		1.9	
IM6	Cloudy	Moderate	15:02	6.4	Surface	1.0	0.3	245	23.7	23.7	8.3	8.3	26.0	26.0	112.4	112.2	8.2	7.5	11.3	16.6	12	12	72	74	821070	805822	<0.2	<0.2	1.9	2.0
						1.0	0.3	249	23.7		8.3		26.0		112.0		8.2		11.2		12		72				<0.2		2.0	
					Middle	3.2	0.2	244	23.1	23.1	8.1	8.1	28.4	28.4	94.1	94.1	6.8		15.2		10		73				<0.2		2.0	
						3.2	0.2	264	23.1		8.1		28.4		94.0		6.8		15.5		10		74				<0.2		1.9	
					Bottom	5.4	0.1	242	23.0	23.0	8.1	8.1	29.0	29.0	93.0	93.0	6.8	6.8	23.2		15		75				<0.2		2.0	
						5.4	0.1	252	23.0		8.1		29.0		93.0		6.8		23.3		15		76				<0.2		2.0	
IM7	Cloudy	Moderate	14:54	7.9	Surface	1.0	0.2	241	24.3	24.3	8.4	8.4	25.4	25.4	121.2	120.8	8.8	7.8	9.7	10.4	12	12	72	74	821332	806847	<0.2	<0.2	1.9	2.0
						1.0	0.2	242	24.3		8.4		25.4		120.4		8.7		9.4		11		72				<0.2		2.1	
					Middle	4.0	0.2	219	23.1	23.1	8.1	8.1	27.8	27.8	92.7	92.6	6.8		10.4		11		73				<0.2		2.0	
						4.0	0.2	231	23.1		8.1		27.9		92.5		6.7		10.7		11		73				<0.2		2.0	
					Bottom	6.9	0.1	237	23.0	23.0	8.1	8.1	28.7	28.7	92.8	92.9	6.8	6.8	11.2		12		75				<0.2		2.1	
						6.9	0.1	258	23.0		8.1		28.7		92.9		6.8		11.1		14		76				<0.2		1.9	
IM8	Cloudy	Moderate	15:16	7.9	Surface	1.0	0.3	217	23.9	23.9	8.2	8.2	25.5	25.5	119.7	119.7	8.7	7.8	10.1	10.3	11	11	73	75	821715	807865	<0.2	<0.2	2.1	2.0
						1.0	0.3	233	23.9		8.2		25.5		119.7		8.7		10.0		12		73				<0.2		2.2	
					Middle	4.0	0.2	224	23.2	23.2	8.0	8.0	27.8	27.8	94.3	94.3	6.9		9.9		12		75				<0.2		2.1	
						4.0	0.2	225	23.2		8.0		27.8		94.2		6.9		9.9		10		75				<0.2		2.1	
					Bottom	6.9	0.1	273	23.1	23.1	8.0	8.0	28.5	28.5	96.4	96.5	7.0	7.0	10.9		10		77				<0.2		1.5	
						6.9	0.1	275	23.1		8.0		28.5		96.5		7.0		10.9		11		77				<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 12 April 18 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	15:25	6.8	Surface	1.0	0.1	239	24.0	24.0	8.2	8.2	25.3	25.3	117.3	117.3	8.6	7.8	9.9	9.4	11	11	74	75	822070	808781	<0.2	<0.2	2.5	2.0
						1.0	0.1	259	24.0		8.2		25.3		117.2		8.5		9.9		11		73				<0.2		2.0	
					Middle	3.4	0.1	243	23.4	23.4	8.0	8.0	27.4	27.4	96.7	96.7	7.0		8.5		11		75				<0.2		2.0	
						3.4	0.1	261	23.4		8.0		27.4		96.6		7.0		8.5		11		75				<0.2		2.2	
					Bottom	5.8	0.1	290	23.1	23.1	8.0	8.0	28.2	28.2	96.0	96.1	7.0	7.0	9.9		10		77				<0.2		1.6	
						5.8	0.1	302	23.1		8.0		28.2		96.1		7.0		9.9		10		77				<0.2		1.5	
IM10	Cloudy	Moderate	15:33	7.0	Surface	1.0	0.2	294	23.7	23.7	8.1	8.1	26.1	26.1	106.6	106.6	7.8	7.3	8.7	8.6	10	9	73	75	822235	809847	<0.2	<0.2	2.0	1.7
						1.0	0.2	320	23.7		8.1		26.1		106.6		7.8		8.7		10		73				<0.2		2.0	
					Middle	3.5	0.2	286	23.3	23.3	8.0	8.0	28.2	28.2	93.2	93.2	6.8		8.1		8		75				<0.2		1.5	
						3.5	0.2	302	23.3		8.0		28.2		93.2		6.8		8.1		9		75				<0.2		1.5	
					Bottom	6.0	0.2	273	23.1	23.1	8.0	8.0	28.4	28.4	93.7	93.7	6.8	6.8	9.0		8		77				<0.2		1.5	
						6.0	0.2	283	23.1		8.0		28.4		93.7		6.8		9.0		8		77				<0.2		1.5	
IM11	Cloudy	Moderate	15:47	7.6	Surface	1.0	0.2	256	23.7	23.7	8.2	8.2	26.3	26.3	116.7	116.7	8.5	7.8	10.4	12.2	10	11	73	75	821524	810528	<0.2	<0.2	2.0	1.8
						1.0	0.2	259	23.7		8.2		26.3		116.7		8.5		10.4		9		73				<0.2		1.8	
					Middle	3.8	0.3	265	23.2	23.2	8.1	8.1	27.8	27.8	98.1	98.1	7.1		12.2		11		75				<0.2		1.8	
						3.8	0.3	282	23.2		8.1		27.8		98.0		7.1		12.3		10		75				<0.2		2.0	
					Bottom	6.6	0.2	269	23.2	23.2	8.1	8.1	27.9	27.9	99.5	99.6	7.2	7.2	13.8		12		77				<0.2		1.5	
						6.6	0.2	280	23.2		8.1		27.9		99.6		7.2		13.9		11		77				<0.2		1.7	
IM12	Cloudy	Moderate	15:54	8.5	Surface	1.0	0.1	295	23.8	23.8	8.2	8.2	25.9	25.9	111.4	111.4	8.1	7.5	10.1	9.8	10	10	73	75	821136	811499	<0.2	<0.2	2.1	1.7
						1.0	0.2	315	23.8		8.2		25.9		111.3		8.1		10.0		8		73				<0.2		2.3	
					Middle	4.3	0.2	284	23.3	23.3	8.1	8.1	28.4	28.4	95.8	95.8	7.0		9.4		11		75				<0.2		1.9	
						4.3	0.2	300	23.3		8.1		28.4		95.7		6.9		9.4		9		75				<0.2		1.7	
					Bottom	7.5	0.1	268	22.9	22.9	8.0	8.0	30.8	30.8	92.7	92.8	6.7	6.7	9.9		11		77				<0.2		1.1	
						7.5	0.1	288	22.9		8.0		30.8		92.9		6.7		10.0		9		77				<0.2		1.1	
SR2	Cloudy	Moderate	16:22	4.5	Surface	1.0	0.2	327	23.8	23.8	8.2	8.2	27.0	27.0	107.7	107.6	7.8	7.8	9.4	8.7	9	10	73	74	821470	814144	<0.2	<0.2	1.9	1.8
						1.0	0.2	334	23.8		8.2		27.0		107.5		7.8		9.4		10		73				<0.2		2.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	271	23.1	23.1	8.0	8.0	29.7	29.7	96.6	96.6	7.0	7.0	8.0		12		75				<0.2		1.7	
						3.5	0.1	291	23.1		8.0		29.7		96.6		7.0		8.0		10		75				<0.2		1.7	
SR3	Cloudy	Moderate	15:11	8.8	Surface	1.0	0.3	207	23.9	23.9	8.2	8.2	25.6	25.6	111.1	111.0	8.1	7.5	10.2	10.7	8	7	-	-	822142	807583	-	-	-	-
						1.0	0.3	215	23.9		8.2		25.6		110.8		8.1		10.1		7		-				-		-	
					Middle	4.4	0.3	204	23.2	23.2	8.0	8.0	27.8	27.8	92.9	92.9	6.8		10.3		6		-				-		-	
						4.4	0.3	208	23.2		8.0		27.8		92.9		6.8		10.3		8		-				-		-	
					Bottom	7.8	0.2	269	23.0	23.0	8.0	8.0	29.0	29.0	95.4	95.5	6.9	6.9	11.6		8		-				-		-	
						7.8	0.2	283	23.0		8.0		29.0		95.5		6.9		11.7		7		-				-		-	
SR4A	Cloudy	Calm	16:17	8.9	Surface	1.0	0.3	252	24.2	24.2	8.4	8.4	27.2	27.2	131.2	131.1	9.4	8.3	9.0	10.1	10	11	-	-	817199	807818	-	-	-	-
						1.0	0.3	273	24.2		8.4		27.2		131.0		9.4		9.2		12		-				-		-	
					Middle	4.5	0.2	251	22.7	22.7	8.2	8.2	30.4	30.4	99.1	99.1	7.2		10.4		11		-				-		-	
						4.5	0.3	262	22.7		8.2		30.4		99.0		7.2		10.2		11		-				-		-	
					Bottom	7.9	0.2	296	22.5	22.5	8.2	8.2	31.1	31.1	96.9	97.0	7.0	7.0	11.0		12		-				-		-	
						7.9	0.2	324	22.5		8.2		31.1		97.0		7.0		11.0		12		-				-		-	
SR5A	Cloudy	Calm	16:35	5.1	Surface	1.0	0.2	257	24.2	24.2	8.3	8.3	28.1	28.1	127.2	127.2	9.1	9.1	9.5	10.5	10	10	-	-	816608	810681	-	-	-	-
						1.0	0.2	269	24.2		8.3		28.1		127.2		9.1		9.7		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	289	23.4	23.4	8.2	8.2	29.2	29.2	103.8	103.9	7.5	7.5	11.3		9		-				-		-	
						4.1	0.2	293	23.4		8.2		29.2		104.0		7.5		11.6		9		-				-		-	
SR6	Cloudy	Calm	16:59	4.6	Surface	1.0	0.2	233	23.7	23.7	8.3	8.2	28.4	28.5	107.4	107.2	7.7	7.7	24.5	21.5	16	19	-	-	817898	814669	-	-	-	-
						1.0	0.2	249	23.7		8.2		28.5		107.0		7.7		23.8		16		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	281	23.7	23.7	8.2	8.2	29.0	29.0	107.9	108.0	7.7	7.7	19.0		21		-				-		-	
						3.6	0.1	294	23.7		8.2		29.0		108.0		7.7		18.5		21		-				-		-	
SR7	Cloudy	Moderate	17:20	18.5	Surface	1.0	0.1	221	23.2	23.2	8.1	8.1	31.2	31.2	97.6	97.6	7.0	6.8	6.8	8.5	4	8	-	-	823651	823727	-	-	-	-
						1.0	0.1	231	23.3		8.1		31.2		97.5		7.0		6.8		5		-				-		-	
					Middle	9.3	-	297	22.8	22.8	8.0	8.0	32.6	32.6	90.7	90.6	6.5		8.0		8		-				-		-	
						9.3	-	308	22.8		8.0		32.6		90.5		6.5		8.0		8		-				-		-	
					Bottom	17.5	0.1	75	22.6	22.6	8.0	8.0	33.0	33.0	90.6	90.6	6.5	6.5	10.8		10		-				-		-	
						17.5	0.1	82	22.6		8.0		33.0		90.6		6.5		10.8		12		-				-		-	
SR8	Cloudy	Moderate	16:03	3.9	Surface	1.0	-	-	24.7	24.7	8.3	8.3	26.6	26.6	125.9	125.9	9.0	9.0	12.7	13.0	11	12	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.7		8.3		26.6		125.9		9.0		12.7		11		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	-	-	24.2	24.2	8.2	8.2	26.9	26.9	116.9	116.9	8.4	8.4	13.3		13		-				-		-	
						2.9	-	-	24.2		8.2		26.9		116.8		8.4		13.4		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**

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

Water Quality Monitoring

Water Quality Monitoring Results on 14 April 18 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	12:32	8.3	Surface	1.0	0.4	217	23.9	23.9	8.2	8.2	28.7	28.7	104.7	104.7	7.5	7.5	9.2	12.4	5	8	84	87	815596	804225	<0.2	<0.2	1.4	1.4
						1.0	0.4	234	23.9		8.2		28.7		104.7		7.5		9.2		6		85				<0.2		1.3	
					Middle	4.2	0.4	215	23.4	23.4	8.2	8.2	29.4	29.4	102.5	102.5	7.4		11.3		5		86				<0.2		1.6	
						4.2	0.4	231	23.4		8.2		29.4		102.5		7.4		11.3		7		87				<0.2		1.4	
					Bottom	7.3	0.0	215	23.0	23.0	8.2	8.2	30.8	30.8	101.2	101.2	7.3	7.3	16.7		10		89				<0.2		1.4	
						7.3	0.0	216	23.0		8.2		30.8		101.2		7.3		16.7		12		88				<0.2		1.4	
C2	Cloudy	Moderate	13:27	11.1	Surface	1.0	0.7	170	24.2	24.2	8.0	8.0	25.6	25.6	89.0	89.1	6.5	6.4	14.1	14.7	13	13	84	87	825678	806937	<0.2	<0.2	2.2	2.3
						1.0	0.8	185	24.2		8.0		25.6		89.1		6.5		14.1		14		84				<0.2		2.2	
					Middle	5.6	0.7	167	23.6	23.6	8.0	8.0	28.4	28.4	87.8	87.8	6.3		16.0		12		86				<0.2		2.2	
						5.6	0.7	170	23.6		8.0		28.4		87.8		6.3		16.0		13		87				<0.2		2.2	
					Bottom	10.1	0.2	155	23.6	23.6	8.0	8.0	29.2	29.2	88.2	88.2	6.3	6.3	14.1		14		89				<0.2		2.5	
						10.1	0.2	163	23.6		8.0		29.2		88.2		6.3		14.1		14		89				<0.2		2.2	
C3	Cloudy	Moderate	11:17	11.8	Surface	1.0	0.3	71	24.0	24.0	8.1	8.1	29.1	29.1	94.5	94.5	6.7	6.7	6.4	6.7	6	7	85	87	822081	817815	<0.2	<0.2	1.4	1.4
						1.0	0.3	72	24.0		8.1		29.1		94.5		6.7		6.3		8		85				<0.2		1.4	
					Middle	5.9	0.3	90	23.5	23.5	8.1	8.1	30.2	30.2	91.7	91.8	6.6		6.9		6		87				<0.2		1.4	
						5.9	0.3	97	23.5		8.1		30.2		91.8		6.6		6.9		6		87				<0.2		1.3	
					Bottom	10.8	0.3	82	23.3	23.3	8.0	8.0	31.4	31.4	90.6	90.7	6.5	6.5	6.8		7		89				<0.2		1.4	
						10.8	0.3	86	23.3		8.0		31.4		90.7		6.5		6.7		6		89				<0.2		1.4	
IM1	Cloudy	Moderate	12:52	7.2	Surface	1.0	0.4	190	23.9	23.9	8.2	8.2	28.5	28.5	103.7	103.7	7.4	7.4	9.8	9.1	8	8	85	87	818330	806457	<0.2	<0.2	1.4	1.4
						1.0	0.4	193	23.9		8.2		28.5		103.7		7.4		9.8		6		84				<0.2		1.4	
					Middle	3.6	0.4	193	23.5	23.5	8.2	8.2	29.0	29.0	102.1	102.1	7.4		9.5		8		86				<0.2		1.3	
						3.6	0.4	203	23.5		8.2		29.0		102.1		7.4		9.5		7		87				<0.2		1.2	
					Bottom	6.2	0.3	192	23.3	23.3	8.2	8.2	29.7	29.7	101.3	101.3	7.3	7.3	8.1		8		88				<0.2		1.4	
						6.2	0.3	194	23.3		8.2		29.7		101.3		7.3		8.1		9		89				<0.2		1.4	
IM2	Cloudy	Moderate	12:57	8.0	Surface	1.0	0.3	201	24.1	24.1	8.3	8.3	28.3	28.3	103.0	103.0	7.4	7.4	11.5	11.4	6	6	84	87	818863	806183	<0.2	<0.2	1.3	1.4
						1.0	0.3	207	24.1		8.3		28.3		103.0		7.4		11.5		5		85				<0.2		1.2	
					Middle	4.0	0.3	203	23.5	23.5	8.2	8.2	29.1	29.1	101.1	101.1	7.3		11.4		6		87				<0.2		1.4	
						4.0	0.3	217	23.5		8.2		29.1		101.1		7.3		11.4		7		86				<0.2		1.5	
					Bottom	7.0	0.2	206	23.2	23.2	8.2	8.2	29.9	29.9	100.4	100.4	7.2	7.2	11.4		6		88				<0.2		1.3	
						7.0	0.2	217	23.2		8.2		29.9		100.4		7.2		11.4		7		89				<0.2		1.4	
IM3	Cloudy	Moderate	13:03	7.8	Surface	1.0	0.3	201	24.1	24.1	8.2	8.2	28.2	28.2	105.3	105.3	7.5	7.5	8.5	10.6	7	6	85	87	819381	806022	<0.2	<0.2	1.3	1.4
						1.0	0.3	219	24.1		8.2		28.2		105.3		7.5		8.5		6		85				<0.2		1.4	
					Middle	3.9	0.3	211	23.6	23.6	8.2	8.2	28.9	28.9	103.2	103.2	7.4		11.3		5		86				<0.2		1.4	
						3.9	0.3	217	23.6		8.2		28.9		103.2		7.4		11.3		6		87				<0.2		1.3	
					Bottom	6.8	0.3	207	23.6	23.6	8.2	8.2	29.0	29.0	102.4	102.4	7.4	7.4	12.0		5		89				<0.2		1.3	
						6.8	0.3	210	23.6		8.2		29.0		102.4		7.4		12.0		5		88				<0.2		1.4	
IM4	Cloudy	Moderate	13:10	7.6	Surface	1.0	0.5	214	23.9	23.9	8.2	8.2	28.9	28.9	103.0	103.0	7.4	7.3	13.1	17.8	8	8	85	87	819574	805051	<0.2	<0.2	1.2	1.2
						1.0	0.5	220	23.9		8.2		28.9		103.0		7.4		13.1		9		85				<0.2		1.2	
					Middle	3.8	0.4	193	23.5	23.5	8.2	8.2	29.2	29.2	100.8	100.8	7.2		18.6		8		86				<0.2		1.3	
						3.8	0.4	193	23.5		8.2		29.2		100.8		7.2		18.6		8		87				<0.2		1.3	
					Bottom	6.6	0.3	200	23.3	23.3	8.2	8.2	29.5	29.5	100.5	100.5	7.2	7.2	21.6		8		89				<0.2		1.2	
						6.6	0.4	209	23.3		8.2		29.5		100.5		7.2		21.6		8		89				<0.2		1.1	
IM5	Cloudy	Moderate	13:21	6.6	Surface	1.0	0.5	199	23.6	23.6	8.2	8.2	28.3	28.3	100.7	100.7	7.3	7.3	17.6	20.0	7	7	85	87	820544	804919	<0.2	<0.2	1.4	1.5
						1.0	0.6	199	23.6		8.2		28.3		100.7		7.3		17.6		6		85				<0.2		1.4	
					Middle	3.3	0.4	200	23.4	23.4	8.2	8.2	28.8	28.8	100.3	100.3	7.2		20.2		8		87				<0.2		1.3	
						3.3	0.5	215	23.4		8.2		28.8		100.3		7.2		20.2		7		87				<0.2		1.6	
					Bottom	5.6	0.3	203	23.4	23.4	8.2	8.2	28.9	28.9	100.1	100.1	7.2	7.2	22.2		8		87				<0.2		1.6	
						5.6	0.4	208	23.4		8.2		28.9		100.1		7.2		22.2		7		88				<0.2		1.7	
IM6	Cloudy	Moderate	13:29	6.5	Surface	1.0	0.5	198	24.3	24.3	8.2	8.2	27.3	27.3	101.9	101.9	7.3	7.3	12.5	14.5	9	8	85	86	821081	805842	<0.2	<0.2	1.4	1.5
						1.0	0.5	213	24.3		8.2		27.3		101.9		7.3		12.6		7		84				<0.2		1.5	
					Middle	3.3	0.4	205	23.6	23.6	8.2	8.2	28.6	28.6	101.0	101.0	7.3		15.0		8		87				<0.2		1.5	
						3.3	0.4	222	23.6		8.2		28.6		101.0		7.3		15.0		8		87				<0.2		1.5	
					Bottom	5.5	0.3	205	23.6	23.6	8.2	8.2	28.8	28.8	100.7	100.7	7.2	7.2	15.8		7		88				<0.2		1.5	
						5.5	0.3	216	23.6		8.2		28.8		100.7		7.2		15.8		8		87				<0.2		1.4	
IM7	Cloudy	Moderate	13:36	7.8	Surface	1.0	0.4	215	24.4	24.4	8.1	8.1	26.6	26.6	97.2	97.2	7.0	7.1	9.5	11.2	6	6	84	86	821326	806806	<0.2	<0.2	1.8	1.8
						1.0	0.5	229	24.4		8.1		26.6		97.2		7.0		9.5		5		85				<0.2		1.8	
					Middle	3.9	0.4	224	23.7	23.7	8.2	8.2	27.8	27.8	98.1	98.1	7.1		11.9		5		86				<0.2		1.8	
						3.9	0.4	229	23.7		8.2		27.8		98.1		7.1		11.9		6		87				<0.2		1.9	
					Bottom	6.8	0.3	207	23.8	23.8	8.2	8.2	27.7	27.7	99.0	99.0	7.1	7.1	12.1		6		88				<0.2		1.8	
						6.8	0.3	217	23.8		8.2		27.7		99.0		7.1		12.1		6		87				<0.2		1.8	
IM8	Cloudy	Moderate	12:59	7.7	Surface	1.0	0.3	198	24.0	24.0	8.1	8.1	27.2	27.2	99.1	99.1	7.1	7.2	10.4	10.7	7	7	84	87	821683	807811	<0.2	<0.2	1.8	1.8
						1.0	0.3	211	24.0		8.1		27.2		99.1		7.1		10.4		6		85				<0.2		1.8	
					Middle	3.9	0.2	218	23.7	23.7	8.1	8.1	28.0	28.0	100.4	100.4	7.2		10.9		9		87				<0.2		1.8	
						3.9	0.2	222	23.7		8.1		28.0		100.4		7.3		10.9		8		87				<0.2		1.8	
					Bottom	6.7	0.1	169	23.6	23.6	8.1	8.1	28.6	28.6	100.1	100.1	7.2	7.2	10.7		7		89				<0.2		1.8	
						6.7	0.1	182	23.6		8.1		28.6		100.1		7.2		10.7		7		89				<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 14 April 18 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	12:50	6.8	Surface	1.0	0.3	143	24.1	24.1	8.1	8.1	27.0	27.0	97.8	97.9	7.1	7.1	11.9	12.8	7	7	85	87	822064	808829	<0.2	<0.2	1.7	1.9
						1.0	0.3	149	24.1		8.1		27.0		97.9		7.1		11.8		7		85				<0.2		1.9	
					Middle	3.4	0.3	135	23.8	23.8	8.1	8.1	27.6	27.6	98.0	98.0	7.1		13.3		6		87				<0.2		1.9	
						3.4	0.3	142	23.8		8.1		27.6		98.0		7.1		13.2		6		87				<0.2		1.8	
					Bottom	5.8	0.1	116	23.6	23.6	8.1	8.1	28.3	28.3	98.8	98.7	7.1	7.1	13.2		7		89				<0.2		1.9	
						5.8	0.1	117	23.6		8.1		28.3		98.6		7.1		13.2		8		89				<0.2		1.9	
IM10	Cloudy	Moderate	12:41	7.0	Surface	1.0	0.7	120	23.9	23.9	8.1	8.1	27.2	27.2	96.6	96.6	7.0	7.0	14.7	17.1	12	11	85	87	822265	809819	<0.2	<0.2	1.9	2.0
						1.0	0.7	127	23.9		8.1		27.2		96.6		7.0		14.7		12		84				<0.2		1.9	
					Middle	3.5	0.5	112	23.7	23.7	8.1	8.1	27.8	27.8	96.8	96.8	7.0		17.2		11		87				<0.2		1.9	
						3.5	0.6	116	23.7		8.1		27.8		96.8		7.0		17.3		12		87				<0.2		2.1	
					Bottom	6.0	0.4	113	23.7	23.7	8.1	8.1	27.9	27.9	96.4	96.4	7.0	7.0	19.3		11		89				<0.2		2.0	
						6.0	0.4	123	23.7		8.1		27.9		96.4		7.0		19.4		10		89				<0.2		2.0	
IM11	Cloudy	Moderate	12:22	7.7	Surface	1.0	0.4	113	24.0	24.0	8.1	8.1	27.0	27.0	96.3	96.4	6.9	7.0	10.8	13.5	7	7	84	87	821510	810561	<0.2	<0.2	1.9	2.3
						1.0	0.4	115	24.0		8.1		27.0		96.4		7.0		10.8		6		85				<0.2		1.8	
					Middle	3.9	0.5	109	23.8	23.8	8.1	8.1	27.4	27.4	97.0	97.0	7.0		13.5		6		87				<0.2		2.6	
						3.9	0.5	111	23.8		8.1		27.4		97.0		7.0		13.6		7		87				<0.2		2.6	
					Bottom	6.7	0.3	86	23.8	23.8	8.1	8.1	27.8	27.8	96.9	96.9	7.0	7.0	16.2		8		89				<0.2		2.6	
						6.7	0.4	92	23.8		8.1		27.8		96.8		7.0		16.3		8		89				<0.2		2.3	
IM12	Cloudy	Moderate	12:12	8.4	Surface	1.0	0.4	106	23.9	23.9	8.2	8.2	27.7	27.7	96.7	96.7	7.0	7.0	12.7	14.9	8	10	85	87	821168	811499	<0.2	<0.2	1.6	1.5
						1.0	0.4	111	23.9		8.2		27.7		96.7		7.0		12.6		7		84				<0.2		1.4	
					Middle	4.2	0.3	98	23.8	23.8	8.2	8.2	27.8	27.8	96.2	96.2	6.9		14.6		12		87				<0.2		1.4	
						4.2	0.3	105	23.8		8.2		27.8		96.2		6.9		14.7		11		86				<0.2		1.5	
					Bottom	7.4	0.3	94	23.8	23.8	8.2	8.2	27.9	27.9	95.2	95.2	6.9	6.9	17.4		11		89				<0.2		1.5	
						7.4	0.3	94	23.8		8.2		27.9		95.2		6.9		17.1		11		89				<0.2		1.6	
SR2	Cloudy	Moderate	11:43	3.4	Surface	1.0	0.4	104	24.1	24.1	8.1	8.1	27.9	27.8	95.9	95.9	6.9	6.9	9.3	9.8	5	5	85	86	821475	814165	<0.2	<0.2	1.5	1.5
						1.0	0.4	106	24.1		8.1		27.8		95.9		6.9		9.2		4		84				<0.2		1.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.4	0.2	106	23.9	23.9	8.1	8.1	28.4	28.4	94.6	94.6	6.8	6.8	10.4		4		87				<0.2		1.5	
						2.4	0.3	106	23.9		8.1		28.4		94.5		6.8		10.4		5		87				<0.2		1.4	
SR3	Cloudy	Moderate	13:05	8.6	Surface	1.0	0.2	180	24.2	24.2	8.1	8.1	27.0	27.0	99.4	99.4	7.1	7.1	10.9	13.8	4	7	-	-	822175	807584	-	-	-	-
						1.0	0.2	194	24.2		8.1		27.0		99.3		7.1		10.9		5		-				-		-	
					Middle	4.3	0.2	205	23.8	23.8	8.1	8.1	27.9	27.9	98.1	98.2	7.1		14.5		7		-				-		-	
						4.3	0.2	218	23.8		8.1		27.9		98.2		7.1		14.5		7		-				-		-	
					Bottom	7.6	0.2	245	23.6	23.6	8.1	8.1	28.4	28.4	99.1	99.1	7.1	7.1	16.0		8		-				-		-	
						7.6	0.2	257	23.6		8.1		28.4		99.1		7.1		16.1		8		-				-		-	
SR4A	Cloudy	Moderate	12:13	9.6	Surface	1.0	0.3	79	23.8	23.8	8.2	8.2	28.7	28.7	102.3	102.3	7.3	7.3	11.9	13.9	7	10	-	-	817175	807833	-	-	-	-
						1.0	0.3	84	23.8		8.2		28.7		102.3		7.3		11.9		8		-				-		-	
					Middle	4.8	0.3	76	23.6	23.6	8.2	8.2	28.8	28.8	101.1	101.1	7.3		13.5		9		-				-		-	
						4.8	0.3	76	23.6		8.2		28.8		101.1		7.3		13.5		11		-				-		-	
					Bottom	8.6	0.3	80	23.5	23.5	8.2	8.2	28.9	28.9	100.8	100.8	7.3	7.3	16.3		12		-				-		-	
						8.6	0.3	84	23.5		8.2		28.9		100.8		7.3		16.3		11		-				-		-	
SR5A	Cloudy	Calm	11:55	3.7	Surface	1.0	0.1	40	24.5	24.5	8.2	8.2	28.7	28.7	108.6	108.6	7.7	7.7	11.0	11.7	9	8	-	-	816567	810715	-	-	-	-
						1.0	0.1	43	24.5		8.2		28.7		108.6		7.7		11.0		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.1	54	24.5	24.5	8.2	8.2	28.7	28.7	107.6	107.6	7.6	7.6	12.4		7		-				-		-	
						2.7	0.1	57	24.5		8.2		28.7		107.6		7.6		12.4		7		-				-		-	
SR6	Cloudy	Calm	11:32	4.0	Surface	1.0	0.2	58	24.4	24.4	8.2	8.2	28.4	28.4	106.7	106.7	7.6	7.6	8.6	11.4	4	4	-	-	817896	814652	-	-	-	-
						1.0	0.2	60	24.4		8.2		28.4		106.7		7.6		8.6		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	50	24.2	24.2	8.2	8.2	28.8	28.8	102.9	102.9	7.3	7.3	14.1		4		-				-		-	
						3.0	0.1	51	24.2		8.2		28.8		102.9		7.3		14.1		4		-				-		-	
SR7	Cloudy	Moderate	10:35	19.2	Surface	1.0	0.1	112	23.4	23.4	8.0	8.0	31.4	31.4	91.7	91.7	6.5	6.5	7.2	7.9	4	4	-	-	823609	823750	-	-	-	-
						1.0	0.1	116	23.4		8.0		31.4		91.7		6.5		7.2		3		-				-		-	
					Middle	9.6	0.0	54	23.3	23.3	8.0	8.0	31.5	31.5	90.2	90.2	6.4		7.7		3		-				-		-	
						9.6	0.0	58	23.3		8.0		31.5		90.2		6.4		7.8		4		-				-		-	
					Bottom	18.2	0.0	352	23.2	23.2	8.0	8.0	31.9	31.9	89.0	89.0	6.3	6.3	8.8		7		-				-		-	
						18.2	0.0	324	23.2		8.0		31.9		89.0		6.3		8.9		5		-				-		-	
SR8	Cloudy	Moderate	12:03	4.0	Surface	1.0	-	-	24.2	24.2	8.1	8.1	28.1	28.1	96.7	96.7	6.9	6.9	12.2	12.1	8	9	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.2		8.1		28.1		96.7		6.9		12.2		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	23.9	23.9	8.1	8.1	28.2	28.2	96.1	96.1	6.9	6.9	11.9		10		-				-		-	
						3.0	-	-	23.9		8.1		28.2		96.0		6.9		11.9		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 14 April 18 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	17:25	8.2	Surface	1.0	0.3	36	24.4	24.4	8.2	8.2	28.5	28.5	105.0	105.0	7.5	7.3	6.7	10.4	5	4	84	86	815624	804247	<0.2	<0.2	1.3	1.3
						1.0	0.3	37	24.4		8.2		28.5		105.0		7.5		6.7		5		85				<0.2		1.4	
					Middle	4.1	0.3	38	23.6	23.6	8.2	8.2	29.2	29.2	99.4	99.4	7.1		10.1		3		86				<0.2		1.3	
						4.1	0.3	39	23.6		8.2		29.2		99.4		7.1		10.1		3		86				<0.2		1.3	
					Bottom	7.2	0.3	36	23.0	23.0	8.2	8.2	30.5	30.5	96.6	96.6	7.0	7.0	14.4		3		89				<0.2		1.2	
						7.2	0.3	36	23.0		8.2		30.5		96.6		7.0		14.4		4		88				<0.2		1.3	
C2	Cloudy	Moderate	16:23	10.8	Surface	1.0	0.6	189	24.2	24.2	7.9	7.9	25.0	25.0	88.6	88.6	6.4	6.3	18.5	20.6	12	12	85	87	825687	806947	<0.2	<0.2	3.1	2.9
						1.0	0.6	207	24.2		7.9		25.1		88.6		6.5		18.6		11		85				<0.2		2.7	
					Middle	5.4	0.6	177	23.7	23.7	7.9	7.9	26.5	26.5	84.8	84.8	6.2		20.1		12		87				<0.2		2.9	
						5.4	0.6	186	23.7		7.9		26.5		84.8		6.2		20.2		11		87				<0.2		2.8	
					Bottom	9.8	0.2	215	23.6	23.6	7.9	7.9	28.1	28.1	85.9	85.9	6.2	6.2	23.2		12		89				<0.2		2.9	
						9.8	0.2	228	23.6		7.9		28.1		85.9		6.2		23.1		12		89				<0.2		2.9	
C3	Cloudy	Moderate	18:20	11.7	Surface	1.0	0.6	261	23.9	23.9	8.1	8.1	28.4	28.4	93.1	93.1	6.7	6.6	6.9	9.0	4	4	85	87	822099	817820	<0.2	<0.2	1.6	1.7
						1.0	0.6	262	23.9		8.1		28.4		93.1		6.7		6.9		2		85				<0.2		1.7	
					Middle	5.9	0.8	258	23.7	23.7	8.1	8.1	30.1	30.1	90.5	90.5	6.5		8.0		5		87				<0.2		1.7	
						5.9	0.8	272	23.7		8.1		30.1		90.5		6.5		8.0		5		87				<0.2		1.7	
					Bottom	10.7	0.4	267	23.3	23.3	8.0	8.0	31.2	31.2	88.8	88.9	6.3	6.3	12.1		4		89				<0.2		1.6	
						10.7	0.4	276	23.3		8.0		31.2		88.9		6.3		12.2		5		89				<0.2		1.6	
IM1	Cloudy	Moderate	17:06	7.1	Surface	1.0	0.2	7	24.1	24.1	8.2	8.2	28.2	28.2	100.8	100.8	7.2	7.2	11.7	14.9	5	8	85	87	818360	806446	<0.2	<0.2	2.2	2.1
						1.0	0.2	7	24.1		8.2		28.2		100.8		7.2		11.7		5		85				<0.2		2.1	
					Middle	3.6	0.3	12	24.0	24.0	8.3	8.3	28.4	28.4	100.8	100.8	7.2		13.2		9		87				<0.2		2.2	
						3.6	0.3	12	24.0		8.3		28.4		100.8		7.2		13.2		9		87				<0.2		2.1	
					Bottom	6.1	0.4	10	23.8	23.8	8.2	8.2	28.7	28.7	99.7	99.7	7.1	7.1	19.9		9		90				<0.2		2.0	
						6.1	0.4	10	23.8		8.2		28.7		99.7		7.1		19.9		9		88				<0.2		2.1	
IM2	Cloudy	Moderate	17:01	8.2	Surface	1.0	0.1	226	24.2	24.2	8.2	8.2	27.2	27.2	99.3	99.3	7.1	7.2	11.3	12.0	7	8	85	87	818845	806174	<0.2	<0.2	2.0	3.5
						1.0	0.1	237	24.2		8.2		27.2		99.3		7.1		11.3		7		85				<0.2		10.3	
					Middle	4.1	0.1	257	24.0	24.0	8.3	8.3	28.2	28.2	100.3	100.3	7.2		12.9		9		87				<0.2		2.3	
						4.1	0.2	280	24.0		8.3		28.2		100.3		7.2		12.9		7		88				<0.2		2.2	
					Bottom	7.2	0.2	310	23.9	23.9	8.2	8.2	28.8	28.8	99.6	99.6	7.1	7.1	11.9		8		89				<0.2		2.0	
						7.2	0.2	338	23.9		8.2		28.8		99.6		7.1		11.9		9		90				<0.2		2.0	
IM3	Cloudy	Moderate	16:56	7.9	Surface	1.0	0.2	217	24.4	24.4	8.1	8.1	26.4	26.4	95.5	95.5	6.9	7.0	11.0	13.2	10	10	85	87	819405	806043	<0.2	<0.2	2.2	2.4
						1.0	0.2	231	24.4		8.1		26.4		95.5		6.9		11.0		9		85				<0.2		2.4	
					Middle	4.0	0.1	254	24.1	24.1	8.1	8.1	27.3	27.3	96.7	96.7	7.0		13.2		9		87				<0.2		2.4	
						4.0	0.1	268	24.1		8.1		27.3		96.7		7.0		13.2		8		88				<0.2		2.5	
					Bottom	6.9	0.2	332	24.1	24.1	8.2	8.2	27.8	27.8	96.5	96.5	6.9	6.9	15.3		10		89				<0.2		2.6	
						6.9	0.2	354	24.1		8.2		27.8		96.5		6.9		15.3		12		90				<0.2		2.5	
IM4	Cloudy	Moderate	16:48	7.3	Surface	1.0	0.3	290	24.2	24.2	8.1	8.1	26.9	26.9	96.0	96.0	6.9	7.0	14.6	17.1	10	10	84	87	819549	805043	<0.2	<0.2	2.9	2.8
						1.0	0.3	308	24.2		8.1		26.9		96.0		6.9		14.6		11		85				<0.2		3.1	
					Middle	3.7	0.3	301	24.0	24.0	8.1	8.1	27.5	27.5	97.4	97.4	7.0		18.0		10		86				<0.2		2.8	
						3.7	0.3	328	24.0		8.1		27.5		97.4		7.0		18.0		8		87				<0.2		2.6	
					Bottom	6.3	0.2	314	24.0	24.0	8.2	8.2	27.8	27.8	97.9	97.9	7.0	7.0	18.7		9		90				<0.2		2.6	
						6.3	0.2	321	24.0		8.2		27.8		97.9		7.0		18.7		10		89				<0.2		2.8	
IM5	Cloudy	Moderate	16:39	7.4	Surface	1.0	0.4	276	24.1	24.1	8.1	8.1	26.8	26.8	91.0	91.0	6.6	6.6	19.1	20.1	8	11	85	88	820540	804911	<0.2	<0.2	2.6	2.6
						1.0	0.5	276	24.1		8.1		26.8		91.0		6.6		19.1		8		85				<0.2		2.6	
					Middle	3.7	0.3	267	23.9	23.9	8.1	8.1	27.3	27.3	91.7	91.7	6.6		20.4		12		87				<0.2		2.5	
						3.7	0.3	292	23.9		8.1		27.3		91.7		6.6		20.4		12		88				<0.2		2.6	
					Bottom	6.4	0.2	277	23.9	23.9	8.1	8.1	27.4	27.4	94.4	94.4	6.8	6.8	20.8		13		90				<0.2		2.7	
						6.4	0.2	279	23.9		8.1		27.4		94.4		6.8		20.8		15		90				<0.2		2.8	
IM6	Cloudy	Moderate	16:32	6.3	Surface	1.0	0.4	264	24.1	24.1	8.0	8.0	26.6	26.6	90.8	90.8	6.6	6.6	19.7	20.2	18	19	85	87	821073	805820	<0.2	<0.2	2.8	2.7
						1.0	0.4	272	24.1		8.0		26.6		90.8		6.6		19.7		18		85				<0.2		2.8	
					Middle	3.2	0.5	262	24.1	24.1	8.0	8.0	26.7	26.7	91.2	91.2	6.6		20.5		18		87				<0.2		2.6	
						3.2	0.5	277	24.1		8.0		26.7		91.2		6.6		20.5		17		87				<0.2		2.6	
					Bottom	5.3	0.4	266	24.0	24.0	8.0	8.0	26.9	26.9	93.7	93.7	6.8	6.8	20.5		20		89				<0.2		2.5	
						5.3	0.4	284	24.0		8.0		26.9		93.7		6.8		20.5		22		90				<0.2		2.6	
IM7	Cloudy	Moderate	16:22	7.4	Surface	1.0	0.6	236	24.8	24.8	8.0	8.0	25.2	25.2	92.2	92.2	6.6	6.5	13.3	16.9	6	7	85	87	821358	806838	<0.2	<0.2	2.8	2.7
						1.0	0.7	253	24.8		8.0		25.2		92.2		6.6		13.3		5		85				<0.2		3.0	
					Middle	3.7	0.5	246	24.0	24.0	8.0	8.0	26.8	26.8	89.2	89.2	6.4		16.9		8		87				<0.2		2.7	
						3.7	0.5	268	24.0		8.0		26.8		89.2		6.4		16.9		8		87				<0.2		2.6	
					Bottom	6.4	0.4	252	24.0	24.0	8.0	8.0	26.9	26.9	89.1	89.1	6.4	6.4	20.6		8		89				<0.2		2.3	
						6.4	0.4	273	24.0		8.0		26.9		89.1		6.4		20.6		8		89				<0.2		2.7	
IM8	Cloudy	Moderate	16:44	7.5	Surface	1.0	0.4	210	24.3	24.3	8.0	8.0	26.0	26.0	93.1	93.1	6.7	6.7	12.0	14.6	9	10	85	87	821717	807823	<0.2	<0.2	2.4	2.5
						1.0	0.4	226	24.3		8.0		26.0		93.1		6.7		12.1		7		85				<0.2		2.3	
					Middle	3.8	0.4	224	24.2	24.2	8.0	8.0	26.4	26.4	91.2	91.2	6.6		15.1		9		87				<0.2		2.5	
						3.8	0.4	232	24.2		8.0		26.4		91.2		6.6		15.1		10		87				<0.2		2.6	
					Bottom	6.5	0.3	244	24.1	24.1	8.0	8.0	26.8	26.8	91.2	91.2	6.6	6.6	16.6		11		89				<0.2		2.5	
						6.5	0.3	264	24.1		8.0		26.8		91.2		6.6		16.6		12		90				<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 14 April 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	16:53	6.1	Surface	1.0	0.3	226	24.3	24.3	8.0	8.0	26.1	26.1	92.0	92.0	6.6	6.6	11.1	11.1	7	8	85	87	822084	808807	<0.2	<0.2	2.6	2.4
						1.0	0.3	238	24.3		8.0		26.1		92.0		6.6		11.1		7		85				<0.2		2.4	
					Middle	3.1	0.3	265	24.1	24.1	8.0	8.0	26.6	26.6	90.9	90.9	6.6		10.5		7		87				<0.2		2.4	
						3.1	0.3	276	24.1		8.0		26.6		90.9		6.6		10.5		9		87				<0.2		2.3	
					Bottom	5.1	0.3	271	24.1	24.1	8.0	8.0	26.7	26.7	91.1	91.2	6.6	6.6	11.9		9		90				<0.2		2.3	
						5.1	0.3	275	24.1		8.0		26.7		91.2		6.6		11.7		8		89				<0.2		2.3	
IM10	Cloudy	Moderate	17:02	6.6	Surface	1.0	0.3	290	24.4	24.4	8.0	8.0	26.1	26.1	92.9	92.9	6.7	6.7	9.5	11.3	4	5	85	87	822229	809817	<0.2	<0.2	2.6	2.6
						1.0	0.3	302	24.4		8.0		26.1		92.9		6.7		9.5		5		85				<0.2		2.6	
					Middle	3.3	0.2	288	24.3	24.3	8.0	8.0	26.4	26.4	91.2	91.2	6.6		10.0		5		88				<0.2		2.5	
						3.3	0.3	312	24.3		8.0		26.4		91.2		6.6		10.0		6		87				<0.2		2.6	
					Bottom	5.6	0.3	289	24.1	24.1	8.0	8.0	26.6	26.6	90.2	90.2	6.5	6.5	14.5		6		90				<0.2		2.6	
						5.6	0.3	289	24.1		8.0		26.6		90.2		6.5		14.3		6		89				<0.2		2.6	
IM11	Cloudy	Moderate	17:18	6.9	Surface	1.0	0.4	275	24.1	24.1	8.1	8.1	27.2	27.2	94.3	94.3	6.8	6.8	12.4	14.4	5	5	85	87	821472	810571	<0.2	<0.2	2.4	2.3
						1.0	0.4	276	24.1		8.1		27.2		94.3		6.8		12.4		4		85				<0.2		2.2	
					Middle	3.5	0.4	291	24.1	24.1	8.1	8.1	27.3	27.3	95.0	95.0	6.8		13.7		5		87				<0.2		2.1	
						3.5	0.4	299	24.1		8.1		27.3		95.0		6.8		13.7		5		87				<0.2		2.4	
					Bottom	5.9	0.4	305	24.0	24.0	8.1	8.1	27.6	27.6	94.9	94.9	6.8	6.8	17.0		6		89				<0.2		2.4	
						5.9	0.4	334	24.0		8.1		27.6		94.9		6.8		17.1		6		89				<0.2		2.2	
IM12	Cloudy	Moderate	17:27	8.4	Surface	1.0	0.5	276	24.1	24.1	8.0	8.0	27.0	27.0	94.0	94.0	6.8	6.9	9.8	13.6	6	7	85	87	821169	811512	<0.2	<0.2	1.9	1.9
						1.0	0.5	283	24.1		8.0		27.0		94.0		6.8		9.8		6		85				<0.2		2.1	
					Middle	4.2	0.5	281	24.0	24.0	8.1	8.1	27.4	27.4	96.2	96.2	6.9		14.7		7		87				<0.2		2.0	
						4.2	0.5	297	24.0		8.1		27.4		96.2		6.9		14.9		8		87				<0.2		1.9	
					Bottom	7.4	0.4	279	24.1	24.1	8.1	8.1	27.8	27.8	96.3	96.3	6.9	6.9	16.3		7		89				<0.2		1.8	
						7.4	0.4	301	24.1		8.1		27.8		96.3		6.9		16.2		6		90				<0.2		1.8	
SR2	Cloudy	Moderate	17:56	4.3	Surface	1.0	0.2	72	23.9	23.9	8.1	8.1	28.3	28.3	92.2	92.3	6.6	6.6	15.2	15.8	12	12	85	86	821460	814195	<0.2	<0.2	1.5	1.4
						1.0	0.3	78	23.9		8.1		28.3		92.3		6.6		15.3		12		85				<0.2		1.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	73	23.9	23.9	8.1	8.1	28.3	28.3	92.3	92.3	6.6	6.6	16.3		11		87				<0.2		1.4	
						3.3	0.2	73	23.9		8.1		28.3		92.3		6.6		16.4		13		87				<0.2		1.3	
SR3	Cloudy	Moderate	16:38	7.8	Surface	1.0	0.5	199	24.4	24.3	8.0	8.0	25.3	25.3	89.5	89.5	6.5	6.5	14.8	15.8	7	9	-	-	822149	807553	-	-	-	-
						1.0	0.5	214	24.3		8.0		25.3		89.4		6.5		14.8		6		-				-		-	
					Middle	3.9	0.4	218	23.9	23.9	7.9	7.9	26.2	26.2	87.7	87.8	6.4		15.7		10		-				-		-	
						3.9	0.4	233	23.9		7.9		26.2		87.8		6.4		15.7		11		-				-		-	
					Bottom	6.8	0.3	260	23.8	23.8	8.0	8.0	27.1	27.1	88.8	88.8	6.4	6.4	16.9		11		-				-		-	
						6.8	0.3	264	23.8		8.0		27.1		88.8		6.4		17.0		10		-				-		-	
SR4A	Cloudy	Moderate	17:44	8.7	Surface	1.0	0.4	251	24.4	24.4	8.2	8.2	28.6	28.6	103.2	103.2	7.3	7.3	15.2	16.7	11	13	-	-	817189	807789	-	-	-	-
						1.0	0.4	273	24.4		8.2		28.6		103.2		7.3		15.2		10		-				-		-	
					Middle	4.4	0.3	246	24.3	24.3	8.2	8.2	28.6	28.6	102.8	102.8	7.3		16.0		11		-				-		-	
						4.4	0.4	269	24.3		8.2		28.6		102.8		7.3		16.0		13		-				-		-	
					Bottom	7.7	0.3	256	24.3	24.3	8.2	8.2	28.6	28.6	101.5	101.5	7.2	7.2	18.9		16		-				-		-	
						7.7	0.3	265	24.3		8.2		28.6		101.5		7.2		18.9		14		-				-		-	
SR5A	Cloudy	Calm	18:01	4.6	Surface	1.0	0.4	297	24.6	24.6	8.2	8.2	28.7	28.7	106.7	106.7	7.6	7.6	13.9	15.0	14	16	-	-	816617	810672	-	-	-	-
						1.0	0.4	303	24.6		8.2		28.7		106.7		7.6		13.9		16		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.3	297	24.5	24.5	8.2	8.2	28.8	28.8	103.4	103.4	7.3	7.3	16.1		17		-				-		-	
						3.6	0.3	310	24.5		8.2		28.8		103.4		7.3		16.1		18		-				-		-	
SR6	Cloudy	Calm	18:25	4.2	Surface	1.0	0.2	249	24.1	24.1	8.2	8.2	28.3	28.3	96.6	96.6	6.9	6.9	11.4	12.6	10	10	-	-	817907	814687	-	-	-	-
						1.0	0.2	271	24.1		8.2		28.3		96.6		6.9		11.4		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	254	24.1	24.1	8.2	8.2	28.6	28.6	96.5	96.5	6.9	6.9	13.7		10		-				-		-	
						3.2	0.1	272	24.1		8.2		28.6		96.5		6.9		13.7		11		-				-		-	
SR7	Cloudy	Moderate	19:00	18.8	Surface	1.0	0.2	279	23.6	23.6	8.1	8.1	30.3	30.3	90.2	90.2	6.4	6.4	8.0	10.9	6	9	-	-	823650	823742	-	-	-	-
						1.0	0.2	304	23.6		8.1		30.3		90.1		6.4		8.1		5		-				-		-	
					Middle	9.4	0.2	106	23.3	23.3	8.1	8.1	31.9	31.9	88.7	88.7	6.3		11.3		8		-				-		-	
						9.4	0.2	107	23.3		8.1		31.9		88.7		6.3		11.3		10		-				-		-	
					Bottom	17.8	0.3	202	23.2	23.2	8.0	8.0	32.3	32.3	88.3	88.3	6.3	6.3	13.3		12		-				-		-	
						17.8	0.3	214	23.2		8.0		32.3		88.2		6.3		13.3		11		-				-		-	
SR8	Cloudy	Moderate	17:40	4.1	Surface	1.0	-	-	24.3	24.3	8.0	8.0	26.9	26.9	95.0	95.0	6.8	6.8	9.4	9.3	12	11	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.3		8.0		26.9		95.0		6.8		9.4		11		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	24.3	24.3	8.0	8.0	26.8	26.8	94.8	94.8	6.8	6.8	9.2		10		-				-		-	
						3.1	-	-	24.3		8.0		26.8		94.7		6.8		9.2		10		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 17 April 18 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	13:08	9.1	Surface	1.0	0.4	201	22.6	22.6	8.2	8.2	32.9	32.9	104.2	104.2	7.4	7.4	11.9	13.8	9	10	83	85	815628	804230	<0.2	<0.2	1.7	1.7
						1.0	0.4	204	22.6		8.2		32.9		104.2		7.4		12.1		9		83				<0.2		1.8	
					Middle	4.6	0.4	220	22.6	22.6	8.2	8.2	33.8	33.8	103.3	103.3	7.3		13.4		10		86				<0.2		1.7	
						4.6	0.4	241	22.6		8.2		33.8		103.3		7.3		13.5		10		85				<0.2		1.6	
					Bottom	8.1	0.4	215	22.6	22.6	8.2	8.2	33.8	33.8	103.1	103.1	7.3	7.3	15.9		11		87				<0.2		1.6	
						8.1	0.4	232	22.6		8.2		33.8		103.1		7.3		16.0		10		87				<0.2		1.6	
C2	Cloudy	Moderate	12:09	11.4	Surface	1.0	0.3	162	22.6	22.6	8.0	8.0	29.0	29.0	94.9	95.0	6.9	7.0	16.8	17.5	13	14	83	86	825670	806916	<0.2	<0.2	1.9	1.8
						1.0	0.4	170	22.6		8.0		29.0		95.0		6.9		16.9		13		84				<0.2		1.8	
					Middle	5.7	0.3	165	22.3	22.3	8.0	8.0	30.1	30.1	95.6	95.6	7.0		17.2		15		85				<0.2		1.7	
						5.7	0.3	175	22.3		8.0		30.1		95.6		7.0		17.1		15		86				<0.2		1.8	
					Bottom	10.4	0.4	140	22.3	22.3	8.0	8.0	30.3	30.3	95.6	95.8	7.0	7.0	18.7		15		88				<0.2		1.9	
						10.4	0.4	151	22.3		8.0		30.2		95.9		7.0		18.2		14		88				<0.2		1.6	
C3	Cloudy	Moderate	13:55	12.5	Surface	1.0	0.6	70	22.9	22.9	8.0	8.0	31.3	31.3	91.6	91.7	6.6	6.6	17.3	17.1	16	17	86	88	822091	817819	<0.2	<0.2	1.1	1.1
						1.0	0.6	73	22.9		8.0		31.3		91.7		6.6		17.3		16		86				<0.2		1.2	
					Middle	6.3	0.4	91	22.8	22.8	8.0	8.0	31.4	31.4	92.2	92.2	6.6		17.1		16		88				<0.2		1.1	
						6.3	0.4	95	22.8		8.0		31.4		92.2		6.6		17.0		15		88				<0.2		1.1	
					Bottom	11.5	0.3	82	22.8	22.8	8.0	8.0	31.5	31.5	93.9	94.0	6.7	6.7	16.8		17		89				<0.2		1.0	
						11.5	0.4	90	22.8		8.0		31.5		94.0		6.7		16.9		19		90				<0.2		1.1	
IM1	Cloudy	Moderate	12:50	7.7	Surface	1.0	0.2	225	22.5	22.5	8.2	8.2	32.6	32.6	101.7	101.7	7.3	7.4	12.1	12.3	13	13	83	85	818371	806473	<0.2	<0.2	1.6	1.5
						1.0	0.2	246	22.5		8.2		32.6		101.7		7.3		12.1		12		83				<0.2		1.5	
					Middle	3.9	0.2	185	22.5	22.5	8.2	8.2	33.0	33.0	102.8	102.8	7.4		12.3		13		86				<0.2		1.5	
						3.9	0.2	187	22.5		8.2		33.0		102.8		7.4		12.4		13		85				<0.2		1.6	
					Bottom	6.7	0.2	174	22.6	22.6	8.2	8.2	33.5	33.5	103.0	103.0	7.3	7.3	12.5		14		87				<0.2		1.5	
						6.7	0.2	176	22.6		8.2		33.5		103.1		7.3		12.5		15		87				<0.2		1.4	
IM2	Cloudy	Moderate	12:45	8.7	Surface	1.0	0.3	227	22.7	22.7	8.2	8.2	31.6	31.5	99.7	99.7	7.2	7.3	10.4	11.2	13	14	84	86	818862	806187	<0.2	<0.2	1.4	1.4
						1.0	0.3	239	22.7		8.2		31.5		99.8		7.2		9.9		14		83				<0.2		1.4	
					Middle	4.4	0.2	201	22.5	22.5	8.2	8.2	32.9	33.0	101.8	101.8	7.3		10.9		15		85				<0.2		1.5	
						4.4	0.2	204	22.5		8.2		33.0		101.8		7.3		11.2		14		86				<0.2		1.4	
					Bottom	7.7	0.2	193	22.5	22.5	8.2	8.2	33.2	33.2	101.8	101.8	7.3	7.3	12.5		14		88				<0.2		1.5	
						7.7	0.2	210	22.5		8.2		33.2		101.8		7.3		12.4		14		88				<0.2		1.4	
IM3	Cloudy	Moderate	12:40	8.7	Surface	1.0	0.3	129	22.5	22.5	8.2	8.2	33.0	33.1	101.9	101.9	7.3	7.3	13.5	14.2	14	14	84	86	819403	806044	<0.2	<0.2	1.4	1.5
						1.0	0.3	131	22.5		8.2		33.1		101.9		7.3		13.5		13		84				<0.2		1.3	
					Middle	4.4	0.3	131	22.5	22.5	8.2	8.2	33.1	33.1	101.6	101.6	7.3		13.6		14		86				<0.2		1.4	
						4.4	0.3	136	22.5		8.2		33.1		101.6		7.3		13.9		15		85				<0.2		1.5	
					Bottom	7.7	0.3	149	22.5	22.5	8.2	8.2	33.2	33.2	102.0	102.0	7.3	7.3	15.5		14		88				<0.2		1.5	
						7.7	0.3	149	22.5		8.2		33.2		102.1		7.3		15.5		14		88				<0.2		1.7	
IM4	Cloudy	Moderate	12:32	8.8	Surface	1.0	0.3	131	22.5	22.5	8.2	8.2	32.5	32.5	102.6	102.6	7.4	7.4	13.0	13.3	9	12	84	87	819591	805068	<0.2	<0.2	1.5	1.7
						1.0	0.3	134	22.5		8.2		32.5		102.7		7.4		12.3		9		85				<0.2		1.7	
					Middle	4.4	0.1	158	22.5	22.5	8.2	8.2	32.9	32.9	103.0	103.0	7.4		13.3		13		87				<0.2		1.6	
						4.4	0.2	159	22.5		8.2		32.9		103.0		7.4		13.5		13		87				<0.2		1.7	
					Bottom	7.8	0.1	148	22.5	22.5	8.2	8.2	33.3	33.3	103.0	103.0	7.3	7.3	13.9		14		89				<0.2		1.7	
						7.8	0.1	156	22.5		8.2		33.3		103.0		7.3		14.0		14		89				<0.2		1.7	
IM5	Cloudy	Moderate	12:22	7.2	Surface	1.0	0.2	171	22.4	22.4	8.2	8.2	32.6	32.6	101.3	101.3	7.3	7.3	14.6	14.4	14	15	84	85	820552	804920	<0.2	<0.2	1.6	1.5
						1.0	0.2	180	22.4		8.2		32.6		101.3		7.3		14.6		16		83				<0.2		1.4	
					Middle	3.6	0.2	179	22.4	22.4	8.2	8.2	32.7	32.7	101.3	101.3	7.3		14.7		14		85				<0.2		1.4	
						3.6	0.2	187	22.4		8.2		32.7		101.3		7.3		14.5		15		85				<0.2		1.6	
					Bottom	6.2	0.2	180	22.4	22.4	8.2	8.2	32.8	32.8	101.8	101.8	7.3	7.3	14.0		15		87				<0.2		1.4	
						6.2	0.2	190	22.4		8.2		32.8		101.9		7.3		14.1		16		87				<0.2		1.5	
IM6	Cloudy	Moderate	12:14	7.6	Surface	1.0	0.3	105	22.5	22.5	8.2	8.2	32.4	32.5	101.7	101.7	7.3	7.3	14.6	15.3	12	14	83	86	821031	805830	<0.2	<0.2	1.4	1.5
						1.0	0.3	108	22.4		8.2		32.5		101.7		7.3		14.8		14		84				<0.2		1.4	
					Middle	3.8	0.2	120	22.4	22.4	8.2	8.2	32.8	32.8	101.5	101.5	7.3		15.7		14		85				<0.2		1.4	
						3.8	0.2	126	22.4		8.2		32.8		101.5		7.3		15.9		13		85				<0.2		1.5	
					Bottom	6.6	0.2	150	22.4	22.4	8.2	8.2	32.9	32.9	102.1	102.1	7.3	7.3	15.4		14		88				<0.2		1.5	
						6.6	0.2	156	22.4		8.2		32.9		102.1		7.3		15.5		16		88				<0.2		1.5	
IM7	Cloudy	Moderate	12:08	8.9	Surface	1.0	0.2	117	22.3	22.3	8.2	8.2	32.1	32.1	98.9	98.9	7.1	7.1	14.7	14.4	18	18	83	86	821339	806806	<0.2	<0.2	1.6	1.6
						1.0	0.2	119	22.3		8.2		32.1		98.9		7.1		15.3		17		83				<0.2		1.6	
					Middle	4.5	0.2	92	22.3	22.3	8.2	8.2	32.1	32.1	99.0	99.0	7.1		14.3		17		86				<0.2		1.6	
						4.5	0.2	98	22.3		8.2		32.1		99.0		7.1		14.5		17		86				<0.2		1.4	
					Bottom	7.9	0.2	90	22.3	22.3	8.2	8.2	32.1	32.2	99.2	99.4	7.2	7.2	14.0		18		88				<0.2		1.7	
						7.9	0.2	90	22.3		8.2		32.2		99.6		7.2		13.7		18		87				<0.2		1.7	
IM8	Cloudy	Moderate	12:32	8.4	Surface	1.0	0.3	115	23.0	23.0	8.0	8.0	29.3	29.3	97.1	97.1	7.0	7.1	11.4	14.7	10	12	84	86	821701	807842	<0.2	<0.2	1.8	1.8
						1.0	0.4	116	23.0		8.0		29.3		97.1		7.0		11.4		11		84				<0.2		1.8	
					Middle	4.2	0.3	62	22.2	22.2	8.1	8.1	32.1	32.1	98.9	98.9	7.2		15.3		13		85				<0.2		1.7	
						4.2	0.3	63	22.2		8.1		32.1		98.9		7.2		15.2		13		86				<0.2		2.0	
					Bottom	7.4	0.3	53	22.2	22.2	8.1	8.1	32.4	32.4	99.7	99.7	7.2	7.2	17.5		13		88				<0.2		1.8	
						7.4	0.3	57	22.2		8.1		32.4		99.7		7.2		17.5		13		88				<0.2		1.9	

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 17 April 18 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	12:40	7.4	Surface	1.0	0.5	109	22.6	22.6	8.0	8.0	29.8	29.8	97.4	97.4	7.1	7.1	12.6	16.4	11	12	83	86	822070	808839	<0.2	<0.2	1.8	1.8
						1.0	0.5	113	22.6		8.0		29.8		97.4		7.1		12.7		11		83				<0.2		1.8	
					Middle	3.7	0.5	83	22.3	22.3	8.1	8.1	31.2	31.2	98.4	98.5	7.1		15.4		13		86				<0.2		1.8	
						3.7	0.5	83	22.3		8.1		31.2		98.5		7.1		15.5		12		86				<0.2		1.7	
					Bottom	6.4	0.4	69	22.2	22.2	8.1	8.1	32.0	32.0	98.9	99.0	7.2	7.2	21.2		11		88				<0.2		1.8	
						6.4	0.4	72	22.2		8.1		32.0		99.1		7.2		21.2		11		88				<0.2		1.8	
IM10	Cloudy	Moderate	12:48	7.9	Surface	1.0	0.6	107	22.6	22.6	8.0	8.0	29.8	29.8	96.6	96.7	7.0	7.0	12.4	14.6	11	12	84	87	822263	809839	<0.2	<0.2	1.8	1.8
						1.0	0.6	108	22.6		8.0		29.8		96.7		7.0		12.4		11		84				<0.2		2.0	
					Middle	4.0	0.6	97	22.3	22.3	8.1	8.1	30.7	30.7	96.6	96.6	7.0		14.7		12		88				<0.2		1.7	
						4.0	0.6	106	22.3		8.1		30.7		96.6		7.0		14.7		12		88				<0.2		1.8	
					Bottom	6.9	0.4	80	22.2	22.2	8.1	8.1	31.7	31.7	98.1	98.1	7.1	7.1	16.7		13		89				<0.2		1.8	
						6.9	0.4	87	22.2		8.1		31.7		98.1		7.1		16.8		13		90				<0.2		1.8	
IM11	Cloudy	Moderate	13:02	8.0	Surface	1.0	0.6	107	22.7	22.7	8.0	8.0	29.7	29.7	97.1	97.1	7.1	7.1	12.0	16.2	9	11	84	86	821491	810568	<0.2	<0.2	1.7	1.8
						1.0	0.6	110	22.7		8.0		29.7		97.1		7.1		11.9		10		84				<0.2		1.8	
					Middle	4.0	0.5	96	22.5	22.5	8.1	8.1	30.9	30.9	97.6	97.6	7.1		16.9		11		85				<0.2		1.6	
						4.0	0.5	97	22.5		8.1		30.9		97.6		7.1		17.1		9		86				<0.2		1.9	
					Bottom	7.0	0.4	62	22.3	22.3	8.1	8.1	31.5	31.5	98.1	98.2	7.1	7.1	19.8		13		88				<0.2		1.7	
						7.0	0.4	67	22.3		8.1		31.5		98.3		7.1		19.7		15		88				<0.2		1.8	
IM12	Cloudy	Moderate	13:10	8.9	Surface	1.0	0.4	107	22.5	22.5	8.2	8.2	30.5	30.5	96.5	96.5	7.0	7.0	16.0	18.5	10	10	84	86	821143	811490	<0.2	<0.2	1.5	1.6
						1.0	0.4	116	22.5		8.2		30.5		96.5		7.0		16.1		10		84				<0.2		1.6	
					Middle	4.5	0.5	96	22.5	22.5	8.2	8.2	30.8	30.8	96.8	96.8	7.0		19.1		10		86				<0.2		1.5	
						4.5	0.5	98	22.5		8.2		30.8		96.8		7.0		19.2		9		86				<0.2		1.6	
					Bottom	7.9	0.5	86	22.4	22.4	8.1	8.1	31.1	31.1	97.9	98.0	7.1	7.1	20.3		10		89				<0.2		1.6	
						7.9	0.5	88	22.4		8.1		31.1		98.0		7.1		20.4		12		89				<0.2		1.6	
SR2	Cloudy	Moderate	13:35	4.3	Surface	1.0	0.4	69	22.6	22.6	8.1	8.1	30.1	30.1	94.5	94.6	6.9	6.9	16.4	17.7	12	13	85	87	821486	814136	<0.2	<0.2	1.0	1.1
						1.0	0.5	69	22.6		8.1		30.1		94.7		6.9		16.5		14		85				<0.2		1.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.4	65	22.6	22.6	8.0	8.0	30.1	30.1	97.0	97.1	7.0	7.1	18.8		13		88				<0.2		1.1	
						3.3	0.4	67	22.6		8.0		30.1		97.1		7.1		18.9		14		88				<0.2		1.0	
SR3	Cloudy	Moderate	12:27	9.2	Surface	1.0	0.3	136	22.6	22.6	8.0	8.0	29.7	29.7	96.7	96.8	7.0	7.1	13.5	17.7	11	12	-	-	822144	807575	-	-	-	-
						1.0	0.3	146	22.6		8.0		29.7		96.9		7.1		13.4		13		-				-		-	
					Middle	4.6	0.3	78	22.2	22.2	8.1	8.1	32.0	32.0	97.9	97.9	7.1		17.8		12		-				-		-	
						4.6	0.3	80	22.2		8.1		32.0		97.9		7.1		17.9		12		-				-		-	
					Bottom	8.2	0.3	59	22.2	22.2	8.1	8.1	32.2	32.2	98.1	98.1	7.1	7.1	21.9		10		-				-		-	
						8.2	0.4	61	22.2		8.1		32.2		98.1		7.1		21.9		12		-				-		-	
SR4A	Cloudy	Calm	13:29	8.8	Surface	1.0	0.3	51	22.6	22.6	8.2	8.2	33.1	33.1	101.8	101.7	7.3	7.3	14.2	15.3	12	14	-	-	817214	807813	-	-	-	-
						1.0	0.3	52	22.6		8.2		33.2		101.7		7.3		14.1		11		-				-		-	
					Middle	4.4	0.3	70	22.5	22.5	8.2	8.2	33.5	33.5	101.3	101.3	7.2		15.8		14		-				-		-	
						4.4	0.3	70	22.5		8.2		33.5		101.3		7.2		16.0		14		-				-		-	
					Bottom	7.8	0.2	61	22.5	22.5	8.2	8.2	33.5	33.5	101.9	101.9	7.3	7.3	15.8		15		-				-		-	
						7.8	0.2	61	22.5		8.2		33.5		101.9		7.3		15.9		15		-				-		-	
SR5A	Cloudy	Calm	13:45	4.3	Surface	1.0	0.1	88	22.5	22.5	8.1	8.1	29.4	29.4	95.0	95.1	6.9	7.0	14.6	15.2	10	12	-	-	816574	810704	-	-	-	-
						1.0	0.1	91	22.5		8.1		29.4		95.2		7.0		14.9		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	115	22.4	22.4	8.1	8.1	31.4	31.3	98.9	99.0	7.2	7.2	15.6		13		-				-		-	
						3.3	0.1	125	22.4		8.1		31.3		99.1		7.2		15.7		14		-				-		-	
SR6	Cloudy	Calm	14:07	4.0	Surface	1.0	0.1	356	22.8	22.8	8.1	8.1	29.0	29.0	92.3	92.3	6.7	6.7	9.2	8.7	6	7	-	-	817928	814690	-	-	-	-
						1.0	0.1	328	22.8		8.1		29.0		92.4		6.7		9.1		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	335	22.8	22.8	8.1	8.1	29.1	29.1	95.0	95.1	6.9	6.9	8.4		6		-				-		-	
						3.0	0.1	345	22.8		8.1		29.1		95.3		6.9		8.3		8		-				-		-	
SR7	Cloudy	Moderate	14:22	20.3	Surface	1.0	1.0	74	23.1	23.1	8.0	8.0	30.9	30.9	93.6	93.6	6.7	6.7	8.2	9.4	9	10	-	-	823610	823718	-	-	-	-
						1.0	1.0	75	23.1		8.0		30.9		93.5		6.7		8.2		10		-				-		-	
					Middle	10.2	0.5	58	22.9	22.9	8.0	8.0	31.9	31.9	91.8	91.8	6.6		9.7		10		-				-		-	
						10.2	0.5	62	22.9		8.0		31.9		91.8		6.6		9.7		12		-				-		-	
					Bottom	19.3	0.4	18	22.8	22.8	8.0	8.0	32.1	32.1	91.8	91.8	6.6	6.6	10.2		10		-				-		-	
						19.3	0.4	18	22.8		8.0		32.1		91.8		6.6		10.1		10		-				-		-	
SR8	Cloudy	Moderate	13:18	4.0	Surface	1.0	-	-	22.9	22.9	8.1	8.1	29.8	29.8	95.0	95.1	6.9	6.9	15.9	18.1	10	11	-	-	820246	811418	-	-	-	-
						1.0	-	-	22.9		8.1		29.8		95.1		6.9		16.1		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	22.6	22.6	8.1	8.1	30.1	30.0	96.1	96.4	7.0	7.0	20.1		11		-				-		-	
						3.0	-	-	22.7		8.1		30.0		96.6		7.0		20.3		10		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 17 April 18 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	07:46	8.5	Surface	1.0	0.6	55	22.2	22.2	8.2	8.2	32.1	32.1	98.4	98.4	7.1	7.1	15.5	19.8	24	28	85	89	815610	804244	<0.2	<0.2	1.5	1.5
						1.0	0.6	57	22.2		8.2		32.1		98.4		7.1		15.7		24		85				<0.2		1.5	
					Middle	4.3	0.5	50	22.2	22.2	8.2	8.2	32.1	32.1	98.0	98.0	7.1		16.9		29		88				<0.2		1.5	
						4.3	0.6	53	22.2		8.2		32.1		98.0		7.1		17.8		31		88				<0.2		1.5	
					Bottom	7.5	0.5	48	22.3	22.3	8.2	8.2	32.2	32.2	98.0	98.0	7.1	7.1	26.6		30		93				<0.2		1.5	
						7.5	0.6	49	22.3		8.2		32.2		98.1		7.1		26.5		32		92				<0.2		1.5	
C2	Rainy	Moderate	08:10	12.1	Surface	1.0	0.5	346	22.6	22.6	7.9	7.9	27.7	27.7	91.7	91.7	6.8	6.8	12.3	13.1	7	8	85	88	825680	806946	<0.2	<0.2	2.1	2.2
						1.0	0.5	356	22.6		7.9		27.7		91.7		6.8		12.4		8		85				<0.2		2.3	
					Middle	6.1	0.6	353	22.9	22.9	8.0	8.0	28.7	28.7	92.3	92.3	6.7		13.2		9		88				<0.2		2.2	
						6.1	0.7	325	22.9		8.0		28.7		92.3		6.7		13.2		7		88				<0.2		2.2	
					Bottom	11.1	0.5	343	22.9	22.9	8.0	8.0	28.7	28.7	93.5	93.7	6.8	6.8	13.6		8		89				<0.2		2.2	
						11.1	0.5	345	22.9		8.0		28.7		93.9		6.8		13.7		9		90				<0.2		2.2	
C3	Rainy	Moderate	06:27	11.2	Surface	1.0	0.6	266	22.6	22.6	8.0	8.0	30.0	30.0	92.5	92.5	6.7	6.6	12.2	14.1	8	8	84	86	822079	817774	<0.2	<0.2	1.7	1.9
						1.0	0.6	279	22.6		8.0		30.0		92.4		6.7		12.4		8		84				<0.2		1.9	
					Middle	5.6	0.6	268	22.9	22.9	8.0	8.0	31.4	31.4	91.0	91.0	6.5		15.8		7		85				<0.2		2.0	
						5.6	0.6	269	22.9		8.0		31.4		90.9		6.5		15.9		8		85				<0.2		2.0	
					Bottom	10.2	0.4	273	22.9	22.9	8.0	8.0	31.4	31.4	91.8	91.9	6.6	6.6	14.2		7		88				<0.2		2.0	
						10.2	0.5	279	22.9		8.0		31.4		91.9		6.6		14.3		7		88				<0.2		1.9	
IM1	Cloudy	Moderate	08:02	7.6	Surface	1.0	0.8	343	22.2	22.2	8.2	8.2	30.8	30.8	96.5	96.5	7.0	7.0	12.7	19.2	9	11	85	87	818375	806444	<0.2	<0.2	1.7	1.7
						1.0	0.8	316	22.2		8.2		30.8		96.5		7.0		13.0		9		85				<0.2		1.8	
					Middle	3.8	0.8	351	22.3	22.3	8.2	8.2	31.1	31.2	96.4	96.4	7.0		20.7		11		87				<0.2		1.8	
						3.8	0.8	323	22.3		8.2		31.2		96.4		7.0		20.8		10		87				<0.2		1.6	
					Bottom	6.6	0.7	347	22.3	22.3	8.2	8.2	31.4	31.4	96.7	96.7	7.0	7.0	24.3		12		89				<0.2		1.6	
						6.6	0.7	319	22.3		8.2		31.4		96.7		7.0		23.9		14		90				<0.2		1.6	
IM2	Cloudy	Moderate	08:07	8.6	Surface	1.0	0.7	31	22.3	22.3	8.2	8.2	30.6	30.6	96.5	96.5	7.0	7.0	12.3	18.4	9	10	84	87	818861	806189	<0.2	<0.2	1.6	1.6
						1.0	0.7	31	22.3		8.2		30.6		96.5		7.0		12.5		8		84				<0.2		1.6	
					Middle	4.3	0.6	35	22.3	22.3	8.2	8.2	30.7	30.7	96.5	96.5	7.0		18.7		10		86				<0.2		1.5	
						4.3	0.7	38	22.3		8.2		30.7		96.5		7.0		19.0		11		87				<0.2		1.5	
					Bottom	7.6	0.6	35	22.3	22.3	8.2	8.2	31.9	31.9	96.8	96.8	7.0	7.0	24.2		11		89				<0.2		1.6	
						7.6	0.6	35	22.3		8.2		31.8		96.8		7.0		23.5		12		89				<0.2		1.6	
IM3	Cloudy	Moderate	08:12	8.5	Surface	1.0	0.6	45	22.3	22.3	8.2	8.2	30.4	30.4	96.3	96.2	7.0	7.0	11.5	18.9	8	9	85	88	819401	806046	<0.2	<0.2	1.6	1.6
						1.0	0.7	48	22.3		8.2		30.4		96.2		7.0		12.3		8		85				<0.2		1.6	
					Middle	4.3	0.7	40	22.3	22.3	8.2	8.2	30.6	30.6	96.3	96.3	7.0		15.5		8		87				<0.2		1.6	
						4.3	0.7	42	22.3		8.2		30.6		96.3		7.0		16.6		8		88				<0.2		1.6	
					Bottom	7.5	0.6	41	22.2	22.2	8.2	8.2	31.6	31.6	97.4	97.4	7.1	7.1	29.5		9		91				<0.2		1.5	
						7.5	0.6	44	22.2		8.2		31.6		97.4		7.1		28.3		10		90				<0.2		1.6	
IM4	Rainy	Moderate	08:20	8.0	Surface	1.0	0.5	354	22.3	22.3	8.1	8.1	29.9	29.9	96.1	96.1	7.0	7.0	10.7	19.0	11	11	85	88	819582	805020	<0.2	<0.2	1.6	1.7
						1.0	0.5	326	22.3		8.1		29.9		96.1		7.0		10.7		10		86				<0.2		1.7	
					Middle	4.0	0.5	3	22.2	22.2	8.2	8.2	31.4	31.4	96.9	96.9	7.0		22.6		11		89				<0.2		1.7	
						4.0	0.5	3	22.2		8.2		31.4		96.9		7.0		22.9		10		88				<0.2		1.7	
					Bottom	7.0	0.4	6	22.2	22.2	8.2	8.2	31.6	31.6	97.3	97.3	7.0	7.1	23.5		13		91				<0.2		1.6	
						7.0	0.4	6	22.2		8.2		31.6		97.4		7.1		23.5		11		91				<0.2		1.6	
IM5	Rainy	Rough	08:30	7.2	Surface	1.0	0.7	354	22.2	22.2	8.1	8.1	30.2	30.2	96.7	96.7	7.1	7.1	15.3	19.9	18	17	86	89	820566	804950	<0.2	<0.2	1.5	1.5
						1.0	0.8	326	22.2		8.1		30.2		96.8		7.1		15.3		18		86				<0.2		1.5	
					Middle	3.6	0.7	357	22.2	22.2	8.1	8.1	30.7	30.7	97.1	97.1	7.1		21.5		17		89				<0.2		1.5	
						3.6	0.7	328	22.2		8.1		30.7		97.2		7.1		21.6		18		88				<0.2		1.5	
					Bottom	6.2	0.7	356	22.2	22.2	8.2	8.2	30.9	30.9	97.7	97.7	7.1	7.1	22.9		16		91				<0.2		1.6	
						6.2	0.8	328	22.2		8.2		30.9		97.8		7.1		22.9		16		91				<0.2		1.5	
IM6	Rainy	Moderate	08:38	7.3	Surface	1.0	0.4	28	22.3	22.3	8.2	8.2	30.4	30.4	95.8	95.8	7.0	7.0	20.6	20.5	22	23	85	88	821081	805837	<0.2	<0.2	1.5	1.5
						1.0	0.4	28	22.3		8.2		30.4		95.8		7.0		20.3		21		85				<0.2		1.5	
					Middle	3.7	0.4	33	22.3	22.3	8.2	8.2	30.4	30.4	95.8	95.8	7.0		20.5		22		88				<0.2		1.6	
						3.7	0.4	33	22.3		8.2		30.4		95.8		7.0		20.7		22		88				<0.2		1.5	
					Bottom	6.3	0.4	35	22.3	22.3	8.2	8.2	30.4	30.4	96.0	96.0	7.0	7.0	20.5		25		91				<0.2		1.5	
						6.3	0.4	36	22.3		8.2		30.4		96.1		7.0		20.2		23		91				<0.2		1.6	
IM7	Rainy	Moderate	08:54	8.7	Surface	1.0	0.6	19	22.3	22.3	8.2	8.2	30.2	30.2	95.6	95.6	7.0	7.0	12.2	14.2	14	15	84	87	821330	806834	<0.2	<0.2	1.6	1.6
						1.0	0.6	19	22.3		8.2		30.2		95.6		7.0		12.4		14		85				<0.2		1.6	
					Middle	4.4	0.7	12	22.4	22.4	8.2	8.2	30.3	30.3	96.5	96.5	7.0		15.7		15		87				<0.2		1.6	
						4.4	0.7	13	22.4		8.2		30.3		96.6		7.0		15.9		16		87				<0.2		1.5	
					Bottom	7.7	0.6	7	22.4	22.4	8.2	8.2	30.5	30.5	98.8	98.8	7.2	7.2	14.5		14		89				<0.2		1.5	
						7.7	0.6	7	22.4		8.2		30.5		98.9		7.2		14.4		15		89				<0.2		1.6	
IM8	Rainy	Moderate	07:46	8.2	Surface	1.0	0.2	66	22.6	22.6	8.1	8.1	28.7	28.8	94.0	94.0	6.9	6.9	16.8	19.2	13	13	83	86	821711	807839	<0.2	<0.2	1.8	1.8
						1.0	0.2	67	22.6		8.1		28.8		94.0		6.9		16.7		12		84				<0.2		1.8	
					Middle	4.1	0.3	52	22.6	22.6	8.2	8.2	29.0	29.0	94.5	94.6	6.9		20.3		11		86				<0.2		1.7	
						4.1	0.3	54	22.6		8.2		29.0		94.6		6.9		20.4		12		86				<0.2		1.8	
					Bottom	7.2	0.3	51	22.6	22.6	8.2	8.2	29.0	29.0	95.7	95.8	7.0	7.0	20.4		16		88				<0.2		1.9	
						7.2	0.3	51	22.6		8.2		29.0		95.8		7.0		20.3		14		88				<0.2		1.9	

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 17 April 18 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	07:38	7.4	Surface	1.0	0.3	339	22.7	22.7	8.0	8.0	29.4	29.4	94.4	94.4	6.9	6.9	18.3	19.4	19	20	84	86	822082	808793	<0.2	<0.2	1.6	1.6
						1.0	0.4	312	22.7		8.0		29.4		94.4		6.9		18.6		20		84				<0.2		1.5	
					Middle	3.7	0.3	339	22.7	22.7	8.0	8.0	29.4	29.4	94.8	94.9	6.9		19.3		19		85				<0.2		1.6	
						3.7	0.4	349	22.7		8.0		29.4		94.9		6.9		19.2		20		86				<0.2		1.7	
					Bottom	6.4	0.3	335	22.7	22.7	8.0	8.0	29.4	29.4	97.6	97.7	7.1	7.1	20.3		20		88				<0.2		1.6	
						6.4	0.3	336	22.7		8.0		29.4		97.7		7.1		20.6		22		89				<0.2		1.6	
IM10	Rainy	Moderate	07:31	6.7	Surface	1.0	0.6	311	22.5	22.5	8.0	8.0	29.7	29.7	94.6	94.6	6.9	6.9	16.8	19.6	20	21	85	88	822232	809851	<0.2	<0.2	1.6	1.6
						1.0	0.6	330	22.5		8.0		29.7		94.6		6.9		16.9		21		86				<0.2		1.5	
					Middle	3.4	0.5	315	22.5	22.5	8.0	8.0	29.7	29.7	94.8	94.9	6.9		19.1		23		88				<0.2		1.5	
						3.4	0.6	343	22.5		8.0		29.7		94.9		6.9		19.1		22		88				<0.2		1.6	
					Bottom	5.7	0.5	315	22.5	22.5	8.0	8.0	29.7	29.7	95.3	95.4	7.0	7.0	22.7		21		89				<0.2		1.6	
						5.7	0.5	316	22.5		8.0		29.7		95.4		7.0		22.7		21		90				<0.2		1.5	
IM11	Rainy	Moderate	07:16	7.1	Surface	1.0	0.5	280	22.5	22.5	8.1	8.1	29.8	29.8	94.6	94.7	6.9	6.9	16.1	19.1	19	21	85	87	821512	810557	<0.2	<0.2	1.6	1.6
						1.0	0.5	297	22.5		8.1		29.8		94.7		6.9		15.8		21		86				<0.2		1.6	
					Middle	3.6	0.5	287	22.4	22.4	8.0	8.0	29.7	29.7	94.8	94.8	6.9		20.3		20		87				<0.2		1.6	
						3.6	0.5	300	22.4		8.0		29.7		94.8		6.9		20.2		21		88				<0.2		1.6	
					Bottom	6.1	0.4	292	22.5	22.5	8.1	8.1	29.9	29.9	95.6	95.6	7.0	7.0	21.1		23		89				<0.2		1.6	
						6.1	0.5	318	22.5		8.1		29.9		95.6		7.0		21.1		21		89				<0.2		1.5	
IM12	Rainy	Moderate	07:09	8.7	Surface	1.0	0.9	275	22.5	22.5	8.0	8.0	29.8	29.8	93.9	93.9	6.8	6.9	15.3	16.9	10	11	85	87	821143	811527	<0.2	<0.2	1.8	1.8
						1.0	1.0	285	22.5		8.0		29.8		93.9		6.8		15.3		12		85				<0.2		1.8	
					Middle	4.4	0.8	278	22.5	22.5	8.0	8.0	30.0	30.0	94.4	94.5	6.9		16.7		11		88				<0.2		1.8	
						4.4	0.9	300	22.5		8.0		30.0		94.6		6.9		16.9		10		88				<0.2		1.8	
					Bottom	7.7	0.6	287	22.5	22.5	8.0	8.0	30.1	30.1	95.0	95.1	6.9	6.9	18.4		10		89				<0.2		1.8	
						7.7	0.6	290	22.5		8.0		30.1		95.2		6.9		18.5		11		89				<0.2		1.8	
SR2	Rainy	Moderate	06:46	4.5	Surface	1.0	0.2	93	22.5	22.5	8.0	8.0	29.6	29.6	93.6	93.6	6.8	6.8	19.2	18.9	14	16	85	87	821483	814166	<0.2	<0.2	1.7	1.8
						1.0	0.2	96	22.5		8.0		29.6		93.6		6.8		19.0		14		85				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	68	22.6	22.6	8.0	8.0	29.9	29.9	93.5	93.5	6.8	6.8	18.6		18		88				<0.2		1.7	
						3.5	0.2	73	22.6		8.0		29.9		93.5		6.8		18.6		18		88				<0.2		1.8	
SR3	Rainy	Moderate	07:51	8.8	Surface	1.0	0.3	14	22.7	22.7	8.0	8.0	28.0	28.0	93.0	93.0	6.8	6.9	11.2	16.6	9	8	-	-	822162	807584	-	-	-	-
						1.0	0.3	14	22.7		8.0		28.0		92.9		6.8		11.3		7		-				-		-	
					Middle	4.4	0.4	18	22.7	22.7	8.0	8.0	28.4	28.4	93.9	94.1	6.9		16.3		8		-				-		-	
						4.4	0.4	19	22.7		8.0		28.4		94.3		6.9		16.4		8		-				-		-	
					Bottom	7.8	0.4	21	22.7	22.7	8.0	8.0	28.9	28.9	95.4	95.6	7.0	7.0	22.2		8		-				-		-	
						7.8	0.4	21	22.7		8.0		28.9		95.7		7.0		22.1		7		-				-		-	
SR4A	Cloudy	Calm	07:24	9.1	Surface	1.0	0.3	255	22.4	22.4	8.1	8.1	29.9	29.9	89.5	89.5	6.5	6.6	14.8	15.6	13	14	-	-	817172	807802	-	-	-	-
						1.0	0.4	280	22.4		8.1		29.9		89.6		6.5		14.8		12		-				-		-	
					Middle	4.6	0.2	253	22.4	22.4	8.1	8.1	30.1	30.1	90.0	90.0	6.6		16.6		14		-				-		-	
						4.6	0.2	261	22.3		8.1		30.1		90.0		6.6		16.6		14		-				-		-	
					Bottom	8.1	0.1	285	22.3	22.3	8.1	8.1	30.2	30.2	91.0	91.0	6.6	6.6	15.6		15		-				-		-	
						8.1	0.1	308	22.3		8.1		30.2		91.1		6.6		15.4		17		-				-		-	
SR5A	Cloudy	Calm	06:55	4.3	Surface	1.0	0.4	296	22.5	22.5	8.1	8.1	29.1	29.1	92.6	92.6	6.8	6.8	13.1	13.1	10	12	-	-	816598	810710	-	-	-	-
						1.0	0.5	309	22.5		8.1		29.1		92.7		6.8		13.3		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.4	295	22.5	22.5	8.1	8.1	29.1	29.1	98.1	99.5	7.2	7.3	13.1		14		-				-		-	
						3.3	0.4	321	22.5		8.1		29.1		100.9		7.4		13.1		15		-				-		-	
SR6	Cloudy	Calm	06:34	4.0	Surface	1.0	0.2	251	22.6	22.6	8.1	8.1	28.8	28.8	89.1	89.1	6.5	6.5	8.3	9.4	6	6	-	-	817897	814649	-	-	-	-
						1.0	0.2	258	22.6		8.1		28.8		89.2		6.5		8.8		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	251	22.8	22.8	8.1	8.1	29.6	29.6	90.4	90.4	6.6	6.6	10.1		5		-				-		-	
						3.0	0.3	273	22.8		8.1		29.6		90.4		6.6		10.3		6		-				-		-	
SR7	Rainy	Moderate	05:53	19.6	Surface	1.0	0.1	200	22.7	22.7	8.0	8.0	30.4	30.4	94.0	94.0	6.8	6.8	8.7	8.7	5	6	-	-	823656	823726	-	-	-	-
						1.0	0.1	217	22.7		8.0		30.4		94.0		6.8		8.8		6		-				-		-	
					Middle	9.8	0.1	197	22.7	22.7	8.0	8.0	30.4	30.4	93.6	93.6	6.8		8.6		6		-				-		-	
						9.8	0.1	212	22.7		8.0		30.4		93.6		6.8		8.6		6		-				-		-	
					Bottom	18.6	0.3	203	22.8	22.8	8.0	8.0	30.6	30.6	95.6	95.6	6.9	6.9	8.8		6		-				-		-	
						18.6	0.3	212	22.8		8.0		30.6		95.6		6.9		8.8		5		-				-		-	
SR8	Rainy	Moderate	07:02	3.8	Surface	1.0	-	-	22.5	22.5	8.0	8.0	29.4	29.4	95.6	95.7	7.0	7.0	15.8	16.3	15	17	-	-	820246	811418	-	-	-	-
						1.0	-	-	22.5		8.0		29.4		95.8		7.0		15.9		16		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	-	-	22.4	22.4	8.0	8.0	29.4	29.4	95.9	96.0	7.0	7.0	16.7		18		-				-		-	
						2.8	-	-	22.4		8.0		29.4		96.0		7.0		16.8		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 19 April 18 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	14:27	8.9	Surface	1.0	0.5	178	23.1	23.1	8.2	8.2	32.6	32.6	103.5	103.5	7.4	7.4	10.3	12.5	8	10	83	86	815612	804219	<0.2	<0.2	2.0	2.0
						1.0	0.5	188	23.1		8.2		32.6		103.5		7.4		10.5		9		83				<0.2		1.9	
					Middle	4.5	0.5	187	22.9	22.9	8.2	8.2	32.8	32.8	102.2	102.2	7.3		12.4		10		86				<0.2		1.9	
						4.5	0.5	197	22.9		8.2		32.8		102.2		7.3		12.7		9		86				<0.2		2.0	
					Bottom	7.9	0.4	192	22.8	22.8	8.2	8.2	33.0	33.0	102.0	102.0	7.3	7.3	14.7		11		89				<0.2		2.2	
						7.9	0.4	208	22.8		8.2		33.0		102.0		7.3		14.4		10		89				<0.2		2.2	
C2	Cloudy	Moderate	13:29	12.5	Surface	1.0	0.4	177	23.2	23.2	8.0	8.0	29.6	29.6	91.8	91.8	6.6	6.6	13.4	17.4	6	8	85	88	825662	806964	<0.2	<0.2	1.4	1.4
						1.0	0.4	182	23.2		8.0		29.6		91.7		6.6		13.6		7		85				<0.2		1.4	
					Middle	6.3	0.3	174	22.9	22.9	8.0	8.0	31.0	31.0	90.5	90.5	6.5		17.7		7		88				<0.2		1.4	
						6.3	0.3	184	22.9		8.0		31.0		90.5		6.5		17.8		7		88				<0.2		1.5	
					Bottom	11.5	0.3	174	22.8	22.8	8.0	8.0	31.3	31.3	91.7	91.8	6.6	6.6	20.8		8		89				<0.2		1.5	
						11.5	0.4	177	22.8		8.0		31.3		91.8		6.6		20.8		10		90				<0.2		1.3	
C3	Cloudy	Moderate	15:19	11.7	Surface	1.0	0.3	75	23.2	23.2	8.0	8.0	31.2	31.2	92.4	92.4	6.6	6.6	11.7	12.8	11	12	83	86	822096	817774	<0.2	<0.2	0.7	0.7
						1.0	0.3	80	23.2		8.0		31.2		92.4		6.6		11.8		10		84				<0.2		0.8	
					Middle	5.9	0.3	90	23.1	23.1	8.0	8.0	31.3	31.3	91.3	91.3	6.5		12.7		12		85				<0.2		0.8	
						5.9	0.3	91	23.1		8.0		31.3		91.3		6.5		12.8		12		86				<0.2		0.7	
					Bottom	10.7	0.3	76	23.0	23.0	8.0	8.0	31.6	31.6	90.7	90.7	6.5	6.5	13.9		12		88				<0.2		0.6	
						10.7	0.3	80	23.0		8.0		31.6		90.7		6.5		14.1		13		89				<0.2		0.6	
IM1	Fine	Moderate	14:11	7.8	Surface	1.0	0.2	217	23.5	23.5	8.2	8.2	31.6	31.6	100.7	100.7	7.1	7.2	10.7	11.1	6	8	83	85	818358	806470	<0.2	<0.2	2.1	2.3
						1.0	0.2	229	23.5		8.2		31.6		100.7		7.1		10.9		7		83				<0.2		2.2	
					Middle	3.9	0.2	213	23.2	23.2	8.2	8.2	31.8	31.8	100.5	100.5	7.2		10.9		8		85				<0.2		2.4	
						3.9	0.2	220	23.2		8.2		31.8		100.5		7.2		11.0		7		85				<0.2		2.2	
					Bottom	6.8	0.2	188	22.9	22.9	8.2	8.2	32.4	32.3	100.5	100.5	7.2	7.2	11.6		9		88				<0.2		2.4	
						6.8	0.2	189	22.9		8.2		32.3		100.5		7.2		11.2		11		88				<0.2		2.2	
IM2	Fine	Moderate	14:06	8.7	Surface	1.0	0.2	179	23.5	23.5	8.2	8.2	31.8	31.8	100.8	100.8	7.1	7.1	11.5	12.2	8	8	83	86	818868	806220	<0.2	<0.2	2.3	2.4
						1.0	0.2	183	23.5		8.2		31.8		100.8		7.1		11.7		6		83				<0.2		2.4	
					Middle	4.4	0.2	193	23.3	23.3	8.2	8.2	32.1	32.1	100.2	100.2	7.1		12.7		7		86				<0.2		2.4	
						4.4	0.2	207	23.3		8.2		32.1		100.2		7.1		12.7		9		86				<0.2		2.3	
					Bottom	7.7	0.3	158	22.9	22.9	8.2	8.2	32.1	32.1	100.3	100.4	7.2	7.2	12.3		7		87				<0.2		2.5	
						7.7	0.3	172	23.0		8.2		32.1		100.4		7.2		12.3		9		88				<0.2		2.4	
IM3	Fine	Moderate	14:01	8.8	Surface	1.0	0.3	221	22.9	22.9	8.2	8.2	31.9	31.9	98.8	98.8	7.1	7.1	13.9	15.1	10	12	83	86	819387	806027	<0.2	<0.2	2.4	2.4
						1.0	0.3	223	22.9		8.2		31.9		98.8		7.1		14.0		9		83				<0.2		2.4	
					Middle	4.4	0.2	210	22.7	22.7	8.2	8.2	32.0	32.0	99.0	99.0	7.1		15.8		12		86				<0.2		2.5	
						4.4	0.2	229	22.7		8.2		32.0		99.0		7.1		15.9		12		85				<0.2		2.4	
					Bottom	7.8	0.3	206	22.8	22.8	8.2	8.2	32.1	32.1	99.7	99.8	7.1	7.1	15.7		13		89				<0.2		2.4	
						7.8	0.3	224	22.8		8.2		32.1		99.8		7.1		15.5		13		88				<0.2		2.2	
IM4	Fine	Moderate	13:55	8.0	Surface	1.0	0.3	154	22.9	22.8	8.2	8.2	31.9	31.9	99.6	99.6	7.1	7.1	13.3	14.3	7	9	84	86	819588	805011	<0.2	<0.2	2.5	2.2
						1.0	0.3	163	22.8		8.2		31.9		99.6		7.1		13.2		7		84				<0.2		2.1	
					Middle	4.0	0.3	158	22.7	22.7	8.2	8.2	32.2	32.2	99.4	99.4	7.1		13.8		9		85				<0.2		2.2	
						4.0	0.3	163	22.7		8.2		32.2		99.4		7.1		13.9		10		85				<0.2		1.9	
					Bottom	7.0	0.2	141	22.7	22.7	8.2	8.2	32.4	32.4	99.3	99.3	7.1	7.1	15.6		9		88				<0.2		2.2	
						7.0	0.3	152	22.7		8.2		32.4		99.3		7.1		15.8		10		89				<0.2		2.2	
IM5	Fine	Moderate	13:46	7.6	Surface	1.0	0.3	159	23.1	23.1	8.2	8.2	31.7	31.7	99.6	99.6	7.1	7.1	11.2	13.1	7	10	84	85	820535	804918	<0.2	<0.2	2.1	2.1
						1.0	0.3	164	23.1		8.2		31.7		99.6		7.1		11.4		7		83				<0.2		2.2	
					Middle	3.8	0.3	159	22.8	22.8	8.2	8.2	31.8	31.8	98.6	98.6	7.1		14.0		11		85				<0.2		2.2	
						3.8	0.3	165	22.8		8.2		31.8		98.6		7.1		14.3		11		85				<0.2		1.9	
					Bottom	6.6	0.2	167	22.8	22.8	8.2	8.2	31.8	31.8	99.4	99.4	7.1	7.1	13.8		12		87				<0.2		2.2	
						6.6	0.2	175	22.8		8.2		31.8		99.4		7.1		13.7		11		87				<0.2		2.0	
IM6	Fine	Moderate	13:38	7.5	Surface	1.0	0.2	151	22.9	22.9	8.2	8.2	31.9	31.9	98.1	98.1	7.0	7.0	18.2	18.5	17	17	83	86	821062	805807	<0.2	<0.2	2.2	2.0
						1.0	0.2	160	22.9		8.2		31.9		98.1		7.0		18.0		17		84				<0.2		2.0	
					Middle	3.8	0.1	125	22.8	22.8	8.2	8.2	31.8	31.8	97.9	98.0	7.0		18.9		17		86				<0.2		2.1	
						3.8	0.1	129	22.8		8.2		31.8		98.0		7.0		18.9		17		86				<0.2		1.8	
					Bottom	6.5	0.2	132	22.8	22.8	8.2	8.2	31.8	31.8	98.7	98.8	7.1	7.1	18.6		17		88				<0.2		2.1	
						6.5	0.2	137	22.8		8.2		31.8		98.8		7.1		18.2		17		88				<0.2		1.9	
IM7	Fine	Moderate	13:28	9.2	Surface	1.0	0.3	158	23.1	23.1	8.2	8.2	31.8	31.8	98.3	98.2	7.0	7.0	14.1	17.2	9	11	83	86	821324	806859	<0.2	<0.2	1.9	2.1
						1.0	0.3	172	23.1		8.2		31.9		98.1		7.0		14.8		9		83				<0.2		2.0	
					Middle	4.6	0.3	157	22.9	22.9	8.2	8.2	31.8	31.8	97.1	97.1	7.0		17.4		10		85				<0.2		2.0	
						4.6	0.3	163	22.9		8.2		31.8		97.1		7.0		17.4		10		85				<0.2		2.1	
					Bottom	8.2	0.3	154	22.8	22.8	8.2	8.2	31.8	31.8	96.9	96.9	6.9	6.9	19.7		14		89				<0.2		2.1	
						8.2	0.3	154	22.8		8.2		31.8		96.9		6.9		19.8		13		89				<0.2		2.3	
IM8	Cloudy	Moderate	13:55	8.5	Surface	1.0	0.3	129	23.2	23.2	8.0	8.0	29.7	29.7	97.5	97.6	7.0	7.0	14.1	16.0	11	10	84	86	821671	807841	<0.2	<0.2	1.3	1.4
						1.0	0.3	141	23.2		8.0		29.7		97.6		7.0		14.2		11		84				<0.2		1.4	
					Middle	4.3	0.3	79	22.9	22.9	8.1	8.1	31.7	31.7	98.0	98.1	7.0		17.4		11		85				<0.2		1.5	
						4.3	0.3	84	22.9		8.1		31.7		98.1		7.0		17.7		10		86				<0.2		1.4	
					Bottom	7.5	0.2	57	22.9	22.9	8.1	8.1	31.8	31.8	98.1	98.1	7.0	7.0	16.4		10		88				<0.2		1.3	
						7.5	0.2	60	22.9		8.1		31.8		98.1		7.0		16.4		9		88				<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 19 April 18 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	14:04	7.6	Surface	1.0	0.5	120	23.2	23.2	8.0	8.0	29.9	29.9	97.1	97.1	7.0	7.0	12.5	18.1	8	9	83	86	822103	808804	<0.2	<0.2	1.2	1.1
						1.0	0.5	125	23.2		8.0		29.9		97.1		7.0		12.5		9		84				<0.2		1.2	
					Middle	3.8	0.5	97	22.9	22.9	8.1	8.1	31.4	31.4	97.9	97.9	7.0		18.1		8		86				<0.2		1.1	
						3.8	0.5	101	22.9		8.1		31.4		97.9		7.0		18.2		9		86				<0.2		1.0	
					Bottom	6.6	0.4	72	22.9	22.9	8.1	8.1	31.8	31.8	98.1	98.1	7.0	7.0	23.6		12		88				<0.2		1.1	
						6.6	0.4	74	22.9		8.1		31.8		98.0		7.0		23.6		10		88				<0.2		1.2	
IM10	Cloudy	Moderate	14:13	7.3	Surface	1.0	0.5	116	23.1	23.1	8.0	8.0	30.2	30.2	97.4	97.4	7.0	7.0	14.8	19.9	12	11	84	86	822263	809828	<0.2	<0.2	1.3	1.1
						1.0	0.5	122	23.1		8.0		30.2		97.4		7.0		14.8		10		85				<0.2		1.1	
					Middle	3.7	0.6	101	22.9	22.9	8.0	8.0	30.9	30.9	97.0	97.0	7.0		19.7		11		86				<0.2		1.2	
						3.7	0.6	105	22.9		8.0		30.9		96.9		7.0		19.8		11		86				<0.2		1.0	
					Bottom	6.3	0.4	87	22.9	22.9	8.0	8.0	31.4	31.4	97.7	97.7	7.0	7.0	25.1		12		88				<0.2		1.1	
						6.3	0.4	92	22.9		8.0		31.4		97.7		7.0		25.1		11		88				<0.2		1.0	
IM11	Cloudy	Moderate	14:27	8.5	Surface	1.0	0.5	120	23.5	23.5	8.0	8.0	29.8	29.8	98.2	98.2	7.0	7.0	13.5	18.7	11	11	84	86	821518	810542	<0.2	<0.2	1.1	1.1
						1.0	0.6	120	23.5		8.0		29.8		98.2		7.0		13.6		10		84				<0.2		1.3	
					Middle	4.3	0.5	114	23.2	23.2	8.1	8.1	30.9	30.9	98.1	98.1	7.0		19.7		10		86				<0.2		1.3	
						4.3	0.5	124	23.2		8.1		30.9		98.1		7.0		19.8		12		87				<0.2		1.0	
					Bottom	7.5	0.3	105	23.1	23.1	8.1	8.1	31.4	31.4	98.0	98.0	7.0	7.0	22.6		10		87				<0.2		0.9	
						7.5	0.3	112	23.1		8.1		31.4		98.0		7.0		22.7		10		88				<0.2		1.1	
IM12	Cloudy	Moderate	14:36	8.7	Surface	1.0	0.6	102	23.3	23.3	8.1	8.1	30.6	30.6	98.9	98.9	7.1	7.1	15.1	19.5	11	12	84	86	821177	811498	<0.2	<0.2	1.1	1.1
						1.0	0.6	111	23.3		8.1		30.6		98.9		7.1		15.2		11		84				<0.2		1.0	
					Middle	4.4	0.5	95	23.2	23.2	8.1	8.1	31.3	31.3	98.6	98.7	7.0		20.0		11		85				<0.2		0.9	
						4.4	0.5	104	23.2		8.1		31.3		98.7		7.0		20.0		10		86				<0.2		1.1	
					Bottom	7.7	0.4	94	23.2	23.2	8.1	8.1	31.3	31.3	98.4	98.5	7.0	7.0	23.6		13		88				<0.2		1.2	
						7.7	0.4	97	23.2		8.1		31.3		98.5		7.0		23.2		15		89				<0.2		1.1	
SR2	Cloudy	Moderate	15:00	4.5	Surface	1.0	0.4	84	23.0	23.0	8.1	8.1	30.5	30.5	92.6	92.6	6.7	6.7	20.3	21.2	13	15	85	87	821440	814144	<0.2	<0.2	1.1	1.1
						1.0	0.4	87	23.0		8.1		30.5		92.6		6.7		20.4		14		86				<0.2		1.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.3	80	23.0	23.0	8.0	8.0	30.5	30.5	93.2	93.2	6.7	6.7	22.1		16		88				<0.2		1.0	
						3.5	0.4	84	23.0		8.0		30.5		93.2		6.7		22.1		16		88				<0.2		1.0	
SR3	Cloudy	Moderate	13:49	8.9	Surface	1.0	0.3	164	23.0	23.0	8.0	8.0	30.0	30.0	95.9	95.9	6.9	7.0	13.1	20.4	10	10	-	-	822147	807577	-	-	-	-
						1.0	0.3	167	23.0		8.0		30.0		95.9		6.9		13.1		9		-				-		-	
					Middle	4.5	0.2	137	23.0	23.0	8.1	8.1	31.8	31.7	98.6	98.5	7.1		22.7		10		-				-		-	
						4.5	0.2	145	23.0		8.1		31.7		98.4		7.0		22.1		10		-				-		-	
					Bottom	7.9	0.2	69	22.9	22.9	8.1	8.1	31.8	31.8	98.3	98.3	7.0	7.0	25.8		9		-				-		-	
						7.9	0.3	73	22.9		8.1		31.8		98.3		7.0		25.7		9		-				-		-	
SR4A	Fine	Calm	14:49	9.2	Surface	1.0	0.3	64	23.0	23.0	8.2	8.2	31.9	31.9	99.2	99.2	7.1	7.1	13.9	15.4	13	13	-	-	817167	807831	-	-	-	-
						1.0	0.3	68	23.0		8.2		31.9		99.1		7.1		14.0		12		-				-		-	
					Middle	4.6	0.3	66	22.8	22.8	8.2	8.2	32.2	32.2	98.9	98.9	7.1		16.4		13		-				-		-	
						4.6	0.3	70	22.8		8.2		32.3		98.9		7.1		16.5		13		-				-		-	
					Bottom	8.2	0.2	55	22.7	22.7	8.2	8.2	32.3	32.3	99.1	99.1	7.1	7.1	15.9		14		-				-		-	
						8.2	0.2	56	22.7		8.2		32.3		99.1		7.1		15.9		13		-				-		-	
SR5A	Fine	Calm	15:04	5.4	Surface	1.0	0.0	51	23.2	23.2	8.1	8.1	31.0	31.0	96.7	96.8	6.9	6.9	14.6	14.7	6	8	-	-	816618	810668	-	-	-	-
						1.0	0.0	54	23.2		8.1		31.0		96.8		6.9		14.7		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	0.1	117	23.1	23.1	8.1	8.1	31.3	31.3	99.3	99.4	7.1	7.1	14.8		10		-				-		-	
						4.4	0.1	120	23.1		8.1		31.3		99.4		7.1		14.6		9		-				-		-	
SR6	Fine	Calm	15:25	4.1	Surface	1.0	0.1	78	23.2	23.2	8.1	8.1	30.6	30.6	91.4	91.4	6.6	6.6	14.9	16.3	9	9	-	-	817886	814634	-	-	-	-
						1.0	0.1	83	23.2		8.1		30.6		91.4		6.6		14.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	68	22.8	22.8	8.1	8.1	30.6	30.6	93.9	94.0	6.8	6.8	17.7		11		-				-		-	
						3.1	0.1	69	22.9		8.1		30.6		94.1		6.8		17.6		10		-				-		-	
SR7	Cloudy	Moderate	15:50	21.0	Surface	1.0	0.8	72	23.3	23.3	8.0	8.0	31.2	31.2	93.1	93.1	6.6	6.6	8.7	9.3	4	5	-	-	823636	823744	-	-	-	-
						1.0	0.9	72	23.3		8.0		31.2		93.0		6.6		8.7		5		-				-		-	
					Middle	10.5	0.6	52	23.1	23.1	8.0	8.0	31.7	31.7	91.3	91.3	6.5		9.4		5		-				-		-	
						10.5	0.6	56	23.1		8.0		31.7		91.3		6.5		9.4		6		-				-		-	
					Bottom	20.0	0.4	12	23.1	23.1	8.0	8.0	31.8	31.8	91.4	91.5	6.5	6.5	9.8		4		-				-		-	
						20.0	0.5	12	23.1		8.0		31.8		91.5		6.5		9.8		5		-				-		-	
SR8	Cloudy	Calm	14:44	4.1	Surface	1.0	-	-	23.4	23.4	8.1	8.1	30.3	30.3	96.2	96.3	6.9	6.9	13.7	13.8	8	8	-	-	820246	811418	-	-	-	-
						1.0	-	-	23.4		8.1		30.4		96.3		6.9		13.9		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	22.9	22.9	8.1	8.1	30.6	30.6	96.7	96.8	7.0	7.0	13.7		9		-				-		-	
						3.1	-	-	22.9		8.1		30.6		96.8		7.0		13.7		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**

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Water Quality Monitoring

Water Quality Monitoring Results on 19 April 18 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	09:02	9.0	Surface	1.0	0.9	24	22.7	22.7	8.1	8.1	31.5	31.5	97.9	97.9	7.0	7.0	18.0	23.4	14	18	85	88	815629	804255	<0.2	<0.2	2.0	2.0
						1.0	0.9	24			8.1		31.5		97.9		7.0		18.3		16		85				<0.2		2.0	
					Middle	4.5	0.8	24	22.7	22.7	8.2	8.2	31.9	31.9	97.0	97.0	7.0		25.8		16		88				<0.2		2.1	
						4.5	0.8	24	22.7		8.2		31.9		97.0		7.0		26.1		16		88				<0.2		1.9	
					Bottom	8.0	0.8	23	22.7	22.7	8.2	8.2	31.9	31.9	97.0	97.0	7.0	7.0	26.1		22		91				<0.2		2.0	
						8.0	0.8	24	22.7		8.2		31.9		97.0		7.0		26.0		24		92				<0.2		2.2	
C2	Cloudy	Moderate	09:56	12.4	Surface	1.0	0.5	346	23.0	23.0	7.9	7.9	28.0	28.0	91.6	91.6	6.7	6.7	10.2	15.7	4	4	85	88	825694	806938	<0.2	<0.2	1.8	1.8
						1.0	0.5	352	23.0		7.9		28.0		91.6		6.7		10.3		4		86				<0.2		1.9	
					Middle	6.2	0.5	347	23.0	23.0	7.9	7.9	28.7	28.7	90.2	90.2	6.6		16.3		4		88				<0.2		1.9	
						6.2	0.5	319	23.0		7.9		28.7		90.2		6.6		16.5		4		88				<0.2		1.8	
					Bottom	11.4	0.4	9	22.9	22.9	8.0	8.0	29.3	29.3	91.6	91.7	6.7	6.7	20.4		5		89				<0.2		1.8	
						11.4	0.4	9	22.9		8.0		29.3		91.7		6.7		20.4		4		89				<0.2		1.7	
C3	Cloudy	Moderate	08:02	11.5	Surface	1.0	0.6	267	22.8	22.8	8.0	8.0	30.4	30.4	91.9	91.9	6.6	6.6	11.2	15.8	4	5	83	86	822095	817791	<0.2	<0.2	1.2	1.1
						1.0	0.7	291	22.8		8.0		30.4		91.9		6.6		11.3		5		84				<0.2		1.2	
					Middle	5.8	0.6	268	22.7	22.7	8.0	8.0	31.5	31.5	90.2	90.2	6.5		17.3		6		85				<0.2		1.0	
						5.8	0.7	272	22.7		8.0		31.5		90.2		6.5		17.5		6		86				<0.2		0.9	
					Bottom	10.5	0.5	265	22.7	22.7	8.0	8.0	31.7	31.7	92.1	92.2	6.6	6.6	18.6		6		88				<0.2		1.1	
						10.5	0.5	278	22.7		8.0		31.7		92.2		6.6		18.8		5		88				<0.2		1.1	
IM1	Fine	Moderate	09:17	7.9	Surface	1.0	0.7	19	22.8	22.8	8.1	8.1	31.0	31.0	96.6	96.6	7.0	7.0	13.9	18.4	6	6	85	88	818328	806461	<0.2	<0.2	2.0	1.8
						1.0	0.7	19	22.8		8.1		31.1		96.5		7.0		15.3		6		86				<0.2		1.8	
					Middle	4.0	0.7	19	22.7	22.7	8.1	8.1	31.3	31.3	96.1	96.1	6.9		18.4		6		88				<0.2		1.8	
						4.0	0.7	19	22.7		8.1		31.3		96.1		6.9		18.2		6		88				<0.2		1.8	
					Bottom	6.9	0.6	9	22.7	22.7	8.2	8.2	31.4	31.4	97.1	97.2	7.0	7.0	22.5		6		90				<0.2		1.8	
						6.9	0.6	9	22.7		8.2		31.4		97.2		7.0		21.9		6		90				<0.2		1.6	
IM2	Fine	Moderate	09:21	8.8	Surface	1.0	0.7	27	22.8	22.8	8.1	8.1	30.9	30.9	97.1	97.1	7.0	7.0	11.2	19.0	5	6	85	87	818856	806191	<0.2	<0.2	1.7	1.9
						1.0	0.7	29	22.8		8.1		30.9		97.1		7.0		11.3		6		85				<0.2		1.8	
					Middle	4.4	0.6	36	22.7	22.7	8.1	8.1	31.3	31.3	96.4	96.4	6.9		20.7		5		87				<0.2		1.8	
						4.4	0.6	37	22.7		8.1		31.3		96.4		6.9		20.6		6		87				<0.2		2.0	
					Bottom	7.8	0.5	37	22.7	22.7	8.1	8.1	31.7	31.7	97.1	97.1	7.0	7.0	25.5		6		90				<0.2		2.0	
						7.8	0.6	39	22.7		8.1		31.7		97.1		7.0		24.8		5		90				<0.2		1.8	
IM3	Fine	Moderate	09:26	8.9	Surface	1.0	0.5	17	22.8	22.8	8.1	8.1	30.9	30.9	96.7	96.7	7.0	7.0	12.8	19.8	6	7	85	88	819418	806005	<0.2	<0.2	2.4	2.0
						1.0	0.6	17	22.8		8.1		30.9		96.7		7.0		13.0		6		86				<0.2		1.8	
					Middle	4.5	0.5	21	22.7	22.7	8.1	8.1	31.3	31.3	96.2	96.3	6.9		23.9		8		87				<0.2		1.6	
						4.5	0.5	22	22.7		8.1		31.3		96.3		6.9		24.4		8		88				<0.2		1.9	
					Bottom	7.9	0.4	28	22.7	22.7	8.1	8.1	31.5	31.5	96.7	96.7	7.0	7.0	23.1		7		91				<0.2		2.0	
						7.9	0.4	28	22.7		8.1		31.5		96.7		7.0		21.4		8		91				<0.2		2.0	
IM4	Fine	Moderate	09:33	8.2	Surface	1.0	0.7	7	22.7	22.7	8.2	8.2	31.3	31.3	97.4	97.4	7.0	7.0	16.0	19.8	9	11	85	89	819597	805051	<0.2	<0.2	1.9	1.9
						1.0	0.8	7	22.7		8.2		31.3		97.4		7.0		16.5		8		86				<0.2		1.8	
					Middle	4.1	0.6	5	22.7	22.7	8.2	8.2	31.5	31.5	96.9	96.9	7.0		21.2		12		89				<0.2		2.0	
						4.1	0.6	5	22.7		8.2		31.5		96.9		7.0		21.4		10		89				<0.2		1.8	
					Bottom	7.2	0.6	8	22.7	22.7	8.1	8.1	31.5	31.5	97.5	97.6	7.0	7.0	22.1		13		91				<0.2		1.8	
						7.2	0.6	8	22.7		8.1		31.5		97.6		7.0		21.6		13		91				<0.2		1.8	
IM5	Fine	Moderate	09:41	7.4	Surface	1.0	0.8	31	22.8	22.8	8.1	8.1	31.0	31.0	97.7	97.7	7.0	7.0	12.5	18.0	8	10	85	89	820547	804914	<0.2	<0.2	1.8	1.9
						1.0	0.9	33	22.8		8.1		31.0		97.7		7.0		12.5		8		86				<0.2		1.9	
					Middle	3.7	0.8	31	22.7	22.7	8.1	8.1	31.2	31.2	97.3	97.3	7.0		19.4		11		89				<0.2		1.9	
						3.7	0.9	32	22.7		8.1		31.2		97.3		7.0		19.4		11		89				<0.2		2.1	
					Bottom	6.4	0.7	29	22.7	22.7	8.1	8.1	31.3	31.3	98.2	98.3	7.1	7.1	22.3		11		92				<0.2		1.7	
						6.4	0.7	30	22.7		8.1		31.3		98.3		7.1		21.7		11		92				<0.2		1.8	
IM6	Fine	Moderate	09:48	7.5	Surface	1.0	0.3	41	22.8	22.8	8.1	8.1	30.6	30.6	96.0	96.0	6.9	7.0	10.9	19.0	10	16	85	88	821057	805838	<0.2	<0.2	1.8	1.7
						1.0	0.3	41	22.8		8.1		30.6		96.0		6.9		10.2		10		86				<0.2		1.6	
					Middle	3.8	0.3	28	22.8	22.8	8.1	8.1	30.6	30.6	96.2	96.2	7.0		23.5		8		88				<0.2		1.7	
						3.8	0.3	28	22.8		8.1		30.6		96.2		7.0		23.9		8		88				<0.2		1.7	
					Bottom	6.5	0.3	35	22.8	22.8	8.1	8.1	30.7	30.7	96.7	96.8	7.0	7.0	23.1		30		91				<0.2		1.8	
						6.5	0.3	35	22.8		8.1		30.7		96.8		7.0		22.6		31		91				<0.2		1.6	
IM7	Fine	Moderate	09:55	9.0	Surface	1.0	0.4	65	22.8	22.8	8.2	8.2	31.0	31.0	95.9	95.9	6.9	6.9	10.7	17.6	10	14	84	88	821331	806811	<0.2	<0.2	1.6	1.7
						1.0	0.4	66	22.8		8.2		31.0		95.9		6.9		10.5		9		85				<0.2		1.7	
					Middle	4.5	0.4	59	22.8	22.8	8.2	8.2	31.1	31.0	95.8	95.8	6.9		18.7		17		87				<0.2		1.8	
						4.5	0.4	61	22.8		8.2		31.0		95.8		6.9		18.8		18		88				<0.2		1.7	
					Bottom	8.0	0.3	54	22.8	22.8	8.2	8.2	31.0	31.0	95.9	96.0	6.9	6.9	23.7		16		91				<0.2		1.7	
						8.0	0.4	55	22.8		8.2		31.0		96.0		6.9		23.4		16		90				<0.2		1.8	
IM8	Cloudy	Moderate	09:31	8.8	Surface	1.0	0.2	342	23.0	23.0	8.0	8.0	28.7	28.7	93.1	93.2	6.8	6.8	18.9	21.1	18	19	84	86	821698	807832	<0.2	<0.2	1.3	1.4
						1.0	0.2	353	23.0		8.0		28.7		93.2		6.8		18.9		19		84				<0.2		1.3	
					Middle	4.4	0.3	22	22.9	22.9	8.0	8.0	29.2	29.2	93.5	93.5	6.8		19.8		18		86				<0.2		1.5	
						4.4	0.3	23	22.9		8.0		29.2		93.5		6.8		19.8		18		86				<0.2		1.4	
					Bottom	7.8	0.5	32	22.8	22.8	8.1	8.1	29.8	29.8	94.9	94.9	6.9	6.9	24.5		20		88				<0.2		1.3	
						7.8	0.6	32	22.8		8.1		29.8		94.9		6.9		24.6		22		88				<0.2		1.3	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 19 April 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Cloudy	Moderate	09:22	7.5	Surface	1.0	0.3	338	22.9	22.9	8.0	8.0	29.5	29.5	94.5	94.5	6.8	6.8	20.6	22.0	27	26	83	86	822086	808822	<0.2	<0.2	1.0	1.0
						1.0	0.3	311	22.9		8.0		29.5		94.4		6.8		20.6		25		84				<0.2		1.0	
					Middle	3.8	0.3	339	22.9	22.9	8.0	8.0	29.6	29.6	94.2	94.2	6.8		20.7		24		85				<0.2		1.1	
						3.8	0.3	359	22.9		8.0		29.6		94.2		6.8		20.7		26		86				<0.2		1.0	
					Bottom	6.5	0.3	332	22.9	22.9	8.0	8.0	29.7	29.7	94.8	94.8	6.9	6.9	24.7		26		89				<0.2		1.0	
						6.5	0.3	332	22.9		8.0		29.7		94.8		6.9		24.7		25		89				<0.2		1.0	
IM10	Cloudy	Moderate	09:15	8.1	Surface	1.0	0.5	306	22.8	22.8	8.0	8.0	30.1	30.1	94.0	94.0	6.8	6.8	17.6	19.9	20	25	84	86	822228	809866	<0.2	<0.2	1.0	0.9
						1.0	0.6	306	22.8		8.0		30.1		94.0		6.8		17.7		20		84				<0.2		0.9	
					Middle	4.1	0.5	313	22.8	22.8	8.0	8.0	30.1	30.1	93.8	93.8	6.8		18.8		21		85				<0.2		0.9	
						4.1	0.5	317	22.8		8.0		30.1		93.8		6.8		18.8		22		86				<0.2		0.9	
					Bottom	7.1	0.4	316	22.8	22.8	8.0	8.0	30.1	30.1	93.7	93.8	6.8	6.8	23.2		34		88				<0.2		0.9	
						7.1	0.4	340	22.8		8.0		30.1		93.9		6.8		23.1		32		89				<0.2		0.9	
IM11	Cloudy	Moderate	08:56	8.3	Surface	1.0	0.6	294	22.8	22.8	8.0	8.0	30.5	30.5	92.6	92.6	6.7	6.7	18.1	21.1	22	24	84	86	821518	810564	<0.2	<0.2	1.0	1.1
						1.0	0.6	310	22.8		8.0		30.5		92.6		6.7		18.2		24		84				<0.2		1.2	
					Middle	4.2	0.5	295	22.7	22.7	8.0	8.0	30.5	30.5	92.4	92.4	6.7		21.7		25		86				<0.2		1.0	
						4.2	0.6	300	22.7		8.0		30.5		92.4		6.7		21.8		25		86				<0.2		1.1	
					Bottom	7.3	0.4	294	22.7	22.7	8.0	8.0	30.5	30.5	92.9	93.1	6.7	6.7	23.3		24		89				<0.2		1.0	
						7.3	0.4	316	22.7		8.0		30.5		93.2		6.7		23.4		23		89				<0.2		1.0	
IM12	Cloudy	Moderate	08:50	8.2	Surface	1.0	0.7	273	22.8	22.8	8.0	8.0	30.6	30.6	92.2	92.2	6.7	6.7	16.5	19.5	22	23	83	86	821167	811494	<0.2	<0.2	0.9	1.1
						1.0	0.7	284	22.8		8.0		30.6		92.2		6.7		16.6		22		84				<0.2		1.1	
					Middle	4.1	0.6	275	22.8	22.8	8.0	8.0	30.6	30.6	92.3	92.3	6.7		17.5		23		86				<0.2		1.1	
						4.1	0.6	275	22.8		8.0		30.6		92.3		6.7		17.4		24		86				<0.2		1.2	
					Bottom	7.2	0.5	282	22.8	22.8	8.0	8.0	30.6	30.6	93.0	93.1	6.7	6.7	24.6		22		88				<0.2		1.1	
						7.2	0.5	283	22.8		8.0		30.6		93.1		6.7		24.6		22		88				<0.2		1.2	
SR2	Cloudy	Moderate	08:25	4.5	Surface	1.0	0.3	319	22.8	22.8	8.0	8.0	30.5	30.5	94.0	94.1	6.8	6.8	20.3	20.8	9	11	84	86	821474	814180	<0.2	<0.2	0.9	0.9
						1.0	0.3	341	22.8		8.0		30.5		94.1		6.8		20.2		9		84				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.3	321	22.8	22.8	8.0	8.0	30.5	30.5	95.9	96.1	6.9	7.0	21.5		14		88				<0.2		0.9	
						3.5	0.3	346	22.8		8.0		30.5		96.2		7.0		21.2		13		88				<0.2		1.0	
SR3	Cloudy	Moderate	09:36	9.5	Surface	1.0	0.5	13	22.8	22.8	8.1	8.1	30.6	30.6	95.8	95.8	6.9	6.9	18.4	21.2	30	30	-	-	822146	807586	-	-	-	-
						1.0	0.5	14	22.8		8.1		30.6		95.7		6.9		18.5		30		-				-		-	
					Middle	4.8	0.6	23	22.8	22.8	8.1	8.1	30.7	30.7	95.8	95.8	6.9		19.9		28		-				-		-	
						4.8	0.6	23	22.8		8.1		30.7		95.8		6.9		19.9		29		-				-		-	
					Bottom	8.5	0.5	25	22.7	22.7	8.1	8.1	30.8	30.8	96.9	96.9	7.0	7.0	25.3		30		-				-		-	
						8.5	0.6	26	22.7		8.1		30.8		96.8		7.0		25.2		31		-				-		-	
SR4A	Fine	Calm	08:39	9.3	Surface	1.0	0.2	251	22.6	22.6	8.1	8.1	31.0	31.0	90.9	91.0	6.6	6.6	13.7	13.8	14	17	-	-	817159	807831	-	-	-	-
						1.0	0.2	258	22.6		8.1		31.0		91.0		6.6		13.4		15		-				-		-	
					Middle	4.7	0.2	257	22.6	22.6	8.1	8.1	31.0	31.0	91.4	91.5	6.6		13.4		16		-				-		-	
						4.7	0.3	273	22.6		8.1		31.0		91.5		6.6		13.3		16		-				-		-	
					Bottom	8.3	0.2	259	22.6	22.6	8.1	8.1	31.1	31.1	92.3	92.4	6.7	6.7	14.7		21		-				-		-	
						8.3	0.3	270	22.6		8.1		31.1		92.4		6.7		14.1		21		-				-		-	
SR5A	Fine	Calm	08:25	5.2	Surface	1.0	0.4	284	22.6	22.6	8.1	8.1	30.7	30.7	90.6	90.6	6.6	6.6	14.0	15.0	9	14	-	-	816609	810709	-	-	-	-
						1.0	0.4	285	22.6		8.1		30.7		90.6		6.6		13.8		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.3	291	22.6	22.6	8.1	8.1	30.7	30.7	91.9	92.0	6.7	6.7	15.7		18		-				-		-	
						4.2	0.4	301	22.6		8.1		30.7		92.0		6.7		16.3		19		-				-		-	
SR6	Fine	Calm	08:04	4.2	Surface	1.0	0.2	226	22.7	22.7	8.1	8.1	30.6	30.6	92.9	92.9	6.7	6.7	12.0	12.7	11	11	-	-	817882	814635	-	-	-	-
						1.0	0.2	233	22.7		8.1		30.6		92.9		6.7		12.2		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	226	22.7	22.7	8.1	8.1	30.7	30.7	94.9	96.6	6.9	7.0	13.6		11		-				-		-	
						3.2	0.2	236	22.7		8.1		30.7		98.2		7.1		12.8		11		-				-		-	
SR7	Cloudy	Moderate	07:27	20.4	Surface	1.0	0.4	68	22.7	22.7	8.0	8.0	31.2	31.2	90.4	90.4	6.5	6.5	8.2	9.2	6	7	-	-	823633	823733	-	-	-	-
						1.0	0.4	74	22.7		8.0		31.2		90.4		6.5		8.1		4		-				-		-	
					Middle	10.2	0.4	60	22.7	22.7	8.0	8.0	31.5	31.5	88.8	88.8	6.4		9.7		7		-				-		-	
						10.2	0.5	61	22.7		8.0		31.5		88.8		6.4		9.7		8		-				-		-	
					Bottom	19.4	0.4	52	22.7	22.7	8.0	8.0	31.7	31.7	88.0	88.1	6.3	6.3	9.9		7		-				-		-	
						19.4	0.4	57	22.7		8.0		31.7		88.1		6.3		9.6		8		-				-		-	
SR8	Cloudy	Calm	08:44	3.9	Surface	1.0	-	-	22.8	22.8	8.0	8.0	30.2	30.2	93.5	93.6	6.8	6.8	13.5	14.1	22	22	-	-	820246	811418	-	-	-	-
						1.0	-	-	22.8		8.0		30.2		93.6		6.8		13.5		20		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	-	-	22.7	22.7	8.0	8.0	30.3	30.3	95.0	95.1	6.9	6.9	14.6		22		-				-		-	
						2.9	-	-	22.7		8.0		30.3		95.1		6.9		14.7		22		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 April 18 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	16:05	9.0	Surface	1.0	0.4	210	23.5	23.5	8.2	8.2	32.7	32.7	105.5	105.5	7.4	7.4	11.6	14.5	9	12	85	88	815626	804248	<0.2	<0.2	0.8	1.0
						1.0	0.4	214	23.5		8.2		32.7		105.5		7.4		11.6		8		86				<0.2		1.1	
					Middle	4.5	0.4	194	23.4	23.4	8.2	8.2	32.8	32.8	104.3	104.3	7.4		13.5		9		87				<0.2		1.0	
						4.5	0.5	195	23.4		8.2		32.8		104.3		7.4		13.5		10		88				<0.2		0.9	
					Bottom	8.0	0.3	186	23.4	23.4	8.2	8.2	32.8	32.8	103.0	103.0	7.3	7.3	18.3		17		89				<0.2		0.9	
						8.0	0.3	204	23.4		8.2		32.8		103.0		7.3		18.3		18		90				<0.2		1.0	
C2	Fine	Moderate	15:09	12.1	Surface	1.0	0.2	204	23.8	23.8	7.9	7.9	28.5	28.5	95.7	95.4	6.9	6.7	15.3	15.0	15	15	85	87	825678	806971	<0.2	<0.2	2.6	2.6
						1.0	0.3	219	23.8		7.9		28.5		95.0		6.8		15.4		15		85				<0.2		2.4	
					Middle	6.1	0.4	162	23.2	23.2	7.9	7.9	30.6	30.6	91.0	91.1	6.5		13.7		14		87				<0.2		2.6	
						6.1	0.5	177	23.2		7.9		30.6		91.1		6.5		13.8		15		88				<0.2		2.8	
					Bottom	11.1	0.3	162	23.2	23.2	7.9	7.9	31.1	31.1	93.4	93.5	6.7	6.7	16.0		16		89				<0.2		2.8	
						11.1	0.3	178	23.2		7.9		31.1		93.5		6.7		16.0		14		90				<0.2		2.6	
C3	Fine	Moderate	17:03	12.3	Surface	1.0	0.3	56	23.6	23.6	8.0	8.0	30.6	30.6	94.5	94.5	6.7	6.7	11.4	10.5	11	13	85	88	822116	817803	<0.2	<0.2	1.8	1.8
						1.0	0.4	56	23.6		8.0		30.6		94.5		6.7		11.4		11		85				<0.2		1.8	
					Middle	6.2	0.2	97	23.4	23.4	8.0	8.0	31.1	31.1	92.3	92.3	6.6		10.0		12		88				<0.2		1.8	
						6.2	0.2	102	23.4		8.0		31.1		92.2		6.6		10.0		13		88				<0.2		1.8	
					Bottom	11.3	0.2	106	23.2	23.2	8.0	8.0	31.7	31.7	92.0	92.1	6.6	6.6	10.0		13		90				<0.2		1.8	
						11.3	0.2	113	23.2		8.0		31.7		92.1		6.6		10.0		15		90				<0.2		1.8	
IM1	Fine	Moderate	15:49	7.7	Surface	1.0	0.3	239	23.5	23.5	8.2	8.2	32.3	32.3	103.9	103.9	7.3	7.3	9.6	10.7	9	10	85	86	818372	806433	<0.2	<0.2	1.2	1.2
						1.0	0.3	244	23.5		8.2		32.3		103.9		7.3		9.6		10		85				<0.2		1.1	
					Middle	3.9	0.3	222	23.4	23.4	8.2	8.2	32.4	32.4	102.4	102.4	7.3		11.4		11		86				<0.2		1.2	
						3.9	0.3	228	23.4		8.2		32.4		102.4		7.3		11.4		9		86				<0.2		1.3	
					Bottom	6.7	0.3	236	23.4	23.4	8.2	8.2	32.4	32.4	102.2	102.2	7.2	7.2	11.2		11		88				<0.2		1.2	
						6.7	0.3	253	23.4		8.2		32.4		102.2		7.2		11.2		10		88				<0.2		1.2	
IM2	Fine	Moderate	15:43	8.5	Surface	1.0	0.2	216	23.5	23.5	8.2	8.2	32.3	32.3	104.1	104.1	7.4	7.4	10.5	11.2	9	10	85	86	818844	806216	<0.2	<0.2	1.1	1.2
						1.0	0.3	224	23.5		8.2		32.3		104.1		7.4		10.5		8		85				<0.2		1.1	
					Middle	4.3	0.3	203	23.5	23.5	8.2	8.2	32.3	32.3	102.9	102.9	7.3		11.7		8		86				<0.2		1.2	
						4.3	0.3	211	23.5		8.2		32.3		102.9		7.3		11.7		8		86				<0.2		1.1	
					Bottom	7.5	0.2	196	23.3	23.3	8.2	8.2	32.4	32.4	102.4	102.4	7.3	7.3	11.4		14		87				<0.2		1.2	
						7.5	0.2	204	23.3		8.2		32.4		102.4		7.3		11.4		14		88				<0.2		1.2	
IM3	Fine	Moderate	15:38	8.6	Surface	1.0	0.2	191	23.6	23.6	8.2	8.2	32.1	32.1	104.2	104.2	7.4	7.4	10.3	10.9	10	10	85	87	819389	806012	<0.2	<0.2	1.2	1.2
						1.0	0.3	202	23.6		8.2		32.1		104.2		7.4		10.3		10		85				<0.2		1.2	
					Middle	4.3	0.3	164	23.5	23.5	8.2	8.2	32.3	32.3	103.3	103.3	7.3		10.9		11		87				<0.2		1.2	
						4.3	0.3	171	23.5		8.2		32.3		103.3		7.3		10.9		10		87				<0.2		1.3	
					Bottom	7.6	0.2	152	23.4	23.4	8.2	8.2	32.4	32.4	102.8	102.8	7.3	7.3	11.4		9		89				<0.2		1.1	
						7.6	0.2	153	23.4		8.2		32.4		102.8		7.3		11.4		10		88				<0.2		1.1	
IM4	Fine	Moderate	15:30	7.8	Surface	1.0	0.3	210	23.7	23.7	8.2	8.2	31.8	31.8	104.8	104.8	7.4	7.4	11.5	11.6	9	10	85	87	819563	805053	<0.2	<0.2	1.4	1.5
						1.0	0.3	219	23.7		8.2		31.8		104.8		7.4		11.5		9		86				<0.2		1.5	
					Middle	3.9	0.2	210	23.7	23.7	8.2	8.2	32.0	32.0	104.2	104.2	7.4		11.1		10		86				<0.2		1.6	
						3.9	0.2	215	23.7		8.2		32.0		104.2		7.4		11.1		9		86				<0.2		1.4	
					Bottom	6.8	0.2	225	23.7	23.7	8.2	8.2	32.0	32.0	103.1	103.1	7.3	7.3	12.2		11		88				<0.2		1.4	
						6.8	0.2	241	23.7		8.2		32.0		103.1		7.3		12.2		10		89				<0.2		1.4	
IM5	Fine	Moderate	15:21	7.6	Surface	1.0	0.3	177	23.4	23.4	8.1	8.1	31.4	31.4	100.8	100.8	7.2	7.2	12.5	15.5	10	13	86	87	820574	804922	<0.2	<0.2	1.6	1.6
						1.0	0.3	185	23.4		8.1		31.4		100.8		7.2		12.5		10		85				<0.2		1.7	
					Middle	3.8	0.2	192	23.3	23.3	8.1	8.1	31.7	31.7	100.1	100.1	7.1		16.8		11		87				<0.2		1.6	
						3.8	0.2	208	23.3		8.1		31.7		100.1		7.1		16.8		10		88				<0.2		1.5	
					Bottom	6.6	0.3	190	23.3	23.3	8.1	8.1	31.8	31.8	100.1	100.3	7.1	7.1	18.2		17		87				<0.2		1.5	
						6.6	0.3	204	23.3		8.1		31.7		100.5		7.1		16.1		18		88				<0.2		1.4	
IM6	Fine	Moderate	15:14	7.2	Surface	1.0	0.2	202	23.6	23.6	8.1	8.1	31.3	31.3	100.7	100.7	7.1	7.1	13.6	16.4	13	13	85	86	821086	805805	<0.2	<0.2	1.6	1.6
						1.0	0.3	206	23.6		8.1		31.3		100.7		7.1		13.6		12		86				<0.2		1.7	
					Middle	3.6	0.2	191	23.4	23.4	8.1	8.1	31.4	31.4	100.0	100.1	7.1		14.9		12		86				<0.2		1.7	
						3.6	0.2	201	23.4		8.1		31.4		100.1		7.1		15.2		12		86				<0.2		1.6	
					Bottom	6.2	0.1	162	23.4	23.4	8.1	8.1	31.8	31.8	101.4	101.4	7.2	7.2	20.4		15		87				<0.2		1.4	
						6.2	0.1	176	23.4		8.1		31.8		101.4		7.2		20.4		15		88				<0.2		1.4	
IM7	Fine	Moderate	15:07	9.0	Surface	1.0	0.1	215	23.8	23.8	8.1	8.1	29.7	29.7	101.3	101.3	7.2	7.2	11.6	14.1	12	13	85	87	821334	806863	<0.2	<0.2	2.2	1.9
						1.0	0.1	215	23.8		8.1		29.7		101.3		7.2		11.6		14		86				<0.2		2.1	
					Middle	4.5	0.2	134	23.4	23.4	8.1	8.1	31.5	31.5	100.7	100.7	7.2		15.0		13		86				<0.2		1.9	
						4.5	0.2	144	23.4		8.1		31.5		100.7		7.2		15.0		14		86				<0.2		1.9	
					Bottom	8.0	0.1	138	23.4	23.4	8.1	8.1	32.0	32.0	100.6	100.6	7.1	7.1	15.6		13		89				<0.2		1.6	
						8.0	0.1	145	23.4		8.1		32.0		100.6		7.1		15.6		14		89				<0.2		1.5	
IM8	Fine	Moderate	15:36	8.5	Surface	1.0	0.2	146	23.7	23.7	8.0	8.0	30.3	30.3	100.9	100.9	7.2	7.2	12.4	13.2	10	11	85	88	821688	807839	<0.2	<0.2	1.9	2.0
						1.0	0.2	154	23.7		8.0		30.3		100.8		7.2		12.3		11		86				<0.2		1.9	
					Middle	4.3	0.2	89	23.7	23.7	8.0	8.0	30.8	30.8	101.9	101.9	7.2		13.1		11		87				<0.2		1.9	
						4.3	0.2	92	23.7		8.0		30.8		101.9		7.2		13.2		11		87				<0.2		2.0	
					Bottom	7.5	0.2	45	23.5	23.5	8.1	8.1	31.9	31.9	100.7	100.8	7.1	7.1	14.1		12		90				<0.2		2.2	
						7.5	0.2	47	23.5		8.1		31.9		100.9		7.1		14.1		12		90				<0.2		1.9	

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**

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Water Quality Monitoring

Water Quality Monitoring Results on 21 April 18 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	15:45	7.5	Surface	1.0	0.2	166	24.0	24.0	8.1	8.1	29.1	29.1	101.2	101.2	7.2	7.2	11.8	13.8	13	12	86	88	822121	808834	<0.2	<0.2	2.3	2.4
						1.0	0.2	168	24.0		8.1		29.1		101.1		7.2		11.8		13		88				<0.2		2.4	
					Middle	3.8	0.2	127	23.8	23.8	8.1	8.1	29.9	29.9	101.4	101.4	7.2		13.0		13		88				<0.2		2.4	
						3.8	0.2	128	23.8		8.1		29.9		101.4		7.2		13.1		12		87				<0.2		2.4	
					Bottom	6.5	0.3	63	23.4	23.4	8.1	8.1	31.8	31.8	100.8	100.9	7.2	7.2	16.6		12		89				<0.2		2.4	
						6.5	0.3	67	23.4		8.1		31.8		100.9		7.2		16.4		11		90				<0.2		2.4	
IM10	Fine	Moderate	15:54	8.5	Surface	1.0	0.5	114	23.7	23.7	8.0	8.0	29.5	29.5	100.0	100.0	7.2	7.2	12.8	13.6	10	12	85	88	822223	809812	<0.2	<0.2	2.4	2.4
						1.0	0.5	119	23.7		8.0		29.5		100.0		7.2		12.8		10		85				<0.2		2.4	
					Middle	4.3	0.4	106	23.7	23.7	8.1	8.1	30.2	30.2	100.4	100.4	7.2		13.5		13		88				<0.2		2.3	
						4.3	0.5	115	23.7		8.1		30.2		100.4		7.2		13.5		14		88				<0.2		2.5	
					Bottom	7.5	0.3	75	23.4	23.4	8.1	8.1	31.3	31.3	99.1	99.1	7.1	7.1	14.4		13		90				<0.2		2.2	
						7.5	0.3	79	23.4		8.1		31.3		99.1		7.1		14.4		12		90				<0.2		2.6	
IM11	Fine	Moderate	16:08	7.8	Surface	1.0	0.2	135	24.1	24.1	8.1	8.1	29.7	29.7	103.2	103.2	7.3	7.3	12.4	14.2	12	13	85	88	821512	810539	<0.2	<0.2	2.2	2.1
						1.0	0.2	138	24.1		8.1		29.7		103.1		7.3		12.4		11		85				<0.2		2.2	
					Middle	3.9	0.3	88	23.7	23.7	8.1	8.1	30.8	30.8	101.8	101.9	7.2		14.6		12		88				<0.2		2.0	
						3.9	0.3	95	23.7		8.1		30.8		101.9		7.2		14.8		14		88				<0.2		2.0	
					Bottom	6.8	0.3	80	23.6	23.6	8.1	8.1	31.2	31.2	102.0	101.9	7.2	7.2	15.4		13		90				<0.2		2.1	
						6.8	0.3	85	23.6		8.1		31.2		101.8		7.2		15.3		13		90				<0.2		2.3	
IM12	Fine	Moderate	16:17	8.4	Surface	1.0	0.3	97	23.9	23.9	8.1	8.1	29.5	29.5	100.7	100.7	7.2	7.2	12.9	16.5	11	13	86	88	821171	811504	<0.2	<0.2	2.5	2.3
						1.0	0.3	99	23.9		8.1		29.5		100.7		7.2		12.9		12		85				<0.2		2.2	
					Middle	4.2	0.3	108	23.8	23.8	8.1	8.1	30.2	30.2	100.9	101.0	7.2		14.6		13		88				<0.2		2.0	
						4.2	0.3	116	23.8		8.1		30.2		101.0		7.2		14.7		12		88				<0.2		2.4	
					Bottom	7.4	0.4	100	23.7	23.7	8.1	8.1	30.9	30.9	100.6	100.7	7.1	7.1	22.0		15		90				<0.2		2.1	
						7.4	0.4	100	23.7		8.1		30.9		100.7		7.1		21.8		15		89				<0.2		2.3	
SR2	Fine	Moderate	16:43	3.9	Surface	1.0	0.4	85	23.8	23.8	8.0	8.0	29.7	29.7	98.0	98.0	7.0	7.0	12.5	14.5	13	13	86	87	821435	814181	<0.2	<0.2	2.2	2.2
						1.0	0.4	93	23.8		8.0		29.7		97.9		7.0		12.5		13		85				<0.2		2.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.3	85	23.5	23.5	8.0	8.0	30.2	30.2	95.9	95.9	6.9	6.9	16.5		12		88				<0.2		2.3	
						2.9	0.3	90	23.5		8.0		30.2		95.8		6.8		16.6		12		88				<0.2		2.1	
SR3	Fine	Moderate	15:30	9.3	Surface	1.0	0.3	222	23.9	23.8	8.0	8.0	29.3	29.3	99.9	99.9	7.1	7.1	12.3	15.1	14	14	-	-	822131	807588	-	-	-	-
						1.0	0.3	224	23.8		8.0		29.3		99.8		7.1		12.3		13		-				-		-	
					Middle	4.7	0.1	181	23.4	23.4	8.0	8.0	30.4	30.4	98.9	98.9	7.1		14.5		14		-				-		-	
						4.7	0.1	183	23.4		8.0		30.4		98.9		7.1		14.5		13		-				-		-	
					Bottom	8.3	0.2	45	23.3	23.3	8.0	8.0	31.6	31.6	99.8	99.8	7.1	7.1	18.4		15		-				-		-	
						8.3	0.3	48	23.3		8.0		31.6		99.7		7.1		18.3		16		-				-		-	
SR4A	Fine	Calm	16:27	8.8	Surface	1.0	0.1	48	23.5	23.5	8.2	8.2	32.2	32.2	101.5	101.5	7.2	7.2	11.5	13.3	9	11	-	-	817193	807822	-	-	-	-
						1.0	0.1	51	23.5		8.2		32.2		101.5		7.2		11.5		10		-				-		-	
					Middle	4.4	0.1	74	23.3	23.3	8.2	8.2	32.5	32.5	100.9	100.9	7.1		13.6		10		-				-		-	
						4.4	0.1	78	23.3		8.2		32.5		100.9		7.1		13.6		12		-				-		-	
					Bottom	7.8	0.2	74	23.2	23.2	8.2	8.2	32.6	32.6	100.4	100.4	7.1	7.1	14.8		13		-				-		-	
						7.8	0.2	75	23.2		8.2		32.6		100.4		7.1		14.8		14		-				-		-	
SR5A	Fine	Calm	16:43	5.3	Surface	1.0	0.1	85	24.0	24.0	8.1	8.1	31.0	31.0	99.7	99.7	7.0	7.0	13.7	13.6	12	14	-	-	816565	810711	-	-	-	-
						1.0	0.1	91	24.0		8.1		31.0		99.7		7.0		13.7		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.2	121	24.1	24.1	8.1	8.1	31.3	31.3	99.8	99.8	7.0	7.0	13.5		16		-				-		-	
						4.3	0.3	124	24.1		8.1		31.3		99.8		7.0		13.5		14		-				-		-	
SR6	Fine	Calm	17:04	4.2	Surface	1.0	0.1	33	24.0	24.0	8.1	8.1	30.6	30.6	97.2	97.2	6.9	6.9	13.0	14.2	13	15	-	-	817928	814658	-	-	-	-
						1.0	0.1	35	24.0		8.1		30.6		97.2		6.9		13.0		14		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	0	23.8	23.8	8.1	8.1	30.6	30.6	97.2	97.2	6.9	6.9	15.3		16		-				-		-	
						3.2	0.1	0	23.8		8.1		30.6		97.2		6.9		15.3		15		-				-		-	
SR7	Fine	Moderate	17:31	18.0	Surface	1.0	0.5	93	23.6	23.6	8.0	8.0	31.2	31.2	95.1	95.1	6.8	6.7	8.4	10.1	7	8	-	-	823617	823746	-	-	-	-
						1.0	0.5	100	23.6		8.0		31.2		95.0		6.7		8.4		8		-				-		-	
					Middle	9.0	0.4	66	23.4	23.4	8.0	8.0	31.6	31.6	92.5	92.5	6.6		9.6		10		-				-		-	
						9.0	0.5	68	23.4		8.0		31.6		92.5		6.6		9.6		8		-				-		-	
					Bottom	17.0	0.2	53	23.4	23.4	8.0	8.0	31.6	31.6	92.7	92.7	6.6	6.6	12.3		8		-				-		-	
						17.0	0.2	56	23.4		8.0		31.6		92.7		6.6		12.4		9		-				-		-	
SR8	Fine	Moderate	16:27	4.0	Surface	1.0	-	-	23.8	23.8	8.1	8.1	29.9	29.9	97.0	97.0	6.9	6.9	14.2	14.6	11	12	-	-	820246	811418	-	-	-	-
						1.0	-	-	23.8		8.1		29.9		97.0		6.9		14.1		11		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	23.5	23.5	8.1	8.1	30.6	30.6	97.2	97.2	6.9	6.9	15.1		12		-				-		-	
						3.0	-	-	23.5		8.1		30.6		97.1		6.9		15.1		14		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 April 18 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	10:26	9.2	Surface	1.0	0.5	38	23.0	23.0	8.2	8.2	32.4	32.4	101.9	101.9	7.2	7.2	10.8	12.9	13	14	85	88	815603	804247	<0.2	<0.2	1.0	1.1
						1.0	0.5	38	23.0		8.2		32.4		101.9		7.2		10.8		11		86				<0.2		1.0	
					Middle	4.6	0.5	47	23.0	23.0	8.2	8.2	32.5	32.5	101.0	101.0	7.2		13.5		12		88				<0.2		1.1	
						4.6	0.5	47	23.0		8.2		32.5		101.0		7.2		13.5		13		88				<0.2		1.1	
					Bottom	8.2	0.4	57	23.0	23.0	8.2	8.2	32.6	32.6	101.1	101.1	7.2	7.2	14.3		18		89				<0.2		1.2	
						8.2	0.4	61	23.0		8.2		32.6		101.1		7.2		14.3		17		90				<0.2		1.2	
C2	Fine	Moderate	11:04	12.5	Surface	1.0	0.6	343	23.5	23.5	7.9	7.9	28.3	28.3	95.8	95.8	6.9	6.9	9.8	11.6	7	8	86	88	825677	806954	<0.2	<0.2	2.3	2.5
						1.0	0.6	353	23.5		7.9		28.3		95.8		6.9		9.8		7		86				<0.2		2.8	
					Middle	6.3	0.5	342	23.5	23.5	8.0	8.0	28.5	28.5	95.0	95.0	6.9		11.2		8		88				<0.2		2.6	
						6.3	0.6	358	23.5		8.0		28.5		95.0		6.9		11.3		8		88				<0.2		2.6	
					Bottom	11.5	0.4	356	23.3	23.3	8.0	8.0	28.8	28.8	94.1	94.2	6.8	6.8	13.7		8		90				<0.2		2.3	
						11.5	0.5	328	23.3		8.0		28.8		94.2		6.8		13.8		9		90				<0.2		2.4	
C3	Fine	Moderate	09:14	11.9	Surface	1.0	0.5	264	23.3	23.3	8.0	8.0	30.4	30.4	95.6	95.6	6.9	6.8	7.9	9.5	6	6	86	88	822129	817824	<0.2	<0.2	1.6	1.7
						1.0	0.5	265	23.3		8.0		30.4		95.5		6.8		7.9		6		85				<0.2		1.8	
					Middle	6.0	0.4	255	23.2	23.2	8.0	8.0	30.6	30.6	93.2	93.3	6.7		9.4		6		88				<0.2		1.7	
						6.0	0.4	263	23.2		8.0		30.6		93.3		6.7		9.4		6		87				<0.2		1.6	
					Bottom	10.9	0.4	273	23.1	23.1	8.0	8.0	31.7	31.7	90.6	90.6	6.5	6.5	11.3		6		90				<0.2		1.8	
						10.9	0.4	282	23.1		8.0		31.7		90.6		6.5		11.2		6		90				<0.2		1.6	
IM1	Fine	Moderate	10:43	7.9	Surface	1.0	0.4	357	23.2	23.2	8.1	8.1	31.0	31.0	101.9	101.9	7.3	7.3	8.9	9.3	6	6	85	87	818360	806471	<0.2	<0.2	1.3	1.4
						1.0	0.5	328	23.2		8.1		31.0		101.9		7.3		8.9		5		85				<0.2		1.2	
					Middle	4.0	0.4	-	23.2	23.2	8.1	8.1	31.1	31.1	101.7	101.7	7.3		10.2		6		87				<0.2		1.5	
						4.0	0.4	-	23.2		8.1		31.1		101.7		7.3		10.2		5		88				<0.2		1.6	
					Bottom	6.9	0.4	4	23.2	23.2	8.1	8.1	31.1	31.1	101.0	101.0	7.2	7.2	8.8		7		89				<0.2		1.4	
						6.9	0.4	4	23.2		8.1		31.1		101.0		7.2		8.8		6		87				<0.2		1.5	
IM2	Fine	Moderate	10:48	8.6	Surface	1.0	0.4	18	23.3	23.3	8.1	8.1	30.9	30.9	102.1	102.0	7.3	7.3	8.4	11.9	6	7	86	88	818865	806193	<0.2	<0.2	1.8	1.5
						1.0	0.4	19	23.3		8.1		30.9		101.9		7.3		9.4		4		85				<0.2		1.4	
					Middle	4.3	0.5	31	23.1	23.1	8.1	8.1	31.3	31.3	100.2	100.2	7.2		13.4		7		88				<0.2		1.4	
						4.3	0.5	32	23.1		8.1		31.3		100.2		7.2		13.4		6		87				<0.2		1.5	
					Bottom	7.6	0.3	39	23.1	23.1	8.2	8.2	31.6	31.6	100.4	100.4	7.2	7.2	13.3		9		89				<0.2		1.3	
						7.6	0.3	42	23.1		8.2		31.6		100.4		7.2		13.3		10		90				<0.2		1.7	
IM3	Fine	Moderate	10:52	8.6	Surface	1.0	0.6	354	23.4	23.4	8.1	8.1	30.8	30.8	102.4	102.4	7.3	7.3	9.7	16.3	7	8	85	88	819426	806010	<0.2	<0.2	1.6	1.4
						1.0	0.6	326	23.4		8.1		30.8		102.4		7.3		9.6		8		86				<0.2		1.3	
					Middle	4.3	0.6	358	23.3	23.3	8.1	8.1	30.9	30.9	100.7	100.7	7.2		14.6		6		88				<0.2		1.5	
						4.3	0.6	329	23.3		8.1		30.9		100.7		7.2		14.6		7		87				<0.2		1.4	
					Bottom	7.6	0.4	351	23.1	23.1	8.2	8.2	31.8	31.8	99.9	99.9	7.1	7.1	24.5		9		89				<0.2		1.2	
						7.6	0.4	323	23.1		8.2		31.8		99.9		7.1		24.5		8		90				<0.2		1.5	
IM4	Fine	Moderate	11:00	8.2	Surface	1.0	0.5	35	23.4	23.4	8.1	8.1	30.7	30.7	100.2	100.2	7.2	7.2	11.1	11.7	8	8	85	87	819547	805050	<0.2	<0.2	1.7	1.5
						1.0	0.6	38	23.4		8.1		30.7		100.2		7.2		11.1		8		85				<0.2		1.6	
					Middle	4.1	0.6	34	23.2	23.2	8.1	8.1	31.1	31.1	99.7	99.7	7.1		9.9		9		88				<0.2		1.5	
						4.1	0.6	35	23.2		8.1		31.1		99.7		7.1		9.9		9		87				<0.2		1.5	
					Bottom	7.2	0.4	38	23.3	23.3	8.1	8.1	31.1	31.1	100.2	100.2	7.2	7.2	14.1		7		89				<0.2		1.3	
						7.2	0.5	38	23.3		8.1		31.1		100.2		7.2		14.1		8		88				<0.2		1.4	
IM5	Fine	Moderate	11:09	7.8	Surface	1.0	0.6	355	23.5	23.5	8.1	8.1	30.6	30.6	101.9	101.9	7.3	7.3	9.1	13.1	8	7	85	87	820549	804935	<0.2	<0.2	1.4	1.5
						1.0	0.6	327	23.5		8.1		30.6		101.9		7.3		9.1		6		85				<0.2		1.4	
					Middle	3.9	0.6	357	23.5	23.5	8.1	8.1	30.7	30.7	101.4	101.4	7.2		10.3		7		85				<0.2		1.4	
						3.9	0.6	328	23.5		8.1		30.7		101.4		7.2		10.3		6		86				<0.2		1.5	
					Bottom	6.8	0.6	-	23.4	23.4	8.1	8.1	30.9	30.9	101.6	101.6	7.2	7.2	20.0		8		89				<0.2		1.6	
						6.8	0.7	-	23.4		8.1		30.9		101.6		7.2		20.0		9		90				<0.2		1.5	
IM6	Fine	Moderate	11:16	7.8	Surface	1.0	0.3	2	23.3	23.3	8.2	8.2	31.1	31.1	99.3	99.3	7.1	7.1	16.6	18.1	17	19	85	88	821037	805856	<0.2	<0.2	1.3	1.4
						1.0	0.3	2	23.3		8.2		31.1		99.3		7.1		16.7		16		86				<0.2		1.5	
					Middle	3.9	0.3	13	23.3	23.3	8.2	8.2	31.1	31.1	99.1	99.1	7.1		17.7		18		87				<0.2		1.3	
						3.9	0.3	13	23.3		8.2		31.1		99.1		7.1		17.7		17		87				<0.2		1.4	
					Bottom	6.8	0.2	355	23.3	23.3	8.1	8.1	31.1	31.1	99.9	99.9	7.1	7.1	19.9		25		89				<0.2		1.4	
						6.8	0.2	327	23.3		8.1		31.1		99.9		7.1		19.9		23		95				<0.2		1.3	
IM7	Fine	Moderate	11:23	8.7	Surface	1.0	0.5	35	23.4	23.4	8.2	8.2	31.3	31.3	99.6	99.6	7.1	7.1	15.2	17.3	14	18	86	88	821345	806834	<0.2	<0.2	1.4	1.5
						1.0	0.5	37	23.4		8.2		31.3		99.6		7.1		15.2		15		85				<0.2		1.3	
					Middle	4.4	0.4	35	23.3	23.3	8.2	8.2	31.3	31.3	99.4	99.4	7.1		16.6		18		87				<0.2		1.6	
						4.4	0.4	35	23.3		8.2		31.3		99.4		7.1		16.6		19		87				<0.2		1.1	
					Bottom	7.7	0.3	43	23.3	23.3	8.2	8.2	31.4	31.4	99.7	99.7	7.1	7.1	20.1		22		89				<0.2		1.4	
						7.7	0.3	44	23.3		8.2		31.4		99.7		7.1		20.1		20		96				<0.2		2.0	
IM8	Fine	Moderate	10:38	8.8	Surface	1.0	0.1	333	23.4	23.4	8.0	8.0	28.2	28.2	97.3	97.4	7.0	7.0	16.5	17.5	11	14	86	88	821709	807828	<0.2	<0.2	2.4	2.4
						1.0	0.1	335	23.4		8.0		28.2		97.4		7.1		16.5		11		86				<0.2		2.4	
					Middle	4.4	0.2	40	23.4	23.4	8.0	8.0	28.5	28.5	96.9	96.9	7.0		17.1		15		88				<0.2		2.5	
						4.4	0.2	43	23.4		8.0		28.5		96.9		7.0		17.1		17		88				<0.2		2.6	
					Bottom	7.8	0.4	41	23.3	23.3	8.1	8.1	29.8	29.8	97.4	97.4	7.0	7.0	18.9		16		90				<0.2		2.3	
						7.8	0.4	41	23.3		8.1		29.8		97.3		7.0		18.9		15		90				<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 21 April 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Fine	Moderate	10:31	7.8	Surface	1.0	0.3	326	23.3	23.3	8.1	8.1	28.7	28.7	96.0	96.0	6.9	6.9	18.2	20.8	17	19	86	88	822098	808823	<0.2	<0.2	2.3	2.3
						1.0	0.4	341	23.3		8.1		28.7		96.0		6.9		18.6		19		86				<0.2		2.2	
					Middle	3.9	0.3	330	23.3	23.3	8.1	8.1	28.7	28.7	95.7	95.7	6.9		20.2		17		88				<0.2		2.2	
						3.9	0.3	347	23.3		8.1		28.7		95.7		6.9		20.2		18		88				<0.2		2.2	
					Bottom	6.8	0.3	324	23.3	23.3	8.1	8.1	28.9	28.9	96.4	96.4	7.0	7.0	23.6		21		90				<0.2		2.4	
						6.8	0.3	338	23.3		8.1		28.9		96.4		7.0		23.7		21		90				<0.2		2.2	
IM10	Fine	Moderate	10:23	8.7	Surface	1.0	0.5	295	23.4	23.4	8.0	8.0	28.9	28.9	96.4	96.4	7.0	7.0	13.0	14.8	13	13	86	88	822217	809845	<0.2	<0.2	2.0	2.1
						1.0	0.5	299	23.4		8.0		28.9		96.4		7.0		13.0		13		86				<0.2		2.0	
					Middle	4.4	0.5	298	23.3	23.3	8.0	8.0	29.0	29.0	95.7	95.8	6.9		14.9		14		88				<0.2		2.0	
						4.4	0.5	315	23.3		8.0		29.0		95.8		6.9		14.8		12		88				<0.2		2.2	
					Bottom	7.7	0.3	317	23.2	23.2	8.1	8.1	29.3	29.3	95.5	95.6	6.9	6.9	16.5		14		90				<0.2		2.0	
						7.7	0.3	320	23.2		8.1		29.3		95.6		6.9		16.6		14		90				<0.2		2.2	
IM11	Fine	Moderate	10:07	8.0	Surface	1.0	0.3	281	23.3	23.3	8.0	8.0	29.2	29.2	95.8	95.8	6.9	6.9	15.8	17.7	19	20	86	88	821520	810537	<0.2	<0.2	1.9	2.0
						1.0	0.3	286	23.3		8.0		29.2		95.7		6.9		15.7		18		86				<0.2		2.2	
					Middle	4.0	0.3	283	23.3	23.3	8.1	8.1	29.3	29.3	94.8	94.8	6.8		17.4		21		88				<0.2		2.1	
						4.0	0.3	310	23.3		8.1		29.3		94.8		6.8		17.5		21		88				<0.2		2.0	
					Bottom	7.0	0.3	296	23.2	23.2	8.0	8.0	29.6	29.6	94.5	94.5	6.8	6.8	19.9		21		90				<0.2		2.0	
						7.0	0.3	303	23.2		8.0		29.6		94.5		6.8		19.8		22		90				<0.2		1.9	
IM12	Fine	Moderate	10:00	8.1	Surface	1.0	0.7	286	23.3	23.3	8.0	8.0	29.1	29.1	95.3	95.3	6.9	6.9	12.6	14.9	10	12	86	88	821185	811490	<0.2	<0.2	1.9	1.9
						1.0	0.7	300	23.3		8.0		29.1		95.3		6.9		12.6		12		86				<0.2		1.8	
					Middle	4.1	0.5	283	23.3	23.3	8.0	8.0	29.4	29.4	94.7	94.8	6.8		14.5		12		88				<0.2		1.9	
						4.1	0.5	300	23.3		8.0		29.4		94.8		6.8		14.6		13		88				<0.2		2.0	
					Bottom	7.1	0.4	291	23.3	23.3	8.0	8.0	29.6	29.6	94.8	94.9	6.8	6.8	17.5		12		90				<0.2		1.8	
						7.1	0.4	295	23.3		8.0		29.6		94.9		6.8		17.7		13		90				<0.2		1.8	
SR2	Fine	Moderate	09:35	4.7	Surface	1.0	0.1	8	23.4	23.4	8.0	8.0	29.4	29.4	94.3	94.3	6.8	6.8	12.0	13.6	14	16	86	87	821449	814150	<0.2	<0.2	1.5	1.6
						1.0	0.1	8	23.4		8.0		29.4		94.3		6.8		12.1		14		86				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.2	350	23.3	23.3	8.0	8.0	30.0	30.0	94.6	94.6	6.8	6.8	15.1		18		88				<0.2		1.6	
						3.7	0.2	322	23.3		8.0		30.0		94.6		6.8		15.1		18		88				<0.2		1.5	
SR3	Fine	Moderate	10:45	9.6	Surface	1.0	0.4	344	23.4	23.4	8.0	8.0	28.3	28.3	97.3	97.4	7.0	7.0	14.7	16.7	19	19	-	-	822168	807589	-	-	-	-
						1.0	0.4	316	23.4		8.0		28.3		97.4		7.1		14.7		18		-				-		-	
					Middle	4.8	0.4	5	23.4	23.4	8.0	8.0	28.7	28.7	97.2	97.2	7.0		17.2		18		-				-		-	
						4.8	0.4	5	23.4		8.0		28.7		97.1		7.0		17.3		18		-				-		-	
					Bottom	8.6	0.4	24	23.3	23.3	8.1	8.1	29.7	29.7	96.7	96.8	7.0	7.0	18.0		19		-				-		-	
						8.6	0.4	24	23.3		8.1		29.7		96.8		7.0		18.4		20		-				-		-	
SR4A	Fine	Calm	10:04	8.8	Surface	1.0	0.3	251	23.3	23.3	8.1	8.1	31.0	31.0	96.2	96.2	6.9	6.9	11.8	11.4	9	11	-	-	817177	807800	-	-	-	-
						1.0	0.3	258	23.3		8.1		31.0		96.2		6.9		11.8		10		-				-		-	
					Middle	4.4	0.2	250	23.2	23.2	8.1	8.1	31.1	31.1	96.6	96.6	6.9		11.1		12		-				-		-	
						4.4	0.2	263	23.2		8.1		31.1		96.6		6.9		11.1		12		-				-		-	
					Bottom	7.8	0.2	276	23.2	23.2	8.1	8.1	31.3	31.3	97.9	97.9	7.0	7.0	11.4		12		-				-		-	
						7.8	0.2	300	23.2		8.1		31.3		97.9		7.0		11.4		11		-				-		-	
SR5A	Fine	Calm	09:48	5.6	Surface	1.0	0.2	278	23.3	23.3	8.1	8.1	30.6	30.6	94.8	94.8	6.8	6.8	14.1	14.8	15	16	-	-	816567	810669	-	-	-	-
						1.0	0.2	297	23.3		8.1		30.6		94.8		6.8		14.1		14		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.6	0.2	300	23.3	23.3	8.1	8.1	30.7	30.7	95.8	95.9	6.9	6.9	15.4		18		-				-		-	
						4.6	0.2	322	23.3		8.1		30.7		95.9		6.9		15.5		16		-				-		-	
SR6	Sunny	Calm	09:24	4.2	Surface	1.0	0.2	241	23.2	23.2	8.1	8.1	30.2	30.2	92.6	92.6	6.7	6.7	10.7	10.6	10	11	-	-	817911	814645	-	-	-	-
						1.0	0.2	248	23.2		8.1		30.3		92.5		6.6		10.8		11		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	238	23.2	23.2	8.1	8.1	30.3	30.3	92.9	92.9	6.7	6.7	10.4		11		-				-		-	
						3.2	0.2	238	23.2		8.1		30.3		92.9		6.7		10.3		11		-				-		-	
SR7	Fine	Moderate	08:47	18.8	Surface	1.0	0.2	256	23.1	23.1	8.0	8.0	31.1	31.1	93.1	93.1	6.7	6.6	7.2	7.6	7	9	-	-	823624	823735	-	-	-	-
						1.0	0.2	265	23.1		8.0		31.1		93.0		6.7		7.2		6		-				-		-	
					Middle	9.4	0.4	217	23.0	23.0	7.9	7.9	31.6	31.6	90.4	90.4	6.5		7.6		8		-				-		-	
						9.4	0.4	221	23.0		7.9		31.6		90.3		6.5		7.6		9		-				-		-	
					Bottom	17.8	0.1	229	23.0	23.0	7.9	7.9	31.7	31.7	90.5	90.6	6.5	6.5	8.0		12		-				-		-	
						17.8	0.1	243	23.0		7.9		31.7		90.6		6.5		8.1		10		-				-		-	
SR8	Fine	Moderate	09:51	3.9	Surface	1.0	-	-	23.5	23.5	8.0	8.0	28.3	28.3	97.4	97.4	7.0	7.0	12.6	12.2	13	14	-	-	820246	811418	-	-	-	-
						1.0	-	-	23.5		8.0		28.3		97.4		7.0		12.6		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	-	-	23.5	23.5	8.0	8.0	28.3	28.3	98.6	98.7	7.1	7.1	11.8		14		-				-		-	
						2.9	-	-	23.5		8.0		28.3		98.7		7.1		11.8		15		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 24 April 18 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	09:30	8.6	Surface	1.0	0.1	147	24.3	24.3	8.2	8.2	28.8	28.9	108.1	108.1	7.7	7.6	7.6	9.8	4	5	83	85	815620	804263	<0.2	<0.2	1.9	1.8
						1.0	0.1	152	24.3		8.2		28.9		108.1		7.7		7.4		3		83				<0.2		2.0	
					Middle	4.3	0.2	220	23.9	23.9	8.2	8.2	31.3	31.3	105.8	105.8	7.5		8.2		5		85				<0.2		1.8	
						4.3	0.2	240	23.9		8.2		31.3		105.8		7.5		8.4		5		86				<0.2		1.9	
					Bottom	7.6	0.1	208	23.8	23.8	8.2	8.2	31.8	31.8	104.0	104.0	7.3	7.3	13.5		6		87				<0.2		1.5	
						7.6	0.1	210	23.8		8.2		31.8		104.0		7.3		13.6		5		88				<0.2		1.6	
C2	Rainy	Moderate	10:28	11.7	Surface	1.0	0.6	182	24.8	24.8	7.9	7.9	23.8	23.8	95.6	95.7	6.9	6.8	9.4	11.1	3	4	85	87	825684	806962	<0.2	<0.2	2.8	2.8
						1.0	0.6	187	24.8		7.9		23.8		95.7		6.9		9.5		4		85				<0.2		2.7	
					Middle	5.9	0.3	174	24.5	24.5	7.9	7.9	27.0	27.0	92.9	92.9	6.6		10.0		3		87				<0.2		2.8	
						5.9	0.3	181	24.5		7.9		27.0		92.8		6.6		10.0		4		88				<0.2		2.8	
					Bottom	10.7	0.2	141	23.8	23.8	8.0	8.0	30.4	30.4	88.7	88.8	6.3	6.3	13.8		5		89				<0.2		2.8	
						10.7	0.2	148	23.8		8.0		30.4		88.8		6.3		13.7		3		90				<0.2		3.0	
C3	Cloudy	Moderate	08:21	11.9	Surface	1.0	0.1	66	24.3	24.3	8.0	8.0	29.1	29.1	95.5	95.5	6.8	6.6	7.0	7.7	2	3	85	88	822127	817805	<0.2	<0.2	2.1	2.0
						1.0	0.1	70	24.3		8.0		29.2		95.5		6.8		7.0		4		85				<0.2		2.0	
					Middle	6.0	0.0	109	23.8	23.8	8.0	8.0	31.4	31.4	91.1	91.1	6.4		7.3		2		87				<0.2		2.2	
						6.0	0.0	118	23.8		8.0		31.4		91.1		6.4		7.3		3		88				<0.2		1.9	
					Bottom	10.9	0.1	108	23.7	23.7	8.0	8.0	31.6	31.7	91.1	91.1	6.4	6.4	8.7		2		90				<0.2		2.0	
						10.9	0.1	111	23.7		8.0		31.7		91.1		6.4		8.7		4		90				<0.2		2.0	
IM1	Rainy	Moderate	09:49	7.3	Surface	1.0	0.2	184	24.5	24.5	8.1	8.1	26.8	26.8	104.1	104.1	7.5	7.5	10.1	12.0	5	6	83	86	818325	806459	<0.2	<0.2	1.8	1.9
						1.0	0.2	186	24.5		8.1		26.8		104.1		7.5		9.8		4		84				<0.2		1.8	
					Middle	3.7	0.2	166	24.4	24.3	8.1	8.1	28.6	28.6	103.6	103.6	7.4		11.6		6		85				<0.2		1.7	
						3.7	0.2	175	24.3		8.1		28.6		103.6		7.4		11.7		8		86				<0.2		1.9	
					Bottom	6.3	0.1	133	24.0	24.0	8.2	8.2	30.7	30.7	102.5	102.5	7.2	7.2	14.6		6		88				<0.2		2.0	
						6.3	0.1	143	24.0		8.2		30.7		102.5		7.2		14.4		6		88				<0.2		2.0	
IM2	Rainy	Moderate	09:55	8.3	Surface	1.0	0.2	226	24.5	24.5	8.1	8.1	27.1	27.1	104.0	104.0	7.4	7.4	8.0	10.1	5	5	84	86	818798	806263	<0.2	<0.2	2.1	1.9
						1.0	0.2	248	24.5		8.1		27.1		104.0		7.4		8.2		4		84				<0.2		1.8	
					Middle	4.2	0.2	173	24.3	24.3	8.1	8.1	28.8	28.8	103.6	103.6	7.4		10.4		5		85				<0.2		1.8	
						4.2	0.2	175	24.3		8.1		28.9		103.6		7.4		10.7		4		86				<0.2		1.9	
					Bottom	7.3	0.1	112	24.2	24.2	8.1	8.1	29.8	29.8	103.6	103.7	7.3	7.3	11.7		5		88				<0.2		2.1	
						7.3	0.1	118	24.2		8.1		29.8		103.7		7.3		11.7		5		88				<0.2		1.9	
IM3	Rainy	Moderate	10:01	8.2	Surface	1.0	0.2	176	24.5	24.5	8.1	8.1	27.4	27.4	101.9	101.9	7.3	7.3	10.2	11.2	6	6	83	86	819386	805994	<0.2	<0.2	1.8	1.8
						1.0	0.2	177	24.5		8.1		27.4		101.9		7.3		10.2		6		83				<0.2		1.9	
					Middle	4.1	0.2	195	24.4	24.4	8.1	8.1	28.0	28.0	101.9	102.0	7.3		10.8		7		86				<0.2		1.9	
						4.1	0.2	205	24.4		8.1		28.0		102.0		7.3		10.6		5		86				<0.2		1.8	
					Bottom	7.2	0.2	122	24.2	24.2	8.1	8.1	29.5	29.5	101.4	101.4	7.2	7.2	12.7		6		88				<0.2		1.6	
						7.2	0.2	123	24.2		8.1		29.5		101.4		7.2		12.7		6		88				<0.2		1.8	
IM4	Rainy	Moderate	10:08	7.5	Surface	1.0	0.3	205	24.4	24.4	8.1	8.1	27.0	26.9	103.8	103.8	7.4	7.4	9.5	12.4	6	8	84	86	819560	805065	<0.2	<0.2	1.9	2.0
						1.0	0.4	205	24.4		8.1		26.9		103.8		7.4		9.7		6		83				<0.2		2.0	
					Middle	3.8	0.3	205	24.3	24.3	8.1	8.1	28.7	28.6	103.1	103.1	7.3		12.1		6		86				<0.2		1.9	
						3.8	0.3	207	24.3		8.1		28.6		103.1		7.3		12.0		7		86				<0.2		2.0	
					Bottom	6.5	0.2	180	24.1	24.0	8.1	8.1	30.2	30.2	102.4	102.3	7.2	7.2	15.3		11		89				<0.2		2.1	
						6.5	0.2	181	24.0		8.1		30.3		102.2		7.2		15.8		10		89				<0.2		1.9	
IM5	Rainy	Moderate	10:18	6.9	Surface	1.0	0.2	228	24.5	24.5	8.1	8.1	25.6	25.6	102.8	102.8	7.4	7.4	10.9	14.8	6	7	84	87	820546	804923	<0.2	<0.2	2.0	2.0
						1.0	0.3	233	24.5		8.1		25.6		102.7		7.4		11.0		6		85				<0.2		1.9	
					Middle	3.5	0.2	205	24.4	24.4	8.1	8.1	27.8	27.8	101.9	101.9	7.3		15.2		7		88				<0.2		2.0	
						3.5	0.2	220	24.4		8.1		27.8		101.9		7.3		15.4		6		88				<0.2		1.9	
					Bottom	5.9	0.1	182	24.3	24.3	8.1	8.1	29.0	29.0	100.9	100.9	7.2	7.2	18.1		8		89				<0.2		1.9	
						5.9	0.1	191	24.3		8.1		29.0		100.9		7.2		18.1		6		89				<0.2		2.0	
IM6	Rainy	Moderate	10:27	6.8	Surface	1.0	0.2	218	24.6	24.6	8.1	8.1	24.0	23.9	100.8	100.8	7.3	7.3	10.2	11.9	6	6	83	86	821030	805836	<0.2	<0.2	2.8	2.8
						1.0	0.2	230	24.6		8.1		23.9		100.8		7.3		9.9		4		84				<0.2		2.7	
					Middle	3.4	0.2	192	24.4	24.4	8.1	8.1	27.3	27.3	100.7	100.7	7.2		13.1		7		86				<0.2		2.8	
						3.4	0.2	194	24.4		8.1		27.3		100.7		7.2		14.0		6		86				<0.2		2.7	
					Bottom	5.8	0.1	183	24.4	24.4	8.1	8.1	28.5	28.5	100.9	100.9	7.2	7.2	12.0		5		89				<0.2		2.8	
						5.8	0.1	185	24.4		8.1		28.5		100.9		7.2		12.1		5		89				<0.2		2.8	
IM7	Rainy	Moderate	10:35	8.2	Surface	1.0	0.1	177	24.5	24.5	8.1	8.1	25.9	25.9	100.1	100.1	7.2	7.2	8.4	10.5	5	6	85	88	821355	806823	<0.2	<0.2	2.8	2.7
						1.0	0.1	191	24.5		8.1		25.9		100.1		7.2		8.5		7		85				<0.2		2.6	
					Middle	4.1	0.1	156	24.4	24.4	8.1	8.1	26.7	26.7	99.0	99.0	7.1		10.5		7		88				<0.2		2.7	
						4.1	0.1	157	24.4		8.1		26.8		99.0		7.1		10.7		6		88				<0.2		2.7	
					Bottom	7.2	0.1	131	24.4	24.4	8.1	8.1	27.8	27.8	98.8	98.8	7.0	7.1	12.3		6		90				<0.2		2.8	
						7.2	0.1	137	24.4		8.1		27.8		98.8		7.1		12.4		5		90				<0.2		2.7	
IM8	Rainy	Moderate	09:58	8.1	Surface	1.0	0.2	140	24.7	24.7	7.9	7.9	24.1	24.1	97.6	97.6	7.1	7.1	9.4	10.7	6	5	86	88	821706	807856	<0.2	<0.2	2.8	3.0
						1.0	0.2	150	24.7		7.9		24.1		97.6		7.1		9.4		5		85				<0.2		2.7	
					Middle	4.1	0.2	97	24.5	24.5	8.0	8.0	26.7	26.7	97.4	97.5	7.0		11.6		5		88				<0.2		3.3	
						4.1	0.2	98	24.5		8.0		26.7		97.5		7.0		11.6		5		88				<0.2		3.2	
					Bottom	7.1	0.2	67	24.4	24.4	8.0	8.0	27.8	27.8	98.4	98.5	7.0	7.0	11.2		6		90				<0.2		2.8	
						7.1	0.2	67	24.4		8.0		27.8		98.5		7.0		11.2		5		90				<0.2		3.0	

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**

Note: Access to IM2 was blocked by a barge. The monitoring at IM2 was slightly shifted to the closest safe and accessible location temporarily.

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

Water Quality Monitoring

Water Quality Monitoring Results on 24 April 18 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	Moderate	09:50	7.1	Surface	1.0	0.3	144	24.9	24.9	7.9	7.9	23.2	23.2	97.7	97.7	7.1	7.1	8.9	10.1	6	6	85	88	822087	808803	<0.2	<0.2	3.0	3.1
						1.0	0.3	145	24.9		7.9		23.2		97.7		7.1		8.9		6		86				<0.2		3.2	
					Middle	3.6	0.3	103	24.5	24.5	8.0	8.0	26.1	26.1	97.4	97.4	7.0		10.1		4		88				<0.2		3.1	
						3.6	0.3	109	24.5		8.0		26.1		97.4		7.0		10.2		5		87				<0.2		3.0	
					Bottom	6.1	0.3	74	24.4	24.4	8.0	8.0	27.3	27.3	98.7	98.7	7.1	7.1	11.2		7		90				<0.2		3.0	
						6.1	0.3	80	24.4		8.0		27.3		98.7		7.1		11.3		6		90				<0.2		3.0	
IM10	Rainy	Moderate	09:41	6.6	Surface	1.0	0.4	126	24.8	24.8	7.9	7.9	24.0	24.0	97.5	97.4	7.1	7.0	9.6	11.0	7	6	86	88	822212	809818	<0.2	<0.2	3.2	3.4
						1.0	0.5	131	24.8		7.9		24.0		97.3		7.0		9.7		6		85				<0.2		3.6	
					Middle	3.3	0.5	106	24.5	24.5	8.0	8.0	26.1	26.1	97.3	97.4	7.0		10.5		5		88				<0.2		3.4	
						3.3	0.5	107	24.5		8.0		26.1		97.4		7.0		10.5		6		87				<0.2		3.4	
					Bottom	5.6	0.3	89	24.5	24.5	8.0	8.0	27.2	27.2	98.1	98.1	7.0	7.0	12.7		6		90				<0.2		3.3	
						5.6	0.3	94	24.5		8.0		27.2		98.1		7.0		12.8		6		90				<0.2		3.4	
IM11	Rainy	Moderate	09:25	7.7	Surface	1.0	0.4	135	24.9	24.9	8.0	8.0	23.6	23.6	100.9	100.9	7.3	7.2	9.1	10.4	4	5	86	88	821528	810516	<0.2	<0.2	3.1	2.9
						1.0	0.4	139	24.9		8.0		23.6		100.9		7.3		9.1		5		85				<0.2		2.9	
					Middle	3.9	0.4	113	24.8	24.8	8.1	8.1	25.9	25.9	99.5	99.5	7.1		10.9		5		88				<0.2		3.0	
						3.9	0.4	116	24.8		8.1		25.9		99.5		7.1		10.9		5		87				<0.2		2.7	
					Bottom	6.7	0.4	87	24.7	24.7	8.0	8.0	27.8	27.8	99.3	99.3	7.1	7.1	11.1		5		90				<0.2		2.8	
						6.7	0.4	91	24.7		8.0		27.8		99.3		7.0		11.1		5		90				<0.2		2.8	
IM12	Rainy	Moderate	09:16	8.9	Surface	1.0	0.3	116	24.9	24.9	8.1	8.1	25.0	25.0	100.0	100.0	7.2	7.1	10.1	10.9	8	8	86	88	821169	811527	<0.2	<0.2	2.6	2.7
						1.0	0.3	125	24.9		8.1		25.0		99.9		7.2		10.1		8		85				<0.2		2.6	
					Middle	4.5	0.2	114	24.8	24.8	8.1	8.1	26.1	26.1	97.8	97.8	7.0		10.9		8		88				<0.2		2.7	
						4.5	0.2	116	24.8		8.1		26.1		97.8		7.0		10.9		8		88				<0.2		2.7	
					Bottom	7.9	0.2	110	24.5	24.5	8.0	8.0	28.7	28.7	95.8	95.8	6.8	6.8	11.5		8		90				<0.2		2.8	
						7.9	0.2	120	24.5		8.0		28.7		95.8		6.8		11.6		7		90				<0.2		2.7	
SR2	Cloudy	Moderate	08:45	3.9	Surface	1.0	0.2	54	24.5	24.5	8.0	8.0	28.6	28.6	97.4	97.4	6.9	6.9	8.1	8.6	6	6	86	86	821443	814152	<0.2	<0.2	2.2	2.1
						1.0	0.2	55	24.5		8.0		28.6		97.4		6.9		8.1		6		85				<0.2		2.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	42	24.4	24.4	8.0	8.0	29.0	29.0	97.5	97.6	6.9	6.9	8.9		6		87				<0.2		2.1	
						2.9	0.2	43	24.4		8.0		29.0		97.6		6.9		9.1		7		87				<0.2		2.1	
SR3	Rainy	Moderate	10:04	8.3	Surface	1.0	0.2	180	24.8	24.8	7.9	7.9	23.9	23.9	96.4	96.5	7.0	6.9	9.1	9.8	7	7	-	-	822162	807542	-	-	-	-
						1.0	0.2	183	24.8		7.9		23.9		96.5		7.0		9.1		7		-				-		-	
					Middle	4.2	0.2	205	24.5	24.5	7.9	7.9	27.0	27.0	94.2	94.2	6.7		9.8		6		-				-		-	
						4.2	0.2	213	24.5		7.9		27.0		94.2		6.7		9.8		8		-				-		-	
					Bottom	7.3	0.2	245	24.1	24.1	8.0	8.0	29.3	29.3	94.2	94.3	6.7	6.7	10.5		8		-				-		-	
						7.3	0.2	264	24.2		8.0		29.3		94.4		6.7		10.2		6		-				-		-	
SR4A	Cloudy	Calm	09:10	9.3	Surface	1.0	0.3	94	24.7	24.6	8.1	8.1	27.9	27.9	102.9	102.9	7.3	7.3	11.5	14.6	6	8	-	-	817172	807796	-	-	-	-
						1.0	0.3	102	24.6		8.1		27.9		102.9		7.3		11.5		7		-				-		-	
					Middle	4.7	0.3	91	24.3	24.3	8.1	8.1	29.3	29.3	101.6	101.6	7.2		16.2		7		-				-		-	
						4.7	0.4	98	24.3		8.1		29.3		101.6		7.2		16.2		7		-				-		-	
					Bottom	8.3	0.3	94	24.3	24.3	8.1	8.1	29.5	29.5	101.3	101.3	7.2	7.2	16.3		10		-				-		-	
						8.3	0.3	102	24.3		8.1		29.5		101.3		7.2		16.0		10		-				-		-	
SR5A	Cloudy	Calm	08:52	4.9	Surface	1.0	0.1	100	24.7	24.7	8.1	8.1	27.9	27.9	99.8	99.8	7.1	7.1	8.4	7.9	4	5	-	-	816591	810668	-	-	-	-
						1.0	0.2	103	24.7		8.1		27.9		99.8		7.1		8.2		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	28	24.8	24.8	8.1	8.1	29.1	29.1	99.6	99.6	7.0	7.0	7.6		6		-				-		-	
						3.9	0.1	30	24.8		8.1		29.1		99.6		7.0		7.3		4		-				-		-	
SR6	Cloudy	Calm	08:29	4.3	Surface	1.0	0.1	47	24.7	24.7	8.0	8.0	27.8	27.8	99.8	99.8	7.1	7.1	7.3	9.4	7	6	-	-	817894	814680	-	-	-	-
						1.0	0.1	48	24.7		8.0		27.8		99.8		7.1		7.9		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	63	24.9	24.9	8.0	8.0	29.8	29.8	97.2	97.2	6.8	6.8	11.2		6		-				-		-	
						3.3	0.1	63	24.9		8.0		29.8		97.2		6.8		11.3		6		-				-		-	
SR7	Cloudy	Moderate	07:45	18.8	Surface	1.0	0.1	77	24.0	24.0	7.9	7.9	30.6	30.6	92.6	92.7	6.6	6.5	7.3	8.3	4	5	-	-	823659	823729	-	-	-	-
						1.0	0.1	84	24.0		7.9		30.6		92.7		6.6		7.3		4		-				-		-	
					Middle	9.4	0.1	76	23.7	23.7	7.9	7.9	31.7	31.7	90.0	90.0	6.4		7.6		6		-				-		-	
						9.4	0.1	77	23.7		7.9		31.7		90.0		6.4		7.6		4		-				-		-	
					Bottom	17.8	0.0	226	23.5	23.5	7.9	7.9	32.6	32.6	89.6	89.6	6.3	6.3	10.0		5		-				-		-	
						17.8	0.0	237	23.5		7.9		32.6		89.5		6.3		10.0		5		-				-		-	
SR8	Rainy	Moderate	09:09	3.8	Surface	1.0	-	-	24.9	24.9	8.0	8.0	24.5	24.5	100.7	100.8	7.3	7.3	10.0	9.9	6	6	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.9		8.0		24.5		100.8		7.3		10.0		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	-	-	24.8	24.8	8.0	8.0	25.5	25.5	100.7	100.8	7.2	7.2	9.8		7		-				-		-	
						2.8	-	-	24.8		8.0		25.5		100.8		7.2		9.8		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 24 April 18 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	13:15	8.8	Surface	1.0	0.1	16	24.7	24.7	8.2	8.2	26.7	26.7	110.2	110.2	7.9	7.6	8.0	10.0	6	5	85	87	815590	804242	<0.2	<0.2	2.0	1.8
						1.0	0.1	16	24.7		8.2		26.7		110.1		7.9		8.0		6		85				<0.2		1.7	
					Middle	4.4	0.2	24	23.8	23.8	8.2	8.2	31.7	31.7	102.8	102.8	7.2		11.0		4		86				<0.2		1.7	
						4.4	0.2	24	23.8		8.2		31.7		102.8		7.2		11.2		5		86				<0.2		1.8	
					Bottom	7.8	0.2	38	23.8	23.8	8.2	8.2	31.7	31.7	102.9	102.9	7.3	7.3	10.9		4		89				<0.2		1.8	
						7.8	0.2	41	23.8		8.2		31.7		102.9		7.3		10.9		5		90				<0.2		1.8	
C2	Rainy	Moderate	12:10	10.8	Surface	1.0	0.4	178	24.8	24.8	7.9	7.9	23.6	23.6	97.0	97.0	7.0	6.9	9.6	9.6	4	5	85	88	825657	806958	<0.2	<0.2	2.9	3.0
						1.0	0.4	180	24.8		7.9		23.6		96.9		7.0		9.6		4		86				<0.2		3.0	
					Middle	5.4	0.2	219	24.5	24.5	7.9	7.9	27.3	27.3	94.4	94.4	6.7		9.2		5		88				<0.2		3.0	
						5.4	0.2	236	24.5		7.9		27.3		94.4		6.7		9.2		5		88				<0.2		3.0	
					Bottom	9.8	0.1	156	24.3	24.3	7.9	7.9	29.4	29.3	94.2	94.3	6.7	6.7	9.9		5		90				<0.2		3.0	
						9.8	0.1	157	24.3		7.9		29.3		94.3		6.7		9.9		4		90				<0.2		3.1	
C3	Cloudy	Moderate	14:01	11.9	Surface	1.0	0.2	255	24.6	24.6	8.0	8.0	27.6	27.6	98.1	98.1	7.0	6.7	7.2	7.8	5	6	85	88	822098	817813	<0.2	<0.2	3.2	3.2
						1.0	0.2	269	24.6		8.0		27.6		98.0		7.0		7.2		3		86				<0.2		3.2	
					Middle	6.0	0.4	270	23.8	23.8	8.0	8.0	31.3	31.3	90.5	90.5	6.4		7.1		7		88				<0.2		3.1	
						6.0	0.4	292	23.8		8.0		31.3		90.4		6.4		7.1		6		88				<0.2		3.1	
					Bottom	10.9	0.3	277	23.7	23.7	8.0	8.0	31.8	31.8	92.3	92.4	6.5	6.5	9.0		6		90				<0.2		3.1	
						10.9	0.3	301	23.7		8.0		31.8		92.4		6.5		9.0		6		90				<0.2		3.2	
IM1	Cloudy	Calm	12:56	7.4	Surface	1.0	0.1	339	24.5	24.5	8.2	8.2	28.3	28.3	104.0	104.0	7.4	7.4	9.0	9.7	4	5	84	86	818349	806483	<0.2	<0.2	3.1	3.0
						1.0	0.1	340	24.5		8.2		28.3		104.0		7.4		9.3		5		85				<0.2		2.9	
					Middle	3.7	0.2	334	24.2	24.2	8.2	8.2	29.3	29.3	103.5	103.6	7.3		9.6		6		86				<0.2		3.1	
						3.7	0.2	351	24.2		8.2		29.3		103.6		7.3		9.6		5		86				<0.2		3.0	
					Bottom	6.4	0.2	354	23.9	23.9	8.2	8.2	31.2	31.2	102.5	102.5	7.2	7.2	10.4		6		88				<0.2		2.9	
						6.4	0.3	326	23.9		8.2		31.2		102.4		7.2		10.5		6		88				<0.2		2.9	
IM2	Rainy	Moderate	12:50	8.1	Surface	1.0	0.1	268	24.5	24.5	8.2	8.2	26.7	26.7	103.0	103.0	7.4	7.4	9.9	9.4	7	6	84	86	818881	806221	<0.2	<0.2	3.0	3.1
						1.0	0.1	274	24.5		8.2		26.7		103.0		7.4		10.0		6		84				<0.2		3.2	
					Middle	4.1	0.1	53	24.2	24.2	8.1	8.1	28.8	28.8	103.2	103.2	7.3		8.6		7		85				<0.2		3.0	
						4.1	0.1	58	24.2		8.1		28.8		103.2		7.3		8.7		5		86				<0.2		3.2	
					Bottom	7.1	0.3	46	24.0	24.0	8.2	8.2	30.6	30.6	102.3	102.3	7.2	7.2	9.6		7		88				<0.2		3.1	
						7.1	0.3	46	24.0		8.2		30.5		102.2		7.2		9.6		5		89				<0.2		3.0	
IM3	Rainy	Moderate	12:43	8.3	Surface	1.0	0.1	262	24.6	24.6	8.1	8.1	27.0	27.0	101.5	101.5	7.3	7.3	10.1	12.2	4	4	84	86	819431	805997	<0.2	<0.2	3.3	3.3
						1.0	0.1	278	24.6		8.1		26.9		101.5		7.3		10.2		3		84				<0.2		3.3	
					Middle	4.2	0.1	301	24.5	24.5	8.1	8.1	28.5	28.5	101.1	101.1	7.2		11.3		4		85				<0.2		3.3	
						4.2	0.1	303	24.5		8.1		28.5		101.1		7.2		11.6		4		85				<0.2		3.2	
					Bottom	7.3	0.1	359	24.3	24.3	8.1	8.1	29.0	29.0	100.3	100.3	7.1	7.1	14.9		4		88				<0.2		3.1	
						7.3	0.2	330	24.3		8.1		29.0		100.3		7.1		15.2		4		88				<0.2		3.4	
IM4	Rainy	Moderate	12:36	7.6	Surface	1.0	0.1	257	24.5	24.5	8.1	8.1	26.1	26.1	102.7	102.7	7.4	7.3	9.3	11.5	3	5	83	86	819552	805028	<0.2	<0.2	3.0	3.0
						1.0	0.2	272	24.5		8.1		26.1		102.6		7.4		9.2		4		84				<0.2		3.1	
					Middle	3.8	0.1	279	24.1	24.1	8.1	8.1	30.1	30.1	100.7	100.8	7.1		11.5		6		85				<0.2		2.9	
						3.8	0.1	306	24.1		8.1		30.1		100.8		7.1		11.8		4		86				<0.2		2.9	
					Bottom	6.6	0.1	4	23.9	23.9	8.2	8.2	31.1	31.1	100.8	100.8	7.1	7.1	13.5		8		88				<0.2		2.9	
						6.6	0.1	4	23.9		8.2		31.1		100.8		7.1		13.4		7		88				<0.2		3.0	
IM5	Rainy	Moderate	12:26	6.8	Surface	1.0	0.3	261	24.5	24.5	8.1	8.1	24.7	24.7	101.8	101.8	7.4	7.3	9.6	9.6	7	6	84	86	820569	804897	<0.2	<0.2	2.9	2.9
						1.0	0.3	276	24.5		8.1		24.7		101.7		7.4		9.7		7		84				<0.2		3.0	
					Middle	3.4	0.1	255	24.4	24.4	8.1	8.1	27.5	27.5	100.1	100.1	7.2		9.7		5		85				<0.2		3.0	
						3.4	0.1	260	24.4		8.1		27.5		100.1		7.2		9.8		6		86				<0.2		2.8	
					Bottom	5.8	0.1	8	24.4	24.4	8.1	8.1	28.7	28.7	100.0	100.0	7.1	7.1	9.5		6		88				<0.2		2.9	
						5.8	0.2	8	24.4		8.1		28.7		100.0		7.1		9.4		6		88				<0.2		2.9	
IM6	Rainy	Moderate	12:18	6.8	Surface	1.0	0.2	255	24.5	24.5	8.1	8.1	25.8	25.8	100.4	100.4	7.2	7.2	9.1	11.2	5	6	85	86	821052	805853	<0.2	<0.2	2.9	3.0
						1.0	0.2	272	24.5		8.1		25.8		100.4		7.2		9.2		6		85				<0.2		2.9	
					Middle	3.4	0.1	266	24.4	24.4	8.1	8.1	26.6	26.6	99.5	99.5	7.1		11.2		7		86				<0.2		2.8	
						3.4	0.1	284	24.4		8.1		26.6		99.5		7.1		11.5		6		86				<0.2		3.1	
					Bottom	5.8	0.1	279	24.4	24.4	8.1	8.1	28.5	28.5	99.0	99.0	7.0	7.0	13.2		5		88				<0.2		3.1	
						5.8	0.1	287	24.4		8.1		28.5		99.0		7.0		13.0		5		88				<0.2		3.0	
IM7	Rainy	Moderate	12:10	7.4	Surface	1.0	0.2	287	24.6	24.6	8.0	8.0	24.9	24.9	96.7	96.7	7.0	7.0	8.5	10.3	6	5	83	86	821348	806838	<0.2	<0.2	3.0	3.0
						1.0	0.2	303	24.6		8.0		24.9		96.7		7.0		8.6		4		84				<0.2		3.1	
					Middle	3.7	0.1	298	24.6	24.6	8.1	8.1	25.7	25.7	96.8	96.8	7.0		10.0		4		86				<0.2		3.1	
						3.7	0.1	316	24.6		8.1		25.7		96.8		7.0		10.2		4		86				<0.2		3.0	
					Bottom	6.4	0.0	110	24.4	24.4	8.1	8.1	27.6	27.6	97.3	97.3	7.0	7.0	12.1		4		88				<0.2		3.0	
						6.4	0.0	119	24.4		8.1		27.6		97.3		7.0		12.2		5		88				<0.2		3.0	
IM8	Rainy	Moderate	12:32	8.0	Surface	1.0	0.1	176	24.8	24.8	7.9	7.9	23.4	23.4	99.6	99.6	7.2	7.2	9.3	9.8	4	5	86	88	821678	807839	<0.2	<0.2	3.4	3.3
						1.0	0.1	185	24.8		7.9		23.4		99.6		7.2		9.3		6		86				<0.2		3.4	
					Middle	4.0	0.1	279	24.6	24.6	7.9	7.9	24.8	24.8	98.5	98.5	7.1		9.6		6		88				<0.2		3.3	
						4.0	0.1	280	24.6		7.9		24.8		98.5		7.1		9.7		4		88				<0.2		3.3	
					Bottom	7.0	0.1	16	24.4	24.4	8.0	8.0	27.6	27.6	99.4	99.4	7.1	7.1	10.3		5		90				<0.2		3.2	
						7.0	0.1	17	24.4		8.0		27.6		99.4		7.1		10.3		6		90				<0.2		3.0	

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 24 April 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	12:39	7.2	Surface	1.0	0.0	232	24.9	24.9	7.9	7.9	23.0	23.0	99.0	99.0	7.2	7.2	9.2	9.9	6	6	86	88	822077	808811	<0.2	<0.2	3.1	3.1
						1.0	0.0	252	24.9		7.9		23.0		99.0		7.2		9.2		7		86				<0.2		3.1	
					Middle	3.6	0.1	242	24.5	24.5	7.9	7.9	25.6	25.6	98.5	98.5	7.1		10.2		5		88				<0.2		3.0	
						3.6	0.1	243	24.5		7.9		25.6		98.5		7.1		10.2		5		88				<0.2		3.1	
					Bottom	6.2	0.1	264	24.5	24.5	8.0	8.0	27.0	27.0	100.3	100.3	7.2	7.2	10.2		6		90				<0.2		3.1	
						6.2	0.1	289	24.5		8.0		27.0		100.3		7.2		10.2		5		90				<0.2		3.1	
IM10	Cloudy	Moderate	12:48	7.3	Surface	1.0	0.1	335	25.0	25.0	7.9	7.9	24.2	24.2	99.6	99.6	7.2	7.1	8.5	10.4	2	3	86	88	822223	809836	<0.2	<0.2	2.9	2.8
						1.0	0.2	337	25.0		7.9		24.3		99.6		7.2		8.5		3		86				<0.2		3.0	
					Middle	3.7	0.1	314	24.4	24.4	7.9	7.9	26.8	26.8	96.7	96.7	6.9		11.1		4		88				<0.2		2.8	
						3.7	0.1	344	24.4		7.9		26.8		96.6		6.9		11.1		4		88				<0.2		2.7	
					Bottom	6.3	0.1	300	24.4	24.4	8.0	8.0	27.0	27.0	98.2	98.3	7.0	7.0	11.4		3		90				<0.2		2.8	
						6.3	0.1	318	24.4		8.0		27.0		98.3		7.0		11.5		4		90				<0.2		2.8	
IM11	Cloudy	Moderate	13:02	7.5	Surface	1.0	0.1	275	24.8	24.8	8.0	8.0	24.9	24.9	100.4	100.4	7.2	7.2	9.3	10.9	6	5	86	88	821518	810543	<0.2	<0.2	2.7	2.8
						1.0	0.2	288	24.8		8.0		24.9		100.4		7.2		9.3		5		86				<0.2		2.6	
					Middle	3.8	0.2	286	24.7	24.7	8.0	8.0	25.7	25.7	98.4	98.4	7.1		10.3		4		88				<0.2		2.6	
						3.8	0.2	301	24.7		8.0		25.7		98.4		7.1		10.4		4		88				<0.2		2.9	
					Bottom	6.5	0.2	283	24.6	24.6	8.1	8.1	27.1	27.1	97.9	98.0	7.0	7.0	12.9		5		90				<0.2		3.0	
						6.5	0.2	306	24.6		8.1		27.1		98.0		7.0		12.9		5		90				<0.2		3.0	
IM12	Cloudy	Moderate	13:10	8.9	Surface	1.0	0.3	300	24.8	24.8	8.0	8.0	24.8	24.8	100.6	100.6	7.3	7.0	9.2	11.1	4	4	85	88	821165	811537	<0.2	<0.2	2.7	2.9
						1.0	0.3	307	24.8		8.0		24.8		100.5		7.2		9.2		4		86				<0.2		2.8	
					Middle	4.5	0.3	285	24.6	24.6	8.0	8.0	27.2	27.2	94.9	94.9	6.8		10.7		4		88				<0.2		2.9	
						4.5	0.4	300	24.6		8.0		27.2		94.8		6.8		10.7		3		88				<0.2		3.0	
					Bottom	7.9	0.1	264	23.9	23.9	8.0	8.0	30.3	30.3	91.1	91.2	6.5	6.5	13.3		3		90				<0.2		3.0	
						7.9	0.1	275	23.9		8.0		30.3		91.2		6.5		13.2		3		90				<0.2		3.2	
SR2	Cloudy	Moderate	13:37	4.6	Surface	1.0	0.1	245	24.9	24.9	7.9	7.9	25.1	25.1	98.1	98.1	7.0	7.0	8.7	9.2	3	4	86	87	821438	814188	<0.2	<0.2	2.9	2.9
						1.0	0.1	268	24.9		7.9		25.1		98.0		7.0		8.7		4		85				<0.2		2.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.2	307	24.4	24.3	8.0	8.0	28.4	28.4	94.8	94.9	6.8	6.8	9.6		3		88				<0.2		2.8	
						3.6	0.2	319	24.3		8.0		28.4		94.9		6.8		9.7		5		88				<0.2		2.8	
SR3	Rainy	Moderate	12:26	8.3	Surface	1.0	0.2	189	24.8	24.8	7.9	7.9	23.7	23.7	98.3	98.3	7.1	7.1	9.4	10.8	5	7	-	-	822171	807591	-	-	-	-
						1.0	0.2	202	24.8		7.9		23.7		98.3		7.1		9.4		5		-				-		-	
					Middle	4.2	0.1	284	24.5	24.5	7.9	7.9	25.8	25.8	97.4	97.4	7.0		10.6		6		-				-		-	
						4.2	0.1	310	24.5		7.9		25.8		97.4		7.0		10.6		7		-				-		-	
					Bottom	7.3	0.1	25	24.4	24.4	8.0	8.0	27.9	27.9	99.0	99.0	7.1	7.1	12.3		10		-				-		-	
						7.3	0.1	27	24.4		8.0		27.9		99.0		7.1		12.4		8		-				-		-	
SR4A	Cloudy	Calm	13:35	9.2	Surface	1.0	0.1	285	24.5	24.5	8.1	8.1	28.4	28.4	101.5	101.5	7.2	7.2	9.1	9.7	5	6	-	-	817170	807801	-	-	-	-
						1.0	0.1	287	24.5		8.1		28.4		101.4		7.2		9.3		4		-				-		-	
					Middle	4.6	0.2	232	24.1	24.1	8.1	8.1	30.2	30.2	100.4	100.4	7.1		9.5		6		-				-		-	
						4.6	0.2	245	24.1		8.1		30.2		100.4		7.1		9.6		7		-				-		-	
					Bottom	8.2	0.1	230	24.1	24.1	8.1	8.1	30.4	30.3	100.2	100.3	7.1	7.1	10.2		6		-				-		-	
						8.2	0.1	232	24.1		8.1		30.3		100.3		7.1		10.6		7		-				-		-	
SR5A	Cloudy	Calm	13:52	5.2	Surface	1.0	0.1	278	24.9	24.9	8.1	8.1	28.2	28.2	101.0	100.9	7.1	7.1	7.9	9.2	5	6	-	-	816587	810674	-	-	-	-
						1.0	0.1	281	24.9		8.1		28.2		100.8		7.1		8.0		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	303	24.7	24.7	8.1	8.1	28.8	28.8	99.1	99.2	7.0	7.0	10.5		6		-				-		-	
						4.2	0.1	320	24.7		8.1		28.8		99.2		7.0		10.4		5		-				-		-	
SR6	Cloudy	Calm	14:16	4.3	Surface	1.0	0.2	253	24.9	24.9	8.1	8.1	26.1	26.1	102.2	102.1	7.3	7.3	11.9	15.6	4	6	-	-	817899	814665	-	-	-	-
						1.0	0.2	258	24.9		8.1		26.1		102.0		7.3		12.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	250	24.8	24.8	8.1	8.1	28.4	28.4	100.4	100.5	7.1	7.1	19.0		6		-				-		-	
						3.3	0.2	260	24.8		8.1		28.4		100.5		7.1		19.3		7		-				-		-	
SR7	Cloudy	Moderate	14:33	19.3	Surface	1.0	0.1	324	24.4	24.4	8.0	8.0	29.2	29.2	103.5	103.5	7.3	6.8	6.7	8.0	5	4	-	-	823612	823728	-	-	-	-
						1.0	0.1	338	24.4		8.0		29.2		103.4		7.3		6.7		5		-				-		-	
					Middle	9.7	0.1	18	23.6	23.6	8.0	8.0	32.4	32.4	89.6	89.7	6.3		8.1		4		-				-		-	
						9.7	0.1	18	23.6		8.0		32.5		89.7		6.3		8.1		4		-				-		-	
					Bottom	18.3	0.2	79	23.5	23.5	8.0	8.0	32.9	32.9	91.3	91.4	6.4	6.4	9.2		3		-				-		-	
						18.3	0.2	80	23.5		8.0		32.9		91.5		6.4		9.2		4		-				-		-	
SR8	Cloudy	Moderate	13:20	4.0	Surface	1.0	-	-	24.9	24.9	8.0	8.0	24.0	24.0	107.1	107.1	7.7	7.7	9.0	10.3	5	4	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.9		8.0		24.0		107.1		7.7		9.0		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	24.8	24.8	8.0	8.0	25.0	24.9	103.8	103.8	7.5	7.5	11.6		4		-				-		-	
						3.0	-	-	24.8		8.0		24.9		103.7		7.5		11.5		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 26 April 18 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	11:08	8.8	Surface	1.0	0.1	211	23.7	23.7	8.2	8.2	30.5	30.5	109.6	109.6	7.8	7.7	6.7	8.2	4	6	85	88	815646	804218	<0.2	<0.2	1.2	1.3
						1.0	0.1	224	23.7		8.2		30.5		109.6		7.8		6.9		4		86				<0.2		1.3	
					Middle	4.4	0.2	196	23.7	23.7	8.2	8.2	32.0	32.0	106.0	106.0	7.5		7.9		7		87				<0.2		1.3	
						4.4	0.3	197	23.7		8.2		32.0		106.0		7.5		8.1		5		88				<0.2		1.2	
					Bottom	7.8	0.3	193	23.6	23.6	8.2	8.2	32.8	32.8	104.2	104.3	7.3	7.3	9.8		7		89				<0.2		1.2	
						7.8	0.3	209	23.6		8.2		32.8		104.3		7.3		9.8		6		90				<0.2		1.3	
C2	Cloudy	Moderate	12:21	11.6	Surface	1.0	0.6	173	24.3	24.3	7.9	7.9	27.0	27.0	93.4	93.4	6.7	6.7	10.5	11.9	8	11	84	86	825681	806956	<0.2	<0.2	2.3	1.8
						1.0	0.7	180	24.3		7.9		27.0		93.4		6.7		10.5		8		84				<0.2		2.2	
					Middle	5.8	0.5	171	24.0	24.0	8.0	8.0	29.7	29.7	92.4	92.4	6.6		12.4		12		86				<0.2		1.9	
						5.8	0.5	176	24.0		8.0		29.7		92.4		6.6		12.4		12		86				<0.2		1.8	
					Bottom	10.6	0.2	138	24.0	24.0	8.0	8.0	30.0	30.0	94.3	94.3	6.7	6.7	12.9		12		88				<0.2		1.3	
						10.6	0.2	144	24.0		8.0		30.0		94.3		6.7		12.9		13		89				<0.2		1.2	
C3	Cloudy	Moderate	10:11	12.3	Surface	1.0	0.3	62	23.9	23.9	8.0	8.0	30.4	30.4	94.0	94.0	6.7	6.7	6.7	7.7	6	7	85	88	822087	817796	<0.2	<0.2	1.1	0.8
						1.0	0.3	65	23.9		8.0		30.4		94.0		6.7		6.7		6		86				<0.2		1.1	
					Middle	6.2	0.3	98	23.7	23.7	8.0	8.0	31.8	31.8	93.3	93.3	6.6		7.6		6		87				<0.2		0.8	
						6.2	0.3	103	23.7		8.0		31.8		93.3		6.6		7.6		7		88				<0.2		0.8	
					Bottom	11.3	0.3	90	23.6	23.6	8.0	8.0	32.6	32.6	93.7	93.7	6.6	6.6	8.7		7		89				<0.2		0.6	
						11.3	0.3	97	23.6		8.0		32.6		93.7		6.6		8.7		7		90				<0.2		0.5	
IM1	Cloudy	Moderate	11:27	7.3	Surface	1.0	0.1	215	23.7	23.7	8.2	8.2	30.4	30.4	108.1	108.1	7.7	7.5	6.4	9.3	5	7	86	88	818353	806438	<0.2	<0.2	1.2	1.1
						1.0	0.1	231	23.7		8.2		30.4		108.0		7.7		6.5		6		86				<0.2		1.1	
					Middle	3.7	0.1	217	23.7	23.7	8.2	8.2	31.9	31.9	103.6	103.6	7.3		8.1		5		88				<0.2		1.2	
						3.7	0.1	223	23.7		8.2		31.9		103.5		7.3		8.0		6		88				<0.2		1.1	
					Bottom	6.3	0.1	182	23.6	23.6	8.2	8.2	32.5	32.5	102.4	102.4	7.2	7.2	13.4		11		90				<0.2		1.1	
						6.3	0.1	189	23.6		8.2		32.5		102.4		7.2		13.3		10		91				<0.2		1.1	
IM2	Cloudy	Moderate	11:33	8.3	Surface	1.0	0.3	213	23.7	23.7	8.2	8.2	31.4	31.4	105.0	105.0	7.4	7.4	7.9	9.5	6	8	86	88	818822	806200	<0.2	<0.2	1.1	1.1
						1.0	0.3	223	23.7		8.2		31.4		105.0		7.4		7.8		7		86				<0.2		1.1	
					Middle	4.2	0.3	197	23.7	23.7	8.2	8.2	32.0	32.0	102.8	102.8	7.3		9.3		8		88				<0.2		1.1	
						4.2	0.3	215	23.7		8.2		32.0		102.8		7.3		9.3		8		88				<0.2		1.1	
					Bottom	7.3	0.2	187	23.6	23.6	8.2	8.2	32.4	32.4	102.7	102.9	7.2	7.3	11.4		9		90				<0.2		1.1	
						7.3	0.2	199	23.6		8.2		32.4		103.1		7.3		11.1		7		91				<0.2		1.2	
IM3	Cloudy	Moderate	11:39	8.0	Surface	1.0	0.3	243	23.7	23.7	8.2	8.2	31.2	31.2	106.0	106.0	7.5	7.4	7.6	11.1	8	8	86	88	819393	805991	<0.2	<0.2	1.1	1.0
						1.0	0.3	244	23.7		8.2		31.2		105.9		7.5		7.5		8		86				<0.2		1.1	
					Middle	4.0	0.3	229	23.7	23.7	8.2	8.2	31.7	31.7	103.4	103.4	7.3		9.9		9		88				<0.2		1.0	
						4.0	0.3	229	23.7		8.2		31.7		103.4		7.3		10.0		8		88				<0.2		1.0	
					Bottom	7.0	0.3	203	23.7	23.7	8.2	8.2	32.3	32.3	102.7	102.7	7.2	7.2	16.0		9		90				<0.2		1.0	
						7.0	0.3	214	23.7		8.2		32.3		102.7		7.2		15.8		8		91				<0.2		1.0	
IM4	Cloudy	Moderate	11:46	7.7	Surface	1.0	0.3	228	23.7	23.7	8.2	8.2	31.4	31.4	106.1	106.1	7.5	7.5	8.0	8.4	7	8	86	88	819593	805016	<0.2	<0.2	1.0	1.0
						1.0	0.3	235	23.7		8.2		31.4		106.1		7.5		7.9		6		86				<0.2		1.0	
					Middle	3.9	0.3	214	23.7	23.7	8.2	8.2	32.2	32.2	104.9	104.9	7.4		8.1		8		88				<0.2		1.0	
						3.9	0.3	227	23.7		8.2		32.2		104.8		7.4		8.2		8		88				<0.2		1.0	
					Bottom	6.7	0.3	196	23.7	23.7	8.2	8.2	32.4	32.4	104.9	105.0	7.4	7.4	9.1		10		91				<0.2		1.1	
						6.7	0.3	209	23.7		8.2		32.4		105.0		7.4		9.2		8		90				<0.2		1.0	
IM5	Cloudy	Moderate	11:57	6.8	Surface	1.0	0.5	202	23.9	23.9	8.2	8.2	30.0	30.0	106.9	106.9	7.6	7.6	6.8	7.7	6	7	86	89	820562	804905	<0.2	<0.2	0.9	1.0
						1.0	0.5	207	23.9		8.2		30.0		106.9		7.6		6.9		6		86				<0.2		0.9	
					Middle	3.4	0.4	193	23.8	23.8	8.2	8.2	30.4	30.4	106.3	106.3	7.5		7.7		6		89				<0.2		0.9	
						3.4	0.4	204	23.8		8.2		30.4		106.3		7.5		7.9		7		88				<0.2		0.9	
					Bottom	5.8	0.2	173	23.7	23.7	8.2	8.2	31.5	31.5	105.5	105.5	7.5	7.5	8.3		8		91				<0.2		1.0	
						5.8	0.2	186	23.7		8.2		31.5		105.5		7.5		8.5		8		91				<0.2		1.1	
IM6	Cloudy	Moderate	12:06	6.9	Surface	1.0	0.4	179	24.0	24.0	8.1	8.1	28.8	28.7	103.1	103.2	7.4	7.4	6.7	11.7	8	9	86	88	821078	805831	<0.2	<0.2	1.1	1.0
						1.0	0.4	186	24.0		8.1		28.7		103.2		7.4		6.8		10		86				<0.2		1.0	
					Middle	3.5	0.4	168	23.8	23.8	8.2	8.2	30.9	30.9	104.5	104.5	7.4		9.6		8		88				<0.2		1.0	
						3.5	0.4	172	23.8		8.2		30.9		104.4		7.4		9.0		8		88				<0.2		1.0	
					Bottom	5.9	0.2	144	23.7	23.7	8.2	8.2	31.8	31.8	102.0	102.0	7.2	7.2	18.9		8		91				<0.2		0.9	
						5.9	0.2	144	23.7		8.2		31.8		102.0		7.2		19.3		10		91				<0.2		1.0	
IM7	Cloudy	Moderate	12:15	8.1	Surface	1.0	0.2	218	24.1	24.1	8.1	8.1	28.0	28.0	101.1	101.1	7.2	7.3	6.6	7.9	4	6	86	88	821367	806838	<0.2	<0.2	1.2	1.3
						1.0	0.3	239	24.1		8.1		28.0		101.1		7.2		6.6		5		86				<0.2		1.2	
					Middle	4.1	0.2	173	23.9	23.9	8.1	8.1	29.8	29.8	102.0	102.0	7.3		8.5		5		88				<0.2		1.2	
						4.1	0.2	188	23.9		8.1		29.8		102.0		7.3		8.2		6		88				<0.2		1.2	
					Bottom	7.1	0.2	123	23.7	23.7	8.2	8.2	31.5	31.5	101.4	101.5	7.2	7.2	8.7		8		90				<0.2		1.3	
						7.1	0.2	129	23.7		8.2		31.5		101.5		7.2		8.9		8		91				<0.2		1.4	
IM8	Cloudy	Moderate	11:50	8.0	Surface	1.0	0.3	177	24.1	24.1	8.0	8.0	27.9	27.9	100.4	100.5	7.2	7.2	7.6	8.3	5	6	85	86	821704	807845	<0.2	<0.2	1.8	1.5
						1.0	0.3	185	24.1		8.0		27.9		100.5		7.2		7.6		5		85				<0.2		1.8	
					Middle	4.0	0.0	108	23.9	23.9	8.0	8.0	29.6	29.6	100.0	100.0	7.1		8.9		6		86				<0.2		1.5	
						4.0	0.0	109	23.9		8.0		29.6		100.0		7.1		8.9		7		86				<0.2		1.4	
					Bottom	7.0	0.0	163	23.8	23.8	8.1	8.1	31.4	31.4	101.3	101.3	7.2	7.2	8.3		7		87				<0.2		1.3	
						7.0	0.0	171	23.8		8.1		31.4		101.3		7.2		8.3		8		88				<0.2		1.4	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 26 April 18 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	11:42	7.0	Surface	1.0	0.4	143	24.0	24.0	8.0	8.0	28.4	28.4	101.0	101.0	7.2	7.2	8.4	9.4	5	5	85	86	822082	808831	<0.2	<0.2	1.4	1.2
						1.0	0.4	156	24.0		8.0		28.4		101.0		7.2		8.4		4		85				<0.2		1.4	
					Middle	3.5	0.3	117	23.9	23.9	8.0	8.0	29.6	29.6	101.3	101.3	7.2		9.6		4		86				<0.2		1.4	
						3.5	0.3	122	23.9		8.0		29.6		101.3		7.2		9.6		5		86				<0.2		1.4	
					Bottom	6.0	0.2	62	23.7	23.7	8.1	8.1	31.3	31.3	101.4	101.4	7.2	7.2	10.1		5		87				<0.2		0.9	
						6.0	0.3	62	23.7		8.1		31.3		101.4		7.2		10.1		6		88				<0.2		0.9	
IM10	Cloudy	Moderate	11:34	7.8	Surface	1.0	0.5	139	24.2	24.2	8.0	8.0	27.5	27.5	98.3	98.3	7.1	7.2	9.6	13.2	5	7	84	86	822240	809816	<0.2	<0.2	1.9	1.7
						1.0	0.5	139	24.2		8.0		27.5		98.3		7.1		9.6		6		85				<0.2		1.9	
					Middle	3.9	0.5	124	23.8	23.8	8.0	8.0	29.0	29.0	100.2	100.2	7.2		14.0		8		86				<0.2		1.8	
						3.9	0.5	128	23.8		8.0		29.0		100.2		7.2		14.0		8		86				<0.2		1.9	
					Bottom	6.8	0.3	90	23.8	23.8	8.1	8.1	31.0	31.0	99.8	99.8	7.1	7.1	15.9		8		87				<0.2		1.3	
						6.8	0.3	92	23.8		8.1		31.0		99.8		7.1		15.9		9		88				<0.2		1.3	
IM11	Cloudy	Moderate	11:16	7.8	Surface	1.0	0.4	132	24.0	24.0	8.1	8.1	28.7	28.7	100.2	100.2	7.2	7.2	9.6	14.8	6	8	85	88	821523	810560	<0.2	<0.2	1.4	1.3
						1.0	0.4	137	24.0		8.1		28.7		100.2		7.2		9.6		5		86				<0.2		1.4	
					Middle	3.9	0.3	108	23.9	23.9	8.1	8.1	29.6	29.6	100.4	100.4	7.2		14.5		8		88				<0.2		1.2	
						3.9	0.3	108	23.9		8.1		29.6		100.4		7.2		14.5		8		88				<0.2		1.4	
					Bottom	6.8	0.3	75	23.8	23.8	8.1	8.1	30.7	30.7	100.3	100.3	7.1	7.1	20.2		9		89				<0.2		1.2	
						6.8	0.3	78	23.8		8.1		30.7		100.3		7.1		20.2		9		90				<0.2		1.2	
IM12	Cloudy	Moderate	11:06	9.0	Surface	1.0	0.4	105	24.0	24.0	8.1	8.1	29.5	29.5	99.1	99.1	7.1	7.1	10.3	15.2	10	12	85	87	821154	811509	<0.2	<0.2	1.2	1.1
						1.0	0.4	107	24.0		8.1		29.5		99.1		7.1		10.3		10		86				<0.2		1.3	
					Middle	4.5	0.3	106	23.9	23.9	8.1	8.1	30.1	30.1	98.6	98.6	7.0		15.8		12		86				<0.2		1.1	
						4.5	0.3	106	23.9		8.1		30.1		98.6		7.0		15.8		13		86				<0.2		1.1	
					Bottom	8.0	0.3	84	23.8	23.8	8.1	8.1	30.7	30.7	98.8	98.8	7.0	7.0	19.5		13		89				<0.2		1.0	
						8.0	0.3	91	23.8		8.1		30.7		98.8		7.0		19.5		14		88				<0.2		0.9	
SR2	Cloudy	Moderate	10:37	4.4	Surface	1.0	0.4	88	24.0	24.0	8.0	8.0	29.4	29.4	92.8	92.8	6.6	6.6	9.2	9.7	9	11	85	87	821449	814190	<0.2	<0.2	1.3	1.3
						1.0	0.4	90	24.0		8.0		29.4		92.8		6.6		9.2		9		86				<0.2		1.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.3	81	24.0	24.0	8.0	8.0	29.9	29.9	93.2	93.2	6.6	6.6	10.2		12		87				<0.2		1.2	
						3.4	0.3	84	24.0		8.0		29.9		93.2		6.6		10.2		12		88				<0.2		1.3	
SR3	Cloudy	Moderate	11:58	9.1	Surface	1.0	0.4	179	24.1	24.1	8.0	8.0	27.4	27.4	97.6	97.6	7.0	7.1	8.8	10.6	6	8	-	-	822154	807597	-	-	-	-
						1.0	0.4	192	24.1		8.0		27.4		97.6		7.0		8.8		6		-				-		-	
					Middle	4.6	0.1	175	23.8	23.8	8.1	8.1	30.1	30.1	100.6	100.6	7.2		10.8		8		-				-		-	
						4.6	0.1	187	23.8		8.1		30.1		100.6		7.2		10.8		8		-				-		-	
					Bottom	8.1	0.2	28	23.7	23.7	8.1	8.1	31.5	31.5	101.3	101.3	7.2	7.2	12.2		11		-				-		-	
						8.1	0.2	30	23.7		8.1		31.5		101.3		7.2		12.2		9		-				-		-	
SR4A	Cloudy	Moderate	10:47	8.7	Surface	1.0	0.3	57	23.8	23.8	8.2	8.2	31.0	31.0	102.5	102.5	7.3	7.2	9.1	10.0	6	6	-	-	817195	807813	-	-	-	-
						1.0	0.3	60	23.8		8.2		31.0		102.4		7.3		9.3		7		-				-		-	
					Middle	4.4	0.3	72	23.7	23.7	8.2	8.2	31.5	31.5	100.6	100.6	7.1		10.6		6		-				-		-	
						4.4	0.3	75	23.7		8.2		31.5		100.6		7.1		9.6		6		-				-		-	
					Bottom	7.7	0.3	74	23.7	23.7	8.2	8.2	31.6	31.6	100.8	100.8	7.1	7.1	10.6		7		-				-		-	
						7.7	0.3	76	23.7		8.2		31.6		100.8		7.1		10.5		6		-				-		-	
SR5A	Cloudy	Calm	10:30	4.5	Surface	1.0	0.1	316	24.2	24.2	8.1	8.1	28.7	28.7	91.2	91.2	6.5	6.5	7.8	9.1	5	5	-	-	816586	810701	-	-	-	-
						1.0	0.1	321	24.2		8.1		28.7		91.2		6.5		7.9		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.0	116	23.9	23.9	8.1	8.1	29.8	29.8	93.1	93.1	6.6	6.6	10.2		6		-				-		-	
						3.5	0.0	122	23.9		8.1		29.8		93.1		6.6		10.4		5		-				-		-	
SR6	Cloudy	Calm	10:06	4.6	Surface	1.0	0.1	49	24.1	24.1	8.0	8.0	29.0	29.0	93.2	93.2	6.6	6.6	6.5	7.8	3	3	-	-	817882	814633	-	-	-	-
						1.0	0.1	49	24.1		8.0		29.0		93.2		6.6		6.3		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	53	24.1	24.1	8.0	8.0	29.3	29.3	93.9	94.0	6.7	6.7	9.3		4		-				-		-	
						3.6	0.1	53	24.1		8.0		29.3		94.0		6.7		9.2		4		-				-		-	
SR7	Cloudy	Moderate	09:26	16.2	Surface	1.0	0.5	65	23.6	23.6	8.0	8.0	32.2	32.2	93.5	93.5	6.6	6.6	6.8	7.4	5	5	-	-	823638	823730	-	-	-	-
						1.0	0.6	69	23.6		8.0		32.2		93.5		6.6		6.8		4		-				-		-	
					Middle	8.1	0.3	4	23.6	23.6	8.0	8.0	32.8	32.8	93.0	93.0	6.5		7.5		6		-				-		-	
						8.1	0.3	4	23.6		8.0		32.8		93.0		6.5		7.5		5		-				-		-	
					Bottom	15.2	0.3	5	23.6	23.6	8.0	8.0	32.8	32.8	93.4	93.4	6.6	6.6	7.9		5		-				-		-	
						15.2	0.3	5	23.6		8.0		32.8		93.4		6.6		7.9		6		-				-		-	
SR8	Cloudy	Moderate	10:57	4.0	Surface	1.0	-	-	24.2	24.2	8.1	8.1	29.4	29.4	95.3	95.3	6.8	6.8	10.5	11.5	7	8	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.2		8.1		29.4		95.3		6.8		10.5		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	24.1	24.1	8.1	8.1	29.9	29.9	96.3	96.3	6.8	6.8	12.5		9		-				-		-	
						3.0	-	-	24.1		8.1		29.8		96.3		6.8		12.6		10		-				-		-	

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 26 April 18 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	15:53	8.8	Surface	1.0	0.4	25	24.0	24.0	8.1	8.1	27.3	27.3	110.5	110.4	8.2	8.1	3.7	4.6	7	7	86	88	815605	804219	<0.2	<0.2	1.0	0.9
						1.0	0.4	27	24.0		8.1		27.3		110.3		8.2		3.7		8		85				<0.2		1.0	
					Middle	4.4	0.3	30	23.8	23.8	8.1	8.1	30.2	30.2	105.2	105.2	7.9		3.6		6		87				<0.2		0.9	
						4.4	0.3	31	23.8		8.1		30.2		105.1		7.9		3.8		8		88				<0.2		0.8	
					Bottom	7.8	0.3	27	23.7	23.7	8.1	8.1	31.0	31.0	99.7	99.8	7.5	7.5	6.4		7		90				<0.2		0.9	
						7.8	0.3	27	23.7		8.1		31.0		99.9		7.5		6.3		7		90				<0.2		1.0	
C2	Cloudy	Moderate	14:46	11.3	Surface	1.0	0.4	180	24.3	24.3	7.9	7.9	25.9	25.9	92.2	92.2	6.7	6.6	9.6	14.9	6	8	86	88	825710	806939	<0.2	<0.2	2.5	1.7
						1.0	0.4	184	24.3		7.9		25.9		92.2		6.7		9.6		6		85				<0.2		2.6	
					Middle	5.7	0.1	233	24.0	24.0	8.0	8.0	29.7	29.7	90.2	90.2	6.4		13.8		7		87				<0.2		1.3	
						5.7	0.1	241	24.0		8.0		29.7		90.2		6.4		13.8		8		88				<0.2		1.4	
					Bottom	10.3	0.2	332	24.0	24.0	8.0	8.0	30.0	30.0	89.3	89.3	6.3	6.3	21.3		9		89				<0.2		1.2	
						10.3	0.2	332	24.0		8.0		30.0		89.3		6.3		21.3		10		90				<0.2		1.2	
C3	Cloudy	Moderate	16:50	12.2	Surface	1.0	0.4	238	23.9	23.9	8.0	8.0	30.0	30.0	94.3	94.3	6.7	6.7	6.3	7.6	2	4	85	88	822095	817809	<0.2	<0.2	1.1	0.9
						1.0	0.4	259	23.9		8.0		30.0		94.2		6.7		6.3		3		86				<0.2		1.1	
					Middle	6.1	0.4	253	23.8	23.8	8.0	8.0	31.1	31.1	92.9	92.9	6.6		7.5		2		88				<0.2		1.1	
						6.1	0.4	270	23.8		8.0		31.1		92.9		6.6		7.5		4		88				<0.2		1.1	
					Bottom	11.2	0.4	273	23.6	23.6	8.0	8.0	32.6	32.6	93.6	93.6	6.6	6.6	8.9		6		89				<0.2		0.6	
						11.2	0.4	277	23.6		8.0		32.6		93.6		6.6		8.9		6		90				<0.2		0.6	
IM1	Cloudy	Moderate	15:33	7.4	Surface	1.0	0.3	344	24.2	24.2	8.1	8.1	27.1	27.1	112.6	112.6	8.3	8.3	3.6	4.4	5	4	85	88	818364	806479	<0.2	<0.2	1.7	1.7
						1.0	0.3	316	24.2		8.1		27.1		112.6		8.3		3.6		3		85				<0.2		1.8	
					Middle	3.7	0.2	337	23.9	23.9	8.1	8.1	27.8	27.8	110.1	110.1	8.3		3.5		4		88				<0.2		1.6	
						3.7	0.2	342	23.9		8.1		27.8		110.0		8.2		3.5		4		88				<0.2		1.6	
					Bottom	6.4	0.2	352	23.7	23.7	8.1	8.1	30.2	30.2	102.7	102.8	7.7	7.7	6.2		5		90				<0.2		1.6	
						6.4	0.2	324	23.7		8.1		30.2		102.8		7.7		6.1		4		90				<0.2		1.7	
IM2	Cloudy	Moderate	15:25	8.3	Surface	1.0	0.1	300	23.6	23.6	8.2	8.2	32.3	32.3	102.5	102.5	7.2	7.3	4.3	6.7	4	4	86	88	818867	806197	<0.2	<0.2	1.7	1.7
						1.0	0.1	326	23.6		8.2		32.3		102.5		7.2		4.3		4		85				<0.2		1.6	
					Middle	4.2	0.1	59	23.8	23.8	8.2	8.2	30.6	30.6	103.4	103.5	7.3		3.5		4		88				<0.2		1.8	
						4.2	0.1	62	23.8		8.2		30.6		103.5		7.3		3.5		4		88				<0.2		1.7	
					Bottom	7.3	0.2	21	23.8	23.8	8.2	8.2	31.1	31.1	102.9	102.9	7.3	7.3	12.3		3		90				<0.2		1.7	
						7.3	0.2	22	23.8		8.2		31.1		102.9		7.3		12.3		4		90				<0.2		1.7	
IM3	Cloudy	Moderate	15:17	8.2	Surface	1.0	0.2	241	23.8	23.8	8.2	8.2	31.4	31.4	103.0	103.0	7.3	7.4	4.5	4.2	4	5	85	88	819427	806021	<0.2	<0.2	1.7	1.7
						1.0	0.2	248	23.8		8.2		31.4		103.0		7.3		4.4		5		85				<0.2		1.7	
					Middle	4.1	0.1	308	23.8	23.8	8.2	8.2	30.6	30.6	103.7	103.7	7.4		3.9		5		88				<0.2		1.7	
						4.1	0.1	335	23.8		8.2		30.6		103.7		7.4		3.9		4		88				<0.2		1.7	
					Bottom	7.2	0.1	335	23.8	23.8	8.2	8.2	30.9	30.9	103.2	103.3	7.3	7.3	4.3		5		90				<0.2		1.6	
						7.2	0.1	337	23.8		8.2		30.9		103.3		7.3		4.2		5		90				<0.2		1.6	
IM4	Cloudy	Moderate	15:08	7.5	Surface	1.0	0.2	311	23.8	23.8	8.2	8.2	31.4	31.4	103.1	103.1	7.3	7.3	4.8	6.9	4	4	86	88	819587	805039	<0.2	<0.2	1.7	1.6
						1.0	0.3	333	23.8		8.2		31.4		103.1		7.3		4.7		4		85				<0.2		1.6	
					Middle	3.8	0.2	324	23.8	23.8	8.2	8.2	30.9	30.9	103.6	103.6	7.3		6.7		4		88				<0.2		1.6	
						3.8	0.2	352	23.8		8.2		30.9		103.6		7.3		6.7		4		88				<0.2		1.6	
					Bottom	6.5	0.1	348	25.5	24.6	8.2	8.2	30.1	30.8	101.8	103.2	7.0	7.2	9.2		4		90				<0.2		1.7	
						6.5	0.1	353	23.8		8.2		31.4		104.6		7.4		9.1		5		90				<0.2		1.6	
IM5	Cloudy	Moderate	15:00	6.8	Surface	1.0	0.2	272	24.0	24.0	8.1	8.1	28.9	28.9	102.2	102.2	7.3	7.3	8.6	9.7	4	5	86	88	820555	804925	<0.2	<0.2	1.7	1.7
						1.0	0.2	287	24.0		8.1		28.9		102.2		7.3		8.8		5		86				<0.2		1.8	
					Middle	3.4	0.2	288	23.8	23.8	8.1	8.1	30.2	30.2	102.8	102.8	7.3		9.5		5		88				<0.2		1.8	
						3.4	0.2	306	23.8		8.1		30.2		102.8		7.3		8.9		6		88				<0.2		1.6	
					Bottom	5.8	0.1	356	23.7	23.7	8.1	8.1	31.3	31.3	102.5	102.5	7.3	7.3	11.2		5		90				<0.2		1.8	
						5.8	0.1	358	23.7		8.1		31.3		102.5		7.3		11.1		7		90				<0.2		1.7	
IM6	Cloudy	Moderate	14:53	6.6	Surface	1.0	0.4	275	24.2	24.2	8.0	8.0	28.1	28.1	98.5	98.5	7.0	7.1	7.3	8.3	4	5	86	88	821036	805818	<0.2	<0.2	1.9	1.9
						1.0	0.4	287	24.2		8.0		28.1		98.5		7.0		7.5		4		86				<0.2		1.9	
					Middle	3.3	0.3	298	23.9	23.9	8.1	8.1	30.1	30.1	101.5	101.5	7.2		8.7		7		88				<0.2		2.0	
						3.3	0.3	307	23.9		8.1		30.1		101.5		7.2		8.1		6		88				<0.2		1.8	
					Bottom	5.6	0.1	343	23.7	23.7	8.1	8.1	31.2	31.2	101.5	101.5	7.2	7.2	9.0		5		90				<0.2		1.9	
						5.6	0.1	358	23.7		8.1		31.2		101.5		7.2		9.0		6		90				<0.2		1.8	
IM7	Cloudy	Moderate	14:45	8.2	Surface	1.0	0.4	256	24.3	24.3	8.0	8.0	27.3	27.3	96.1	96.1	6.9	6.9	8.0	8.3	6	5	85	87	821335	806811	<0.2	<0.2	1.7	1.8
						1.0	0.4	257	24.3		8.0		27.3		96.1		6.9		8.2		5		85				<0.2		1.8	
					Middle	4.1	0.4	295	24.0	24.0	8.1	8.1	29.1	29.1	97.0	97.0	6.9		8.4		5		87				<0.2		1.8	
						4.1	0.4	303	24.0		8.1		29.1		97.0		6.9		8.6		5		87				<0.2		1.8	
					Bottom	7.2	0.1	324	23.8	23.8	8.1	8.1	31.2	31.2	98.3	98.3	7.0	7.0	8.4		6		89				<0.2		1.8	
						7.2	0.1	334	23.8		8.1		31.2		98.3		7.0		8.1		5		89				<0.2		1.8	
IM8	Rainy	Moderate	15:10	7.9	Surface	1.0	0.3	223	24.2	24.2	8.0	8.0	27.9	27.9	94.5	94.5	6.8	6.8	8.6	8.5	6	7	85	86	821692	807861	<0.2	<0.2	1.8	1.6
						1.0	0.4	241	24.2		8.0		27.9		94.5		6.8		8.6		7		86				<0.2		1.8	
					Middle	4.0	0.3	250	24.2	24.2	8.0	8.0	28.7	28.7	95.0	95.0	6.8		8.4		7		86				<0.2		1.6	
						4.0	0.3	256	24.2		8.0		28.7		95.0		6.8		8.4		7		86				<0.2		1.7	
					Bottom	6.9	0.2	281	24.1	24.1	8.0	8.0	29.1	29.1	97.2	97.2	6.9	6.9	8.6		6		88				<0.2		1.4	
						6.9	0.2	289	24.1		8.0		29.1		97.2		6.9		8.6		6		87				<0.2		1.4	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 26 April 18 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	15:22	7.0	Surface	1.0	0.3	262	24.4	24.4	7.9	7.9	28.1	28.1	95.6	95.6	6.8	6.8	8.0	8.4	6	7	85	87	822113	808835	<0.2	<0.2	2.0	1.9
						1.0	0.3	268	24.4		7.9		28.1		95.6		6.8		8.0		7		86				<0.2		1.9	
					Middle	3.5	0.3	265	24.4	24.4	8.0	8.0	28.5	28.5	96.2	96.2	6.8		8.5		5		88				<0.2		1.8	
						3.5	0.4	276	24.4		8.0		28.5		96.2		6.8		8.5		6		88				<0.2		1.8	
					Bottom	6.0	0.2	274	24.2	24.2	8.0	8.0	28.9	28.9	99.0	99.0	7.0	7.0	8.8		10		89				<0.2		1.9	
						6.0	0.3	274	24.2		8.0		28.9		99.0		7.0		8.8		8		88				<0.2		1.7	
IM10	Rainy	Moderate	15:31	7.2	Surface	1.0	0.3	279	24.2	24.2	8.0	8.0	28.6	28.6	95.7	95.7	6.8	6.8	8.1	10.4	3	5	85	88	822232	809855	<0.2	<0.2	2.0	1.6
						1.0	0.3	293	24.2		8.0		28.6		95.7		6.8		8.1		3		86				<0.2		1.7	
					Middle	3.6	0.4	283	24.1	24.1	8.0	8.0	29.0	29.0	95.7	95.7	6.8		9.8		3		88				<0.2		1.6	
						3.6	0.4	300	24.1		8.0		29.0		95.7		6.8		9.8		4		87				<0.2		1.6	
					Bottom	6.2	0.2	282	24.0	24.0	8.0	8.0	29.4	29.4	97.4	97.4	6.9	6.9	13.2		7		89				<0.2		1.3	
						6.2	0.2	307	24.0		8.0		29.4		97.4		6.9		13.2		7		90				<0.2		1.3	
IM11	Cloudy	Moderate	15:47	8.0	Surface	1.0	0.2	290	24.1	24.1	8.0	8.0	28.4	28.4	98.7	98.7	7.1	7.1	8.0	9.9	4	4	85	87	821484	810554	<0.2	<0.2	1.7	1.5
						1.0	0.2	303	24.1		8.0		28.4		98.7		7.1		8.0		3		85				<0.2		1.6	
					Middle	4.0	0.4	293	24.0	24.0	8.1	8.1	29.4	29.4	99.3	99.3	7.1		10.5		3		87				<0.2		1.6	
						4.0	0.4	312	24.0		8.1		29.4		99.3		7.1		10.5		4		88				<0.2		1.4	
					Bottom	7.0	0.3	290	23.9	23.9	8.1	8.1	30.0	30.0	99.5	99.5	7.1	7.1	11.2		3		88				<0.2		1.3	
						7.0	0.3	317	23.9		8.1		30.0		99.5		7.1		11.2		5		89				<0.2		1.3	
IM12	Cloudy	Moderate	15:56	7.7	Surface	1.0	0.6	282	24.0	24.0	8.1	8.1	29.1	29.1	100.2	100.2	7.1	7.2	7.4	8.2	3	3	85	87	821176	811502	<0.2	<0.2	1.4	1.3
						1.0	0.6	285	24.0		8.1		29.1		100.2		7.1		7.4		2		86				<0.2		1.4	
					Middle	3.9	0.5	284	24.0	24.0	8.1	8.1	29.7	29.7	101.6	101.6	7.2		8.4		3		87				<0.2		1.2	
						3.9	0.5	288	24.0		8.1		29.7		101.6		7.2		8.4		4		88				<0.2		1.2	
					Bottom	6.7	0.4	286	24.0	24.0	8.1	8.1	30.0	30.0	102.5	102.5	7.3	7.3	8.7		3		87				<0.2		1.2	
						6.7	0.4	306	24.0		8.1		30.0		102.5		7.3		8.7		4		88				<0.2		1.2	
SR2	Cloudy	Moderate	16:26	4.8	Surface	1.0	0.2	25	24.0	24.0	8.0	8.0	29.6	29.6	96.3	96.3	6.8	6.8	7.8	8.1	4	6	86	86	821491	814165	<0.2	<0.2	1.3	1.4
						1.0	0.2	26	24.0		8.0		29.6		96.3		6.8		7.8		4		85				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	85	23.9	23.9	8.0	8.0	30.1	30.1	97.1	97.1	6.9	6.9	8.3		7		87				<0.2		1.2	
						3.8	0.1	90	23.9		8.0		30.1		97.1		6.9		8.3		9		87				<0.2		1.7	
SR3	Rainy	Moderate	15:05	8.1	Surface	1.0	0.4	214	24.3	24.3	7.9	7.9	27.3	27.3	95.7	95.7	6.9	6.9	8.3	9.2	8	10	-	-	822176	807563	-	-	-	-
						1.0	0.4	229	24.3		7.9		27.3		95.7		6.9		8.3		8		-				-		-	
					Middle	4.1	0.3	232	24.0	24.0	8.0	8.0	28.9	28.9	97.4	97.4	6.9		9.2		10		-				-		-	
						4.1	0.3	245	24.0		8.0		28.9		97.4		6.9		9.2		12		-				-		-	
					Bottom	7.1	0.2	270	24.0	24.0	8.0	8.0	29.4	29.4	99.5	99.5	7.1	7.1	10.1		12		-				-		-	
						7.1	0.2	295	24.0		8.0		29.4		99.5		7.1		10.1		11		-				-		-	
SR4A	Cloudy	Moderate	16:13	8.8	Surface	1.0	0.2	234	23.8	23.8	8.1	8.1	27.7	27.7	103.8	103.8	7.7	7.5	6.3	7.2	7	11	-	-	817202	807784	-	-	-	-
						1.0	0.3	242	23.8		8.1		27.7		103.7		7.7		6.3		8		-				-		-	
					Middle	4.4	0.2	226	23.8	23.8	8.0	8.0	28.8	28.8	95.5	95.8	7.2		6.7		11		-				-		-	
						4.4	0.2	247	23.8		8.0		28.8		96.1		7.2		6.8		13		-				-		-	
					Bottom	7.8	0.1	241	25.5	24.6	8.1	8.0	29.5	29.5	99.0	98.9	7.4	7.4	8.5		12		-				-		-	
						7.8	0.1	248	23.8		8.0		29.5		98.8		7.4		8.6		13		-				-		-	
SR5A	Cloudy	Moderate	16:31	5.3	Surface	1.0	0.2	308	23.9	23.9	8.0	8.0	28.6	28.6	99.9	99.9	7.4	7.4	5.7	7.1	13	13	-	-	816593	810671	-	-	-	-
						1.0	0.2	310	23.9		8.0		28.6		99.8		7.4		5.6		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.2	290	23.8	23.8	8.0	8.0	29.1	29.1	93.4	93.8	7.0	7.0	8.5		15		-				-		-	
						4.3	0.2	307	23.8		8.0		29.1		94.2		7.0		8.5		13		-				-		-	
SR6	Cloudy	Moderate	16:54	4.4	Surface	1.0	0.1	107	23.8	23.8	8.1	8.1	27.1	27.1	98.1	98.0	7.3	7.3	7.2	8.4	14	14	-	-	817899	814672	-	-	-	-
						1.0	0.1	111	23.8		8.1		27.1		97.9		7.3		7.1		13		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.1	204	23.7	23.7	8.0	8.0	28.5	28.5	88.8	88.9	6.6	6.6	9.7		14		-				-		-	
						3.4	0.1	222	23.7		8.0		28.5		89.0		6.6		9.7		15		-				-		-	
SR7	Cloudy	Moderate	17:25	16.8	Surface	1.0	0.1	355	23.7	23.7	8.0	8.0	32.0	32.0	93.3	93.3	6.6	6.6	6.4	7.2	12	13	-	-	823618	823765	-	-	-	-
						1.0	0.1	355	23.7		8.0		32.0		93.3		6.6		6.4		12		-				-		-	
					Middle	8.4	0.2	57	23.6	23.6	8.0	8.0	32.6	32.6	92.6	92.6	6.5		7.6		13		-				-		-	
						8.4	0.2	57	23.6		8.0		32.6		92.6		6.5		7.6		12		-				-		-	
					Bottom	15.8	0.1	36	23.6	23.6	8.0	8.0	32.7	32.7	93.1	93.1	6.6	6.6	7.5		15		-				-		-	
						15.8	0.1	38	23.6		8.0		32.7		93.1		6.6		7.5		16		-				-		-	
SR8	Cloudy	Moderate	16:06	4.2	Surface	1.0	-	-	24.0	24.0	8.0	8.0	28.9	28.9	101.5	101.5	7.2	7.2	7.6	7.7	12	11	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.0		8.0		28.9		101.5		7.2		7.6		11		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	24.0	24.0	8.0	8.0	28.9	28.9	105.6	105.6	7.5	7.5	7.8		12		-				-		-	
						3.2	-	-	24.0		8.0		28.9		105.6		7.5		7.8		10		-				-		-	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 April 18 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	12:27	8.4	Surface	1.0	0.6	227	24.3	24.3	8.2	8.2	29.0	29.0	107.3	107.3	7.6	7.6	7.8	8.0	7	9	83	86	815630	804276	<0.2	<0.2	1.5	1.3
						1.0	0.6	247	24.3		8.2		29.0		107.2		7.6		7.9		8		84				<0.2		1.6	
					Middle	4.2	0.4	211	24.1	24.1	8.2	8.2	29.7	29.7	105.8	105.8	7.5		8.0		7		86				<0.2		1.3	
						4.2	0.4	225	24.1		8.2		29.7		105.8		7.5		8.0		9		86				<0.2		1.2	
					Bottom	7.4	0.4	207	24.0	24.0	8.2	8.2	30.3	30.4	105.0	105.0	7.4	7.4	8.0		10		88				<0.2		1.1	
						7.4	0.4	215	24.0		8.2		30.4		105.0		7.4		8.1		11		88				<0.2		1.3	
C2	Fine	Moderate	13:38	9.2	Surface	1.0	0.9	169	25.1	25.1	7.8	7.8	25.7	25.7	87.1	87.1	6.2	6.1	3.3	6.7	4	7	85	88	825696	806941	<0.2	<0.2	2.3	2.3
						1.0	1.0	174	25.1		7.8		25.7		87.1		6.2		3.4		5		85				<0.2		2.3	
					Middle	4.6	0.9	164	24.4	24.4	7.9	7.9	26.2	26.2	84.0	84.0	6.0		5.6		9		88				<0.2		2.3	
						4.6	1.0	171	24.4		7.9		26.2		83.9		6.0		5.8		8		87				<0.2		2.4	
					Bottom	8.2	0.4	178	24.1	24.1	7.9	7.9	27.6	27.6	83.6	83.6	6.0	6.0	11.2		9		90				<0.2		2.3	
						8.2	0.4	184	24.1		7.9		27.6		83.6		6.0		11.2		8		90				<0.2		2.4	
C3	Cloudy	Moderate	11:16	12.3	Surface	1.0	0.4	45	24.3	24.3	8.0	8.0	29.1	29.1	92.1	92.1	6.5	6.3	2.4	4.1	6	5	85	88	822089	817827	<0.2	<0.2	1.9	1.9
						1.0	0.4	48	24.3		8.0		29.1		92.0		6.5		2.4		4		86				<0.2		2.4	
					Middle	6.2	0.4	83	23.8	23.8	8.0	8.0	30.5	30.6	85.3	85.3	6.1		4.1		6		88				<0.2		2.2	
						6.2	0.4	89	23.8		8.0		30.6		85.3		6.1		4.3		4		88				<0.2		1.6	
					Bottom	11.3	0.4	107	23.7	23.7	8.0	8.0	30.9	30.9	85.2	85.2	6.0	6.0	5.7		7		90				<0.2		1.5	
						11.3	0.4	110	23.7		8.0		30.9		85.2		6.0		5.7		5		90				<0.2		1.6	
IM1	Cloudy	Moderate	12:49	7.1	Surface	1.0	0.6	194	24.5	24.5	8.2	8.2	29.6	29.6	103.8	103.7	7.3	7.3	11.2	18.3	7	6	83	86	818341	806439	<0.2	<0.2	1.0	1.2
						1.0	0.6	199	24.5		8.2		29.6		103.5		7.3		11.6		7		84				<0.2		1.1	
					Middle	3.6	0.5	191	24.2	24.2	8.1	8.1	29.8	29.8	101.4	101.4	7.2		16.4		5		85				<0.2		1.0	
						3.6	0.6	194	24.2		8.1		29.8		101.4		7.2		16.9		6		86				<0.2		1.0	
					Bottom	6.1	0.4	185	24.1	24.1	8.1	8.1	29.9	29.9	101.2	101.3	7.2	7.2	26.9		5		87				<0.2		1.4	
						6.1	0.4	202	24.1		8.1		29.9		101.3		7.2		26.7		6		88				<0.2		1.4	
IM2	Cloudy	Moderate	12:55	8.1	Surface	1.0	0.6	205	24.7	24.7	8.1	8.1	28.4	28.4	103.6	103.7	7.3	7.3	10.2	14.4	6	7	84	86	818878	806197	<0.2	<0.2	1.3	1.6
						1.0	0.6	223	24.7		8.1		28.4		103.7		7.3		10.2		7		85				<0.2		1.4	
					Middle	4.1	0.5	202	24.5	24.5	8.2	8.2	29.2	29.2	103.5	103.5	7.3		12.3		5		86				<0.2		1.3	
						4.1	0.6	204	24.5		8.2		29.2		103.4		7.3		12.3		6		86				<0.2		1.4	
					Bottom	7.1	0.4	194	24.2	24.2	8.2	8.2	29.7	29.7	100.9	100.9	7.2	7.2	20.6		8		88				<0.2		1.4	
						7.1	0.4	207	24.2		8.2		29.7		100.9		7.2		20.7		9		88				<0.2		2.8	
IM3	Cloudy	Moderate	13:02	7.9	Surface	1.0	0.4	210	24.6	24.6	8.1	8.1	28.8	28.8	102.5	102.5	7.2	7.2	11.7	15.9	7	8	85	87	819397	806003	<0.2	<0.2	1.4	1.4
						1.0	0.4	214	24.6		8.1		28.8		102.5		7.2		11.4		7		85				<0.2		1.4	
					Middle	4.0	0.4	218	24.3	24.3	8.2	8.2	29.5	29.5	101.6	101.6	7.2		14.6		7		88				<0.2		1.4	
						4.0	0.4	230	24.3		8.2		29.5		101.6		7.2		14.5		8		88				<0.2		1.4	
					Bottom	6.9	0.4	189	24.2	24.2	8.2	8.2	29.8	29.8	101.3	101.4	7.2	7.2	21.6		8		89				<0.2		1.4	
						6.9	0.4	204	24.2		8.2		29.8		101.4		7.2		21.8		9		89				<0.2		1.5	
IM4	Cloudy	Moderate	13:09	7.2	Surface	1.0	0.5	205	24.6	24.6	8.2	8.2	29.2	29.2	104.0	104.0	7.3	7.3	15.4	19.3	11	11	85	86	819563	805042	<0.2	<0.2	1.5	1.5
						1.0	0.6	218	24.6		8.2		29.2		104.0		7.3		15.6		11		85				<0.2		1.4	
					Middle	3.6	0.6	196	24.4	24.4	8.1	8.1	29.4	29.4	103.6	103.6	7.3		19.1		12		86				<0.2		1.4	
						3.6	0.6	211	24.4		8.1		29.4		103.6		7.3		19.1		12		86				<0.2		1.5	
					Bottom	6.2	0.4	195	24.4	24.4	8.1	8.1	29.6	29.6	103.2	103.2	7.3	7.3	23.1		11		88				<0.2		1.4	
						6.2	0.5	206	24.4		8.1		29.6		103.1		7.3		23.2		10		88				<0.2		1.6	
IM5	Cloudy	Moderate	13:22	6.4	Surface	1.0	0.9	214	24.6	24.6	8.1	8.1	28.7	28.7	103.6	103.6	7.3	7.3	13.9	19.2	8	12	85	88	820543	804908	<0.2	<0.2	1.3	1.3
						1.0	0.9	217	24.6		8.1		28.7		103.5		7.3		14.0		10		86				<0.2		1.3	
					Middle	3.2	0.7	213	24.3	24.3	8.1	8.1	29.3	29.3	102.1	102.1	7.2		20.8		10		88				<0.2		1.3	
						3.2	0.7	221	24.3		8.1		29.3		102.0		7.2		21.0		10		89				<0.2		1.3	
					Bottom	5.4	0.6	212	24.2	24.2	8.1	8.1	29.4	29.4	101.9	101.9	7.2	7.2	22.8		17		90				<0.2		1.4	
						5.4	0.6	215	24.2		8.1		29.4		101.9		7.2		22.7		17		90				<0.2		1.4	
IM6	Cloudy	Moderate	13:32	6.3	Surface	1.0	0.6	222	24.8	24.8	8.1	8.1	27.9	27.9	99.9	99.9	7.1	7.1	11.6	16.3	6	7	86	88	821036	805832	<0.2	<0.2	1.3	1.4
						1.0	0.6	229	24.8		8.1		27.9		99.9		7.1		11.6		5		86				<0.2		1.3	
					Middle	3.2	0.5	217	24.4	24.4	8.1	8.1	28.8	28.8	100.0	100.1	7.1		16.4		6		88				<0.2		1.4	
						3.2	0.5	234	24.4		8.1		28.8		100.1		7.1		16.4		7		89				<0.2		1.5	
					Bottom	5.3	0.4	220	24.4	24.4	8.1	8.1	28.9	28.9	100.5	100.6	7.1	7.1	21.1		8		90				<0.2		1.3	
						5.3	0.5	223	24.4		8.1		28.9		100.7		7.1		20.9		8		90				<0.2		1.4	
IM7	Cloudy	Moderate	13:42	7.8	Surface	1.0	0.7	221	25.3	25.3	8.1	8.1	27.3	27.3	99.4	99.4	7.0	7.0	12.7	17.7	6	7	85	88	821348	806852	<0.2	<0.2	1.3	1.4
						1.0	0.7	234	25.3		8.1		27.3		99.4		7.0		12.8		6		86				<0.2		1.4	
					Middle	3.9	0.6	229	24.5	24.5	8.1	8.1	28.3	28.3	98.8	98.8	7.0		16.1		7		88				<0.2		1.5	
						3.9	0.6	229	24.5		8.1		28.3		98.8		7.0		16.3		7		88				<0.2		1.2	
					Bottom	6.8	0.5	245	24.2	24.2	8.1	8.1	29.0	29.0	98.0	98.0	7.0	7.0	24.1		6		90				<0.2		1.4	
						6.8	0.5	250	24.2		8.1		29.0		98.0		7.0		24.2		7		90				<0.2		1.3	
IM8	Fine	Moderate	13:01	7.8	Surface	1.0	0.5	195	24.8	24.8	7.9	7.9	27.1	27.1	93.4	93.4	6.6	6.7	5.0	6.0	8	7	86	88	821697	807832	<0.2	<0.2	1.8	1.7
						1.0	0.5	204	24.8		7.9		27.1		93.4		6.6		4.9		7		85				<0.2		1.6	
					Middle	3.9	0.4	215	24.2	24.2	8.0	8.0	28.4	28.4	93.9	93.9	6.7		6.0		6		88				<0.2		1.7	
						3.9	0.4	222	24.2		8.0		28.4		93.9		6.7		6.1		6		88				<0.2		1.6	
					Bottom	6.8	0.3	257	24.2	24.2	8.0	8.0	28.6	28.6	94.2	94.2	6.7	6.7	6.8		8		90				<0.2		1.7	
						6.8	0.3	267	24.2		8.0		28.6		94.2		6.7		7.0		9		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 28 April 18 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	12:52	7.0	Surface	1.0	0.5	144	24.6	24.6	7.9	7.9	27.3	27.3	90.9	91.0	6.5	6.6	5.6	10.1	8	7	85	88	822084	808783	<0.2	<0.2	2.0	1.9
						1.0	0.5	144	24.6		7.9		27.3		91.0		6.5		5.7		8		86				<0.2		2.0	
					Middle	3.5	0.3	134	24.2	24.2	8.0	8.0	28.4	28.4	93.5	93.6	6.7		11.4		8		88				<0.2		1.9	
						3.5	0.4	141	24.2		8.0		28.4		93.6		6.7		11.4		6		88				<0.2		1.8	
					Bottom	6.0	0.3	133	24.2	24.2	8.0	8.0	28.4	28.4	94.2	94.2	6.7	6.7	12.5		6		90				<0.2		1.9	
						6.0	0.3	140	24.2		8.0		28.4		94.2		6.7		14.1		6		90				<0.2		2.0	
IM10	Fine	Moderate	12:43	6.7	Surface	1.0	0.5	129	24.9	24.9	7.9	7.9	27.0	27.0	93.8	93.8	6.7	6.7	5.1	7.2	7	7	85	88	822228	809822	<0.2	<0.2	2.0	1.9
						1.0	0.5	133	24.9		7.9		27.0		93.8		6.7		5.1		6		85				<0.2		2.0	
					Middle	3.4	0.6	119	24.4	24.4	8.0	8.0	27.6	27.6	93.4	93.4	6.7		6.3		6		88				<0.2		2.0	
						3.4	0.7	125	24.4		8.0		27.7		93.4		6.7		6.3		6		88				<0.2		1.9	
					Bottom	5.7	0.5	106	24.2	24.2	8.0	8.0	28.3	28.3	93.4	93.4	6.7	6.7	10.3		8		90				<0.2		1.8	
						5.7	0.5	113	24.2		8.0		28.3		93.4		6.7		10.1		9		90				<0.2		1.8	
IM11	Fine	Moderate	12:25	8.0	Surface	1.0	0.2	135	24.4	24.4	8.0	8.0	27.8	27.9	94.9	94.9	6.8	6.8	4.4	6.0	7	9	85	88	821514	810524	<0.2	<0.2	1.9	1.7
						1.0	0.2	148	24.4		8.0		27.9		94.9		6.8		4.4		7		85				<0.2		1.8	
					Middle	4.0	0.3	88	24.3	24.3	8.0	8.0	28.2	28.2	94.8	94.9	6.8		5.0		10		88				<0.2		1.6	
						4.0	0.3	91	24.3		8.0		28.2		94.9		6.8		5.1		9		88				<0.2		1.6	
					Bottom	7.0	0.3	80	24.3	24.3	8.1	8.1	28.6	28.6	95.6	95.6	6.8	6.8	8.7		11		90				<0.2		1.5	
						7.0	0.3	86	24.3		8.1		28.6		95.6		6.8		8.4		9		90				<0.2		1.5	
IM12	Fine	Moderate	12:15	8.9	Surface	1.0	0.4	122	24.4	24.4	8.0	8.0	28.1	28.1	95.7	95.7	6.8	6.8	4.6	6.5	10	11	85	88	821159	811496	<0.2	<0.2	1.6	1.5
						1.0	0.4	123	24.4		8.0		28.1		95.6		6.8		4.7		9		88				<0.2		1.5	
					Middle	4.5	0.3	114	24.3	24.3	8.0	8.0	28.5	28.5	95.2	95.2	6.8		5.4		11		88				<0.2		1.6	
						4.5	0.3	120	24.3		8.0		28.5		95.2		6.8		5.6		10		88				<0.2		1.5	
					Bottom	7.9	0.3	86	24.2	24.2	8.0	8.0	28.9	28.9	94.9	94.9	6.8	6.8	9.6		13		90				<0.2		1.4	
						7.9	0.4	87	24.2		8.0		28.9		94.9		6.8		9.2		12		90				<0.2		1.4	
SR2	Cloudy	Moderate	11:42	4.5	Surface	1.0	0.5	94	24.4	24.4	8.0	8.0	28.1	28.1	91.6	91.5	6.5	6.5	3.7	8.6	8	9	85	86	821461	814148	<0.2	<0.2	1.9	1.9
						1.0	0.6	102	24.4		8.0		28.1		91.4		6.5		3.7		9		85				<0.2		2.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.4	96	24.2	24.2	8.0	8.0	28.9	28.9	89.8	89.9	6.4	6.4	13.4		8		88				<0.2		1.9	
						3.5	0.5	102	24.2		8.0		28.9		89.9		6.4		13.5		10		87				<0.2		1.9	
SR3	Fine	Moderate	13:08	8.5	Surface	1.0	0.6	177	24.8	24.8	7.9	7.9	27.0	27.0	91.3	91.3	6.5	6.6	6.4	9.5	9	9	-	-	822155	807564	-	-	-	-
						1.0	0.6	185	24.8		7.9		27.1		91.3		6.5		6.4		8		-				-		-	
					Middle	4.3	0.5	190	24.3	24.3	8.0	8.0	28.1	28.1	93.8	93.8	6.7		7.1		9		-				-		-	
						4.3	0.5	204	24.3		8.0		28.1		93.8		6.7		7.2		8		-				-		-	
					Bottom	7.5	0.3	230	24.2	24.2	8.0	8.0	28.4	28.4	93.4	93.4	6.7	6.7	15.0		10		-				-		-	
						7.5	0.3	233	24.2		8.0		28.4		93.4		6.7		14.8		9		-				-		-	
SR4A	Cloudy	Calm	12:07	8.5	Surface	1.0	0.2	71	24.7	24.7	8.1	8.1	29.1	29.1	103.5	103.5	7.3	7.2	10.9	15.9	8	7	-	-	817172	807808	-	-	-	-
						1.0	0.3	77	24.7		8.1		29.1		103.5		7.3		11.0		6		-				-		-	
					Middle	4.3	0.2	78	24.3	24.3	8.1	8.1	29.8	29.8	99.8	99.8	7.1		17.4		6		-				-		-	
						4.3	0.2	83	24.3		8.1		29.8		99.8		7.1		17.0		8		-				-		-	
					Bottom	7.5	0.2	68	24.2	24.2	8.1	8.1	29.9	29.9	100.2	100.2	7.1	7.1	19.5		8		-				-		-	
						7.5	0.2	69	24.2		8.1		29.9		100.2		7.1		19.4		6		-				-		-	
SR5A	Cloudy	Calm	11:48	4.0	Surface	1.0	0.1	94	24.8	24.8	8.1	8.1	29.4	29.4	95.3	95.3	6.7	6.7	10.2	10.6	7	7	-	-	816608	810691	-	-	-	-
						1.0	0.1	99	24.8		8.1		29.4		95.3		6.7		10.2		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	95	24.7	24.7	8.1	8.1	29.4	29.4	96.1	96.1	6.8	6.8	11.0		8		-				-		-	
						3.0	0.1	102	24.7		8.1		29.4		96.1		6.8		11.1		7		-				-		-	
SR6	Cloudy	Calm	11:24	4.9	Surface	1.0	0.1	71	24.5	24.5	8.0	8.0	28.8	28.8	94.4	94.4	6.7	6.7	8.4	9.9	4	5	-	-	817906	814636	-	-	-	-
						1.0	0.1	71	24.5		8.0		28.8		94.3		6.7		8.5		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	63	24.4	24.4	8.0	8.0	29.3	29.3	92.6	92.7	6.6	6.6	11.3		5		-				-		-	
						3.9	0.1	66	24.4		8.0		29.3		92.7		6.6		11.2		5		-				-		-	
SR7	Cloudy	Moderate	10:29	18.6	Surface	1.0	0.5	69	23.7	23.7	7.9	7.9	31.1	31.1	85.3	85.4	6.0	6.0	2.4	3.1	5	6	-	-	823634	823725	-	-	-	-
						1.0	0.5	69	23.7		7.9		31.1		85.4		6.1		2.4		6		-				-		-	
					Middle	9.3	0.4	46	23.7	23.7	7.9	7.9	31.3	31.3	84.9	84.9	6.0		3.0		6		-				-		-	
						9.3	0.5	46	23.7		7.9		31.3		84.9		6.0		3.0		6		-				-		-	
					Bottom	17.6	0.2	22	23.6	23.6	7.9	7.9	31.4	31.4	85.2	85.3	6.0	6.0	3.8		4		-				-		-	
						17.6	0.2	23	23.6		7.9		31.4		85.3		6.0		3.8		6		-				-		-	
SR8	Fine	Moderate	12:08	4.1	Surface	1.0	-	-	25.0	25.0	8.0	8.0	28.3	28.3	93.4	93.5	6.6	6.6	5.6	5.4	11	11	-	-	820246	811418	-	-	-	-
						1.0	-	-	25.0		8.0		28.3		93.6		6.6		5.6		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	24.6	24.6	8.0	8.0	28.7	28.7	94.2	94.2	6.7	6.7	5.2		12		-				-		-	
						3.1	-	-	24.6		8.0		28.7		94.2		6.7		5.2		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 28 April 18 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	17:34	8.5	Surface	1.0	0.4	24	24.5	24.5	8.2	8.2	29.4	29.4	104.7	104.6	7.4	7.3	10.5	15.4	9	9	86	88	815591	804219	<0.2	<0.2	1.6	1.5
						1.0	0.4	24	24.5		8.2		29.4		104.5		7.4		10.6		8		86				<0.2		1.4	
					Middle	4.3	0.4	36	24.1	24.1	8.2	8.2	30.3	30.2	101.6	101.7	7.2		15.4		8		88				<0.2		1.4	
						4.3	0.4	37	24.1		8.2		30.2		101.7		7.2		15.8		8		88				<0.2		1.5	
					Bottom	7.5	0.3	39	24.0	24.0	8.2	8.2	30.6	30.6	101.5	101.6	7.2	7.2	20.1		9		89				<0.2		1.4	
						7.5	0.3	41	24.0		8.2		30.6		101.6		7.2		19.8		9		89				<0.2		1.5	
C2	Fine	Moderate	16:33	9.1	Surface	1.0	0.4	178	24.9	24.9	7.7	7.7	23.2	23.2	82.6	82.7	6.0	5.9	8.0	12.1	10	10	86	88	825671	806929	<0.2	<0.2	2.8	2.7
						1.0	0.4	183	24.9		7.8		23.2		82.7		6.0		7.9		8		86				<0.2		2.7	
					Middle	4.6	0.2	219	24.3	24.3	7.8	7.8	26.7	26.7	80.8	80.8	5.8		10.3		8		88				<0.2		2.7	
						4.6	0.2	229	24.3		7.8		26.7		80.8		5.8		10.2		10		88				<0.2		2.7	
					Bottom	8.1	0.1	156	24.2	24.2	7.8	7.8	27.3	27.3	80.8	80.8	5.8	5.8	18.0		11		90				<0.2		2.8	
						8.1	0.1	167	24.2		7.8		27.3		80.8		5.8		18.0		11		90				<0.2		2.7	
C3	Fine	Moderate	18:45	12.0	Surface	1.0	0.5	260	24.3	24.3	8.0	8.0	29.1	29.1	89.9	89.9	6.4	6.2	2.5	7.8	6	6	86	88	822104	817777	<0.2	<0.2	1.1	1.1
						1.0	0.5	266	24.3		8.0		29.1		89.8		6.4		2.6		6		86				<0.2		1.2	
					Middle	6.0	0.6	261	23.9	23.9	7.9	7.9	30.4	30.4	84.7	84.7	6.0		9.0		6		88				<0.2		1.0	
						6.0	0.6	273	23.9		7.9		30.4		84.6		6.0		9.4		5		87				<0.2		1.1	
					Bottom	11.0	0.4	267	23.9	23.9	7.9	7.9	30.5	30.5	84.4	84.4	6.0	6.0	11.3		7		90				<0.2		1.2	
						11.0	0.4	277	23.9		7.9		30.5		84.4		6.0		11.9		8		90				<0.2		1.0	
IM1	Cloudy	Moderate	17:13	7.0	Surface	1.0	0.3	2	24.9	24.9	8.2	8.2	28.7	28.7	103.1	103.1	7.3	7.3	10.8	17.0	7	8	84	86	818328	806485	<0.2	<0.2	1.8	1.7
						1.0	0.3	2	24.9		8.2		28.7		103.1		7.3		10.9		9		84				<0.2		1.8	
					Middle	3.5	0.3	346	24.7	24.7	8.1	8.1	29.3	29.3	102.7	102.7	7.2		15.1		9		85				<0.2		1.7	
						3.5	0.3	318	24.7		8.2		29.3		102.7		7.2		15.2		8		85				<0.2		1.7	
					Bottom	6.0	0.4	345	24.7	24.7	8.1	8.1	29.5	29.5	102.0	102.0	7.2	7.2	25.0		9		88				<0.2		1.7	
						6.0	0.4	346	24.7		8.1		29.5		102.0		7.2		24.8		8		88				<0.2		1.7	
IM2	Cloudy	Moderate	17:07	7.9	Surface	1.0	0.1	230	24.8	24.8	8.1	8.1	27.3	27.3	98.2	98.5	7.0	7.1	10.7	10.9	8	10	83	86	818845	806218	<0.2	<0.2	1.8	1.8
						1.0	0.2	245	24.8		8.1		27.3		98.8		7.0		10.7		10		84				<0.2		1.8	
					Middle	4.0	0.2	320	24.7	24.7	8.2	8.2	29.0	29.0	102.6	102.6	7.2		10.7		9		85				<0.2		1.8	
						4.0	0.2	340	24.7		8.2		29.0		102.6		7.2		10.8		10		85				<0.2		1.8	
					Bottom	6.9	0.2	340	24.7	24.7	8.2	8.2	29.4	29.4	102.4	102.4	7.2	7.2	11.2		12		88				<0.2		1.7	
						6.9	0.2	344	24.7		8.2		29.4		102.4		7.2		11.2		11		88				<0.2		1.8	
IM3	Cloudy	Moderate	17:02	7.8	Surface	1.0	0.1	249	24.8	24.8	8.0	8.0	26.5	26.5	94.5	94.7	6.7	6.9	12.7	12.8	11	11	84	86	819396	806013	<0.2	<0.2	1.8	1.9
						1.0	0.1	258	24.8		8.0		26.5		94.8		6.8		12.7		11		84				<0.2		2.0	
					Middle	3.9	0.2	287	24.8	24.8	8.2	8.2	28.1	28.1	100.3	100.4	7.1		12.9		12		86				<0.2		1.9	
						3.9	0.2	308	24.8		8.2		28.1		100.4		7.1		12.8		10		86				<0.2		1.9	
					Bottom	6.8	0.3	319	24.8	24.8	8.2	8.1	28.5	28.5	100.7	100.7	7.1	7.1	12.9		10		88				<0.2		1.9	
						6.8	0.3	350	24.8		8.1		28.5		100.6		7.1		12.9		11		88				<0.2		1.9	
IM4	Cloudy	Moderate	16:54	6.9	Surface	1.0	0.2	34	24.8	24.8	8.1	8.1	27.4	27.4	95.1	95.1	6.8	6.9	13.7	16.7	13	13	84	86	819590	805050	<0.2	<0.2	2.0	2.0
						1.0	0.2	36	24.8		8.1		27.4		95.1		6.8		13.4		11		84				<0.2		1.9	
					Middle	3.5	0.2	-	24.8	24.8	8.1	8.1	27.5	27.5	97.4	97.5	6.9		16.0		13		85				<0.2		1.9	
						3.5	0.2	-	24.8		8.1		27.5		97.5		6.9		16.0		13		86				<0.2		1.9	
					Bottom	5.9	0.2	348	24.7	24.7	8.1	8.1	28.2	28.2	99.5	99.5	7.0	7.0	20.5		15		87				<0.2		2.0	
						5.9	0.2	348	24.7		8.1		28.3		99.5		7.0		20.8		15		88				<0.2		2.1	
IM5	Cloudy	Moderate	16:45	6.4	Surface	1.0	0.3	287	24.6	24.6	8.0	8.0	26.5	26.5	90.3	90.3	6.5	6.5	18.7	21.0	16	17	83	86	820568	804899	<0.2	<0.2	2.2	2.1
						1.0	0.3	312	24.6		8.0		26.5		90.3		6.5		18.7		16		84				<0.2		2.2	
					Middle	3.2	0.3	289	24.6	24.6	8.0	8.0	26.6	26.6	90.5	90.6	6.5		20.8		16		85				<0.2		2.1	
						3.2	0.3	305	24.6		8.0		26.6		90.6		6.5		20.4		15		86				<0.2		2.0	
					Bottom	5.4	0.2	294	24.6	24.6	8.0	8.0	26.6	26.6	91.8	91.8	6.6	6.6	23.9		20		88				<0.2		1.9	
						5.4	0.2	313	24.6		8.0		26.6		91.8		6.6		23.6		21		89				<0.2		2.1	
IM6	Cloudy	Moderate	16:38	6.3	Surface	1.0	0.5	261	24.6	24.6	8.0	8.0	26.5	26.5	89.9	89.9	6.4	6.5	17.4	20.5	10	14	83	86	821051	805831	<0.2	<0.2	1.9	2.0
						1.0	0.6	274	24.6		8.0		26.5		89.9		6.4		17.4		11		84				<0.2		2.0	
					Middle	3.2	0.5	267	24.6	24.6	8.0	8.0	26.6	26.6	90.3	90.4	6.5		20.9		13		85				<0.2		2.0	
						3.2	0.5	277	24.6		8.0		26.6		90.4		6.5		20.8		14		86				<0.2		1.9	
					Bottom	5.3	0.4	276	24.5	24.5	8.0	8.0	26.7	26.7	91.4	91.4	6.5	6.5	23.3		16		88				<0.2		2.1	
						5.3	0.4	288	24.6		8.0		26.7		91.4		6.5		23.0		17		88				<0.2		2.0	
IM7	Cloudy	Moderate	16:33	7.5	Surface	1.0	0.7	235	24.9	24.9	8.0	8.0	25.5	25.5	89.8	89.8	6.4	6.4	13.6	20.1	8	10	84	86	821365	806827	<0.2	<0.2	2.1	1.9
						1.0	0.7	243	24.9		8.0		25.5		89.8		6.4		13.6		8		84				<0.2		2.0	
					Middle	3.8	0.6	246	24.5	24.5	8.0	8.0	26.8	26.8	89.1	89.1	6.4		22.0		8		86				<0.2		2.0	
						3.8	0.6	261	24.5		8.0		26.8		89.1		6.4		22.1		9		86				<0.2		1.8	
					Bottom	6.5	0.5	258	24.4	24.4	8.0	8.0	26.8	26.8	90.2	90.3	6.5	6.5	24.8		11		87				<0.2		1.8	
						6.5	0.5	259	24.4		8.0		26.8		90.4		6.5		24.7		13		87				<0.2		1.6	
IM8	Fine	Moderate	16:56	7.6	Surface	1.0	0.4	228	24.9	24.9	7.8	7.8	24.9	24.9	85.1	85.1	6.1	6.1	5.0	9.4	7	7	86	88	821684	807839	<0.2	<0.2	2.6	2.6
						1.0	0.4	247	24.9		7.8		24.9		85.1		6.1		5.0		8		86				<0.2		2.7	
					Middle	3.8	0.3	233	24.5	24.5	7.8	7.8	26.3	26.3	84.1	84.2	6.0		9.7		7		88				<0.2		2.7	
						3.8	0.3	244	24.5		7.8		26.3		84.2		6.0		9.7		7		88				<0.2		2.6	
					Bottom	6.6	0.2	262	24.5	24.5	7.8	7.8	26.4	26.4	84.5	84.6	6.1	6.1	13.5		6		90				<0.2		2.6	
						6.6	0.2	269	24.5		7.8		26.4		84.6		6.1		13.6		6		90				<0.2		2.6	

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

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

Water Quality Monitoring

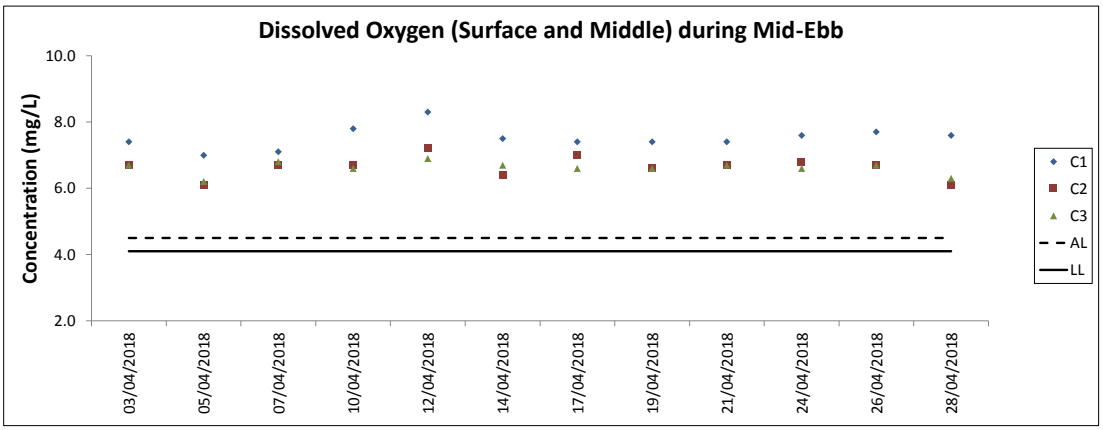
Water Quality Monitoring Results on 28 April 18 during Mid-Flood Tide

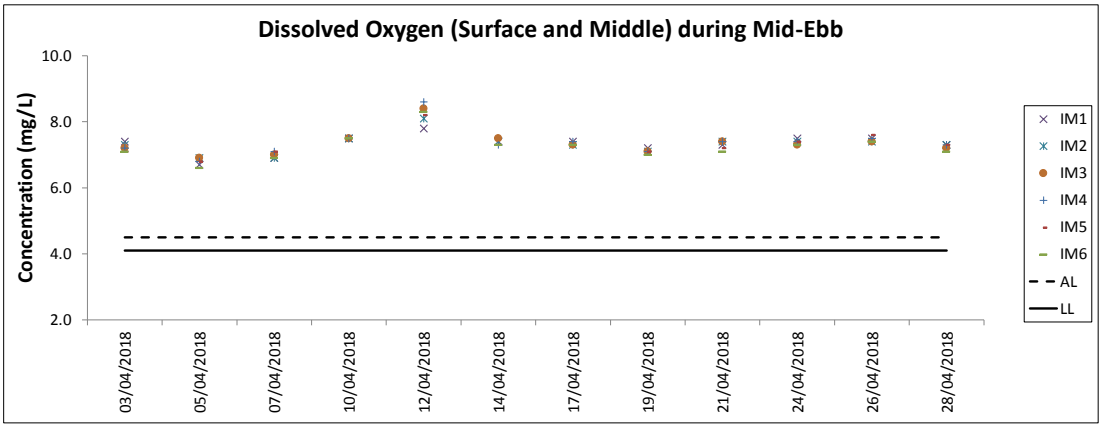
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (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	17:05	6.6	Surface	1.0	0.3	258	25.0	25.0	7.8	7.8	25.0	25.0	86.0	86.0	6.2	6.1	4.7	6.1	5	5	86	88	822115	808793	<0.2	<0.2	2.6	2.7
						1.0	0.3	278	25.0		7.8		25.0		85.9		6.2		4.7		6		86				<0.2		2.6	
					Middle	3.3	0.3	273	24.5	24.5	7.8	7.8	26.4	26.4	84.0	84.0	6.0		6.6		6		88				<0.2		2.6	
						3.3	0.3	299	24.5		7.8		26.4		84.0		6.0		6.6		5		88				<0.2		2.5	
					Bottom	5.6	0.2	286	24.5	24.5	7.8	7.8	26.5	26.5	84.7	84.7	6.1	6.1	6.8		5		90				<0.2		2.5	
						5.6	0.2	288	24.5		7.8		26.5		84.7		6.1		7.0		5		90				<0.2		3.2	
IM10	Fine	Moderate	17:17	7.0	Surface	1.0	0.4	295	24.7	24.7	7.8	7.8	26.2	26.2	86.2	86.2	6.2	6.2	4.0	6.4	4	5	86	88	822243	809861	<0.2	<0.2	2.1	2.1
						1.0	0.4	298	24.7		7.8		26.2		86.1		6.2		4.0		6		86				<0.2		2.0	
					Middle	3.5	0.3	299	24.6	24.6	7.8	7.8	26.4	26.4	85.3	85.3	6.1		4.8		5		88				<0.2		2.0	
						3.5	0.4	314	24.6		7.8		26.4		85.3		6.1		4.9		4		88				<0.2		2.1	
					Bottom	6.0	0.3	326	24.5	24.5	7.8	7.8	27.2	27.2	83.8	83.8	6.0	6.0	10.4		4		90				<0.2		2.1	
						6.0	0.3	333	24.5		7.8		27.2		83.8		6.0		10.5		4		90				<0.2		2.0	
IM11	Fine	Moderate	17:33	7.1	Surface	1.0	0.5	289	24.7	24.7	7.9	7.9	27.3	27.3	89.5	89.5	6.4	6.4	4.9	7.2	6	7	86	88	821473	810559	<0.2	<0.2	1.6	1.7
						1.0	0.5	295	24.7		7.9		27.3		89.5		6.4		4.9		8		86				<0.2		1.6	
					Middle	3.6	0.4	287	24.7	24.7	7.9	7.9	27.4	27.4	88.9	88.9	6.3		6.6		7		88				<0.2		1.7	
						3.6	0.4	293	24.7		7.9		27.4		88.9		6.3		6.7		9		88				<0.2		1.7	
					Bottom	6.1	0.3	285	24.6	24.6	7.9	7.9	27.6	27.6	88.9	88.9	6.3	6.3	10.1		7		90				<0.2		1.7	
						6.1	0.3	312	24.6		7.9		27.6		88.9		6.3		10.1		7		90				<0.2		1.6	
IM12	Fine	Moderate	17:43	8.4	Surface	1.0	0.6	279	24.8	24.8	7.9	7.9	27.6	27.6	93.6	93.6	6.6	6.7	5.0	7.5	6	7	86	88	821182	811489	<0.2	<0.2	1.6	1.6
						1.0	0.7	289	24.8		7.9		27.6		93.6		6.6		4.9		5		86				<0.2		1.6	
					Middle	4.2	0.6	274	24.7	24.7	8.0	8.0	27.9	27.9	93.9	93.9	6.7		6.8		9		88				<0.2		1.5	
						4.2	0.6	279	24.7		8.0		27.9		93.9		6.7		6.9		8		88				<0.2		1.6	
					Bottom	7.4	0.4	277	24.6	24.6	8.0	8.0	28.2	28.2	93.8	93.8	6.7	6.7	10.8		8		90				<0.2		1.6	
						7.4	0.4	277	24.6		8.0		28.2		93.8		6.7		10.8		8		90				<0.2		1.6	
SR2	Fine	Moderate	18:20	4.5	Surface	1.0	0.1	205	24.6	24.6	8.0	8.0	28.3	28.3	91.7	91.7	6.5	6.5	6.4	6.6	10	10	86	87	821477	814190	<0.2	<0.2	1.3	1.3
						1.0	0.2	214	24.6		8.0		28.3		91.7		6.5		6.4		10		86				<0.2		1.3	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	234	24.6	24.6	8.0	8.0	28.3	28.3	91.2	91.2	6.5	6.5	6.9		9		88				<0.2		1.2	
						3.5	0.1	253	24.6		8.0		28.3		91.2		6.5		6.9		9		88				<0.2		1.3	
SR3	Fine	Moderate	16:50	8.3	Surface	1.0	0.5	203	24.7	24.7	7.8	7.8	25.2	25.2	83.8	83.8	6.0	6.0	6.7	9.8	8	8	-	-	822172	807557	-	-	-	-
						1.0	0.5	222	24.7		7.8		25.2		83.7		6.0		6.7		6		-				-		-	
					Middle	4.2	0.4	210	24.3	24.3	7.8	7.8	26.5	26.5	82.2	82.2	5.9		10.1		7		-				-		-	
						4.2	0.4	219	24.3		7.8		26.5		82.2		5.9		10.1		8		-				-		-	
					Bottom	7.3	0.3	202	24.3	24.3	7.8	7.8	26.7	26.7	82.9	82.9	6.0	6.0	12.6		11		-				-		-	
						7.3	0.3	213	24.3		7.8		26.7		82.9		6.0		12.4		10		-				-		-	
SR4A	Cloudy	Calm	17:54	8.9	Surface	1.0	0.3	253	25.1	25.1	8.1	8.1	29.2	29.2	99.0	99.0	6.9	6.9	12.5	12.2	9	8	-	-	817181	807835	-	-	-	-
						1.0	0.3	265	25.1		8.1		29.2		98.9		6.9		12.7		8		-				-		-	
					Middle	4.5	0.3	259	25.0	25.0	8.1	8.1	29.2	29.2	97.7	97.7	6.8		12.1		9		-				-		-	
						4.5	0.3	280	25.0		8.1		29.2		97.6		6.8		12.0		9		-				-		-	
					Bottom	7.9	0.2	255	24.9	24.9	8.1	8.1	29.3	29.3	97.6	97.7	6.8	6.9	12.0		8		-				-		-	
						7.9	0.2	280	24.9		8.1		29.3		97.8		6.9		12.1		7		-				-		-	
SR5A	Cloudy	Calm	18:13	4.9	Surface	1.0	0.3	298	24.9	24.9	8.1	8.1	29.2	29.2	97.8	97.8	6.9	6.9	10.9	10.7	8	7	-	-	816597	810684	-	-	-	-
						1.0	0.3	314	24.9		8.1		29.2		97.8		6.9		10.9		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.3	305	24.9	24.9	8.1	8.1	29.2	29.2	98.3	98.4	6.9	6.9	10.5		8		-				-		-	
						3.9	0.3	317	24.9		8.1		29.2		98.5		6.9		10.6		6		-				-		-	
SR6	Cloudy	Calm	18:37	4.1	Surface	1.0	0.2	238	24.7	24.7	8.1	8.1	29.1	29.1	98.4	98.3	6.9	6.9	10.1	10.6	5	6	-	-	817879	814641	-	-	-	-
						1.0	0.2	250	24.7		8.1		29.2		98.2		6.9		10.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	245	24.5	24.5	8.1	8.1	29.5	29.5	98.3	98.6	6.9	7.0	10.9		6		-				-		-	
						3.1	0.1	269	24.5		8.1		29.5		98.8		7.0		11.2		7		-				-		-	
SR7	Fine	Moderate	19:24	18.8	Surface	1.0	0.1	266	24.0	24.0	8.0	8.0	30.4	30.4	85.6	85.6	6.1	6.1	3.1	4.9	5	6	-	-	823610	823744	-	-	-	-
						1.0	0.1	289	24.0		8.0		30.4		85.6		6.1		3.1		6		-				-		-	
					Middle	9.4	0.2	103	23.8	23.8	8.0	8.0	31.3	31.3	85.3	85.3	6.0		5.8		5		-				-		-	
						9.4	0.2	108	23.8		8.0		31.3		85.3		6.0		5.9		7		-				-		-	
					Bottom	17.8	0.2	183	23.8	23.8	8.0	8.0	31.4	31.4	85.3	85.3	6.0	6.0	5.6		5		-				-		-	
						17.8	0.2	196	23.8		8.0		31.4		85.3		6.0		5.6		6		-				-		-	
SR8	Fine	Moderate	17:58	4.0	Surface	1.0	-	-	24.8	24.8	8.0	8.0	28.0	28.0	95.3	95.3	6.7	6.7	3.5	4.0	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	24.8		8.0		28.0		95.3		6.7		3.5		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	24.8	24.8	8.0	8.0	28.3	28.3	94.6	94.6	6.7	6.7	4.6		6		-				-		-	
						3.0	-	-	24.8		8.0		28.3		94.6		6.7		4.5		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**


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
24/04/2018
26/04/2018
28/04/2018
C1
C2
C3
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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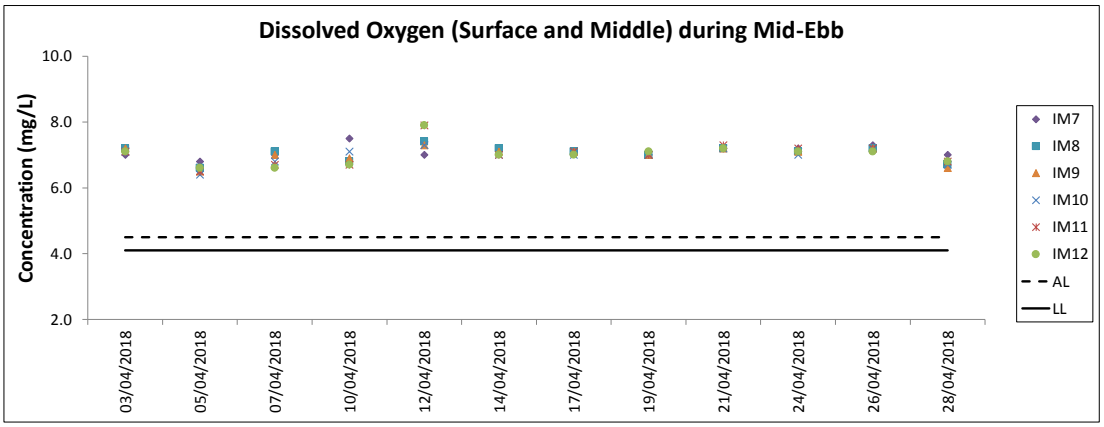
8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
24/04/2018
26/04/2018
28/04/2018
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
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19/04/2018
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28/04/2018
IM7
IM8
IM9
IM10
IM11
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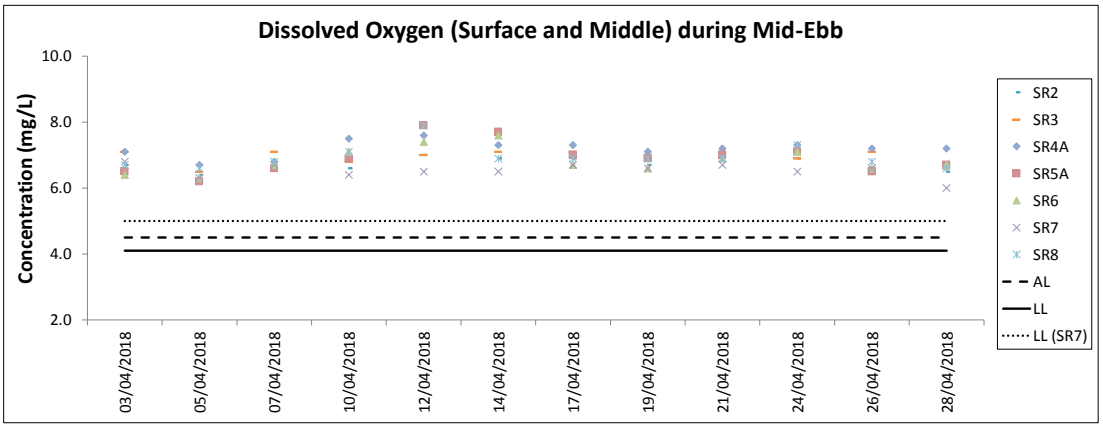
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
24/04/2018
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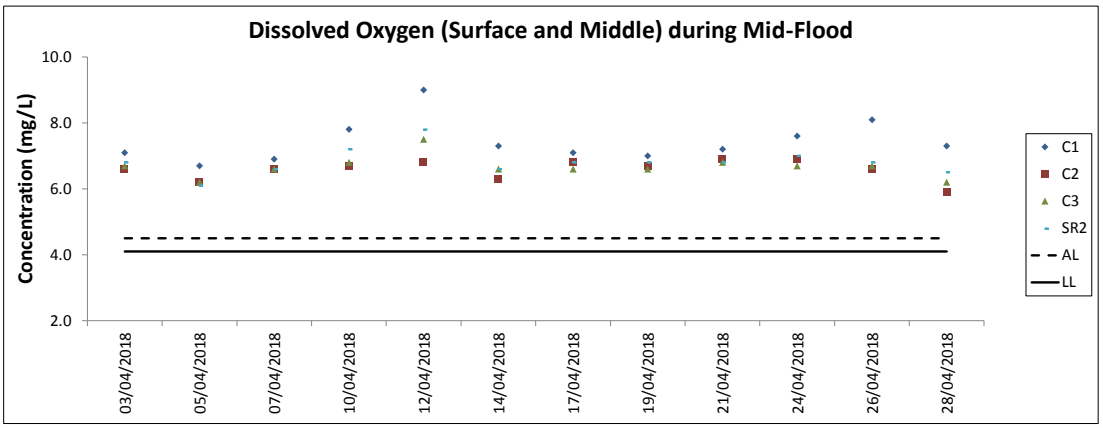
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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6.0
4.0
2.0
03/04/2018
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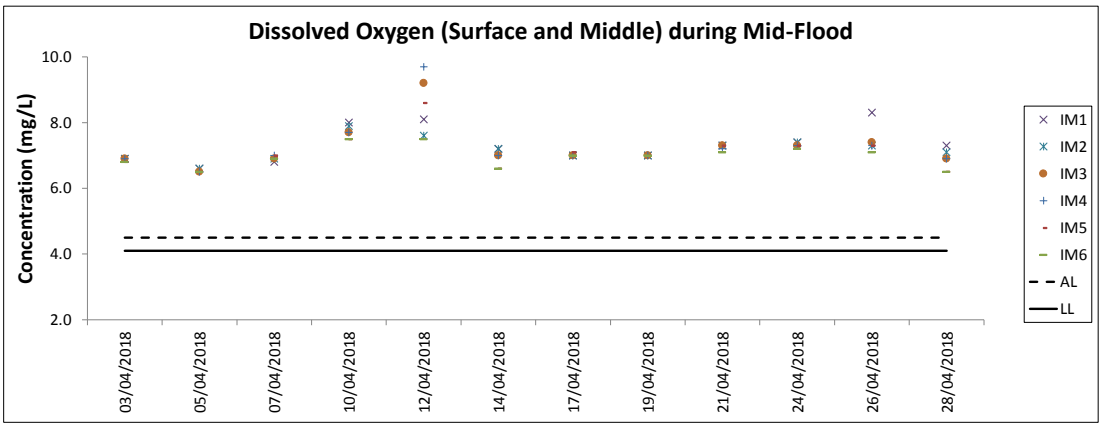
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
24/04/2018
26/04/2018
28/04/2018
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
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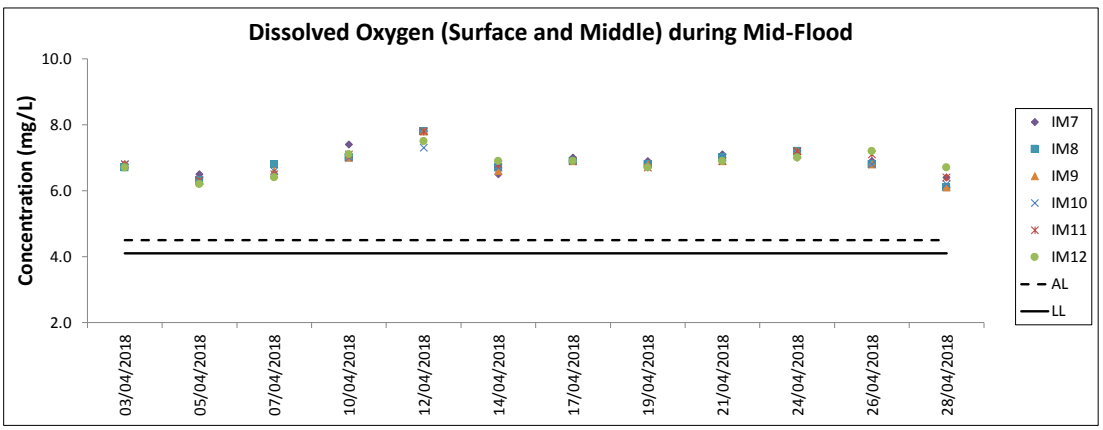
26/04/2018
28/04/2018
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
03/04/2018
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07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
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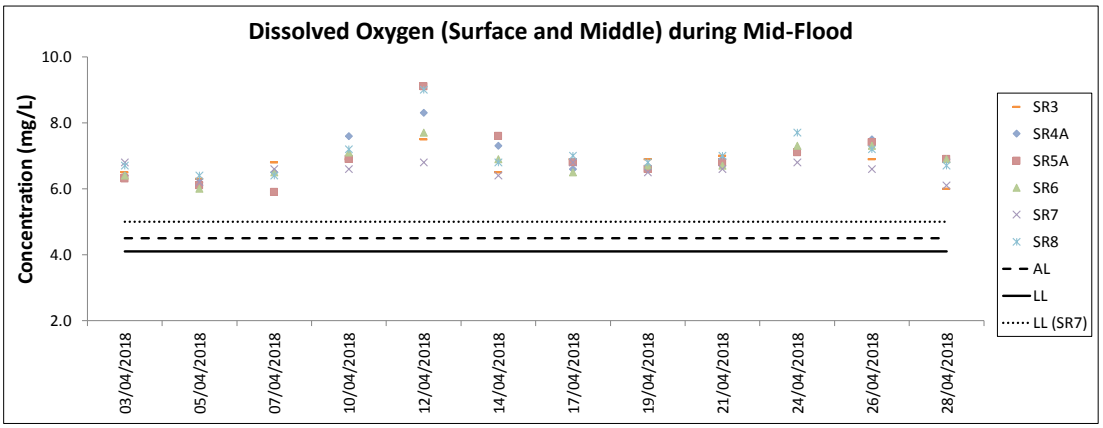
26/04/2018
28/04/2018
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
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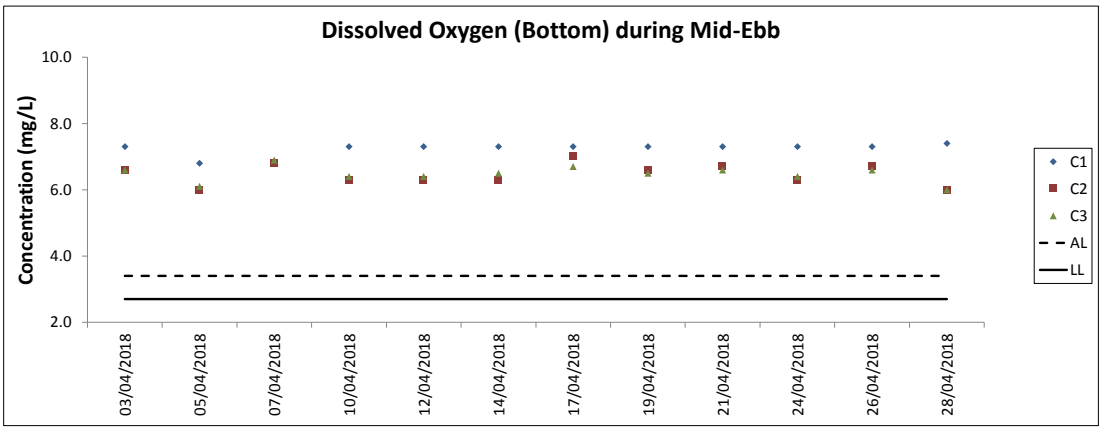
28/04/2018
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
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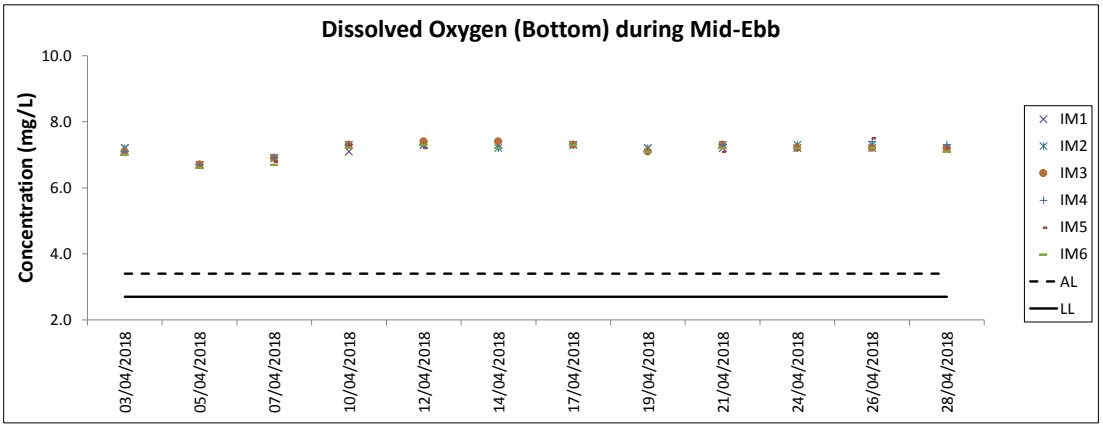
26/04/2018
28/04/2018
C1
C2
C3
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
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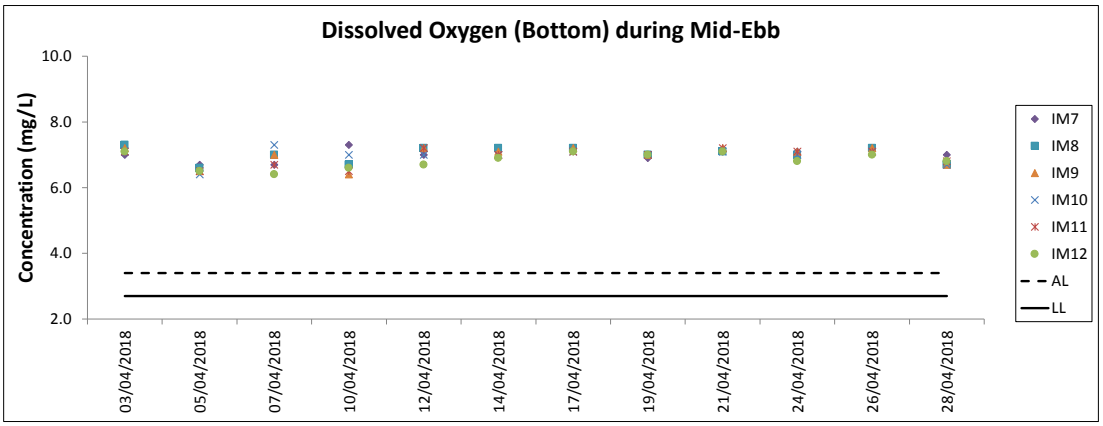
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
03/04/2018
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07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
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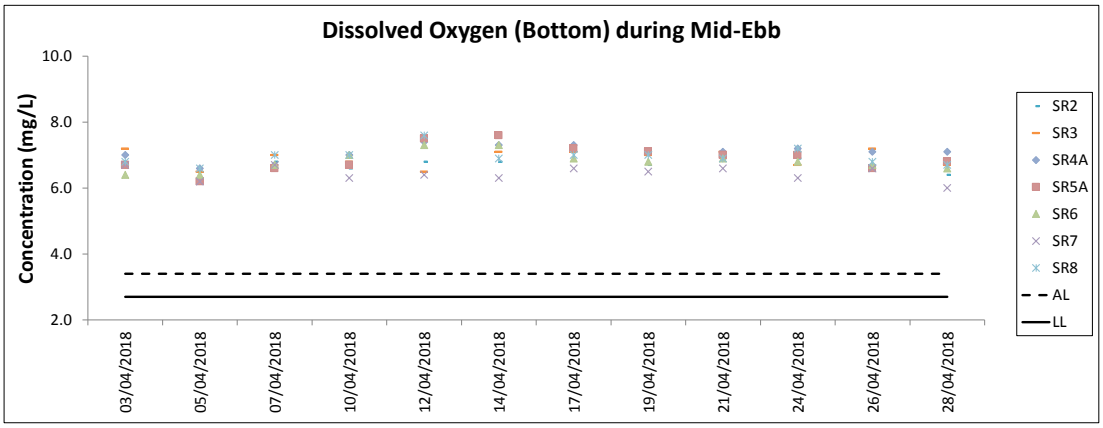
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
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28/04/2018
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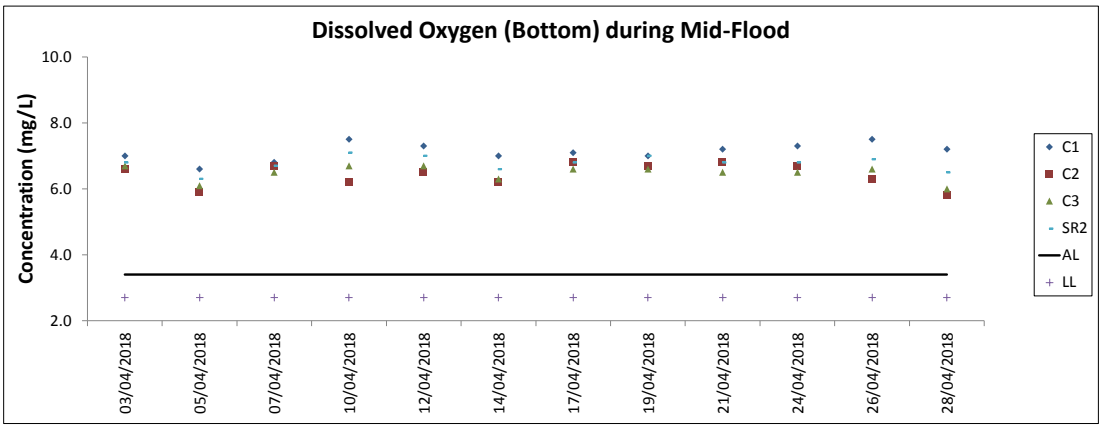
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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6.0
4.0
2.0
03/04/2018
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07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
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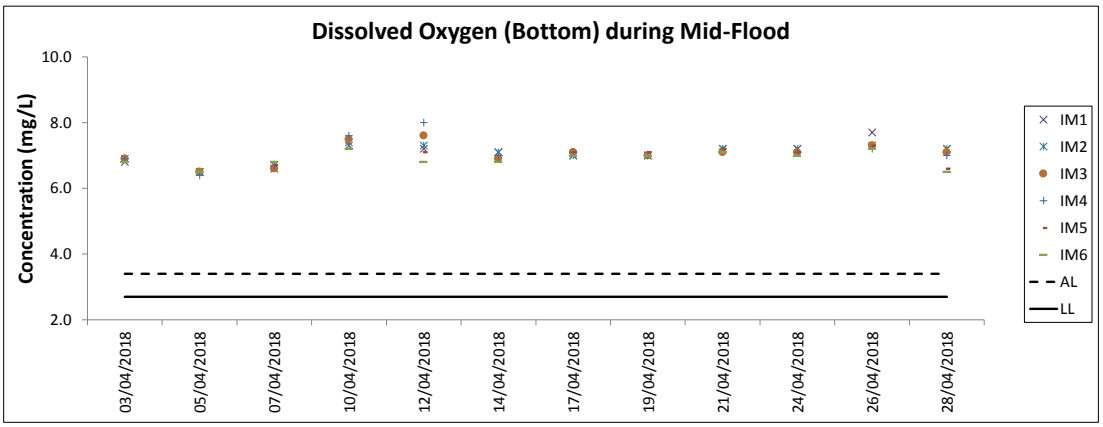
28/04/2018
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
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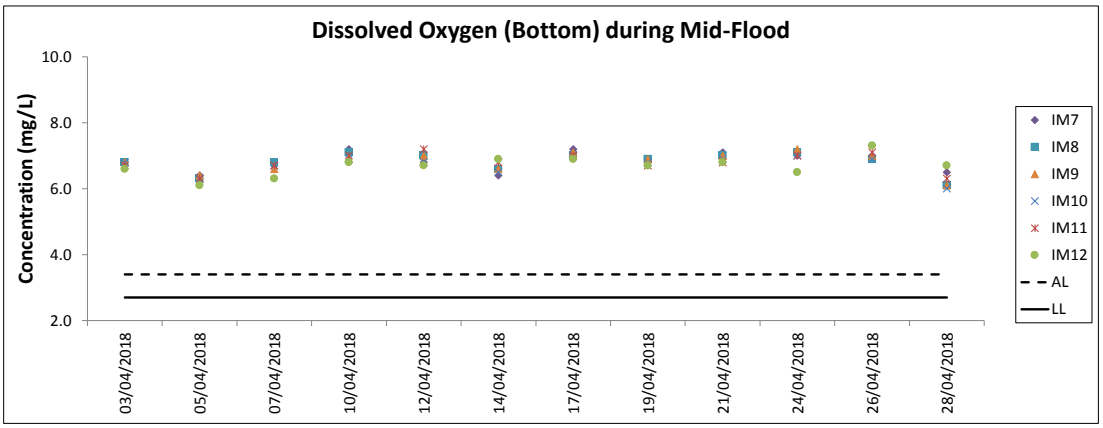
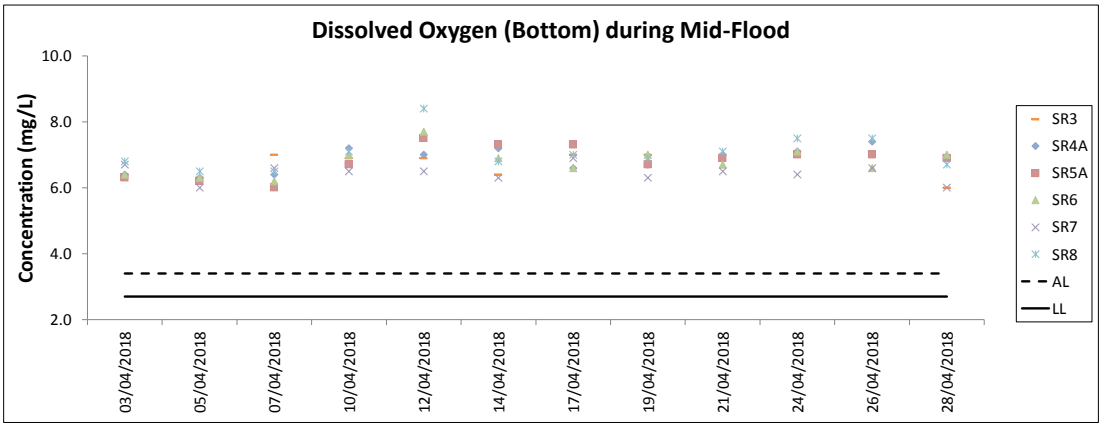
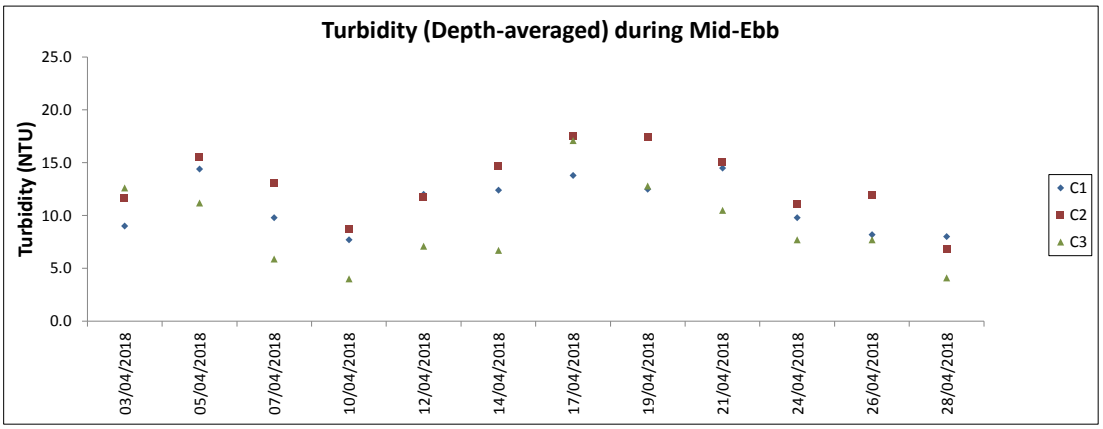
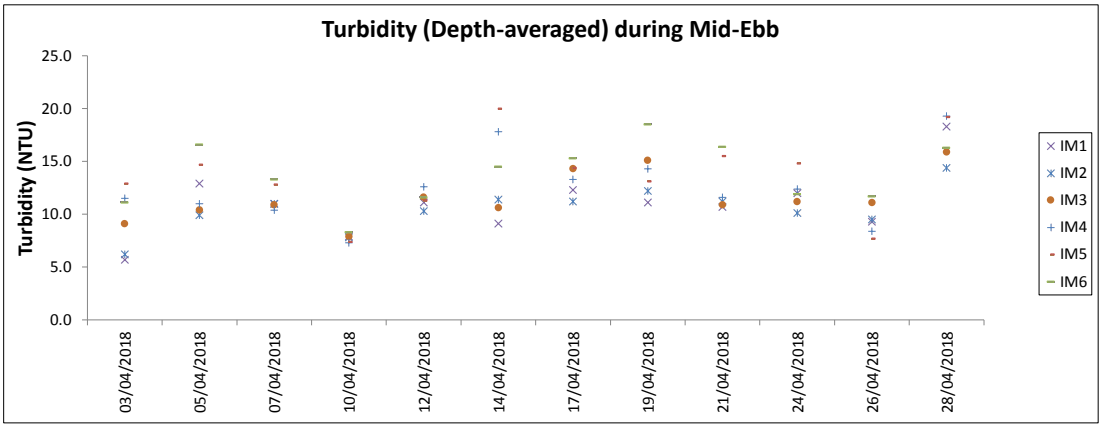
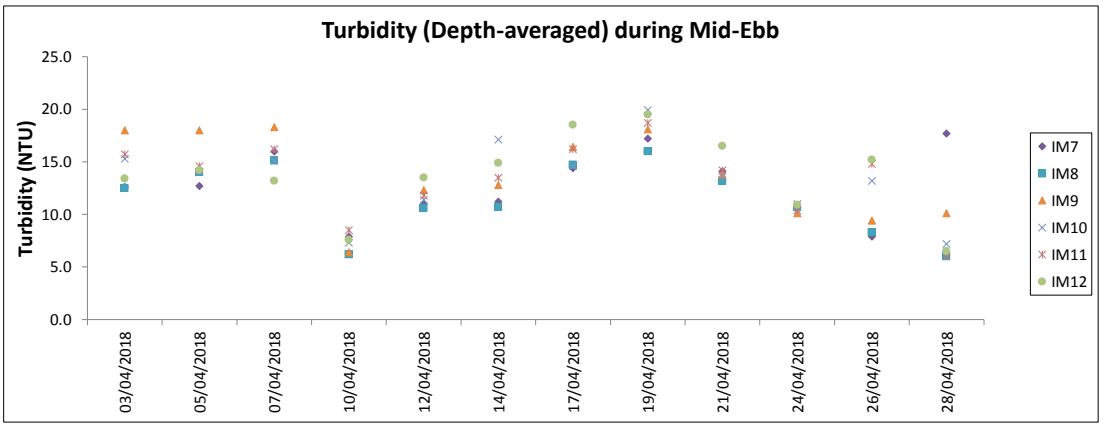
26/04/2018
28/04/2018
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL

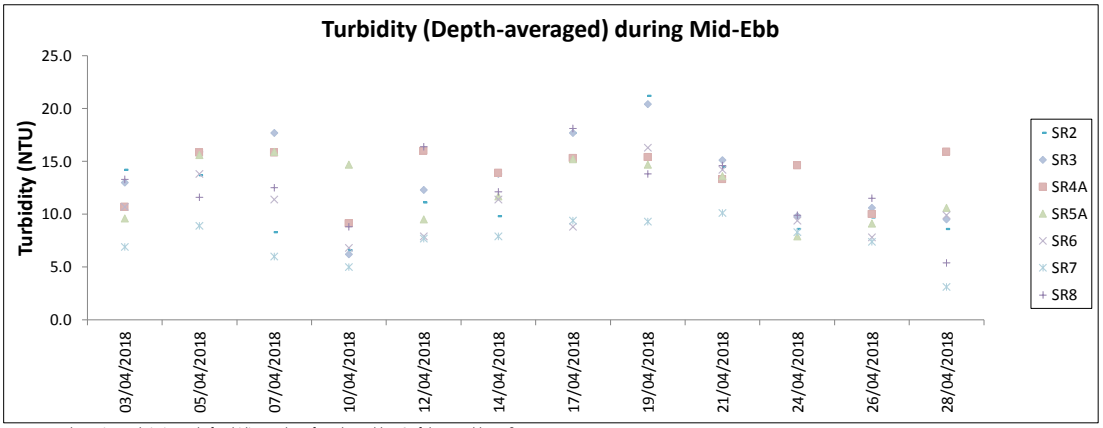

Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
24/04/2018
26/04/2018
28/04/2018
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
03/04/2018
05/04/2018
07/04/2018
10/04/2018
12/04/2018
14/04/2018
17/04/2018
19/04/2018
21/04/2018
24/04/2018
26/04/2018
28/04/2018
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL

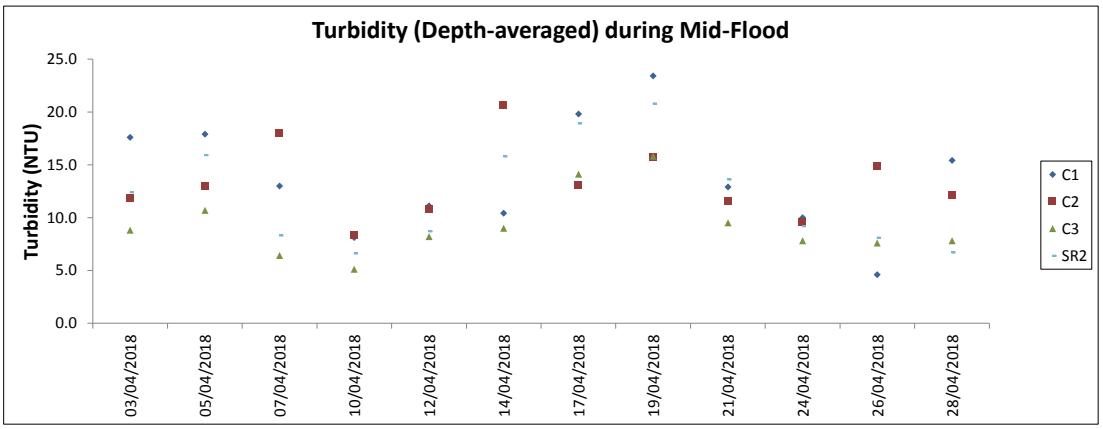


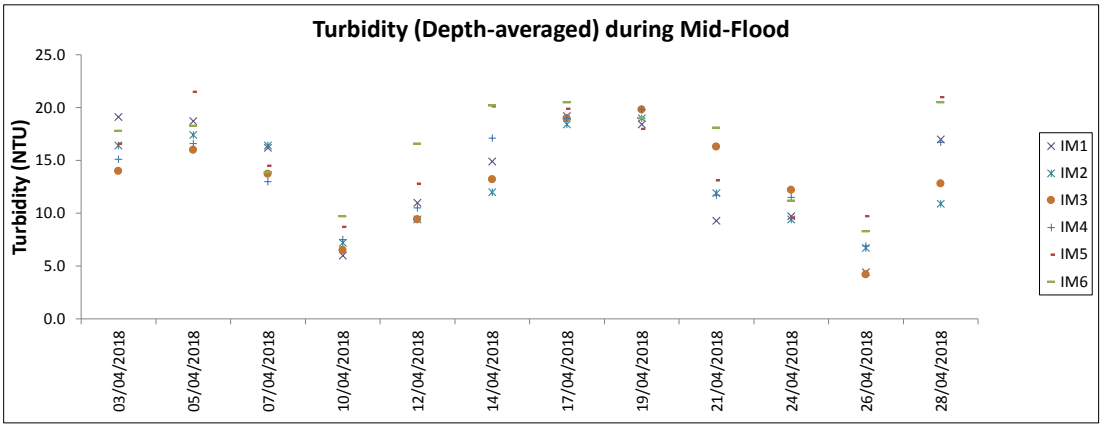


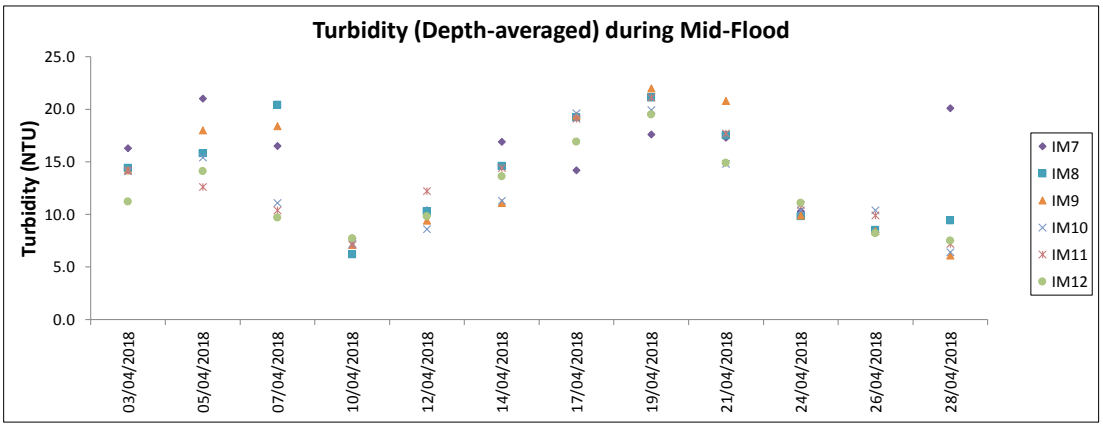


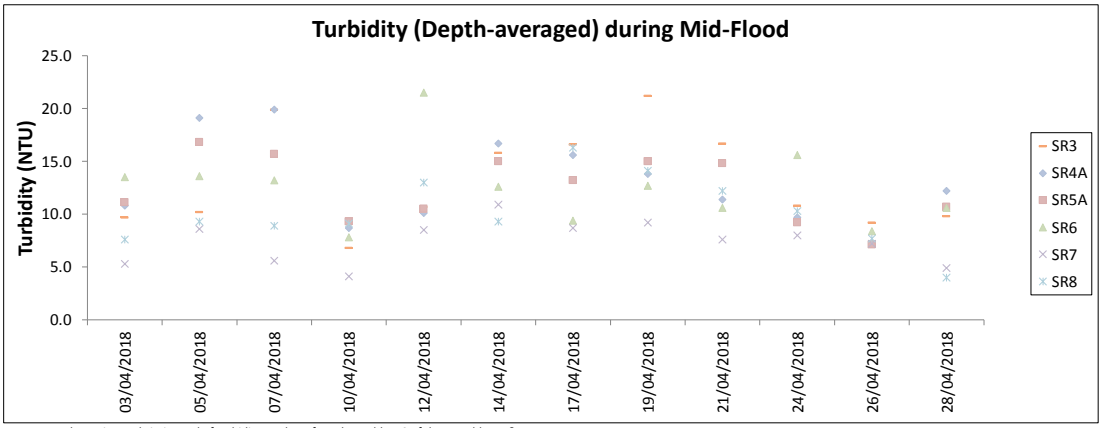


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

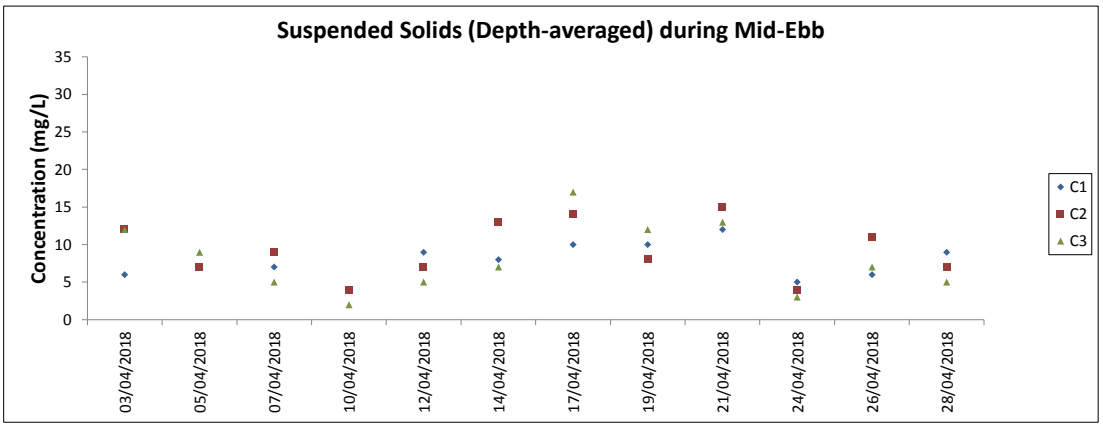


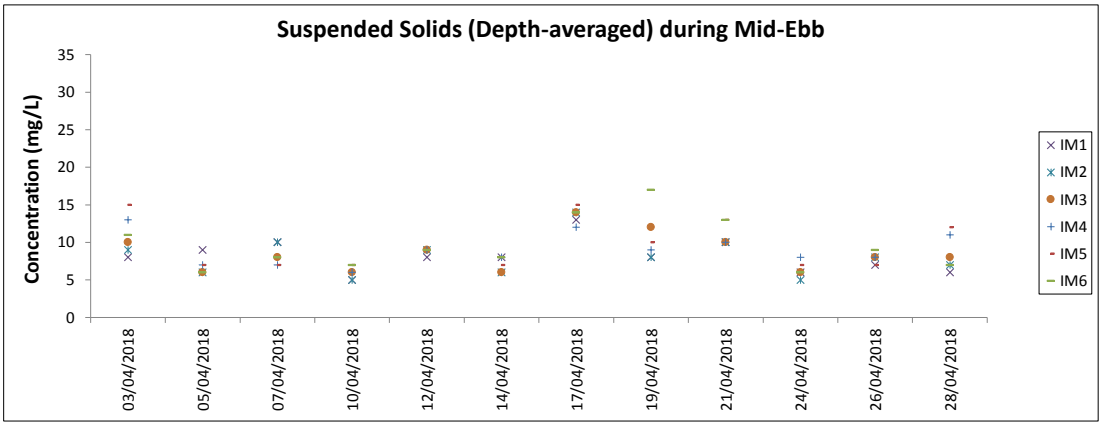


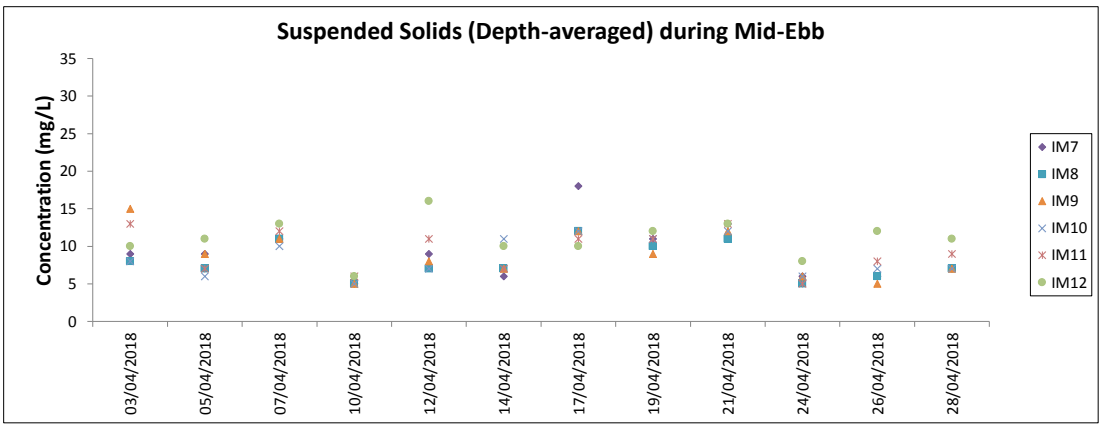


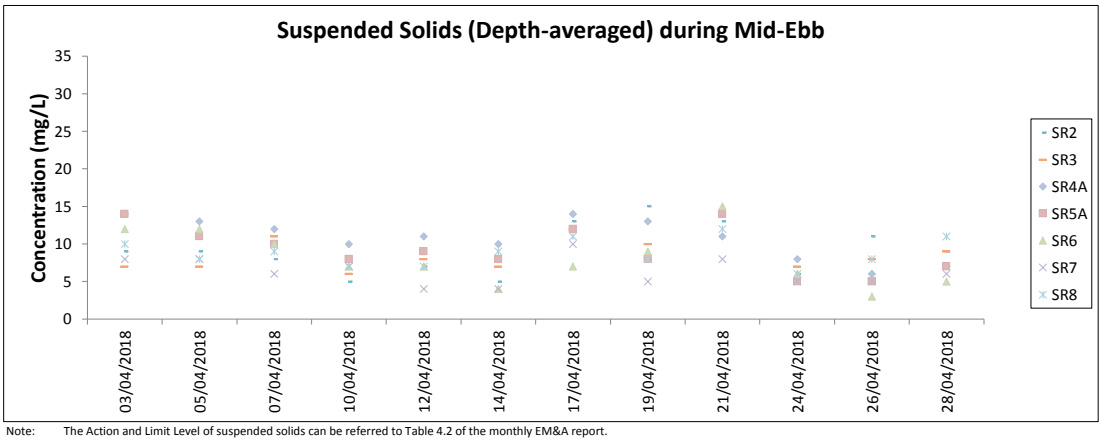


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

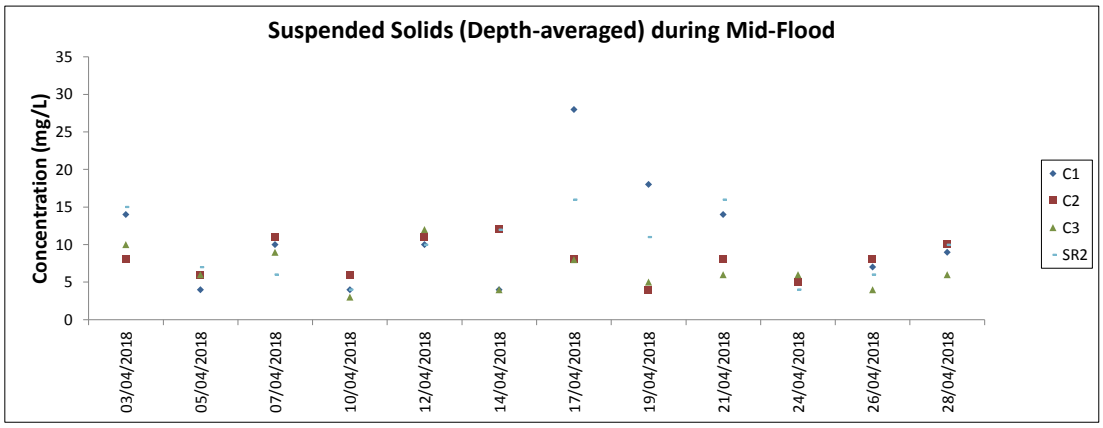


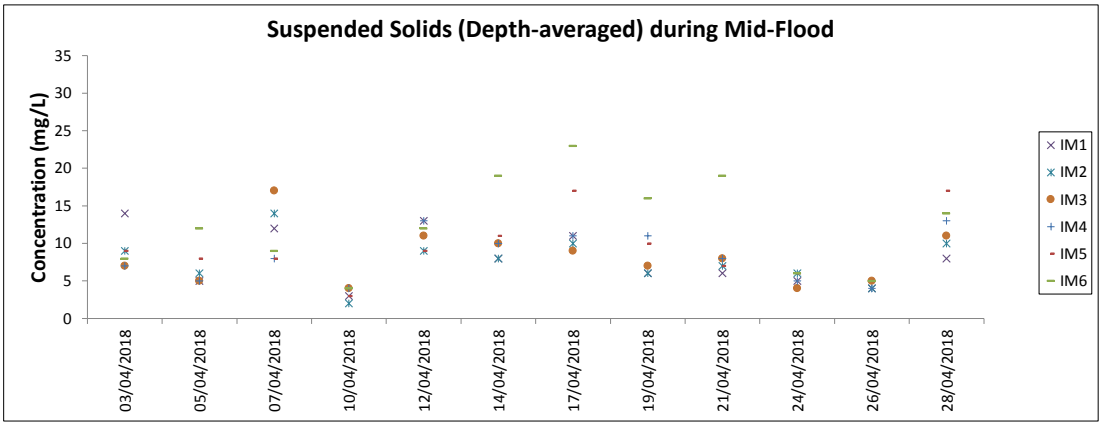


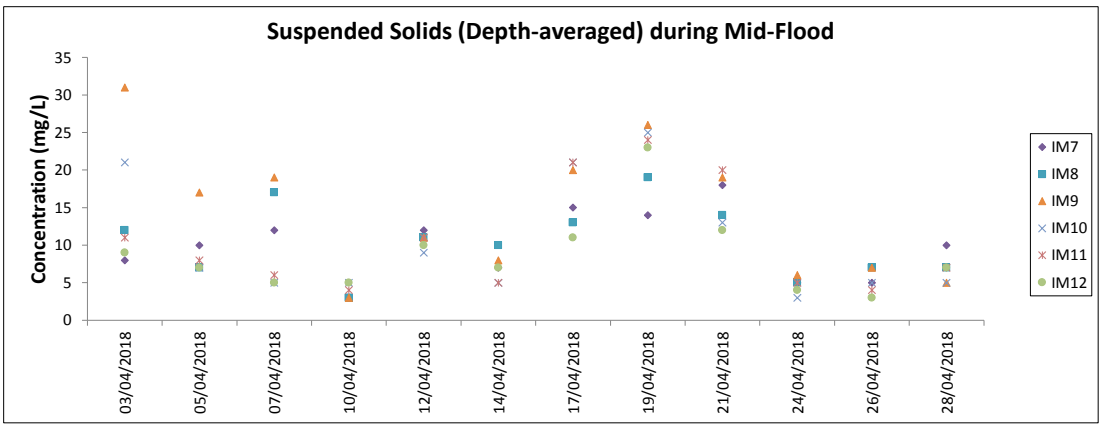


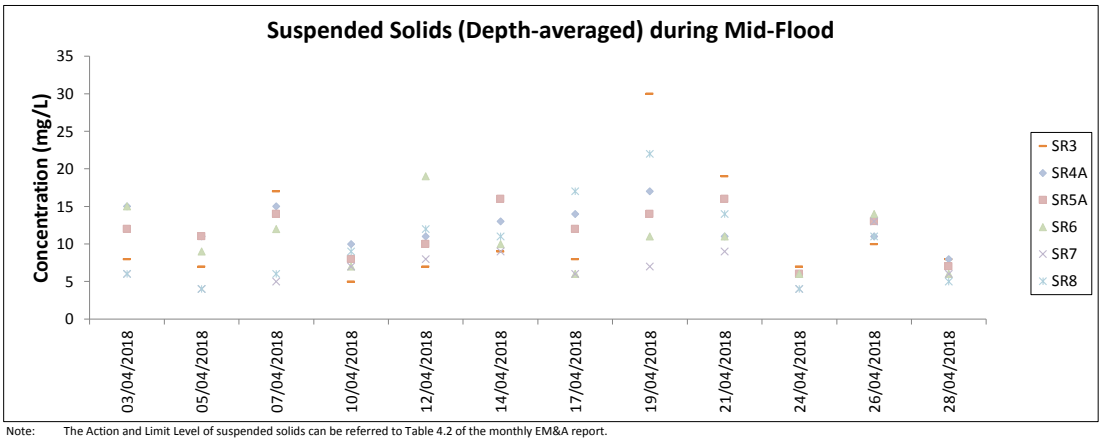


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

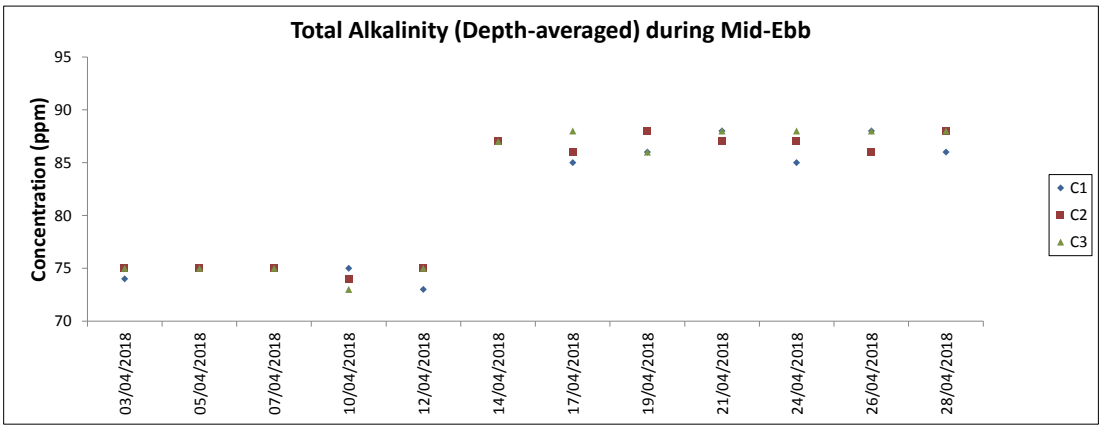


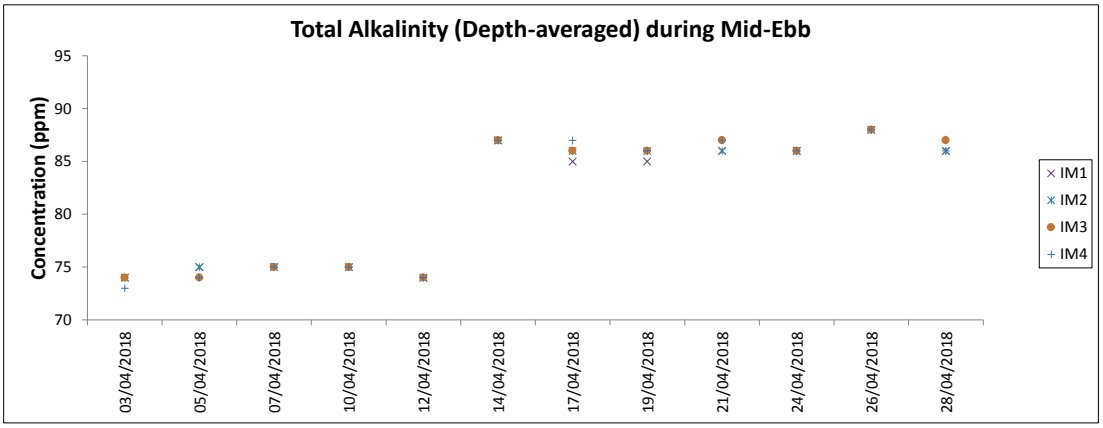


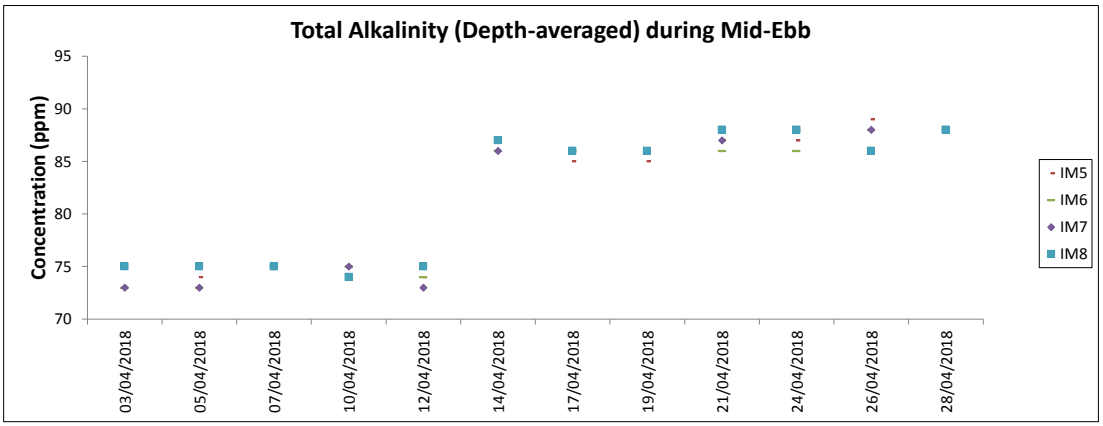


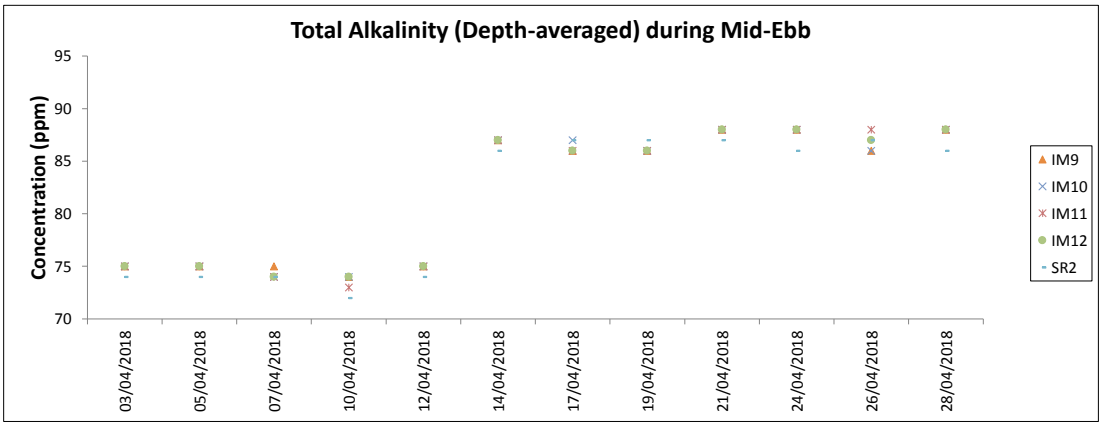


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

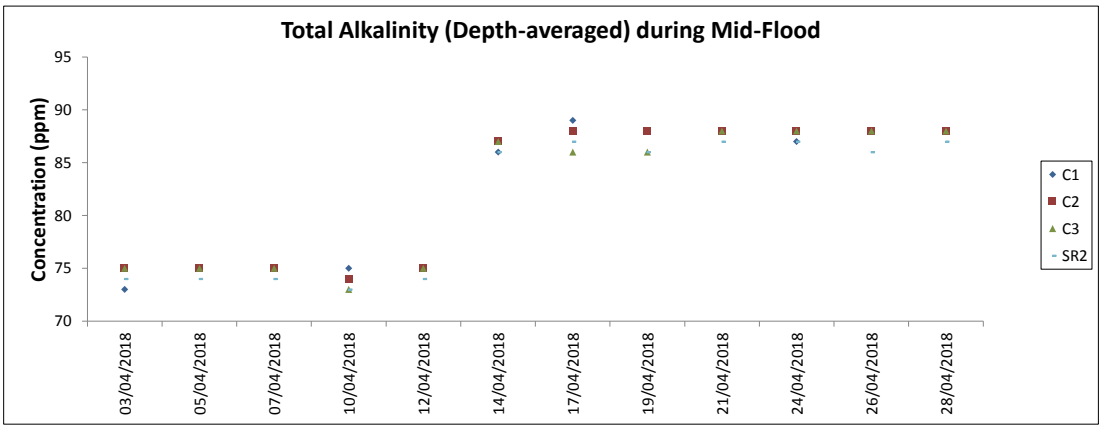


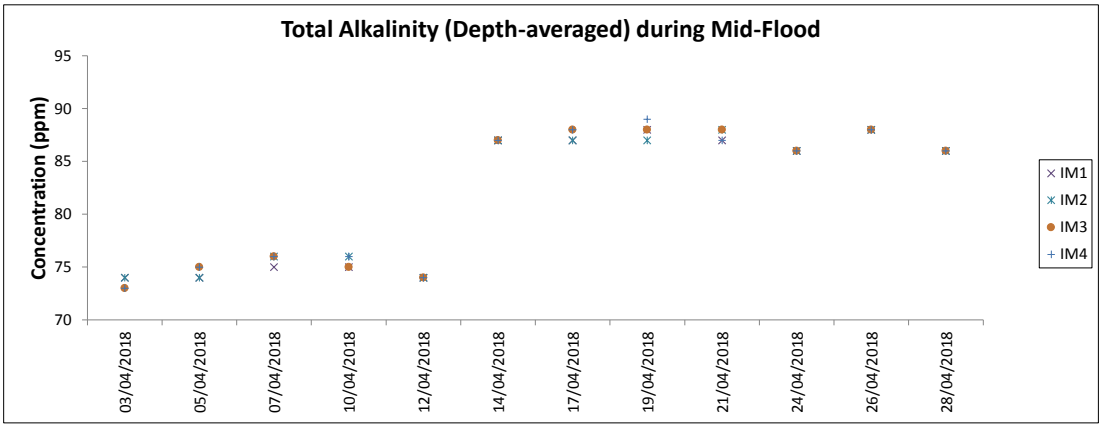


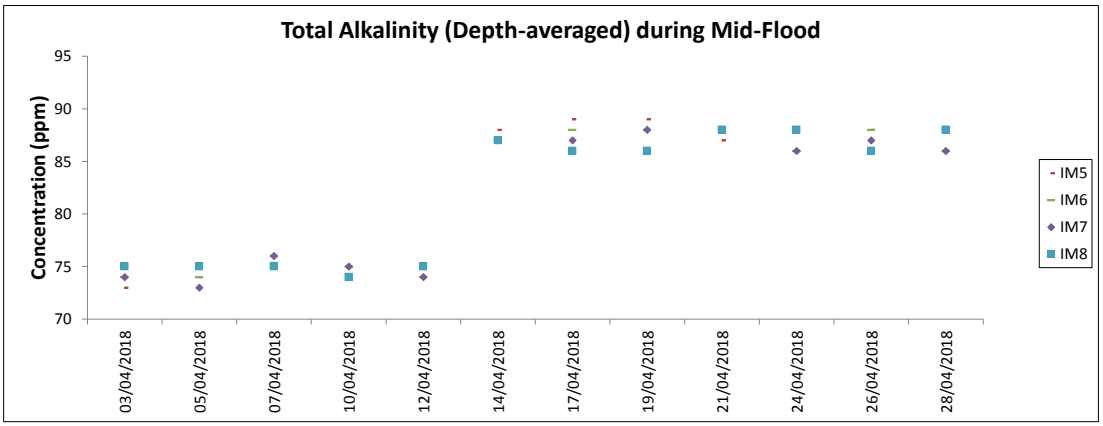


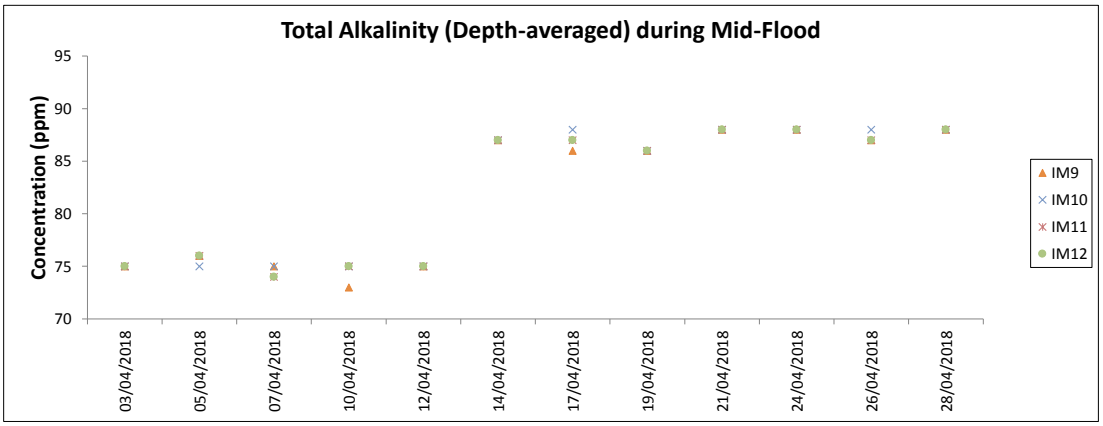


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

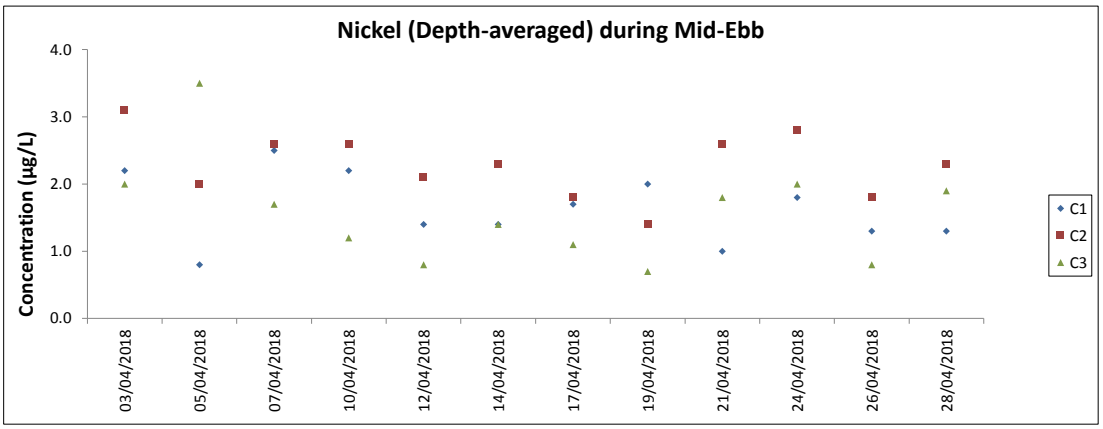


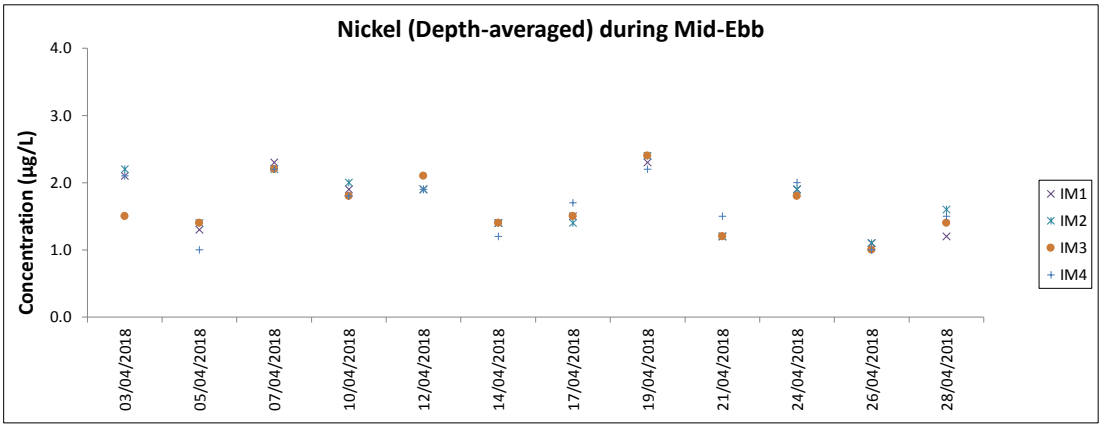


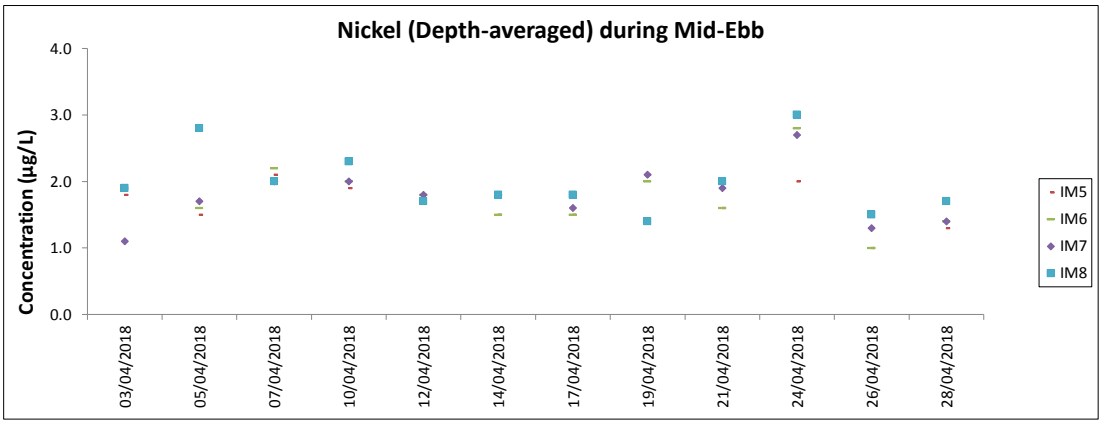


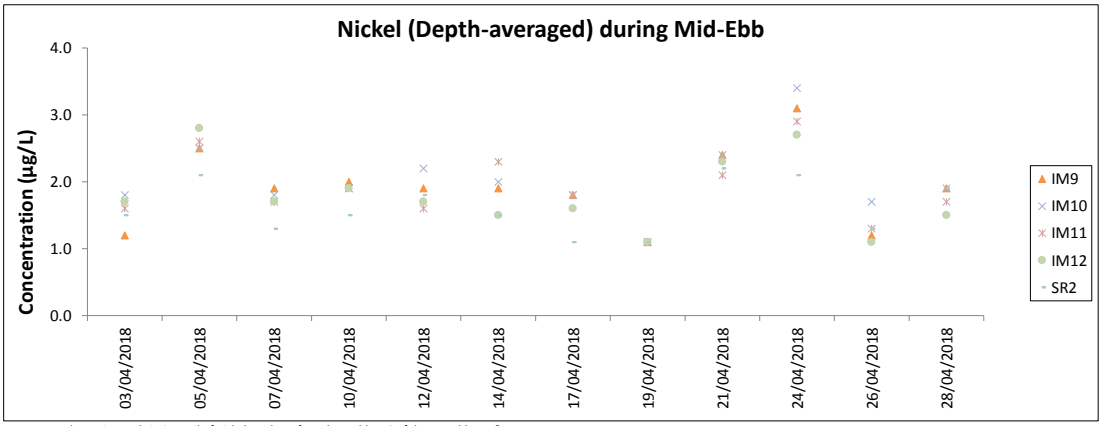


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

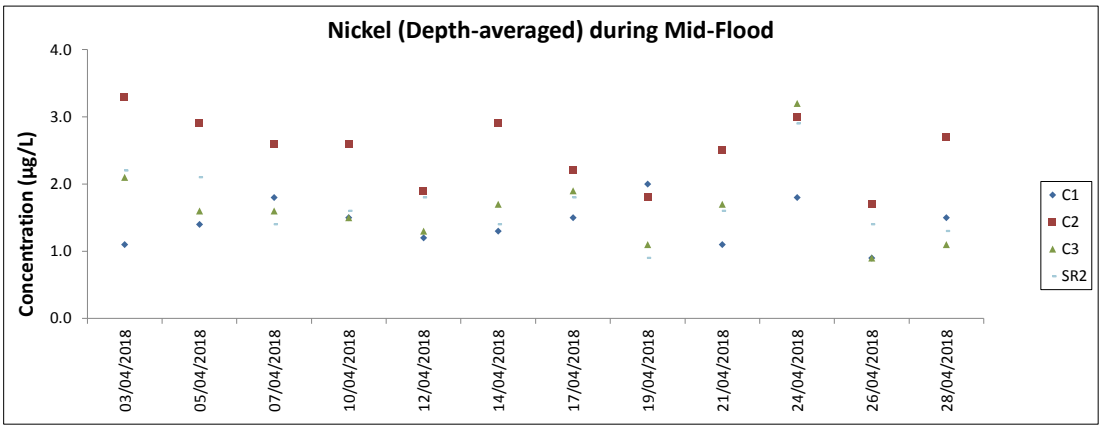


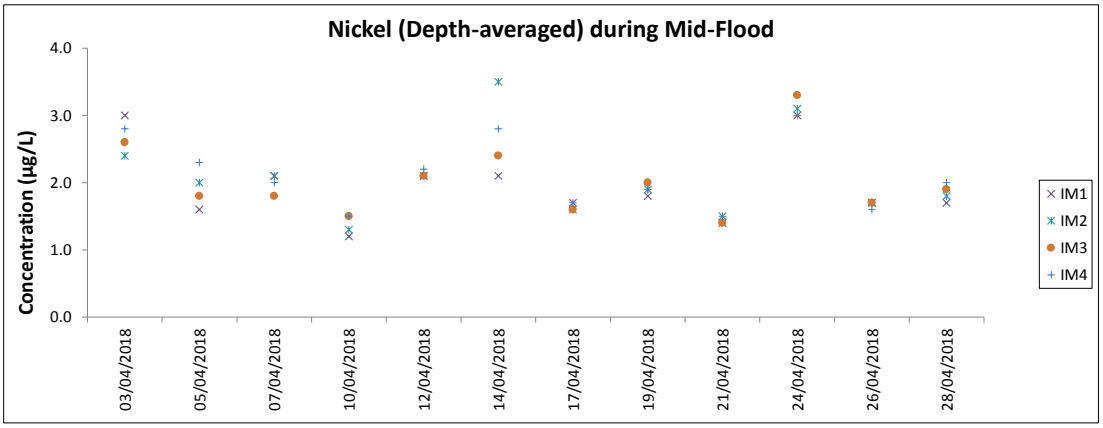


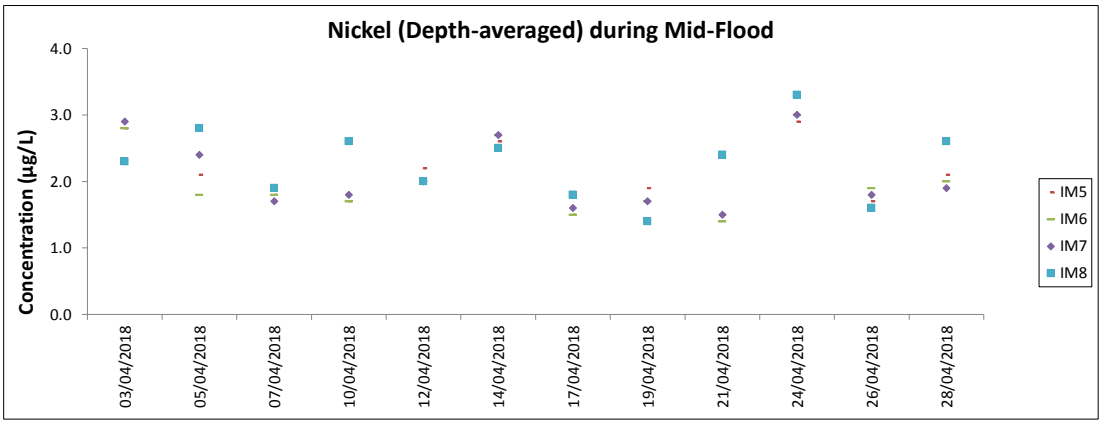


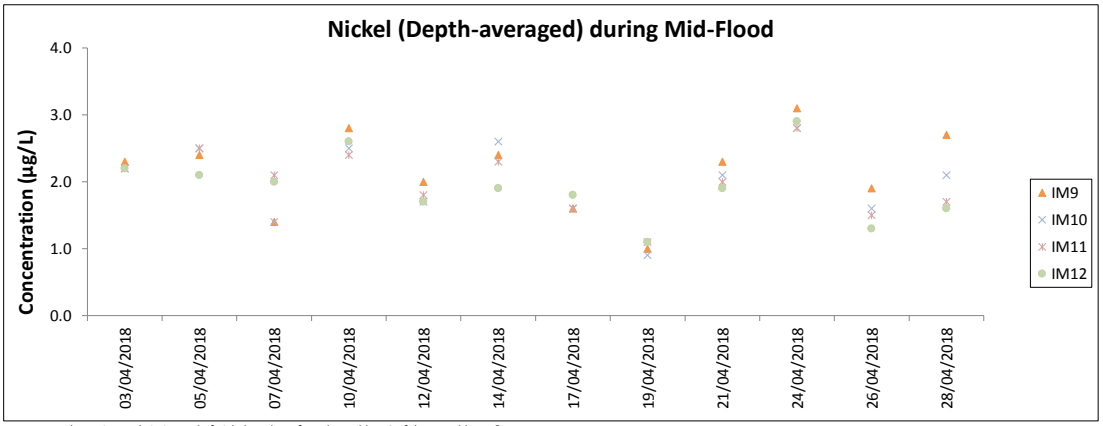


Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.
All chromium results in the reporting period was below the reporting limit 0.2 µg/L.









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.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey — Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
06-Feb-18	NWL	2	10.500	WINTER	32166	3RS ET
06-Feb-18	NWL	3	51.794	WINTER	32166	3RS ET
06-Feb-18	NWL	4	13.389	WINTER	32166	3RS ET
07-Feb-18	NEL	1	9.800	WINTER	32166	3RS ET
07-Feb-18	NEL	2	37.100	WINTER	32166	3RS ET
12-Feb-18	NWL	2	7.850	WINTER	32166	3RS ET
12-Feb-18	NWL	3	62.380	WINTER	32166	3RS ET
12-Feb-18	NWL	4	4.890	WINTER	32166	3RS ET
13-Feb-18	AW	2	4.800	WINTER	32166	3RS ET
13-Feb-18	WL	2	17.744	WINTER	32166	3RS ET
13-Feb-18	WL	3	9.140	WINTER	32166	3RS ET
13-Feb-18	WL	4	5.970	WINTER	32166	3RS ET
13-Feb-18	SWL	5	6.830	WINTER	32166	3RS ET
14-Feb-18	AW	2	4.620	WINTER	32166	3RS ET
14-Feb-18	WL	2	27.499	WINTER	32166	3RS ET
14-Feb-18	WL	3	2.810	WINTER	32166	3RS ET
14-Feb-18	WL	4	1.420	WINTER	32166	3RS ET
14-Feb-18	SWL	4	6.860	WINTER	32166	3RS ET
21-Feb-18	SWL	2	28.770	WINTER	32166	3RS ET
21-Feb-18	SWL	3	25.830	WINTER	32166	3RS ET
21-Feb-18	SWL	4	7.600	WINTER	32166	3RS ET
22-Feb-18	NEL	2	8.700	WINTER	32166	3RS ET
22-Feb-18	NEL	3	36.900	WINTER	32166	3RS ET
22-Feb-18	NEL	4	1.300	WINTER	32166	3RS ET
23-Feb-18	SWL	2	1.640	WINTER	32166	3RS ET
23-Feb-18	SWL	3	60.860	WINTER	32166	3RS ET
05-Mar-18	SWL	1	40.540	SPRING	32166	3RS ET
05-Mar-18	SWL	2	21.840	SPRING	32166	3RS ET
07-Mar-18	NEL	2	6.660	SPRING	32166	3RS ET
07-Mar-18	NEL	3	29.130	SPRING	32166	3RS ET
07-Mar-18	NEL	4	11.510	SPRING	32166	3RS ET
08-Mar-18	NEL	2	25.549	SPRING	32166	3RS ET
08-Mar-18	NEL	3	21.251	SPRING	32166	3RS ET
12-Mar-18	AW	2	1.070	SPRING	32166	3RS ET
12-Mar-18	AW	3	3.660	SPRING	32166	3RS ET
12-Mar-18	WL	2	32.876	SPRING	32166	3RS ET
12-Mar-18	WL	3	0.550	SPRING	32166	3RS ET
12-Mar-18	SWL	2	1.970	SPRING	32166	3RS ET
12-Mar-18	SWL	3	14.329	SPRING	32166	3RS ET
12-Mar-18	SWL	4	2.130	SPRING	32166	3RS ET
13-Mar-18	AW	1	4.700	SPRING	32166	3RS ET
13-Mar-18	WL	2	22.370	SPRING	32166	3RS ET
13-Mar-18	WL	3	9.417	SPRING	32166	3RS ET
13-Mar-18	WL	4	1.643	SPRING	32166	3RS ET
13-Mar-18	SWL	3	6.820	SPRING	32166	3RS ET
14-Mar-18	NWL	2	59.690	SPRING	32166	3RS ET
14-Mar-18	NWL	3	14.666	SPRING	32166	3RS ET

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
21-Mar-18	SWL	2	16.139	SPRING	32166	3RS ET
21-Mar-18	SWL	3	10.311	SPRING	32166	3RS ET
21-Mar-18	SWL	4	23.030	SPRING	32166	3RS ET
22-Mar-18	NWL	2	34.844	SPRING	32166	3RS ET
22-Mar-18	NWL	3	37.876	SPRING	32166	3RS ET
03-Apr-18	SWL	1	14.910	SPRING	32166	3RS ET
03-Apr-18	SWL	2	45.610	SPRING	32166	3RS ET
03-Apr-18	SWL	3	2.000	SPRING	32166	3RS ET
04-Apr-18	SWL	1	31.340	SPRING	32166	3RS ET
04-Apr-18	SWL	2	28.140	SPRING	32166	3RS ET
04-Apr-18	SWL	3	2.610	SPRING	32166	3RS ET
11-Apr-18	AW	2	4.770	SPRING	32166	3RS ET
11-Apr-18	WL	2	14.970	SPRING	32166	3RS ET
11-Apr-18	WL	3	16.070	SPRING	32166	3RS ET
11-Apr-18	SWL	2	2.140	SPRING	32166	3RS ET
11-Apr-18	SWL	3	4.680	SPRING	32166	3RS ET
12-Apr-18	AW	2	3.530	SPRING	32166	3RS ET
12-Apr-18	AW	3	1.280	SPRING	32166	3RS ET
12-Apr-18	WL	2	12.481	SPRING	32166	3RS ET
12-Apr-18	WL	3	18.889	SPRING	32166	3RS ET
12-Apr-18	SWL	2	6.735	SPRING	32166	3RS ET
18-Apr-18	NEL	2	30.140	SPRING	32166	3RS ET
18-Apr-18	NEL	3	17.060	SPRING	32166	3RS ET
19-Apr-18	NWL	2	15.530	SPRING	32166	3RS ET
19-Apr-18	NWL	3	53.430	SPRING	32166	3RS ET
19-Apr-18	NWL	4	6.030	SPRING	32166	3RS ET
23-Apr-18	NWL	2	39.210	SPRING	32166	3RS ET
23-Apr-18	NWL	3	31.250	SPRING	32166	3RS ET
23-Apr-18	NWL	4	4.500	SPRING	32166	3RS ET
27-Apr-18	NEL	1	22.760	SPRING	32166	3RS ET
27-Apr-18	NEL	2	23.840	SPRING	32166	3RS ET

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. February and March 2018) 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.
06-Feb-18	1	1043	CWD	2	NWL	3	N/A	OFF	3RS ET	22.2784	113.8777	WINTER	GILLNET
06-Feb-18	2	1058	CWD	1	NWL	3	80	ON	3RS ET	22.2829	113.8785	WINTER	NONE
06-Feb-18	3	1153	CWD	5	NWL	3	75	ON	3RS ET	22.3720	113.8771	WINTER	NONE
06-Feb-18	4	1523	CWD	2	NWL	2	N/A	OFF	3RS ET	22.3304	113.9495	WINTER	NONE
12-Feb-18	1	1121	CWD	2	NWL	3	76	ON	3RS ET	22.3384	113.8781	WINTER	NONE
12-Feb-18	2	1153	CWD	7	NWL	2	80	ON	3RS ET	22.3709	113.8768	WINTER	NONE
12-Feb-18	3	1240	CWD	3	NWL	3	345	ON	3RS ET	22.4121	113.8780	WINTER	NONE
12-Feb-18	4	1348	CWD	3	NWL	3	114	ON	3RS ET	22.3460	113.8981	WINTER	NONE
13-Feb-18	1	0943	CWD	3	AW	2	548	ON	3RS ET	22.2917	113.8745	WINTER	NONE
13-Feb-18	2	1011	CWD	1	AW	2	N/A	OFF	3RS ET	22.2879	113.8838	WINTER	NONE
13-Feb-18	3	1052	CWD	1	WL	2	366	ON	3RS ET	22.2686	113.8559	WINTER	NONE
13-Feb-18	4	1115	CWD	3	WL	2	475	ON	3RS ET	22.2604	113.8491	WINTER	NONE
13-Feb-18	5	1141	CWD	4	WL	2	392	ON	3RS ET	22.2604	113.8445	WINTER	NONE
13-Feb-18	6	1158	CWD	1	WL	2	47	ON	3RS ET	22.2605	113.8419	WINTER	NONE
13-Feb-18	7	1212	CWD	4	WL	2	200	ON	3RS ET	22.2504	113.8388	WINTER	NONE
13-Feb-18	8	1248	CWD	2	WL	2	456	ON	3RS ET	22.2375	113.8262	WINTER	NONE
14-Feb-18	1	0931	CWD	1	AW	2	11	ON	3RS ET	22.3019	113.8813	WINTER	NONE
14-Feb-18	2	0944	CWD	5	AW	2	638	ON	3RS ET	22.2951	113.8805	WINTER	NONE
14-Feb-18	3	1020	CWD	5	WL	2	269	ON	3RS ET	22.3031	113.8611	WINTER	NONE
14-Feb-18	4	1035	CWD	4	WL	2	231	ON	3RS ET	22.2937	113.8616	WINTER	GILLNET
14-Feb-18	5	1058	CWD	1	WL	3	761	ON	3RS ET	22.2751	113.8494	WINTER	NONE
14-Feb-18	6	1156	CWD	1	WL	2	71	ON	3RS ET	22.2415	113.8386	WINTER	NONE
14-Feb-18	7	1211	CWD	4	WL	2	6	ON	3RS ET	22.2416	113.8352	WINTER	NONE
14-Feb-18	8	1256	CWD	5	WL	2	110	ON	3RS ET	22.2140	113.8237	WINTER	NONE
23-Feb-18	1	1222	CWD	1	SWL	3	8	ON	3RS ET	22.1759	113.9072	WINTER	NONE
05-Mar-18	1	1328	FP	2	SWL	2	58	ON	3RS ET	22.1574	113.8973	SPRING	NONE
05-Mar-18	2	1338	FP	2	SWL	2	145	ON	3RS ET	22.1484	113.8941	SPRING	NONE
05-Mar-18	3	1454	FP	3	SWL	2	103	ON	3RS ET	22.1824	113.8685	SPRING	NONE
12-Mar-18	1	1146	CWD	10	WL	2	122	ON	3RS ET	22.2076	113.8396	SPRING	NONE
12-Mar-18	2	1208	CWD	2	WL	2	17	ON	3RS ET	22.2053	113.8384	SPRING	NONE
12-Mar-18	3	1412	CWD	1	SWL	3	164	ON	3RS ET	22.1995	113.8784	SPRING	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
13-Mar-18	1	1037	CWD	2	WL	2	56	ON	3RS ET	22.2666	113.8596	SPRING	NONE
13-Mar-18	2	1128	CWD	1	WL	2	140	ON	3RS ET	22.2348	113.8251	SPRING	NONE
13-Mar-18	3	1205	CWD	5	WL	2	384	ON	3RS ET	22.2231	113.8195	SPRING	NONE
13-Mar-18	4	1244	CWD	1	WL	4	12	ON	3RS ET	22.2143	113.8273	SPRING	NONE
13-Mar-18	5	1324	CWD	1	WL	2	36	ON	3RS ET	22.1961	113.8406	SPRING	NONE
14-Mar-18	1	1000	CWD	2	NWL	2	65	ON	3RS ET	22.3539	113.8689	SPRING	NONE
14-Mar-18	2	1013	CWD	2	NWL	2	335	ON	3RS ET	22.3431	113.8687	SPRING	NONE
14-Mar-18	3	1126	CWD	2	NWL	2	N/A	OFF	3RS ET	22.3245	113.8729	SPRING	NONE
14-Mar-18	4	1208	CWD	4	NWL	2	57	ON	3RS ET	22.3912	113.8785	SPRING	NONE
14-Mar-18	5	1253	CWD	1	NWL	3	587	ON	3RS ET	22.3824	113.8888	SPRING	NONE
14-Mar-18	6	1310	CWD	2	NWL	3	13	ON	3RS ET	22.3837	113.8887	SPRING	NONE
21-Mar-18	1	1050	FP	4	SWL	2	59	ON	3RS ET	22.1486	113.9340	SPRING	NONE
21-Mar-18	2	1106	FP	1	SWL	2	201	ON	3RS ET	22.1599	113.9272	SPRING	NONE
21-Mar-18	3	1111	FP	2	SWL	2	262	ON	3RS ET	22.1658	113.9272	SPRING	NONE
21-Mar-18	4	1202	FP	1	SWL	2	30	ON	3RS ET	22.1453	113.9176	SPRING	NONE
21-Mar-18	5	1311	FP	1	SWL	4	225	ON	3RS ET	22.1641	113.8975	SPRING	NONE
22-Mar-18	1	1219	CWD	6	NWL	3	981	ON	3RS ET	22.3840	113.8774	SPRING	PURSE SEINE
22-Mar-18	2	1305	CWD	2	NWL	3	579	ON	3RS ET	22.3952	113.8893	SPRING	NONE
22-Mar-18	3	1418	CWD	1	NWL	2	50	ON	3RS ET	22.3780	113.8980	SPRING	NONE
22-Mar-18	4	1454	CWD	1	NWL	2	51	ON	3RS ET	22.3760	113.9062	SPRING	NONE
03-Apr-18	1	1048	FP	1	SWL	1	1489	ON	3RS ET	22.1788	113.9360	SPRING	NONE
03-Apr-18	2	1056	FP	2	SWL	1	192	ON	3RS ET	22.1652	113.9359	SPRING	NONE
04-Apr-18	1	1058	FP	3	SWL	1	23	ON	3RS ET	22.1556	113.9361	SPRING	NONE
04-Apr-18	2	1208	FP	2	SWL	1	116	ON	3RS ET	22.1499	113.9178	SPRING	NONE
04-Apr-18	3	1216	FP	1	SWL	1	85	ON	3RS ET	22.1415	113.9128	SPRING	NONE
04-Apr-18	4	1335	FP	5	SWL	2	176	ON	3RS ET	22.1487	113.8963	SPRING	NONE
04-Apr-18	5	1405	CWD	2	SWL	2	78	ON	3RS ET	22.2025	113.8879	SPRING	NONE
11-Apr-18	1	1034	CWD	2	WL	2	444	ON	3RS ET	22.2666	113.8595	SPRING	PURSE SEINE
11-Apr-18	2	1108	CWD	1	WL	3	117	ON	3RS ET	22.2500	113.8442	SPRING	NONE
11-Apr-18	3	1129	CWD	3	WL	3	511	ON	3RS ET	22.2414	113.8365	SPRING	SHRIMP TRAWLER
11-Apr-18	4	1226	CWD	3	WL	3	119	ON	3RS ET	22.2145	113.8315	SPRING	NONE
12-Apr-18	1	1029	CWD	2	WL	2	N/A	OFF	3RS ET	22.2601	113.8489	SPRING	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
12-Apr-18	2	1054	CWD	6	WL	3	285	ON	3RS ET	22.2507	113.8431	SPRING	NONE
12-Apr-18	3	1130	CWD	8	WL	2	18	ON	3RS ET	22.2416	113.8367	SPRING	NONE
12-Apr-18	4	1201	CWD	3	WL	3	136	ON	3RS ET	22.2321	113.8322	SPRING	NONE
12-Apr-18	5	1242	CWD	5	WL	3	119	ON	3RS ET	22.2145	113.8317	SPRING	NONE
12-Apr-18	6	1345	CWD	1	WL	3	N/A	OFF	3RS ET	22.1919	113.8428	SPRING	NONE
12-Apr-18	7	1352	CWD	3	SWL	2	320	ON	3RS ET	22.1928	113.8491	SPRING	NONE
12-Apr-18	8	1421	CWD	1	SWL	2	21	ON	3RS ET	22.1684	113.8577	SPRING	NONE
19-Apr-18	1	0953	CWD	1	NWL	3	114	ON	3RS ET	22.3730	113.8693	SPRING	NONE
19-Apr-18	2	1207	CWD	1	NWL	2	15	ON	3RS ET	22.3832	113.8769	SPRING	NONE
19-Apr-18	3	1235	CWD	5	NWL	2	410	ON	3RS ET	22.4063	113.8775	SPRING	NONE
19-Apr-18	4	1316	CWD	5	NWL	2	N/A	OFF	3RS ET	22.4033	113.8881	SPRING	NONE
23-Apr-18	1	0946	CWD	6	NWL	2	413	ON	3RS ET	22.3930	113.8703	SPRING	NONE

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

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. February and March 2018) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report.

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

Calculation of the April 2018 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 443.375 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 15 on-effort sightings and total number of 50 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in April 2018 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in April 2018

$$STG = \frac{15}{443.375}\ x\ 100 = 3.38$$

Encounter Rate by Number of Dolphins (ANI) in April 2018

$$ANI = \frac{50}{443.375}\ x\ 100 = 11.28$$

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

A total of 1268.370 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 53 on-effort sightings and total number of 159 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)

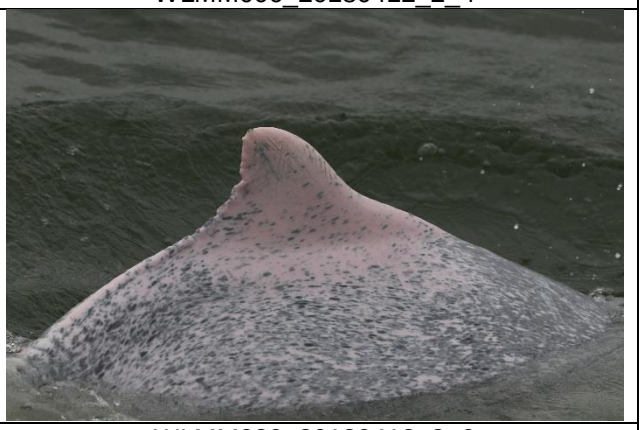
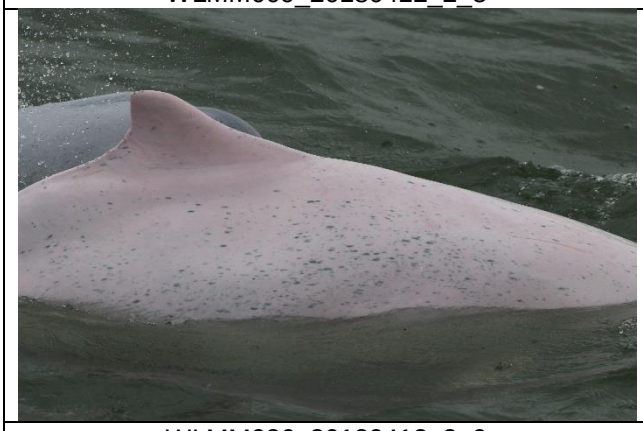
$$STG = \frac{53}{1268.370}\ x\ 100 = 4.18$$

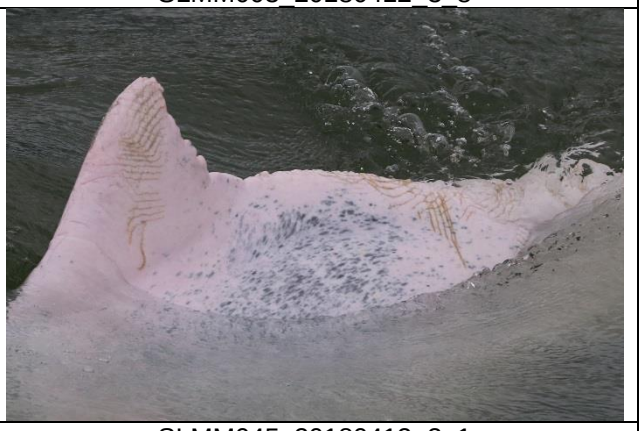
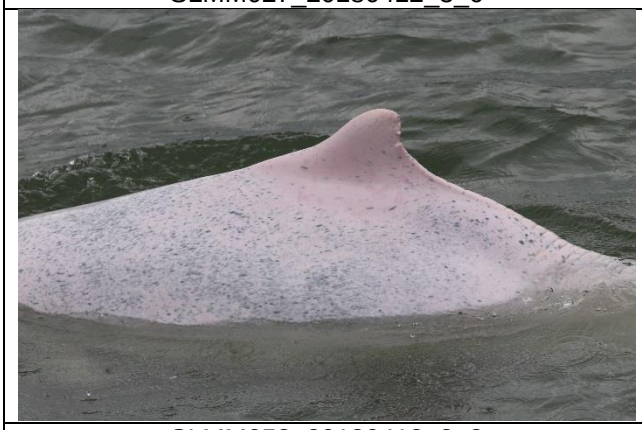
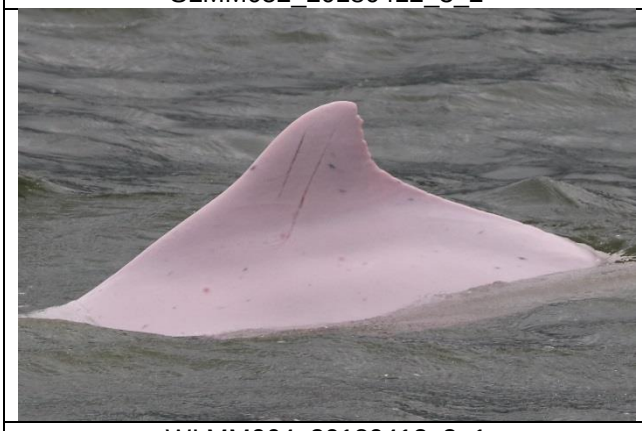
Running Quarterly Encounter Rate by Number of Dolphins (ANI)

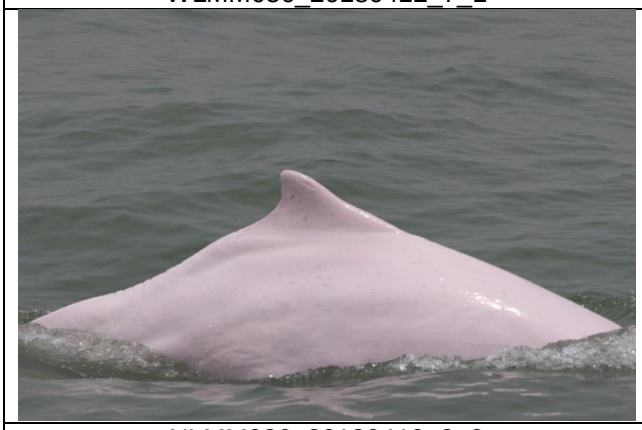
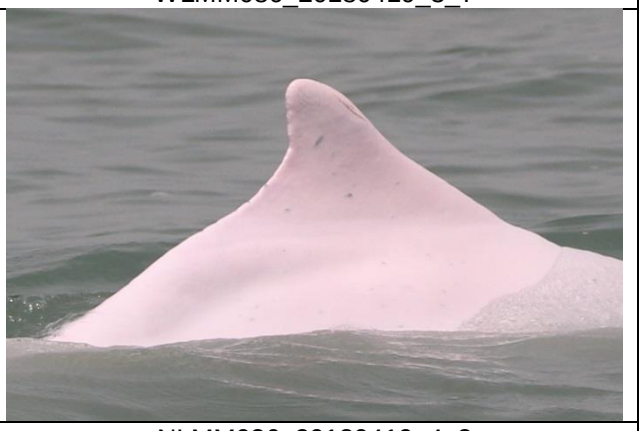
$$ANI = \frac{159}{1168.370}\ x\ 100 = 12.54$$

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

	
SLMM014_20180404_5_2	SLMM028_20180411_1_5
	
WLMM043_20180411_1_16	SLMM064_20180411_2_6
	
SLMM027_20180411_3_8	WLMM073_20180411_3_3
	
WLMM001_20180411_4_4	WLMM003_20180411_4_8

	
WLMM085_20180411_4_2	WLMM043_20180412_1_1
	
SLMM058_20180412_2_5	WLMM006_20180412_2_4
	
WLMM009_20180412_2_5	WLMM030_20180412_2_6
	
WLMM086_20180412_2_9	WLMM090_20180412_2_3

	
NLMM062_20180412_3_2	SLMM003_20180412_3_8
	
SLMM027_20180412_3_6	SLMM045_20180412_3_1
	
SLMM052_20180412_3_2	WLMM004_20180412_3_1
	
WLMM064_20180412_3_1	WLMM001_20180412_4_1

	
WLMM069_20180412_4_4	WLMM069_20180412_5_3
	
WLMM056_20180412_7_1	NLMM010_20180419_2_3
	
NLMM036_20180419_3_2	WLMM086_20180419_3_7
	
WLMM090_20180419_3_8	NLMM036_20180419_4_3

	
WLMM086_20180419_4_7	WLMM090_20180419_4_1_Left
	
NLMM004_20180423_1_4	NLMM010_20180423_1_6
	
NLMM037_20180423_1_6	NLMM043_20180423_1_8
	
NLMM063_20180423_1_6	SLMM036_20180423_1_6

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
13/April/18	Lung Kwu Chau	8:53	14:53	6:00	2-3	2	2	2
19/April/18	Lung Kwu Chau	8:43	14:43	6:00	2	2	6	1-2
20/April/18	Sha Chau	8:48	14:48	6:00	2-4	2-3	0	N/A
23/April/18	Lung Kwu Chau	8:51	14:51	6:00	2	2	3	2-4
26/April/18	Sha Chau	8:49	14:49	6:00	2-3	3	0	N/A

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	Launching Site	423880	Receipt acknowledged by EPD on 1 Dec 2017
		Site Office	397151	Receipt acknowledged by EPD on 15 Jan 2016
		Stockpiling Area	398015	Receipt acknowledged by EPD on 18 Jan 2016
		Sheung Sha Chau	405860	Receipt acknowledged by EPD on 5 Aug 2016
	Construction Noise Permit (General Works)	Launching Site	GW-RS0096-18	Superseded by GW-RS0326-18 on 26 Apr 2018
			GW-RS0326-18	Valid until 23 Oct 2018
		Sheung Sha Chau	GW-RW0533-17	Valid until 8 Apr 2018
		Stockpiling Area	GW-RS0043-18	Valid until 13 Aug 2018
	Discharge License under WPCO	Launching Site	WT00024249-2016	Valid from to 25 Apr 2016 to 30 Apr 2021
		Stockpiling Area	WT00024250-2016	Approved on 25 Apr 2016 to 30 Apr 2021
	Registration as Chemical Waste Producer	Launching Site	WPN 5213-951-L2902-01	Registration was updated on 29 Sep 2017
		Sheung Sha Chau	WPN 5111-434-L2902-03	Registration was updated on 6 Oct 2017
		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-RS0187-18	Superseded by GW-RS0251-18 on 3 Apr 2018
		Works area of 3201	GW-RS0251-18	Superseded by GW-RS0315-18 on 20 Apr 2018
		Works area of 3201	GW-RS0315-18	Valid until 17 Oct 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3201	WPN 5213-951-P3231-01	Completion of Registration on 9 Sep 2016
	Bill Account for disposal		A/C 7025760	Approval granted from EPD on 31 Aug 2016
3202	Notification of Construction Work under APCO	Works area of 3202	407624	Receipt acknowledged by EPD on 15 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3202	GW-RS0083-18	Superseded by GW-RS0252-18 on 3 Apr 2018
		Works area of 3202	GW-RS0252-18	Superseded by GW-RS0316-18 on 20 Apr 2018
		Works area of 3202	GW-RS0316-18	Valid until 17 Oct 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-RS1172-17	Superseded by GW-RS0253-18 on 3 Apr 2018
		Works area of 3203	GW-RS0253-18	Superseded by GW-RS0317-18 on 20 Apr 2018
		Works area of 3203	GW-RS0317-18	Valid until 17 Oct 2018
	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
	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
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS0188-18	Superseded by GW-RS0254-18 on 3 Apr 2018
		Works Area of 3204	GW-RS0254-18	Superseded by GW-RS0318-18 on 20 Apr 2018
		Works Area of 3204	GW-RS0318-18	Valid until 17 Oct 2018
	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

Contract No.	Description	Location	Permit/ Reference No.	Status
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-RS0255-18	Superseded by GW-RS0319-18 on 20 Apr 2018
		Works Area of 3205	GW-RS0319-18	Valid until 17 Oct 2018
	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-RS0190-18	Superseded by GW-RS0256-18 on 28 Mar 2018
		Works Area of 3206	GW-RS0256-18	Superseded by GW-RS0320-18 on 20 Apr 2018
		Works Area of 3206	GW-RS0320-18	Valid until 10 Oct 2018
	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 (Cable ducting works)	GW-RS0991-17	Superseded by GW-RS0270-18 on 6 Apr 2018
			GW-RS0270-18	Valid until 5 Oct 2018
		Works area of 3301	GW-RS1184-17	Superseded by GW-RS0288-18 on 6 Apr 2018
			GW-RS0288-17	Valid until 5 Oct 2018
3501	Notification of Construction Work under APCO	Works area of 3501	417903	Receipt acknowledged by EPD on 13 Jun 2017

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3501	WPN 5213-951-B2520-02	Completion of Registration on 25 Jul 2017
	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-RS1187-17	Valid until 1 July 2018
3502	Notification of Construction Work under APCO	Works area of 3502	417511	Receipt acknowledged by EPD on 2 Jun 2017
	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-RS0193-18	Valid until 10 Sep 2018
3503	Notification of Construction Work under APCO	Works area of 3503	424591	Receipt acknowledged by EPD on 8 Dec 2017
	Registration as Chemical Waste Producer	Works area of 3503	WPN 5113-951-L2845-02	Completion of Registration on 8 Jan 2018
	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-RS0213-18	Superseded by GW-RS0290-18 on 9 Apr 2018
			GW-RS0290-18	Valid until 8 Oct 2018
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
3801	Notification of Construction Work under APCO	Works area of 3801	418345	Receipt acknowledged by EPD on 26 Jun 2017
		Works area of 3801	430372	Receipt acknowledged by EPD on 2 Feb 2018
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951-C1169-51	Completion of Registration on 4 Aug 2017
	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
			GW-RS0284-18	Superseded by GW-RS0340-18 on 27 Apr 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works and stockpiling area of 3801	GW-RS0340-18	Valid until 26 Oct 2018
		Works area of 3801	GW-RS0343-18	Valid until 29 Jun 2018
		Works area of 3801	GW-RS0229-18	Valid until 22 May 2018

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	0	0	0
From 28 December 2015 to end of the reporting period	10	1	0

Appendix F. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 April 2018)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 April 2018)

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	08:13	8S210	XZM	Arrival	12.8	-	-
01-Apr	08:14	3A061	YFT	Arrival	12	-	-
01-Apr	09:55	3A062	YFT	Arrival	11.4	-	-
01-Apr	10:14	3A163	YFT	Departure	13.4	-	-
01-Apr	10:36	8S212	XZM	Arrival	11.5	-	-
01-Apr	10:39	3A081	ZUI	Arrival	12.9	-	-
01-Apr	11:12	8S121	XZM	Departure	12.3	-	-
01-Apr	11:19	3A063	YFT	Arrival	12.3	-	-
01-Apr	12:22	3A168	YFT	Departure	12.7	-	-
01-Apr	12:25	3A181	ZUI	Departure	12.5	-	-
01-Apr	12:48	8S215	XZM	Arrival	11.8	-	-
01-Apr	13:08	3A064	YFT	Arrival	12.8	-	-
01-Apr	13:40	8S123	XZM	Departure	11.7	-	-
01-Apr	13:45	3A082	ZUI	Arrival	12.7	-	-
01-Apr	14:31	3A164	YFT	Departure	13.2	-	-
01-Apr	14:36	3A182	ZUI	Departure	12.1	-	-
01-Apr	14:58	3A065	YFT	Arrival	12.6	-	-
01-Apr	16:18	3A167	YFT	Departure	12.8	-	-
01-Apr	16:43	3A083	ZUI	Arrival	13	-	-
01-Apr	16:44	8S218	XZM	Arrival	10.8	-	-
01-Apr	16:59	3A067	YFT	Arrival	12.4	-	-
01-Apr	17:11	3A183	ZUI	Departure	12.1	-	-
01-Apr	17:22	8S126	XZM	Departure	11.8	-	-
01-Apr	19:01	3A166	YFT	Departure	13.8	-	-
01-Apr	19:58	3A084	ZUI	Arrival	12.1	-	-
01-Apr	20:06	3A185	ZUI	Departure	12.7	-	-
01-Apr	20:54	8S2113	XZM	Arrival	10.3	-	-
01-Apr	20:56	3A169	YFT	Departure	12.7	-	-
01-Apr	21:53	8S522	XZM	Departure	10.7	-	-
02-Apr	08:15	3A061	YFT	Arrival	11.5	-	-
02-Apr	08:25	8S210	XZM	Arrival	11.6	-	-
02-Apr	09:48	3A062	YFT	Arrival	10.9	-	-
02-Apr	10:14	3A163	YFT	Departure	12	-	-
02-Apr	10:35	8S212	XZM	Arrival	10.4	-	-
02-Apr	10:46	3A081	ZUI	Arrival	13.1	-	-
02-Apr	11:06	8S121	XZM	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)
02-Apr	11:14	3A063	YFT	Arrival	12.3	-	-
02-Apr	12:13	3A181	ZUI	Departure	13	-	-
02-Apr	12:21	3A168	YFT	Departure	11.1	-	-
02-Apr	12:49	8S215	XZM	Arrival	11.9	-	-
02-Apr	12:54	3A064	YFT	Arrival	12.2	-	-
02-Apr	13:19	8S123	XZM	Departure	12	-	-
02-Apr	13:45	3A082	ZUI	Arrival	14	-	-
02-Apr	14:22	3A182	ZUI	Departure	13.3	-	-
02-Apr	14:22	3A164	YFT	Departure	12.5	-	-
02-Apr	14:54	3A065	YFT	Arrival	12.4	-	-
02-Apr	16:16	3A167	YFT	Departure	12.8	-	-
02-Apr	16:40	3A083	ZUI	Arrival	11.2	-	-
02-Apr	16:44	8S218	XZM	Arrival	11.8	-	-
02-Apr	16:56	3A067	YFT	Arrival	11.7	-	-
02-Apr	16:57	3A183	ZUI	Departure	12.5	-	-
02-Apr	17:22	8S126	XZM	Departure	0.0 **	-	-
02-Apr	19:02	3A166	YFT	Departure	12.5	-	-
02-Apr	19:48	3A084	ZUI	Arrival	11.9	-	-
02-Apr	20:15	3A185	ZUI	Departure	13.2	-	-
02-Apr	20:52	8S2113	XZM	Arrival	12.7	-	-
02-Apr	21:01	3A169	YFT	Departure	12.2	-	-
02-Apr	21:52	8S522	XZM	Departure	13.2	-	-
03-Apr	08:10	3A061	YFT	Arrival	12.5	-	-
03-Apr	08:25	8S210	XZM	Arrival	11.2	-	-
03-Apr	09:58	3A062	YFT	Arrival	11.7	-	-
03-Apr	10:17	3A163	YFT	Departure	12.1	-	-
03-Apr	10:35	8S212	XZM	Arrival	12.4	-	-
03-Apr	10:39	3A081	ZUI	Arrival	12.2	-	-
03-Apr	11:06	8S121	XZM	Departure	12.4	-	-
03-Apr	11:14	3A063	YFT	Arrival	12.6	-	-
03-Apr	12:14	3A168	YFT	Departure	13	-	-
03-Apr	12:16	3A181	ZUI	Departure	13.1	-	-
03-Apr	12:44	8S215	XZM	Arrival	11.9	-	-
03-Apr	12:55	3A064	YFT	Arrival	12.4	-	-
03-Apr	13:16	8S123	XZM	Departure	11	-	-
03-Apr	13:48	3A082	ZUI	Arrival	13.4	-	-
03-Apr	14:12	3A182	ZUI	Departure	13.4	-	-
03-Apr	14:13	3A164	YFT	Departure	12.2	-	-
03-Apr	14:51	3A065	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)
03-Apr	16:13	3A167	YFT	Departure	12.6	-	-
03-Apr	16:35	8S218	XZM	Arrival	11.6	-	-
03-Apr	16:39	3A083	ZUI	Arrival	11.8	-	-
03-Apr	16:58	3A067	YFT	Arrival	11.7	-	-
03-Apr	17:05	8S126	XZM	Departure	11.6	-	-
03-Apr	17:07	3A183	ZUI	Departure	11.7	-	-
03-Apr	19:03	3A166	YFT	Departure	12.4	-	-
03-Apr	19:50	3A084	ZUI	Arrival	12.3	-	-
03-Apr	20:15	3A185	ZUI	Departure	12.9	-	-
03-Apr	20:56	8S2113	XZM	Arrival	11.6	-	-
03-Apr	20:58	3A169	YFT	Departure	12.9	-	-
03-Apr	21:58	8S522	XZM	Departure	12	-	-
04-Apr	08:13	3A061	YFT	Arrival	12.7	<= 5	< 1min
04-Apr	08:19	8S210	XZM	Arrival	12	-	-
04-Apr	10:11	3A062	YFT	Arrival	11.5	-	-
04-Apr	10:33	3A163	YFT	Departure	11.7	-	-
04-Apr	10:41	8S212	XZM	Arrival	11.5	-	-
04-Apr	10:42	3A081	ZUI	Arrival	11.7	-	-
04-Apr	11:15	8S121	XZM	Departure	11.5	-	-
04-Apr	11:23	3A063	YFT	Arrival	11.4	-	-
04-Apr	12:17	3A181	ZUI	Departure	12.7	-	-
04-Apr	12:19	3A168	YFT	Departure	11.3	-	-
04-Apr	12:42	8S215	XZM	Arrival	12.3	-	-
04-Apr	13:04	3A064	YFT	Arrival	12	-	-
04-Apr	13:16	8S123	XZM	Departure	12.2	-	-
04-Apr	13:54	3A082	ZUI	Arrival	13.2	-	-
04-Apr	14:18	3A164	YFT	Departure	11.1	-	-
04-Apr	14:30	3A182	ZUI	Departure	12.6	-	-
04-Apr	14:57	3A065	YFT	Arrival	11.7	-	-
04-Apr	16:27	3A167	YFT	Departure	11	-	-
04-Apr	16:42	8S218	XZM	Arrival	11	-	-
04-Apr	16:45	3A083	ZUI	Arrival	11.9	-	-
04-Apr	16:55	3A067	YFT	Arrival	12.4	-	-
04-Apr	17:04	3A183	ZUI	Departure	11.9	-	-
04-Apr	17:18	8S126	XZM	Departure	12.1	-	-
04-Apr	19:04	3A166	YFT	Departure	12.9	-	-
04-Apr	19:48	3A084	ZUI	Arrival	12.1	-	-
04-Apr	20:09	3A185	ZUI	Departure	12.3	-	-
04-Apr	20:59	3A169	YFT	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)
04-Apr	21:06	8S2113	XZM	Arrival	12.1	-	-
04-Apr	22:49	8S522	XZM	Departure	12.3	-	-
05-Apr	08:09	3A061	YFT	Arrival	12.1	-	-
05-Apr	08:23	8S210	XZM	Arrival	12.1	-	-
05-Apr	09:51	3A062	YFT	Arrival	13.2	-	-
05-Apr	10:11	3A163	YFT	Departure	13.6	-	-
05-Apr	10:36	8S212	XZM	Arrival	12.2	-	-
05-Apr	10:41	3A081	ZUI	Arrival	12.5	-	-
05-Apr	11:07	8S121	XZM	Departure	12.5	-	-
05-Apr	11:14	3A063	YFT	Arrival	11.6	-	-
05-Apr	12:11	3A168	YFT	Departure	12.1	-	-
05-Apr	12:16	3A181	ZUI	Departure	13.2	-	-
05-Apr	12:44	8S215	XZM	Arrival	11.5	-	-
05-Apr	12:55	3A064	YFT	Arrival	13.3	-	-
05-Apr	13:23	8S123	XZM	Departure	11.2	-	-
05-Apr	13:41	3A082	ZUI	Arrival	13.2	-	-
05-Apr	14:13	3A164	YFT	Departure	13.6	-	-
05-Apr	14:18	3A182	ZUI	Departure	12	-	-
05-Apr	14:50	3A065	YFT	Arrival	12	-	-
05-Apr	16:11	3A167	YFT	Departure	11.2	-	-
05-Apr	16:37	8S218	XZM	Arrival	11.6	-	-
05-Apr	16:38	3A083	ZUI	Arrival	12.9	-	-
05-Apr	16:53	3A067	YFT	Arrival	13.7	-	-
05-Apr	17:08	3A183	ZUI	Departure	12.9	-	-
05-Apr	17:16	8S126	XZM	Departure	12.4	-	-
05-Apr	19:01	3A166	YFT	Departure	11	-	-
05-Apr	19:52	3A084	ZUI	Arrival	12.1	-	-
05-Apr	20:11	3A185	ZUI	Departure	12.7	-	-
05-Apr	20:49	8S2113	XZM	Arrival	11.7	-	-
05-Apr	21:04	3A169	YFT	Departure	12.4	-	-
05-Apr	21:48	8S522	XZM	Departure	0.0 **	-	-
06-Apr	08:14	3A061	YFT	Arrival	11.6	-	-
06-Apr	08:22	8S210	XZM	Arrival	11.7	-	-
06-Apr	09:58	3A062	YFT	Arrival	12.1	-	-
06-Apr	10:19	3A163	YFT	Departure	12.8	-	-
06-Apr	10:35	8S212	XZM	Arrival	12.6	<= 5	< 1min
06-Apr	10:43	3A081	ZUI	Arrival	12.7	-	-
06-Apr	11:07	8S121	XZM	Departure	11.8	-	-
06-Apr	11:18	3A063	YFT	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)
06-Apr	12:21	3A168	YFT	Departure	13.1	-	-
06-Apr	12:24	3A181	ZUI	Departure	12.3	-	-
06-Apr	12:53	3A064	YFT	Arrival	12.2	-	-
06-Apr	12:59	8S215	XZM	Arrival	10.9	-	-
06-Apr	13:31	8S123	XZM	Departure	10.8	-	-
06-Apr	13:59	3A082	ZUI	Arrival	12.8	-	-
06-Apr	14:14	3A164	YFT	Departure	12.6	-	-
06-Apr	14:31	3A182	ZUI	Departure	11.8	-	-
06-Apr	14:59	3A065	YFT	Arrival	13.1	-	-
06-Apr	16:16	3A167	YFT	Departure	13.2	-	-
06-Apr	16:39	3A083	ZUI	Arrival	12.5	-	-
06-Apr	16:40	8S218	XZM	Arrival	11.4	-	-
06-Apr	16:54	3A067	YFT	Arrival	12.6	-	-
06-Apr	17:04	3A183	ZUI	Departure	12.6	-	-
06-Apr	17:29	8S126	XZM	Departure	10.3	-	-
06-Apr	19:04	3A166	YFT	Departure	12.9	-	-
06-Apr	19:50	3A084	ZUI	Arrival	12.2	-	-
06-Apr	20:04	3A185	ZUI	Departure	12.7	-	-
06-Apr	20:55	8S2113	XZM	Arrival	12	-	-
06-Apr	20:59	3A169	YFT	Departure	13.3	-	-
06-Apr	21:58	8S522	XZM	Departure	12.8	-	-
07-Apr	08:18	3A061	YFT	Arrival	12.1	-	-
07-Apr	08:21	8S210	XZM	Arrival	12.1	-	-
07-Apr	09:57	3A062	YFT	Arrival	12.3	<= 5	< 1min
07-Apr	10:11	3A163	YFT	Departure	13.2	-	-
07-Apr	10:36	8S212	XZM	Arrival	11.6	-	-
07-Apr	10:43	3A081	ZUI	Arrival	13.1	-	-
07-Apr	11:05	8S121	XZM	Departure	11.8	-	-
07-Apr	11:14	3A063	YFT	Arrival	11.5	-	-
07-Apr	12:15	3A168	YFT	Departure	12.1	-	-
07-Apr	12:22	3A181	ZUI	Departure	13.4	-	-
07-Apr	12:56	3A064	YFT	Arrival	13.3	-	-
07-Apr	12:59	8S215	XZM	Arrival	13	-	-
07-Apr	13:39	8S123	XZM	Departure	13	-	-
07-Apr	14:00	3A082	ZUI	Arrival	12.2	-	-
07-Apr	14:12	3A164	YFT	Departure	13.1	-	-
07-Apr	14:33	3A182	ZUI	Departure	12.6	-	-
07-Apr	14:54	3A065	YFT	Arrival	12.2	-	-
07-Apr	16:15	3A167	YFT	Departure	13.2	-	-

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)
07-Apr	16:37	3A083	ZUI	Arrival	12.7	-	-
07-Apr	16:45	8S218	XZM	Arrival	12.4	-	-
07-Apr	17:08	3A067	YFT	Arrival	12.5	-	-
07-Apr	17:08	3A183	ZUI	Departure	11.9	-	-
07-Apr	17:31	8S126	XZM	Departure	12.9	-	-
07-Apr	18:58	3A166	YFT	Departure	12.3	-	-
07-Apr	19:50	3A084	ZUI	Arrival	12.4	-	-
07-Apr	20:07	3A185	ZUI	Departure	12.3	-	-
07-Apr	20:58	8S2113	XZM	Arrival	13	-	-
07-Apr	21:03	3A169	YFT	Departure	12.2	-	-
07-Apr	21:59	8S522	XZM	Departure	11.9	-	-
08-Apr	08:15	3A061	YFT	Arrival	12.7	-	-
08-Apr	08:18	8S210	XZM	Arrival	12.5	-	-
08-Apr	09:56	3A062	YFT	Arrival	11.9	-	-
08-Apr	10:13	3A163	YFT	Departure	12.4	-	-
08-Apr	10:32	8S212	XZM	Arrival	12.1	-	-
08-Apr	10:45	3A081	ZUI	Arrival	12.2	-	-
08-Apr	11:00	8S121	XZM	Departure	12.6	-	-
08-Apr	11:14	3A063	YFT	Arrival	11.9	-	-
08-Apr	12:16	3A181	ZUI	Departure	13.4	-	-
08-Apr	12:19	3A168	YFT	Departure	12.4	-	-
08-Apr	12:48	8S215	XZM	Arrival	11.1	-	-
08-Apr	12:57	3A064	YFT	Arrival	12.1	-	-
08-Apr	13:22	8S123	XZM	Departure	11.2	-	-
08-Apr	13:47	3A082	ZUI	Arrival	13.2	-	-
08-Apr	14:16	3A164	YFT	Departure	12.3	-	-
08-Apr	14:20	3A182	ZUI	Departure	12.9	-	-
08-Apr	14:56	3A065	YFT	Arrival	12.1	-	-
08-Apr	16:13	3A167	YFT	Departure	12	-	-
08-Apr	16:43	8S218	XZM	Arrival	11.3	-	-
08-Apr	16:44	3A083	ZUI	Arrival	11.4	-	-
08-Apr	16:57	3A067	YFT	Arrival	12.6	-	-
08-Apr	17:15	3A183	ZUI	Departure	11.5	-	-
08-Apr	17:18	8S126	XZM	Departure	11.4	-	-
08-Apr	19:04	3A166	YFT	Departure	11.3	-	-
08-Apr	19:52	3A084	ZUI	Arrival	12.3	-	-
08-Apr	20:09	3A185	ZUI	Departure	12.4	-	-
08-Apr	20:49	8S2113	XZM	Arrival	11.9	-	-
08-Apr	20:55	3A169	YFT	Departure	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)
08-Apr	21:58	8S522	XZM	Departure	11.2	-	-
09-Apr	08:15	3A061	YFT	Arrival	11.2	-	-
09-Apr	08:22	8S210	XZM	Arrival	11.6	-	-
09-Apr	10:04	3A062	YFT	Arrival	11.9	-	-
09-Apr	10:19	3A163	YFT	Departure	12.5	-	-
09-Apr	10:33	8S212	XZM	Arrival	12.1	-	-
09-Apr	10:49	3A081	ZUI	Arrival	12.6	-	-
09-Apr	11:02	8S121	XZM	Departure	12.5	-	-
09-Apr	11:14	3A063	YFT	Arrival	12.1	-	-
09-Apr	12:19	3A181	ZUI	Departure	13.3	-	-
09-Apr	12:21	3A168	YFT	Departure	11.8	-	-
09-Apr	12:40	8S215	XZM	Arrival	11.5	-	-
09-Apr	12:56	3A064	YFT	Arrival	12.1	-	-
09-Apr	13:26	8S123	XZM	Departure	11.8	-	-
09-Apr	13:54	3A182	ZUI	Arrival	0.0 **	-	-
09-Apr	14:18	3A164	YFT	Departure	12.4	-	-
09-Apr	14:20	3A082	ZUI	Departure	0.0 **	-	-
09-Apr	14:55	3A065	YFT	Arrival	11.6	-	-
09-Apr	16:18	3A167	YFT	Departure	13.3	-	-
09-Apr	16:49	8S218	XZM	Arrival	11.7	-	-
09-Apr	16:54	3A067	YFT	Arrival	11.5	-	-
09-Apr	16:55	3A083	ZUI	Arrival	12.5	-	-
09-Apr	17:24	3A183	ZUI	Departure	13.2	-	-
09-Apr	17:38	8S126	XZM	Departure	11.7	-	-
09-Apr	19:04	3A166	YFT	Departure	12.3	-	-
09-Apr	19:57	3A084	ZUI	Arrival	12.9	-	-
09-Apr	20:21	3A185	ZUI	Departure	13.1	-	-
09-Apr	21:10	8S2113	XZM	Arrival	10.1	-	-
09-Apr	21:15	3A169	YFT	Departure	12.5	-	-
10-Apr	08:12	3A061	YFT	Arrival	12.1	-	-
10-Apr	08:17	8S210	XZM	Arrival	12	-	-
10-Apr	10:06	3A062	YFT	Arrival	12.1	-	-
10-Apr	10:17	3A163	YFT	Departure	12.2	-	-
10-Apr	10:35	8S212	XZM	Arrival	12.2	-	-
10-Apr	10:42	3A081	ZUI	Arrival	12.4	-	-
10-Apr	11:09	8S121	XZM	Departure	12.2	-	-
10-Apr	11:16	3A063	YFT	Arrival	13.6	-	-
10-Apr	12:15	3A181	ZUI	Departure	12.5	-	-
10-Apr	12:17	3A168	YFT	Departure	13.8	-	-

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)
10-Apr	12:44	8S215	XZM	Arrival	12.1	-	-
10-Apr	13:00	3A064	YFT	Arrival	12.2	-	-
10-Apr	13:17	8S123	XZM	Departure	12.3	-	-
10-Apr	13:45	3A082	ZUI	Arrival	13.4	-	-
10-Apr	14:10	3A182	ZUI	Departure	12.8	-	-
10-Apr	14:12	3A164	YFT	Departure	12.3	-	-
10-Apr	14:53	3A065	YFT	Arrival	13.2	-	-
10-Apr	16:16	3A167	YFT	Departure	13.4	-	-
10-Apr	16:40	8S218	XZM	Arrival	10.4	-	-
10-Apr	16:52	3A083	ZUI	Arrival	12.6	-	-
10-Apr	17:05	3A183	ZUI	Departure	13	-	-
10-Apr	17:05	3A067	YFT	Arrival	12.4	-	-
10-Apr	17:21	8S126	XZM	Departure	12.6	-	-
10-Apr	19:03	3A166	YFT	Departure	10.9	-	-
10-Apr	19:46	3A084	ZUI	Arrival	12.7	-	-
10-Apr	20:10	3A185	ZUI	Departure	12.6	-	-
10-Apr	20:56	8S2113	XZM	Arrival	12.4	-	-
10-Apr	21:10	3A169	YFT	Departure	12.2	-	-
11-Apr	08:16	3A061	YFT	Arrival	12	-	-
11-Apr	08:22	8S210	XZM	Arrival	11.6	-	-
11-Apr	10:03	3A062	YFT	Arrival	12	-	-
11-Apr	10:24	3A163	YFT	Departure	11.8	-	-
11-Apr	10:33	8S212	XZM	Arrival	11.4	-	-
11-Apr	10:41	3A081	ZUI	Arrival	12.6	-	-
11-Apr	11:10	8S121	XZM	Departure	11.9	-	-
11-Apr	11:18	3A063	YFT	Arrival	12.8	-	-
11-Apr	12:23	3A168	YFT	Departure	12.7	-	-
11-Apr	12:24	3A181	ZUI	Departure	12.3	-	-
11-Apr	12:51	8S215	XZM	Arrival	11.6	-	-
11-Apr	12:59	3A064	YFT	Arrival	11.6	-	-
11-Apr	13:22	8S123	XZM	Departure	12.6	-	-
11-Apr	13:54	3A082	ZUI	Arrival	12	-	-
11-Apr	14:18	3A164	YFT	Departure	12.1	-	-
11-Apr	14:18	3A182	ZUI	Departure	12.2	-	-
11-Apr	14:53	3A065	YFT	Arrival	12.7	-	-
11-Apr	16:27	3A167	YFT	Departure	13.7	-	-
11-Apr	16:47	8S218	XZM	Arrival	11.6	-	-
11-Apr	16:54	3A083	ZUI	Arrival	11.4	-	-
11-Apr	17:02	3A067	YFT	Arrival	12.7	-	-

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)
11-Apr	17:17	3A183	ZUI	Departure	9.2	-	-
11-Apr	17:17	8S126	XZM	Departure	12.2	-	-
11-Apr	19:13	3A166	YFT	Departure	12	-	-
11-Apr	19:43	3A084	ZUI	Arrival	13	-	-
11-Apr	20:21	3A185	ZUI	Departure	12.8	-	-
11-Apr	20:54	8S2113	XZM	Arrival	12.3	-	-
11-Apr	21:02	3A169	YFT	Departure	13	-	-
12-Apr	08:21	8S210	XZM	Arrival	12	-	-
12-Apr	08:24	3A061	YFT	Arrival	11.4	-	-
12-Apr	09:56	3A062	YFT	Arrival	11.1	-	-
12-Apr	10:28	3A081	ZUI	Arrival	13.1	-	-
12-Apr	10:30	3A163	YFT	Departure	11.6	-	-
12-Apr	10:47	8S212	XZM	Arrival	11.9	-	-
12-Apr	11:23	8S121	XZM	Departure	12.1	-	-
12-Apr	11:31	3A063	YFT	Arrival	12.3	-	-
12-Apr	12:23	3A181	ZUI	Departure	13.4	-	-
12-Apr	12:23	3A168	YFT	Departure	13	-	-
12-Apr	12:44	8S215	XZM	Arrival	11.4	-	-
12-Apr	12:57	3A064	YFT	Arrival	11.5	-	-
12-Apr	13:18	8S123	XZM	Departure	11.4	-	-
12-Apr	13:46	3A082	ZUI	Arrival	12.3	-	-
12-Apr	14:17	3A164	YFT	Departure	11.1	-	-
12-Apr	14:19	3A182	ZUI	Departure	13.6	-	-
12-Apr	14:54	3A065	YFT	Arrival	12.8	-	-
12-Apr	16:17	3A167	YFT	Departure	13.6	-	-
12-Apr	16:33	3A083	ZUI	Arrival	13.6	-	-
12-Apr	16:42	8S218	XZM	Arrival	10.8	-	-
12-Apr	16:58	3A067	YFT	Arrival	11.5	-	-
12-Apr	16:58	3A183	ZUI	Departure	13.8	-	-
12-Apr	17:08	8S126	XZM	Departure	11.4	-	-
12-Apr	19:05	3A166	YFT	Departure	12.3	-	-
12-Apr	19:59	3A084	ZUI	Arrival	11.7	-	-
12-Apr	20:12	3A185	ZUI	Departure	12	-	-
12-Apr	20:53	8S2113	XZM	Arrival	10.9	-	-
12-Apr	21:09	3A169	YFT	Departure	12.2	-	-
13-Apr	08:19	3A061	YFT	Arrival	13.1	-	-
13-Apr	08:21	8S210	XZM	Arrival	12.4	-	-
13-Apr	10:02	3A062	YFT	Arrival	12.2	-	-
13-Apr	10:20	3A163	YFT	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)
13-Apr	10:36	8S212	XZM	Arrival	11.5	-	-
13-Apr	10:38	3A081	ZUI	Arrival	13.6	-	-
13-Apr	11:06	8S121	XZM	Departure	11.5	-	-
13-Apr	11:13	3A063	YFT	Arrival	12.7	-	-
13-Apr	12:20	3A168	YFT	Departure	13	-	-
13-Apr	12:25	3A181	ZUI	Departure	13.3	-	-
13-Apr	12:44	8S215	XZM	Arrival	11.1	-	-
13-Apr	12:58	3A064	YFT	Arrival	12.7	-	-
13-Apr	13:17	8S123	XZM	Departure	11.6	-	-
13-Apr	13:45	3A082	ZUI	Arrival	12.3	-	-
13-Apr	14:15	3A164	YFT	Departure	13.1	-	-
13-Apr	14:18	3A182	ZUI	Departure	12.6	-	-
13-Apr	14:50	3A065	YFT	Arrival	12.6	-	-
13-Apr	16:17	3A167	YFT	Departure	13.1	-	-
13-Apr	16:47	3A083	ZUI	Arrival	11	-	-
13-Apr	16:52	8S218	XZM	Arrival	12.4	-	-
13-Apr	16:56	3A067	YFT	Arrival	12.3	-	-
13-Apr	17:09	3A183	ZUI	Departure	12.9	-	-
13-Apr	17:31	8S126	XZM	Departure	11.9	-	-
13-Apr	18:56	3A166	YFT	Departure	11	-	-
13-Apr	19:48	3A084	ZUI	Arrival	12.4	-	-
13-Apr	20:10	3A185	ZUI	Departure	13.4	-	-
13-Apr	21:07	3A169	YFT	Departure	11.6	-	-
13-Apr	21:07	8S2113	XZM	Arrival	11.3	-	-
14-Apr	08:14	3A061	YFT	Arrival	12.5	-	-
14-Apr	08:18	8S210	XZM	Arrival	12.4	-	-
14-Apr	10:09	3A062	YFT	Arrival	10.7	-	-
14-Apr	10:20	3A163	YFT	Departure	10.5	-	-
14-Apr	10:33	8S212	XZM	Arrival	12.3	-	-
14-Apr	11:05	3A081	ZUI	Arrival	12.9	-	-
14-Apr	11:13	8S121	XZM	Departure	12.1	-	-
14-Apr	11:19	3A063	YFT	Arrival	12.2	-	-
14-Apr	12:24	3A168	YFT	Departure	12.6	-	-
14-Apr	12:30	3A181	ZUI	Departure	13.1	-	-
14-Apr	12:59	3A064	YFT	Arrival	11.6	-	-
14-Apr	13:02	8S215	XZM	Arrival	12	-	-
14-Apr	13:37	8S123	XZM	Departure	12.3	-	-
14-Apr	13:41	3A082	ZUI	Arrival	12.8	-	-
14-Apr	14:17	3A182	ZUI	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)
14-Apr	14:18	3A164	YFT	Departure	10.9	-	-
14-Apr	14:53	3A065	YFT	Arrival	11.9	-	-
14-Apr	16:23	3A167	YFT	Departure	12.9	-	-
14-Apr	16:39	8S218	XZM	Arrival	11.3	-	-
14-Apr	16:43	3A083	ZUI	Arrival	12.4	-	-
14-Apr	17:00	3A067	YFT	Arrival	11	-	-
14-Apr	17:11	3A183	ZUI	Departure	12.9	-	-
14-Apr	17:21	8S126	XZM	Departure	12	-	-
14-Apr	19:10	3A166	YFT	Departure	11.8	-	-
14-Apr	19:50	3A084	ZUI	Arrival	12.3	-	-
14-Apr	20:06	3A185	ZUI	Departure	13.1	-	-
14-Apr	20:57	3A169	YFT	Departure	12.2	-	-
14-Apr	20:59	8S2113	XZM	Arrival	12.5	-	-
14-Apr	21:51	8S522	XZM	Departure	12.9	-	-
15-Apr	08:17	3A061	YFT	Arrival	11.8	-	-
15-Apr	08:21	8S210	XZM	Arrival	12.5	-	-
15-Apr	10:03	3A062	YFT	Arrival	11.2	-	-
15-Apr	10:24	3A163	YFT	Departure	11	-	-
15-Apr	10:41	8S212	XZM	Arrival	12.2	-	-
15-Apr	10:44	3A081	ZUI	Arrival	12.8	-	-
15-Apr	11:13	8S121	XZM	Departure	12.1	-	-
15-Apr	11:20	3A063	YFT	Arrival	12.1	-	-
15-Apr	12:22	3A168	YFT	Departure	12.2	-	-
15-Apr	12:23	3A181	ZUI	Departure	12.2	-	-
15-Apr	12:48	8S215	XZM	Arrival	11.8	-	-
15-Apr	13:21	3A064	YFT	Arrival	11.8	-	-
15-Apr	13:28	8S123	XZM	Departure	10.5	-	-
15-Apr	13:47	3A082	ZUI	Arrival	12.2	<= 5	< 1min
15-Apr	14:23	3A164	YFT	Departure	11.4	-	-
15-Apr	14:30	3A182	ZUI	Departure	12.4	-	-
15-Apr	15:00	3A065	YFT	Arrival	11.5	-	-
15-Apr	16:40	3A167	YFT	Departure	12.3	-	-
15-Apr	17:00	8S218	XZM	Arrival	11.1	-	-
15-Apr	17:02	3A083	ZUI	Arrival	11.6	-	-
15-Apr	17:15	3A067	YFT	Arrival	11.1	-	-
15-Apr	17:23	3A183	ZUI	Departure	13.6	-	-
15-Apr	17:37	8S126	XZM	Departure	11.3	-	-
15-Apr	19:13	3A166	YFT	Departure	11.9	-	-
15-Apr	20:02	3A084	ZUI	Arrival	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)
15-Apr	20:22	3A185	ZUI	Departure	13.1	-	-
15-Apr	20:54	8S2113	XZM	Arrival	11.9	-	-
15-Apr	21:08	3A169	YFT	Departure	12.6	-	-
15-Apr	21:58	8S522	XZM	Departure	13.4	-	-
16-Apr	08:17	3A061	YFT	Arrival	11.8	-	-
16-Apr	08:35	8S210	XZM	Arrival	11.6	-	-
16-Apr	10:02	3A062	YFT	Arrival	12.9	-	-
16-Apr	10:10	3A163	YFT	Departure	13.5	-	-
16-Apr	10:38	8S212	XZM	Arrival	11.5	-	-
16-Apr	10:55	3A081	ZUI	Arrival	12.5	-	-
16-Apr	11:03	8S121	XZM	Departure	11.6	-	-
16-Apr	11:18	3A063	YFT	Arrival	12.6	-	-
16-Apr	12:13	3A181	ZUI	Departure	12.9	-	-
16-Apr	12:20	3A168	YFT	Departure	12.1	-	-
16-Apr	12:48	8S215	XZM	Arrival	13.1	-	-
16-Apr	13:00	3A064	YFT	Arrival	13.3	-	-
16-Apr	13:19	8S123	XZM	Departure	12.6	-	-
16-Apr	13:57	3A082	ZUI	Arrival	12.6	-	-
16-Apr	14:16	3A182	ZUI	Departure	12	-	-
16-Apr	14:20	3A164	YFT	Departure	13.3	-	-
16-Apr	14:58	3A065	YFT	Arrival	12.2	-	-
16-Apr	16:21	3A167	YFT	Departure	12.6	-	-
16-Apr	16:51	8S218	XZM	Arrival	12.5	-	-
16-Apr	16:52	3A083	ZUI	Arrival	12.5	-	-
16-Apr	17:01	3A067	YFT	Arrival	12.5	-	-
16-Apr	17:10	3A183	ZUI	Departure	12	-	-
16-Apr	17:26	8S126	XZM	Departure	12.9	-	-
16-Apr	19:07	3A166	YFT	Departure	12.4	-	-
16-Apr	19:52	3A084	ZUI	Arrival	12.4	-	-
16-Apr	20:14	3A185	ZUI	Departure	12.7	-	-
16-Apr	20:59	3A169	YFT	Departure	12.3	-	-
16-Apr	20:59	8S2113	XZM	Arrival	11.7	-	-
17-Apr	08:15	3A061	YFT	Arrival	13.4	-	-
17-Apr	08:19	8S210	XZM	Arrival	12.4	-	-
17-Apr	09:53	3A062	YFT	Arrival	11.8	-	-
17-Apr	10:16	3A163	YFT	Departure	12.9	-	-
17-Apr	10:35	8S212	XZM	Arrival	12	-	-
17-Apr	10:48	3A081	ZUI	Arrival	12.3	-	-
17-Apr	11:09	8S121	XZM	Departure	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)
17-Apr	11:15	3A063	YFT	Arrival	11.2	-	-
17-Apr	12:17	3A168	YFT	Departure	11.1	-	-
17-Apr	12:19	3A181	ZUI	Departure	13.2	-	-
17-Apr	12:51	8S215	XZM	Arrival	12.3	-	-
17-Apr	12:55	3A064	YFT	Arrival	12.1	-	-
17-Apr	13:28	8S123	XZM	Departure	12.4	-	-
17-Apr	13:49	3A082	ZUI	Arrival	12.3	-	-
17-Apr	14:16	3A164	YFT	Departure	12.4	-	-
17-Apr	14:17	3A182	ZUI	Departure	12.7	-	-
17-Apr	14:59	3A065	YFT	Arrival	11.7	-	-
17-Apr	16:20	3A167	YFT	Departure	10.9	-	-
17-Apr	16:43	8S218	XZM	Arrival	11.7	-	-
17-Apr	16:44	3A083	ZUI	Arrival	12.7	-	-
17-Apr	16:59	3A067	YFT	Arrival	11.6	-	-
17-Apr	17:10	3A183	ZUI	Departure	12.4	-	-
17-Apr	17:14	8S126	XZM	Departure	12.4	-	-
17-Apr	19:11	3A166	YFT	Departure	13.2	-	-
17-Apr	19:49	3A084	ZUI	Arrival	11.8	-	-
17-Apr	20:11	3A185	ZUI	Departure	12.3	-	-
17-Apr	20:49	8S2113	XZM	Arrival	12.3	-	-
17-Apr	21:07	3A169	YFT	Departure	12.6	-	-
18-Apr	08:13	3A061	YFT	Arrival	11.7	-	-
18-Apr	08:20	8S210	XZM	Arrival	12	-	-
18-Apr	10:01	3A062	YFT	Arrival	12.2	-	-
18-Apr	10:14	3A163	YFT	Departure	12.5	-	-
18-Apr	10:38	8S212	XZM	Arrival	12	-	-
18-Apr	10:47	3A081	ZUI	Arrival	12.1	-	-
18-Apr	11:06	8S121	XZM	Departure	12	-	-
18-Apr	11:16	3A063	YFT	Arrival	12.9	-	-
18-Apr	12:24	3A168	YFT	Departure	13.3	-	-
18-Apr	12:25	3A181	ZUI	Departure	12.9	-	-
18-Apr	12:44	8S215	XZM	Arrival	11.5	-	-
18-Apr	12:55	3A064	YFT	Arrival	12.2	-	-
18-Apr	13:20	8S123	XZM	Departure	11.2	-	-
18-Apr	13:59	3A082	ZUI	Arrival	12	-	-
18-Apr	14:14	3A164	YFT	Departure	12.4	-	-
18-Apr	14:19	3A182	ZUI	Departure	11.5	-	-
18-Apr	14:54	3A065	YFT	Arrival	13.1	-	-
18-Apr	16:16	3A167	YFT	Departure	13.3	-	-

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)
18-Apr	16:37	8S218	XZM	Arrival	11.4	-	-
18-Apr	16:44	3A083	ZUI	Arrival	12.5	-	-
18-Apr	17:05	3A183	ZUI	Departure	12.2	-	-
18-Apr	17:06	8S126	XZM	Departure	12.3	-	-
18-Apr	17:12	3A067	YFT	Arrival	12	-	-
18-Apr	19:03	3A166	YFT	Departure	11	-	-
18-Apr	19:55	3A084	ZUI	Arrival	11.1	-	-
18-Apr	20:12	3A185	ZUI	Departure	12.6	-	-
18-Apr	20:54	8S2113	XZM	Arrival	12.8	-	-
18-Apr	21:00	3A169	YFT	Departure	12.1	-	-
19-Apr	08:17	3A061	YFT	Arrival	12.4	-	-
19-Apr	08:24	8S210	XZM	Arrival	11.3	-	-
19-Apr	10:01	3A062	YFT	Arrival	11.2	-	-
19-Apr	10:21	3A163	YFT	Departure	11.4	-	-
19-Apr	10:35	8S212	XZM	Arrival	11.6	-	-
19-Apr	10:45	3A081	ZUI	Arrival	12.1	-	-
19-Apr	11:01	8S121	XZM	Departure	11.6	-	-
19-Apr	11:19	3A063	YFT	Arrival	12.6	-	-
19-Apr	12:18	3A168	YFT	Departure	13.5	-	-
19-Apr	12:18	3A181	ZUI	Departure	12.5	-	-
19-Apr	12:49	8S215	XZM	Arrival	13.3	-	-
19-Apr	13:00	3A064	YFT	Arrival	12.2	-	-
19-Apr	13:17	8S123	XZM	Departure	13	-	-
19-Apr	13:53	3A082	ZUI	Arrival	13.3	-	-
19-Apr	14:11	3A182	ZUI	Departure	12.8	-	-
19-Apr	14:20	3A164	YFT	Departure	12.1	-	-
19-Apr	14:57	3A065	YFT	Arrival	12.7	-	-
19-Apr	16:26	3A167	YFT	Departure	12.9	-	-
19-Apr	16:50	3A083	ZUI	Arrival	12.4	-	-
19-Apr	16:51	8S218	XZM	Arrival	13.4	-	-
19-Apr	17:04	3A067	YFT	Arrival	11.6	-	-
19-Apr	17:10	3A183	ZUI	Departure	12	-	-
19-Apr	17:14	8S126	XZM	Departure	12.6	-	-
19-Apr	18:59	3A166	YFT	Departure	12.5	-	-
19-Apr	19:51	3A084	ZUI	Arrival	12.5	-	-
19-Apr	20:08	3A185	ZUI	Departure	13	-	-
19-Apr	21:14	8S2113	XZM	Arrival	10.9	-	-
19-Apr	21:15	3A169	YFT	Departure	12	-	-
20-Apr	08:12	3A061	YFT	Arrival	12.1	-	-

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)
20-Apr	08:19	8S210	XZM	Arrival	12.5	-	-
20-Apr	09:57	3A062	YFT	Arrival	13.4	-	-
20-Apr	10:14	3A163	YFT	Departure	13.7	-	-
20-Apr	10:39	8S212	XZM	Arrival	12.1	-	-
20-Apr	10:46	3A081	ZUI	Arrival	12.2	-	-
20-Apr	10:58	8S121	XZM	Departure	12.1	-	-
20-Apr	11:16	3A063	YFT	Arrival	11.8	-	-
20-Apr	12:19	3A181	ZUI	Departure	12.4	-	-
20-Apr	12:20	3A168	YFT	Departure	12.3	-	-
20-Apr	12:52	3A064	YFT	Arrival	13.3	-	-
20-Apr	13:00	8S215	XZM	Arrival	12	-	-
20-Apr	13:23	8S123	XZM	Departure	12	-	-
20-Apr	14:01	3A082	ZUI	Arrival	13	-	-
20-Apr	14:28	3A164	YFT	Departure	13.7	-	-
20-Apr	14:29	3A182	ZUI	Departure	12.3	-	-
20-Apr	15:01	3A065	YFT	Arrival	12	-	-
20-Apr	16:17	3A167	YFT	Departure	11.7	-	-
20-Apr	16:42	3A083	ZUI	Arrival	12.2	-	-
20-Apr	16:45	8S218	XZM	Arrival	11.1	-	-
20-Apr	16:55	3A067	YFT	Arrival	12.8	-	-
20-Apr	17:04	8S126	XZM	Departure	12.4	-	-
20-Apr	17:16	3A183	ZUI	Departure	12.3	-	-
20-Apr	19:06	3A166	YFT	Departure	13	-	-
20-Apr	20:00	3A084	ZUI	Arrival	12.1	-	-
20-Apr	20:14	3A185	ZUI	Departure	12.5	-	-
20-Apr	21:00	8S2113	XZM	Arrival	11.7	-	-
20-Apr	21:11	3A169	YFT	Departure	12.7	-	-
21-Apr	08:14	3A061	YFT	Arrival	11.4	-	-
21-Apr	08:20	8S210	XZM	Arrival	11.6	-	-
21-Apr	09:53	3A062	YFT	Arrival	11.8	-	-
21-Apr	10:09	3A163	YFT	Departure	13.1	-	-
21-Apr	10:35	8S212	XZM	Arrival	12.2	-	-
21-Apr	10:49	3A081	ZUI	Arrival	10.6	-	-
21-Apr	11:08	8S121	XZM	Departure	12.2	-	-
21-Apr	11:21	3A063	YFT	Arrival	12.8	-	-
21-Apr	12:19	3A168	YFT	Departure	12.4	-	-
21-Apr	12:20	3A181	ZUI	Departure	12.7	-	-
21-Apr	12:51	3A064	YFT	Arrival	12.5	-	-
21-Apr	12:56	8S215	XZM	Arrival	10.6	-	-

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)
21-Apr	13:22	8S123	XZM	Departure	13.3	-	-
21-Apr	13:46	3A082	ZUI	Arrival	12.4	-	-
21-Apr	14:13	3A164	YFT	Departure	12.2	-	-
21-Apr	14:15	3A182	ZUI	Departure	12	-	-
21-Apr	14:59	3A065	YFT	Arrival	13.2	-	-
21-Apr	16:13	3A167	YFT	Departure	13.5	-	-
21-Apr	16:43	8S218	XZM	Arrival	10.9	-	-
21-Apr	16:53	3A083	ZUI	Arrival	12.1	-	-
21-Apr	16:55	3A067	YFT	Arrival	12.7	-	-
21-Apr	17:08	8S126	XZM	Departure	12.4	-	-
21-Apr	17:10	3A183	ZUI	Departure	13.1	-	-
21-Apr	18:56	3A166	YFT	Departure	12.4	-	-
21-Apr	19:49	3A084	ZUI	Arrival	13.3	-	-
21-Apr	20:07	3A185	ZUI	Departure	12.7	-	-
21-Apr	20:55	8S2113	XZM	Arrival	12.3	-	-
21-Apr	20:58	3A169	YFT	Departure	11.5	-	-
21-Apr	22:07	8S522	XZM	Departure	13.2	-	-
22-Apr	08:18	3A061	YFT	Arrival	12	-	-
22-Apr	08:22	8S210	XZM	Arrival	12.1	-	-
22-Apr	10:00	3A062	YFT	Arrival	12.9	-	-
22-Apr	10:14	3A163	YFT	Departure	13.3	-	-
22-Apr	10:34	8S212	XZM	Arrival	12.9	-	-
22-Apr	10:53	3A081	ZUI	Arrival	12.1	-	-
22-Apr	11:03	8S121	XZM	Departure	11.8	-	-
22-Apr	11:16	3A063	YFT	Arrival	11.1	-	-
22-Apr	12:21	3A168	YFT	Departure	11.3	-	-
22-Apr	12:22	3A181	ZUI	Departure	12.6	-	-
22-Apr	12:43	8S215	XZM	Arrival	13	-	-
22-Apr	12:58	3A064	YFT	Arrival	12.6	-	-
22-Apr	13:12	8S123	XZM	Departure	12.8	-	-
22-Apr	13:51	3A082	ZUI	Arrival	12.4	-	-
22-Apr	14:15	3A164	YFT	Departure	13.4	-	-
22-Apr	14:18	3A182	ZUI	Departure	12.3	-	-
22-Apr	14:57	3A065	YFT	Arrival	11.4	-	-
22-Apr	16:21	3A167	YFT	Departure	13.1	-	-
22-Apr	16:56	8S218	XZM	Arrival	13.2	-	-
22-Apr	16:58	3A083	ZUI	Arrival	11.4	-	-
22-Apr	17:00	3A067	YFT	Arrival	13	-	-
22-Apr	17:12	8S126	XZM	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)
22-Apr	17:18	3A183	ZUI	Departure	11.3	-	-
22-Apr	18:59	3A166	YFT	Departure	12.5	-	-
22-Apr	19:58	3A084	ZUI	Arrival	12.5	-	-
22-Apr	20:15	3A185	ZUI	Departure	12.8	-	-
22-Apr	20:59	8S2113	XZM	Arrival	11.2	-	-
22-Apr	21:09	3A169	YFT	Departure	12.2	-	-
23-Apr	08:17	3A061	YFT	Arrival	12.3	-	-
23-Apr	08:22	8S210	XZM	Arrival	13	-	-
23-Apr	10:06	3A062	YFT	Arrival	13.2	-	-
23-Apr	10:21	3A163	YFT	Departure	13.2	-	-
23-Apr	10:38	8S212	XZM	Arrival	11.4	-	-
23-Apr	10:50	3A081	ZUI	Arrival	13.1	-	-
23-Apr	11:03	8S121	XZM	Departure	11.3	-	-
23-Apr	11:13	3A063	YFT	Arrival	11.8	-	-
23-Apr	12:20	3A168	YFT	Departure	11.9	-	-
23-Apr	12:22	3A181	ZUI	Departure	13	-	-
23-Apr	12:44	8S215	XZM	Arrival	12.3	-	-
23-Apr	12:56	3A064	YFT	Arrival	12.9	-	-
23-Apr	13:20	8S123	XZM	Departure	11.7	-	-
23-Apr	13:40	3A082	ZUI	Arrival	12.7	-	-
23-Apr	14:14	3A164	YFT	Departure	12.7	-	-
23-Apr	14:16	3A182	ZUI	Departure	12	-	-
23-Apr	14:54	3A065	YFT	Arrival	12.2	-	-
23-Apr	16:15	3A167	YFT	Departure	12.4	-	-
23-Apr	16:44	3A083	ZUI	Arrival	12.3	-	-
23-Apr	16:48	8S218	XZM	Arrival	11.6	-	-
23-Apr	16:58	3A067	YFT	Arrival	13	-	-
23-Apr	17:02	3A183	ZUI	Departure	12.6	-	-
23-Apr	17:11	8S126	XZM	Departure	11.8	-	-
23-Apr	19:13	3A166	YFT	Departure	13.2	-	-
23-Apr	19:46	3A084	ZUI	Arrival	12.3	-	-
23-Apr	20:11	3A185	ZUI	Departure	12.6	-	-
23-Apr	20:55	8S2113	XZM	Arrival	12.3	<= 5	< 1min
23-Apr	20:58	3A169	YFT	Departure	12.3	-	-
24-Apr	08:13	3A061	YFT	Arrival	10.9	-	-
24-Apr	08:18	8S210	XZM	Arrival	13.2	-	-
24-Apr	09:50	3A062	YFT	Arrival	11.7	-	-
24-Apr	10:20	3A163	YFT	Departure	11.6	-	-
24-Apr	10:45	3A081	ZUI	Arrival	13.2	-	-

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)
24-Apr	10:48	8S212	XZM	Arrival	12.5	-	-
24-Apr	11:17	8S121	XZM	Departure	11.7	-	-
24-Apr	11:22	3A063	YFT	Arrival	12.1	<= 5	< 1min
24-Apr	12:18	3A168	YFT	Departure	12.4	-	-
24-Apr	12:22	3A181	ZUI	Departure	13.1	-	-
24-Apr	12:44	8S215	XZM	Arrival	12.9	-	-
24-Apr	12:57	3A064	YFT	Arrival	11.9	-	-
24-Apr	13:16	8S123	XZM	Departure	13	-	-
24-Apr	13:52	3A082	ZUI	Arrival	13.9	-	-
24-Apr	14:11	3A182	ZUI	Departure	12.5	-	-
24-Apr	14:13	3A164	YFT	Departure	12.3	-	-
24-Apr	14:55	3A065	YFT	Arrival	11.8	-	-
24-Apr	16:16	3A167	YFT	Departure	12	-	-
24-Apr	16:49	8S218	XZM	Arrival	13.2	-	-
24-Apr	16:49	3A083	ZUI	Arrival	13.1	-	-
24-Apr	16:54	3A067	YFT	Arrival	12	-	-
24-Apr	17:06	3A183	ZUI	Departure	12.5	-	-
24-Apr	17:08	8S126	XZM	Departure	13.2	-	-
24-Apr	19:00	3A166	YFT	Departure	11.9	-	-
24-Apr	19:56	3A084	ZUI	Arrival	12.9	-	-
24-Apr	20:22	3A185	ZUI	Departure	13	-	-
24-Apr	20:57	8S2113	XZM	Arrival	12.7	-	-
24-Apr	21:04	3A169	YFT	Departure	13.2	-	-
25-Apr	08:15	3A061	YFT	Arrival	12.6	-	-
25-Apr	08:20	8S210	XZM	Arrival	11.8	-	-
25-Apr	09:57	3A062	YFT	Arrival	13	-	-
25-Apr	10:25	3A163	YFT	Departure	13.2	-	-
25-Apr	10:32	8S212	XZM	Arrival	11.5	-	-
25-Apr	10:47	3A081	ZUI	Arrival	12.6	-	-
25-Apr	11:07	8S121	XZM	Departure	12.3	-	-
25-Apr	11:17	3A063	YFT	Arrival	13.4	-	-
25-Apr	12:23	3A168	YFT	Departure	13.1	-	-
25-Apr	12:27	3A181	ZUI	Departure	13.2	-	-
25-Apr	12:48	8S215	XZM	Arrival	11.8	<= 5	< 1min
25-Apr	12:59	3A064	YFT	Arrival	12.7	-	-
25-Apr	13:21	8S123	XZM	Departure	12.1	-	-
25-Apr	13:49	3A082	ZUI	Arrival	12.2	-	-
25-Apr	14:18	3A164	YFT	Departure	13.1	-	-
25-Apr	14:21	3A182	ZUI	Departure	12	<= 5	< 1min

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)
25-Apr	14:55	3A065	YFT	Arrival	12.4	-	-
25-Apr	16:25	3A167	YFT	Departure	13.5	<= 5	< 2min
25-Apr	16:43	3A083	ZUI	Arrival	12.5	-	-
25-Apr	16:47	8S218	XZM	Arrival	10.7	-	-
25-Apr	16:56	3A067	YFT	Arrival	13.1	-	-
25-Apr	17:03	3A183	ZUI	Departure	12.8	-	-
25-Apr	17:05	8S126	XZM	Departure	11.7	-	-
25-Apr	19:00	3A166	YFT	Departure	13.1	-	-
25-Apr	19:49	3A084	ZUI	Arrival	13.2	-	-
25-Apr	20:07	3A185	ZUI	Departure	13.2	-	-
25-Apr	20:57	8S2113	XZM	Arrival	11.1	-	-
25-Apr	21:08	3A169	YFT	Departure	13.7	-	-
26-Apr	08:16	8S210	XZM	Arrival	13.3	-	-
26-Apr	08:26	3A061	YFT	Arrival	11.4	-	-
26-Apr	09:55	3A062	YFT	Arrival	12.2	-	-
26-Apr	10:16	3A163	YFT	Departure	11.8	-	-
26-Apr	10:32	8S212	XZM	Arrival	12.5	-	-
26-Apr	10:47	3A081	ZUI	Arrival	12.4	-	-
26-Apr	11:07	8S121	XZM	Departure	12.5	-	-
26-Apr	11:12	3A063	YFT	Arrival	12.1	-	-
26-Apr	12:20	3A168	YFT	Departure	13.1	-	-
26-Apr	12:24	3A181	ZUI	Departure	12.7	-	-
26-Apr	12:46	8S215	XZM	Arrival	11.1	-	-
26-Apr	12:56	3A064	YFT	Arrival	12.5	-	-
26-Apr	13:15	8S123	XZM	Departure	11.9	-	-
26-Apr	14:04	3A082	ZUI	Arrival	11.8	-	-
26-Apr	14:12	3A164	YFT	Departure	13.1	-	-
26-Apr	14:39	3A182	ZUI	Departure	13.2	-	-
26-Apr	14:51	3A065	YFT	Arrival	12.2	-	-
26-Apr	16:22	3A167	YFT	Departure	13	-	-
26-Apr	16:43	8S218	XZM	Arrival	11.3	-	-
26-Apr	16:47	3A083	ZUI	Arrival	11.9	-	-
26-Apr	16:57	3A067	YFT	Arrival	11.8	-	-
26-Apr	17:07	8S126	XZM	Departure	12	-	-
26-Apr	17:09	3A183	ZUI	Departure	12.6	-	-
26-Apr	19:10	3A166	YFT	Departure	12.9	-	-
26-Apr	19:48	3A084	ZUI	Arrival	11.7	-	-
26-Apr	20:13	3A185	ZUI	Departure	12.6	-	-
26-Apr	20:55	8S2113	XZM	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)
26-Apr	21:10	3A169	YFT	Departure	12.6	-	-
27-Apr	08:15	3A061	YFT	Arrival	12	-	-
27-Apr	08:20	8S210	XZM	Arrival	12.1	-	-
27-Apr	09:58	3A062	YFT	Arrival	11.6	-	-
27-Apr	10:20	3A163	YFT	Departure	11.1	-	-
27-Apr	10:44	8S212	XZM	Arrival	12	-	-
27-Apr	10:53	3A081	ZUI	Arrival	12.2	-	-
27-Apr	11:03	8S121	XZM	Departure	11.8	-	-
27-Apr	11:14	3A063	YFT	Arrival	11.9	-	-
27-Apr	12:18	3A168	YFT	Departure	11.7	-	-
27-Apr	12:23	3A181	ZUI	Departure	12	-	-
27-Apr	12:44	8S215	XZM	Arrival	12.9	-	-
27-Apr	12:52	3A064	YFT	Arrival	11.9	-	-
27-Apr	13:15	8S123	XZM	Departure	12.9	-	-
27-Apr	13:52	3A082	ZUI	Arrival	13.3	-	-
27-Apr	14:09	3A182	ZUI	Departure	13	-	-
27-Apr	14:20	3A164	YFT	Departure	10.8	-	-
27-Apr	15:00	3A065	YFT	Arrival	11.7	-	-
27-Apr	16:14	3A167	YFT	Departure	12.2	-	-
27-Apr	16:42	8S218	XZM	Arrival	12.6	-	-
27-Apr	16:44	3A083	ZUI	Arrival	12.4	-	-
27-Apr	16:55	3A067	YFT	Arrival	11.1	-	-
27-Apr	17:10	8S126	XZM	Departure	12.4	-	-
27-Apr	17:19	3A183	ZUI	Departure	13.4	-	-
27-Apr	18:59	3A166	YFT	Departure	12.3	-	-
27-Apr	19:51	3A084	ZUI	Arrival	12.2	-	-
27-Apr	20:12	3A185	ZUI	Departure	13.1	-	-
27-Apr	20:46	8S2113	XZM	Arrival	12.4	-	-
27-Apr	20:58	3A169	YFT	Departure	11.7	-	-
28-Apr	08:13	8S210	XZM	Arrival	13	-	-
28-Apr	08:23	3A061	YFT	Arrival	12.2	-	-
28-Apr	10:03	3A062	YFT	Arrival	12.9	-	-
28-Apr	10:17	3A163	YFT	Departure	12.8	-	-
28-Apr	10:42	8S212	XZM	Arrival	12.3	-	-
28-Apr	10:49	3A081	ZUI	Arrival	12.4	-	-
28-Apr	11:15	8S121	XZM	Departure	12.7	-	-
28-Apr	11:19	3A063	YFT	Arrival	13	-	-
28-Apr	12:13	3A168	YFT	Departure	13.3	-	-
28-Apr	12:16	3A181	ZUI	Departure	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)
28-Apr	12:39	8S215	XZM	Arrival	11.1	-	-
28-Apr	12:53	3A064	YFT	Arrival	13	-	-
28-Apr	13:18	8S123	XZM	Departure	12.1	-	-
28-Apr	13:48	3A082	ZUI	Arrival	11.7	-	-
28-Apr	14:21	3A182	ZUI	Departure	12.7	-	-
28-Apr	14:23	3A164	YFT	Departure	12.9	-	-
28-Apr	14:53	3A065	YFT	Arrival	12.8	-	-
28-Apr	16:18	3A167	YFT	Departure	13.3	-	-
28-Apr	16:49	8S218	XZM	Arrival	11.3	-	-
28-Apr	16:56	3A067	YFT	Arrival	12	-	-
28-Apr	16:59	3A083	ZUI	Arrival	11.9	-	-
28-Apr	17:12	8S126	XZM	Departure	12.4	-	-
28-Apr	17:14	3A183	ZUI	Departure	12.7	-	-
28-Apr	19:03	3A166	YFT	Departure	12.2	-	-
28-Apr	19:49	3A084	ZUI	Arrival	12.1	-	-
28-Apr	20:06	3A185	ZUI	Departure	13	-	-
28-Apr	20:53	8S2113	XZM	Arrival	12.5	-	-
28-Apr	21:08	3A169	YFT	Departure	12.3	-	-
29-Apr	08:11	3A061	YFT	Arrival	11.4	-	-
29-Apr	08:21	8S210	XZM	Arrival	11.8	-	-
29-Apr	09:59	3A062	YFT	Arrival	12.9	-	-
29-Apr	10:20	3A163	YFT	Departure	13.4	-	-
29-Apr	10:38	8S212	XZM	Arrival	12.8	-	-
29-Apr	10:45	3A081	ZUI	Arrival	12.7	-	-
29-Apr	11:01	8S121	XZM	Departure	12.6	-	-
29-Apr	11:14	3A063	YFT	Arrival	11.6	-	-
29-Apr	12:10	3A168	YFT	Departure	11.7	-	-
29-Apr	12:21	3A181	ZUI	Departure	13	-	-
29-Apr	12:49	8S215	XZM	Arrival	11.7	-	-
29-Apr	12:56	3A064	YFT	Arrival	13.1	-	-
29-Apr	13:13	8S123	XZM	Departure	11.5	-	-
29-Apr	13:50	3A082	ZUI	Arrival	12.3	-	-
29-Apr	14:15	3A164	YFT	Departure	13.4	-	-
29-Apr	14:20	3A182	ZUI	Departure	12.5	-	-
29-Apr	14:57	3A065	YFT	Arrival	12.1	-	-
29-Apr	16:17	3A167	YFT	Departure	12	-	-
29-Apr	16:51	3A083	ZUI	Arrival	12.5	-	-
29-Apr	16:55	8S218	XZM	Arrival	10.3	-	-
29-Apr	17:03	3A067	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)
29-Apr	17:04	3A183	ZUI	Departure	12.7	-	-
29-Apr	17:12	8S126	XZM	Departure	11.8	-	-
29-Apr	19:06	3A166	YFT	Departure	11.9	-	-
29-Apr	19:48	3A084	ZUI	Arrival	12.4	-	-
29-Apr	20:06	3A185	ZUI	Departure	12.7	-	-
29-Apr	20:56	8S2113	XZM	Arrival	11.9	-	-
29-Apr	20:59	3A169	YFT	Departure	12	-	-
29-Apr	22:01	8S522	XZM	Departure	12	-	-
30-Apr	08:15	3A061	YFT	Arrival	12.2	-	-
30-Apr	08:21	8S210	XZM	Arrival	10.7	-	-
30-Apr	09:44	3A062	YFT	Arrival	12	-	-
30-Apr	10:16	3A163	YFT	Departure	12.1	-	-
30-Apr	10:33	8S212	XZM	Arrival	11.8	-	-
30-Apr	10:50	3A081	ZUI	Arrival	11.7	-	-
30-Apr	11:00	8S121	XZM	Departure	12.9	-	-
30-Apr	11:17	3A063	YFT	Arrival	12.1	-	-
30-Apr	12:17	3A181	ZUI	Departure	13.3	-	-
30-Apr	12:19	3A168	YFT	Departure	12.3	-	-
30-Apr	12:44	8S215	XZM	Arrival	13.4	-	-
30-Apr	12:55	3A064	YFT	Arrival	12.7	-	-
30-Apr	13:16	8S123	XZM	Departure	13.1	-	-
30-Apr	13:40	3A082	ZUI	Arrival	12.7	-	-
30-Apr	14:18	3A164	YFT	Departure	12.3	-	-
30-Apr	14:21	3A182	ZUI	Departure	11.1	-	-
30-Apr	15:00	3A065	YFT	Arrival	12.1	-	-
30-Apr	16:23	3A167	YFT	Departure	12.2	-	-
30-Apr	16:52	8S218	XZM	Arrival	12.8	-	-
30-Apr	16:56	3A083	ZUI	Arrival	12.7	-	-
30-Apr	16:58	3A067	YFT	Arrival	11.5	-	-
30-Apr	17:11	8S126	XZM	Departure	12.6	-	-
30-Apr	17:13	3A183	ZUI	Departure	11.9	-	-
30-Apr	19:06	3A166	YFT	Departure	12.6	-	-
30-Apr	19:49	3A084	ZUI	Arrival	12	-	-
30-Apr	20:13	3A185	ZUI	Departure	13.1	-	-
30-Apr	20:53	8S2113	XZM	Arrival	13.2	-	-
30-Apr	20:58	3A169	YFT	Departure	12.8	-	-
30-Apr	21:59	8S522	XZM	Departure	13.1	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in April 2018, 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 9 HSF movements of which the durations of all instantaneous speeding cases were less than two minutes. The AIS data and ferry operators' responses showed the cases were due to local strong water currents. The captains had reduced speed and maintained the speed at less than 15 knots after the incidents.

Two HSFs with no transmission of AIS data and Four HSFs with insufficient transmission of AIS data were received in April 2018. Vessel captains were requested to provide the AIS plots to indicate the vessel entered the SCZ though the gate access points with no speeding in the SCZ.