



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

Construction Phase Monthly EM&A Report No.15
(For March 2017)

April 2017

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This Monthly EM&A Report No. 15 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:

A handwritten signature in black ink, appearing to read 'Terence Kong', written in a cursive style.

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

Date

27 April 2017

Our Ref : 60440482/C/JCHL170427

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

27 April 2017

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No.15 (March 2017)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No.15 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 27 April 2017.

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

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

Yours faithfully,
AECOM Asia Co. Ltd.



Jackel Law
Independent Environmental Checker

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Executive Summary

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

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

This is the 15th 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 31 March 2017.

Key Activities in the Reporting Period

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

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with Manual of the Project. During the reporting period, the ET conducted 36 sets of construction dust measurements, 24 sets of construction noise measurements, 13 events of water quality measurements, one round of terrestrial ecology monitoring on Sheung Sha Chau Island, two complete sets of small vessel line-transect surveys and five days of land-based theodolite tracking survey effort for Chinese White Dolphin (CWD) monitoring and waste monitoring.

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

On the implementation of Marine Mammal Watching Plan (MMWP), silt curtains were in place by the contractors for sand blanket laying works and dolphin observers were deployed in accordance with the Plan. On the implementation of Dolphin Exclusion Zone (DEZ) Plan, dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for DCM works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains or the DEZs in this reporting month. Audits of acoustic decoupling for construction vessels were also carried out by the ET.

On the implementation of the Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan), the daily movements of all SkyPier high speed ferries (HSFs) in March 2017 were in the range of 85 to 94 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 860 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the Speed Control Zone (SCZ) with average speeds under 15 knots (6.1 to 14.2 knots), which were in compliance with the SkyPier Plan. One ferry movement with minor deviation from the diverted route is under investigation by ET. The investigation result will be presented in the next monthly EM&A report. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

On the implementation of the Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV), the upgraded Marine Surveillance System (MSS) was launched in March 2017. The MSS automatically recorded the deviation case such as speeding, entering no entry zone, not traveling through the designated gate. ET conducted cross checking with construction and associated vessel records provided by the contractors 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. 3-month rolling programmes for construction vessel activities were also received from contractors. ET reminded contractors that all vessels shall avoid entering the Brothers Marine Park, which has been designated since 30 December 2016.

Results of Impact Monitoring

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

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

The water quality monitoring results for DO, total alkalinity, and chromium obtained during the reporting period were in compliance with their corresponding Action and/or Limit Levels stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme if being exceeded. For turbidity, SS and nickel, some of the testing results exceeded the relevant Action or Limit Levels, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the exceedances were not due to the Project.

The monthly terrestrial ecology monitoring on Sheung Sha Chau Island observed that HDD works were conducted at the daylighting location and there was no encroachment upon the egret area nor any significant disturbance to the egrets at Sheung Sha Chau by the works. At the HDD daylighting location, neither nest or breeding activity of bird were found during the monthly ecological monitoring and weekly site inspection in the reporting month.

Summary of Upcoming Key Issues

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

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

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

Contract 3212 11kV Submarine Cable Diversion

- Forming of marine approach trench; and
- Cable laying.

DCM Works:

Contract 3201 to 3205 DCM Works

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

Reclamation Works:

Contract 3206 Main Reclamation Works

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

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 from 1 to 31 March 2017:

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

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

1 Introduction

1.1 Background

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

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

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

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

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

1.2 Scope of this Report

This is the 15th 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 31 March 2017.

1.3 Project Organisation

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

Table 1.1: Contact Information of Key Personnel

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

Party	Position	Name	Telephone
Environmental Team (ET) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919
	Deputy Environmental Team Leader	Heidi Yu	2828 5704
	Deputy Environmental Team Leader	Keith Chau	2972 1721
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Joanne Tsoi	3922 9423
Advanced Works:			
Contract P560(R) Aviation Fuel Pipeline Diversion Works (Langfang Huayuan Mechanical and Electrical Engineering Co., Ltd.)	Project Manager	Wei Shih	2117 0566
	Environmental Officer	Lyn Lau	5172 6543
DCM Works:			
Contract 3201 DCM (Package 1) (Penta-Ocean-China State-Dong-Ah Joint Venture)	Project Director	Tsugunari Suzuki	9178 9689
	Environmental Officer	Kanny Cho	9019 1962
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Ilkwon Nam	9643 3117
	Environmental Officer	Dickson Mak	9525 8408
Contract 3203 DCM (Package 3) (Sambo E&C Co., Ltd)	Project Manager	Seong Jae Park	9683 8693
	Environmental Officer	Calvin Leung	9203 5820
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Kyung-Sik Yoo	9683 8697
	Environmental Officer	Calvin So	9724 6254
Contract 3205 DCM (Package 5) (Bachy Soletanche - Sambo Joint Venture)	Deputy Project Director	Min Par	9683 0765
	Environmental Officer	Margaret Chung	9130 3696

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

1.4 Summary of Construction Works

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

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

1.5 Summary of EM&A Programme Requirements

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

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

Parameters	Status
Air Quality	
Baseline Monitoring	The baseline air quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Water Quality	
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	The baseline water quality monitoring result has been reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	On-going
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	Initially started in late March 2017. Due to the changes in DCM works areas, the monitoring programme is subject to review.
Early/ Regular DCM Water Quality Monitoring	On-going
Waste Management	
Waste Monitoring	On-going
Land Contamination	
Supplementary Contamination Assessment Plan (CAP)	To be submitted with the relevant construction works.

Parameters	Status
Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD.
Terrestrial Ecology	
Pre-construction Egret Survey Plan	The revised Egret Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	On-going
Marine Ecology	
Pre-Construction Phase Coral Dive Survey	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	The coral translocation was completed.
Post-Translocation Coral Monitoring	On-going
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite 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 Plan (DEZP) implementation measures	On-going
SkyPier High Speed Ferries (HSF) implementation measures	On-going
Construction and Associated Vessels Implementation measures	On-going
Complaint Hotline and Email channel	On-going
Environmental Log Book	On-going

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

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. In order to enhance environmental awareness and closely monitor the environmental performance of the contractors, environmental briefings and regular environmental management meetings were conducted.

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

2 Air Quality Monitoring

2.1 Monitoring Stations

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

Table 2.1: Locations of Impact Air Quality Monitoring Stations

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

2.2 Monitoring Requirements and Schedule

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

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

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

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	306	500
AR2	298	

2.3 Monitoring Equipment

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

Table 2.3: Air Quality Monitoring Equipment

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

2.4 Monitoring Methodology

2.4.1 Measuring Procedure

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

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

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

2.4.2 Maintenance and Calibration

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

2.5 Analysis and Interpretation of Monitoring Results

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

Table 2.4: Summary of 1-hour TSP Monitoring Results

Monitoring Station	1-hr TSP Concentration Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	33 - 193	306	500
AR2	16 - 112	298	

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

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

3 Noise Monitoring

3.1 Monitoring Stations

Noise monitoring was conducted at five representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Figure 2.1** shows the locations of the monitoring stations and these are described in **Table 3.1** below. As described in Section 4.3.3 of the 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.

3.2 Monitoring Requirements and Schedule

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

Table 3.2: Action and Limit Levels for Construction Noise

Monitoring Stations	Time Period	Action Level	Limit Level, $L_{eq(30mins)}$ dB(A)
NM1A, NM2, NM3A, NM4, NM5 and NM6	0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75 dB(A) ⁽¹⁾

Note: ⁽¹⁾ reduce to 70dB(A) for school and 65dB(A) during school examination periods.

3.3 Monitoring Equipment

Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was used to check the sound level meters by a known sound pressure level for field measurement. Details of equipment are given in **Table 3.3**.

Table 3.3: Noise Monitoring Equipment

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

3.4 Monitoring Methodology

3.4.1 Monitoring Procedure

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

- a. The sound level meter was set on a tripod at least a height of 1.2 m above the ground for free-field measurements at monitoring stations NM1A, NM4, NM5 and NM6. A correction of +3 dB(A) was applied to the free field measurements.
- b. Façade measurements were made at the monitoring station NM3A.
- c. Parameters such as frequency weighting, time weighting and measurement time were set.
- d. Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- e. During the monitoring period, L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a record sheet.
- f. Noise measurement results were corrected with reference to the baseline monitoring levels.
- g. Observations were recorded when high intrusive noise (e.g. dog barking, helicopter noise) was observed during the monitoring.

3.4.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

- a. The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- b. The meter and calibrator were sent to the supplier or laboratory accredited under Hong Kong Laboratory Accreditation Scheme (HOKLAS) to check and calibrate at yearly intervals.

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

3.5 Analysis and Interpretation of Monitoring Results

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

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A)	Limit Level, dB(A)
	L _{eq} (30 mins)	L _{eq} (30 mins)
NM1A ⁽ⁱ⁾	71 - 73	75
NM3A	57 - 63	75
NM4 ⁽ⁱ⁾	60 - 66	70 ⁽ⁱⁱ⁾
NM5 ⁽ⁱ⁾	53 - 61	75
NM6 ⁽ⁱ⁾	66 - 70	75

Note: (i) +3 dB(A) Façade correction included;

(ii) Reduced to 65 dB(A) during school examination periods at NM4 from 27 to 31 March 2017.

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 noise at NM3A, school activities at NM4, helicopter noise and dog barking at NM5, and aircraft, helicopter, and marine vessel noise at NM6 in this reporting month.

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

4 Water Quality Monitoring

4.1 Monitoring Stations

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

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

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

Notes:

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

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

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

4.2 Monitoring Requirements and Schedule

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

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

Early regular DCM water quality monitoring were conducted three days per week, at mid-flood and mid-ebb tides, at the 22 water quality monitoring stations from 1 to 21 March 2017. It was suspended after 21 March 2017 because initial intensive DCM monitoring was tentatively started in late March 2017.

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

4.2.1 Action and Limit Levels for Water Quality Monitoring

The Action and Limit Levels for general water quality monitoring and regular DCM monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are presented in **Table 4.2**. The control and impact stations during flood tide and ebb tide for general water quality monitoring and regular DCM monitoring are presented in **Table 4.3**.

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

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

Parameters	Action Level (AL)	Limit Level (LL)
Action and Limit Levels SR1		
SS (mg/l)	To be determined prior to its commissioning	To be determined prior to its commissioning
Action and Limit Levels SR8		
SS (mg/l)	52	60
Notes:		
⁽¹⁾ For DO measurement, non-compliance occurs when monitoring result is lower than the limits.		
⁽²⁾ For parameters other than DO, non-compliance of water quality results when monitoring results is higher than the limits.		
⁽³⁾ Depth-averaged results are used unless specified otherwise.		
⁽⁴⁾ Details of selection criteria for the two heavy metals for early regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website http://env.threerunwaysystem.com/en/ep-submissions.html		
⁽⁵⁾ The action and limit levels for the two representative heavy metals chosen will be the same as that for the intensive DCM monitoring.		

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

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

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

4.3 Monitoring Equipment

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

Table 4.4: Water Quality Monitoring Equipment

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

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

Table 4.5: Other Monitoring Equipment

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

4.4 Monitoring Methodology

4.4.1 Measuring Procedure

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

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

4.4.2 Maintenance and Calibration

Calibration of In-situ Instruments

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

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





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

4.4.3 Laboratory Measurement / Analysis

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

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

Legend:

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

IM Stations

As shown in **Table 4.7**, exceedances of Action Level at IM stations were recorded on 2 March 2017. Repeat turbidity measurement was conducted at IM10, IM11 and IM12 on 3 March 2017 during flood tide in accordance with the Event and Action Plan of the Manual. The exceedances recorded at IM11 and IM12 on 2 March 2017 were located upstream of the 3RS Project during flood tide. As such upstream stations would unlikely be affected by the Project, the investigation focused on the exceedance at IM station located downstream of the Project and hence might be affected by the Project's construction activities.

As part of the investigation on the downstream exceedance event, details of the Project's marine construction activities on that monitoring day were collected, as well as any observations during the monitoring. The findings are summarised in **Table 4.8**.

Table 4.8: Summary of Findings from Investigations of Turbidity Exceedances during Mid-Flood Tide

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Exceedance due to Project
02/03/2017	DCM works	Around 1km	Silt curtain deployed	No	No	No

Note:

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

According to the investigation findings summarized in **Table 4.8**, it was confirmed that silt curtains were deployed for DCM works as additional measures and the silt curtains were maintained properly. Besides, high levels of turbidity were also recorded at nearby upstream stations (IM11 and IM12) on the same monitoring period. Given that IM11 and IM12 are located upstream of the Project during flood tide, and high turbidity levels were recorded at IM11 and IM12 (which would unlikely be affected by the Project), the exceedance at IM10 was possibly due to natural fluctuation in this area. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM9, which was closer to the active DCM works during the same monitoring period. Based on these findings, this exceedance was considered not due to the Project. No exceedance was recorded during the repeat turbidity measurements.

SR Stations

There was no turbidity exceedance recorded at SR Stations during the reporting period.







Findings for SS Exceedances (Mid-Ebb Tide)

Table 4.9 presents a summary of the SS compliance status at IM and SR stations during mid-ebb tide for the reporting month.

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
19/03/2017																			
21/03/2017																			
23/03/2017																			
25/03/2017																			
28/03/2017																			
30/03/2017																			
No. of SS Exceedances	1	1	1	1	1	2	0	0	0	1	1	1	0	0	1	0	1	0	0

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

Legend:

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

IM Stations

As shown in **Table 4.10**, exceedances of Action or Limit Levels at IM stations were recorded on four monitoring days. Some exceedances occurred at monitoring stations which were located upstream of the 3RS Project during flood tide. As such upstream stations would unlikely be affected by the Project, the investigation focused on the exceedances at IM stations located downstream of the Project and hence might be affected by the Project’s construction activities.

As part of the investigation on the downstream exceedance events, details of the Project’s marine construction activities on these monitoring days were collected, as well as any observations during the monitoring. The findings are summarised in **Table 4.11**.

Table 4.11: Summary of Findings from Investigations of SS Exceedances during Mid-Flood Tide

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Exceedance due to Project
02/03/2017	DCM works	Around 1km	Silt curtain deployed	No	No	No
15/03/2017	DCM works	Around 1km	Silt curtain deployed	No	No	No
28/03/2017	DCM works	Around 1km	Silt curtain deployed	No	No	No

According to the investigation findings summarized in **Table 4.11**, it was confirmed that silt curtains were deployed for DCM works as additional measures and the silt curtains were maintained properly.

For the exceedance at IM10 on 2 March 2017, it is noted from **Table 4.10** that the exceedance appeared to be an isolated case with no observable temporal and spatial trend to indicate any effect due to Project activities. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM9, which was closer to active DCM works during the same

monitoring period. Based on these findings, the exceedance was considered not due to the Project.

For the exceedances at IM5 and IM6 on 15 March 2017, high level of SS was also recorded at nearby upstream station (IM4) on the same monitoring period. Given that IM4 is located upstream of the Project during flood tide, and high SS level was recorded at IM4 (which would unlikely be affected by the Project), the exceedances at IM5 and IM6 were possibly due to natural fluctuation in this area. Based on these findings, these exceedances were considered not due to the Project.

For the exceedance at IM6 on 28 March 2017, it is noted from **Table 4.10** that the exceedance appeared to be an isolated case with no observable temporal and spatial trend to indicate any effect due to Project activities. Furthermore, no exceedance was recorded at other downstream monitoring stations, including IM5, which was closer to active DCM works during the same monitoring period. Based on these findings, the exceedance was considered not due to the Project.

SR Stations

At SR stations, exceedances were observed at SR4A and SR6 on one monitoring day. However, these stations are located upstream of the Project during flood tide, and there were no project-related SS exceedances at any IM stations on that monitoring day, hence the exceedances at these stations were unlikely to be due to the Project. The exceedances at SR4A and SR6 might be due to natural fluctuation.

Findings for Nickel Exceedances (Mid-Flood Tide)





Table 4.12 presents a summary of the nickel compliance status at IM stations during mid-flood tide for the reporting month.

Table 4.12: Summary of Nickel Compliance Status at IM Stations (Mid-Flood Tide)

Date	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
02/03/2017												
04/03/2017												
07/03/2017												
09/03/2017												
11/03/2017												
15/03/2017												
17/03/2017												
19/03/2017												
21/03/2017												
No. of Nickel Exceedances	0	0	0	0	0	0	0	1	0	0	0	0

Note: The initial intensive DCM monitoring was tentatively started in late March 2017 and since then the early regular DCM monitoring had been suspended according to the approved Detailed Plan on DCM. However, the initial intensive DCM monitoring could not be continued as planned due to changes in DCM works areas. Therefore, continuation of the initial intensive DCM monitoring is subject to review, and the early regular DCM monitoring will be resumed in April 2017. Detailed results are presented in **Appendix D**.

Legend:

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

IM Stations

As shown in **Table 4.12**, an exceedance of Action Level at IM8 was recorded on one monitoring day. As it is located downstream of the Project during flood tide which might be affected by the Project's construction activities, exceedance investigation was carried out.

As part of the investigation on the downstream exceedance events, details of the Project's marine construction activities on the monitoring day were collected, as well as any observations during the monitoring. The findings are summarised in **Table 4.13**.

Table 4.13: Summary of Findings from Investigations of Nickel Exceedances during Mid-Flood Tide

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Exceedance due to Project
21/03/2017	DCM works	Around 500m	Silt curtain deployed	No	No	No

According to the investigation findings summarized in **Table 4.13**, it was confirmed that silt curtains were deployed for DCM works as additional measures and the silt curtains were maintained properly.

For the exceedance at IM8 on 21 March 2017, it is noted from **Table 4.12** that the exceedance appeared to be an isolated case with no observable temporal and spatial trend to indicate any effect due to Project activities. Furthermore, no exceedance was recorded at other downstream monitoring stations. Based on these findings, the exceedance was considered not due to the Project.

Conclusions

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

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

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

5 Waste Management

5.1 Monitoring Requirements

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. The Action and Limit levels of the construction waste are provided in **Table 5.1**.

Table 5.1: Action and Limit Levels for Construction Waste

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

5.2 Waste Management Status

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

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

Based on the Contractor's information, about 789m³ of excavated materials were produced from the HDD launching site and Sheung Sha Chau under P560(R) in March 2017. The generated excavated materials were temporarily stored at the stockpiling area. The excavated material will be reused in the Project.

Based on the updated information, around 185m³ of Construction and Demolition (C&D) material generated from the DCM contracts for site office establishment was disposed of as public fill in February 2017.

Around 27 tonnes of general refuse was disposed of to the WENT Landfill by the advanced works contract and DCM contracts in March 2017. Around 718m³ of Construction and Demolition (C&D) material generated from the DCM contracts for site office establishment was disposed of as public fill in the reporting month. No chemical waste was disposed off-site during the reporting month.

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

6 Chinese White Dolphin Monitoring

6.1 CWD Monitoring Requirements

In accordance with the Manual, Chinese White Dolphin (CWD) monitoring by small vessel line-transect survey supplemented by land-based theodolite tracking 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 survey per month while land-based theodolite tracking should be conducted at a frequency of one day per month per station during the construction phase. In addition to the land-based theodolite tracking required for impact monitoring as stipulated in the Manual, supplemental theodolite tracking have also been conducted during the implementation for the SkyPier HSF diversion and speed control in order to assist in monitoring the effectiveness of these measures, i.e. in total twice per month at the Sha Chau station and three times per month at the Lung Kwu Chau station.

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

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

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

[Notes for Table 6.1 (referring to the baseline monitoring report):

*Action Level – running quarterly STG & ANI will be calculated from the three preceding survey months. For CWD monitoring for March 2017, data from 1 January 2017 to 31 March 2017 will be used to calculate the running quarterly encounter rates STG & ANI;

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

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

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

Small vessel line-transect surveys were 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 AW). The AW transect has not been previously surveyed in the AFCD programme due to the restrictions of HKIA Exclusion Zone, nevertheless, this transect was established during the EIA of the 3RS Project and refined in the Manual with the aim to collect project specific baseline information within the HKIA Approach Area to fill the data gap that was not covered by the AFCD programme. This provided a larger sample size for estimating the densities and patterns of movements in the broader study area of the project.

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

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

Table 6.3: Land-based Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

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

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

All data collected on both primary and secondary transect lines were used for analysis of sighting distribution, group size, activities including association with fishing boat, and mother-calf pair. Only on-effort data collected under conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond were used for analysis of the CWD encounter rates.

A 15-20 m vessel with a flying bridge observation platform about 4 to 5 m above water level and unobstructed forward view, and a team of three to four observers were deployed to undertake the surveys. Two observers were on search effort at all times when following the transect lines with

a constant speed of 7 to 8 knots (i.e. 13 to 15 km per hour), one using 7X handheld binoculars and the other using unaided eyes and recording data.

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

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

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

6.3.2 Photo Identification

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

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

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

6.3.3 Land-based Theodolite Tracking

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

Three surveyors (one theodolite operator, one computer operator, and one observer) were involved in each survey. Observers searched for dolphins using unaided eyes and handheld binoculars (7X50). Theodolite tracking sessions were initiated whenever an individual CWD or group of CWDs was located. Where possible, a distinguishable individual was selected, based on colouration, within the group. The focal individual was then continuously tracked via the theodolite, with a position recorded each time the dolphin surfaced. In case an individual could

not be positively distinguished from other members, the group was tracked by recording positions based on a central point within the group whenever the CWD surfaced. Tracking continued until animals were lost from view; moved beyond the range of reliable visibility (>1-3 km, depending on station height); or environmental conditions obstructed visibility (e.g., intense haze, Beaufort sea state >4, or sunset), at which time the research effort was terminated. In addition to the tracking of CWD, all vessels that moved within 2-3 km of the station were tracked, with effort made to obtain at least two positions for each vessel.

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

6.4 Monitoring Results and Observations

6.4.1 Small Vessel Line-transect Survey

Survey Effort

Within this reporting month, two complete sets of small vessel line-transect surveys were conducted on the 6th, 10th, 13th, 14th, 20th, 21st, 23rd and 24th March 2017, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of 458.78 km of survey effort was collected from these surveys, with around 87.49% 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 D**.

Sighting Distribution

In March 2017, 8 groups of CWDs with 36 individuals were sighted. All of these sightings were recorded during on-effort search under favourable weather conditions (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of cetacean sightings are presented in **Appendix D**.

Distribution of all CWD sightings recorded in March 2017 is illustrated in **Figure 6.3**. In March 2017, CWDs were more frequently sighted in WL than in NWL and SWL. There were two sightings in NWL in this reporting month, both of them were located around Lung Kwu Chau. In WL survey area, CWD sightings scattered from waters near Tai O to Fan Lau. While in SWL, two CWD sightings were recorded in waters near Fan Lau Tung Wan and Soko Islands respectively. No sightings of CWDs were recorded in the vicinity of or within the 3RS land-formation footprint.

Figure 6.3: Sightings Distribution of Chinese White Dolphins

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



Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from March 2017. 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)

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

Encounter Rate by Number of Dolphins (ANI)

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

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

In March 2017, a total of 401.40 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 8 on-effort sightings with a total number of 36 dolphins from on-effort sightings were obtained under such condition. Calculation of the encounter rates in March 2017 are shown in **Appendix D**.

For the running quarter of the reporting month (i.e., from January 2017 to March 2017), a total of 1144.90 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 46 on-effort sightings and a total number of 170 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix D**.

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

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

	Encounter Rate (STG)	Encounter Rate (ANI)
March 2017	1.99	8.97
Running Quarter from January 2017 to March 2017*	4.02	14.85
Action Level	1.86	9.35

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

Group Size

In March 2017, 8 groups of CWDs with 36 individuals were sighted, and the average group size of CWDs was 4.50 individuals per group. CWD groups with medium-sized (i.e. 3-9 individuals) were dominant. A large CWD group with 13 individuals was sighted in this reporting month in WL.

Activities and Association with Fishing Boats

Six out of eight sightings of CWDs were recorded engaging in feeding activities in March 2017. Four out of these six sightings were recorded in association with operating fishing boats. One of these sightings was associated with operating gill-netter in SWL survey area. The remaining three sightings were associated with operating purse seiners in WL. One CWD group sighted associated with purse seiner in WL had a large group size of 13 individuals.

Mother-calf Pair

In March 2017, no sightings of CWDs were recorded with the presence of neither mother-and-calf nor mother-and-unspotted juvenile pairs.

6.4.2 Photo Identification

In March 2017, a total number of 19 different CWD individuals were identified for totally 27 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix D**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd/mm/yyyy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd/mm/yyyy)	Sighting Group No.	Area
NLMM004	23/03/2017	1	NWL	SLMM021	21/03/2017	2	WL
		2	NWL			3	WL
NLMM015	21/03/2017	2	WL	SLMM028	21/03/2017	1	WL
NLMM017	23/03/2017	1	NWL	SLMM030	21/03/2017	1	WL
		2	NWL	SLMM031	21/03/2017	2	WL
NLMM019	21/03/2017	2	WL	SLMM036	21/03/2017	2	WL
NLMM020	21/03/2017	2	WL	SLMM037	21/03/2017	2	WL
NLMM037	23/03/2017	1	NWL	WLMM008	21/03/2017	2	WL
		2	NWL			3	WL
SLMM011	21/03/2017	2	WL	WLMM011	21/03/2017	1	WL
		3	WL	WLMM043	21/03/2017	1	WL
SLMM014	20/03/2017	1	SWL	WLMM074	21/03/2017	3	WL
		3	SWL				
SLMM015	21/03/2017	2	WL				
		3	WL				

6.4.3 Land-based Theodolite Tracking

Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 20th, 21st and 28th March 2017 and at SC on 24th and 29th March 2017, with a total of 5 days of land-based theodolite tracking survey effort accomplished in this reporting month. In total, 6 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 D**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking surveys in March 2017 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

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

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	3	18:00	6	0.33
Sha Chau	2	12:00	0	0
TOTAL	5	30:00	6	0.2

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



Notes: A CWD group was sighted at a location to the northwest of LKC outside the HKSAR boundary on 28 March 2017. This group of sighting was beyond the usual tracking distance due to the good visibility and sea state condition (Beaufort ranged 2-3) on that day whilst this CWD group was spotted with surfacing for several times. Although this sighting was beyond the usual tracking distance and even outside the HKSAR boundary, it was recorded with the purpose of gathering more CWD information.

6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. In this reporting month, the Ecological Acoustic Recorder (EAR) has been retrieved on 17 March 2017 and will be re-deployed and positioned at south of Sha Chau Island with 20% duty cycle (**Figure 6.5**). The EAR deployment is generally for 4-6 weeks prior to data retrieval for analysis. Acoustic data is reviewed to give an indication of CWDs occurrence patterns and to obtain anthropogenic noise information simultaneously. Analysis (by a specialized team of acousticians) involved manually browsing through every acoustic recording and logging the occurrence of dolphin signals. All data will be re-played by computer as well as listened to by human ears for accurate assessment of dolphin group presence. As the period of data collection and analysis takes more than two months, PAM results could not be reported in monthly intervals.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractors for sand blanket laying works, in which dolphin observers were deployed by each contractor in accordance with the Marine Mammal Watching Plan (MMWP). Teams of at least two dolphin observers were deployed by the contractors for continuous monitoring of the Dolphin Exclusion Zone (DEZ) for DCM works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of MMWP and DEZ monitoring were provided by the ET prior to the aforementioned works, with a cumulative total of 252 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 for construction vessels were carried out during weekly site inspection and the observations are summarised in **Section 7.1**. Audits of SkyPier high speed ferries route diversion and speed control and construction vessel management are presented in **Section 7.2** and **Section 7.3** respectively.

6.7 Timing of Reporting CWD Monitoring Results

Detailed analysis of CWD monitoring results collected by small vessel line-transect survey will be provided in future quarterly reports. Detailed analysis of CWD monitoring results collected by land-based theodolite tracking and PAM will be provided in future 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 month did not trigger the Action Level for CWD monitoring.

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

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

The key observations from site inspection and associated recommendations were related to improvement of dust suppression measures; provision of drip trays; and implementation of preventive measures for runoff and dark smoke emission. In addition, recommendations were also provided during site inspection on barges. These included display of NRMM labels on relevant mechanical equipment; display of relevant licences on barges; provision and maintenance of spill kits and chemical toilets; provision of storage area for inert and non-inert waste; implementation of acoustic decoupling measures, proper wastewater treatment, dust suppression measures, spill and runoff preventive measures, dark smoke preventive measures, as well as proper installation and maintenance of silt curtains.

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 B**.

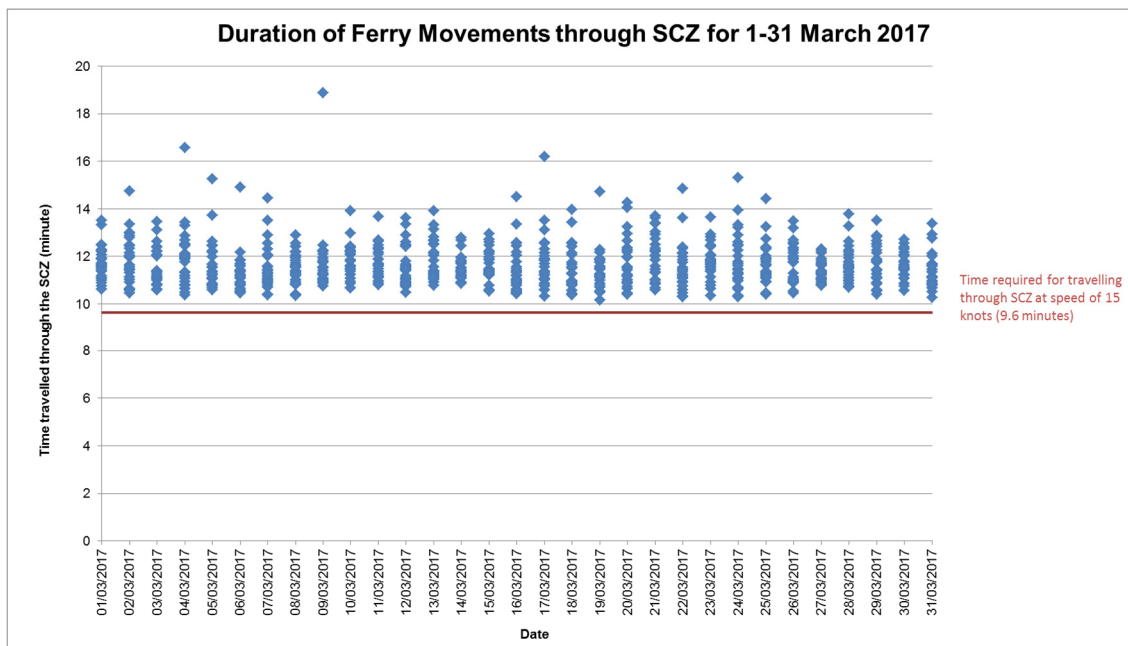
7.2 Audit of Route Diversion and Speed Control of the SkyPier High Speed Ferries

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

Key audit findings for the SkyPier HSFs travelling to/from Zhuhai and Macau against the requirements of the SkyPier Plan during the reporting period are summarized in **Table 7.1**. The daily movements of all SkyPier HSFs in March 2017 (i.e., 85 to 94 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, 860 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in March 2017 and the data are presented in **Appendix G**. The time spent by the SkyPier HSFs travelling through the SCZ in March 2017 were presented in **Figure 7-1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7-1** shows that all the SkyPier HSFs spent more than 9.6 minutes to travel through the SCZ.

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



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

One ferry was recorded with minor deviation from the diverted route on 29 March 2017. A notice was sent to the ferry operator (FO) and the case is under investigation by ET. The investigation result will be presented in the next monthly EM&A report.

The case of minor deviation from the diverted route recorded on 25 February 2017 was followed up after receiving further information from the FO. ET’s investigation found that the vessel captain had to give way to a vessel to ensure safety. After that, the HSF had returned to the normal route following the SkyPier Plan.

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

Requirements in the SkyPier Plan	1 March to 31 March 2017
Total number of ferry movements recorded and audited	860
Use diverted route and enter / leave SCZ through Gate Access Points	1 deviation, which is under investigation
Speed control in speed control zone	The average speeds taken within the SCZ of all HSFs were within 15 knots (6.1 knots to 14.2 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)	85 to 94 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:

- Five 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.
- Four skipper training sessions were held by contractor's Environmental Officer. Competency test was subsequently conducted with the trained skippers by ET.
- 79 skippers were trained by ET / contractor's Environmental Officer in March 2017. In total, 564 skippers were trained from August 2016 to March 2017.
- The upgraded Marine Surveillance System (MSS) was launched in March 2017. The MSS automatically recorded deviation cases such as speeding, entering no entry zone, not traveling through the designated gate. ET conducted cross checking of construction and associated vessel records as provided by the contractors to ensure the MSS records all deviation cases accurately.
- Deviations such as speeding in the works area, entering from non-designated gates and entering no-entry zones were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the weekly MTCC audit.
- 3-month rolling programmes (one month record and two months forecast) for construction vessel activities were received from the contractors in order to help maintain the number of construction and associated vessels on site to a practicable minimal level.

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

7.4 Implementation of Dolphin Exclusion Zone

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

During the reporting period, ET has been notified that no dolphins were sighted within the DEZ by the contractors. ET has checked the relevant records to audit the implementation of DEZ.

7.5 Ecological Monitoring

In accordance with the Updated EM&A Manual, ecological monitoring shall be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found. During the reporting month, the monthly ecological monitoring at the HDD daylighting location on Sheung Sha Chau observed that HDD works were ongoing under the Contract P560(R) at the daylighting location, and there was no encroachment of any works upon the egret area nor any significant disturbance to the egrets on the island by the works. Sign of early breeding activities by Black-crowned Night Heron and Little Egret were observed on trees located at the previously identified egret area where it is at the southern side of Sheung Sha Chau Island. At the HDD daylighting location, neither nest nor breeding activity of bird were found during the monthly ecological monitoring and weekly site inspections in the reporting month. The site photos and location map regarding the monthly ecological monitoring for the HDD works and egret area are provided in **Appendix D** for reference. All works on Sheung Sha Chau had been retreated on 31 March 2017. No works will be conducted on Sheung Sha Chau Island during the ardeid's breeding season.

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

7.7 Compliance with Other Statutory Environmental Requirements

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

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

7.8.1 Complaints

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

7.8.2 Notifications of Summons or Status of Prosecution

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

7.8.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- HDD works on existing airport island; and
- Stockpiling of excavated materials from HDD operation on existing airport island.

Contract 3212 11kV Submarine Cable Diversion

- Forming of marine approach trench; and
- Cable laying.

DCM Works:

Contract 3201 to 3205 Deep Cement Mixing Works

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

Reclamation Works:

Contract 3206 Main Reclamation Works

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

8.2 Key Environmental Issues for the Coming Reporting Period

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

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Water quality from laying of sand blankets, DCM works and water jetting works for submarine cable diversion;
- DEZ monitoring for DCM works and 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 C**.

9 Conclusion and Recommendation

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

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

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

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

The monthly terrestrial ecology monitoring on Sheung Sha Chau Island observed that HDD works were conducted at the daylighting location and there was no encroachment upon the egret area nor any significant disturbance to the egrets at Sheung Sha Chau by the works. At the HDD daylighting location, neither nest or breeding activity of bird were found during the monthly ecological monitoring and weekly site inspection in the reporting month.

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

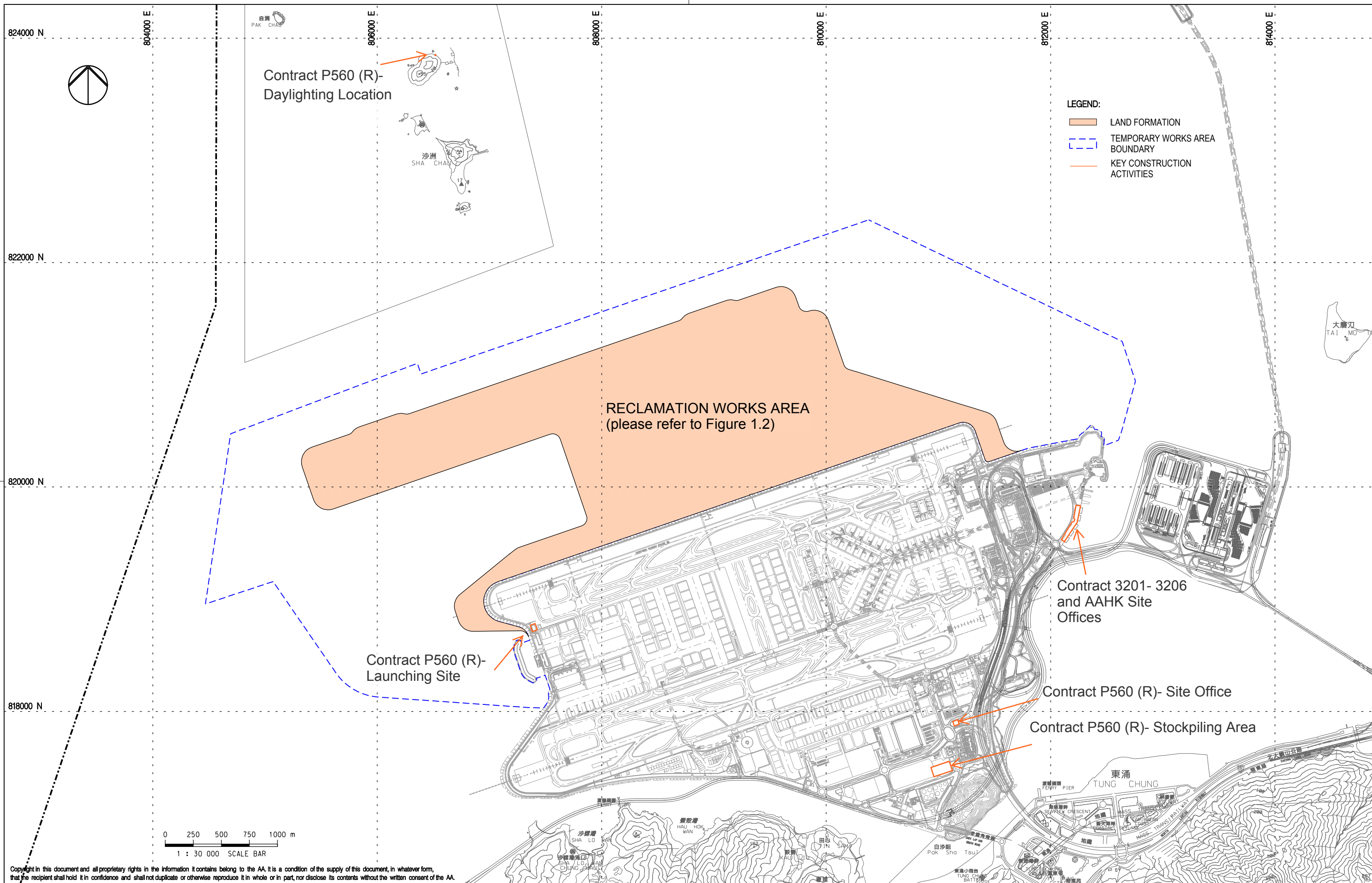
On the implementation of Marine Mammal Watching Plan, silt curtains were in place by the contractors for sand blanket laying works and dolphin observers were deployed in accordance with the Plan. On the implementation of DEZ Plan, dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for DCM works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains, and no dolphins were sighted within the DEZ. These contractors' records were checked by the ET during site inspection. Audits of acoustic decoupling for construction vessels were also carried out by the ET.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in March 2017 were in the range of 85 to 94 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 860 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the SCZ with average speeds under 15 knots (6.1 to 14.2 knots), which were in compliance with the SkyPier Plan. One ferry movement with

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

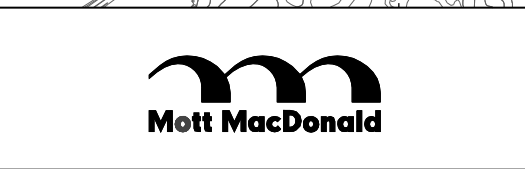
On the implementation of the MTRMP-CAV, the upgraded MSS was launched in March 2017. The MSS automatically recorded deviation cases such as speeding, entering no entry zone, not traveling through the designated gate. ET conducted cross checking with construction and associated vessel records provided by the contractors 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. 3-month rolling programmes for construction vessel activities were also received from contractors. ET reminded contractors that all vessels shall avoid entering the Brothers Marine Park, which has been designated since 30 December 2016.

Figures



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Rev.	Date	Description	Checked
A	31AUG15	FIRST ISSUE	DC



LOCATIONS OF KEY CONSTRUCTION ACTIVITIES IN THIS REPORTING PERIOD

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

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

Drawing No. **FIGURE 1.1**

Scale at A3
1 : 30000
Rev. A

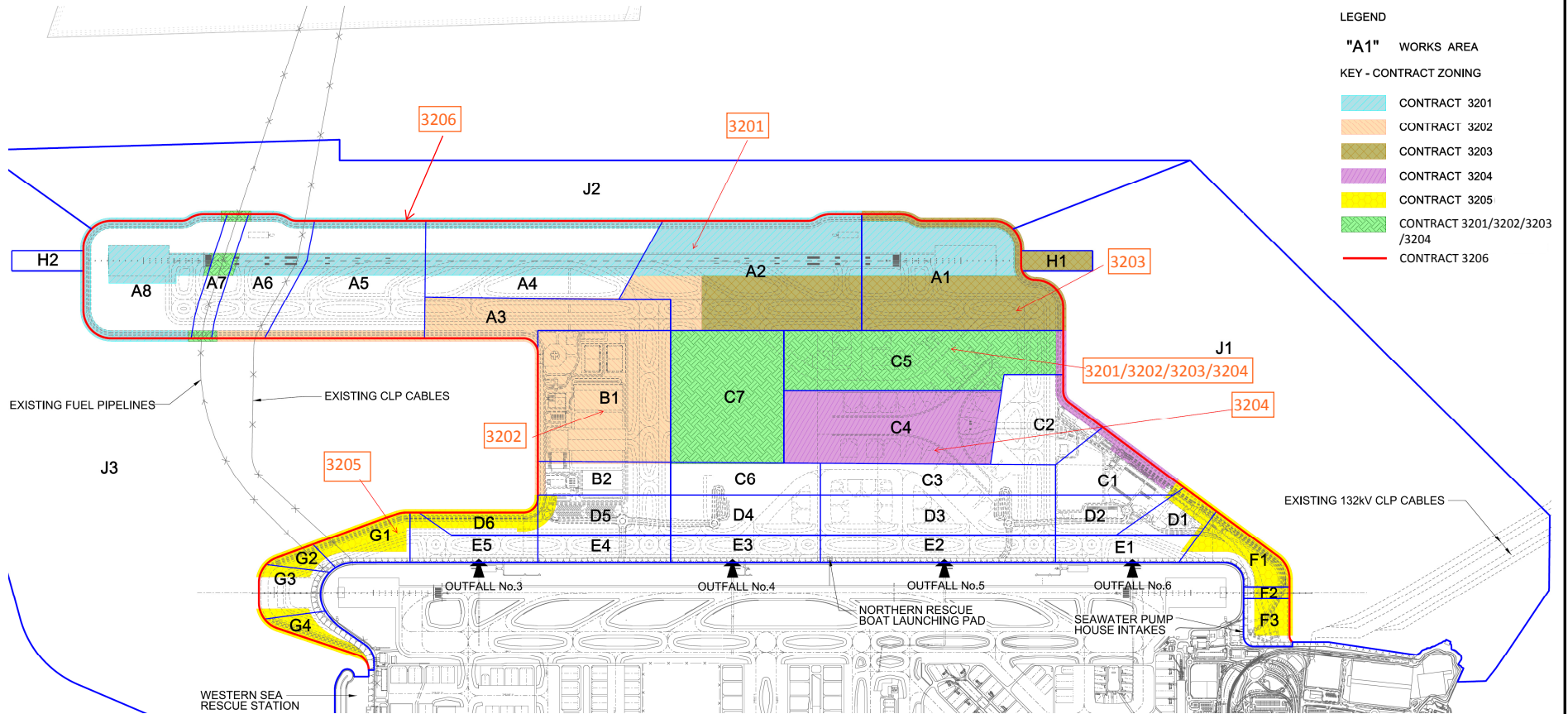


FIGURE 1.2- LOCATIONS OF RECLAMATION WORKS AREA



808000 E.

808000 E.

810000 E.

812000 E.

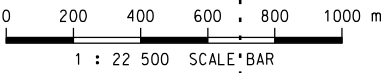
814000 E.

820000 N.

818000 N.

LEGEND:

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



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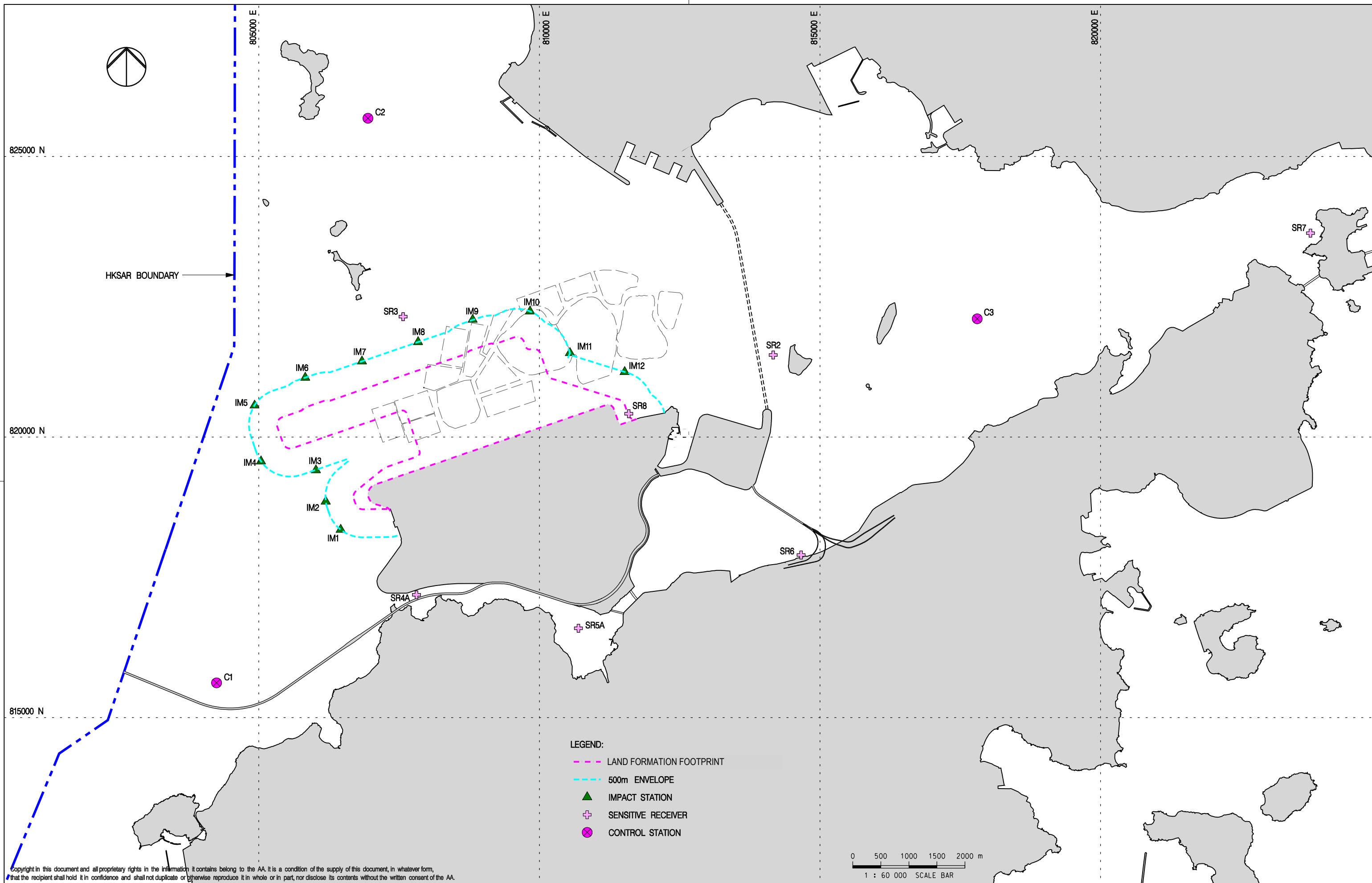
Rev.	Date	Description	Checked
A	06JAN16	FIRST ISSUE	RO
B	29JAN16	GENERAL REVISION	RO
C	11FEB16	GENERAL REVISION	RO



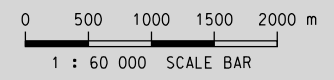
Title
LOCATIONS OF AIR AND NOISE MONITORING STATIONS AND CHEK LAP KOK WIND STATION

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.	Scale at A3 1 : 22500
FIGURE 2.1	Rev. C



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



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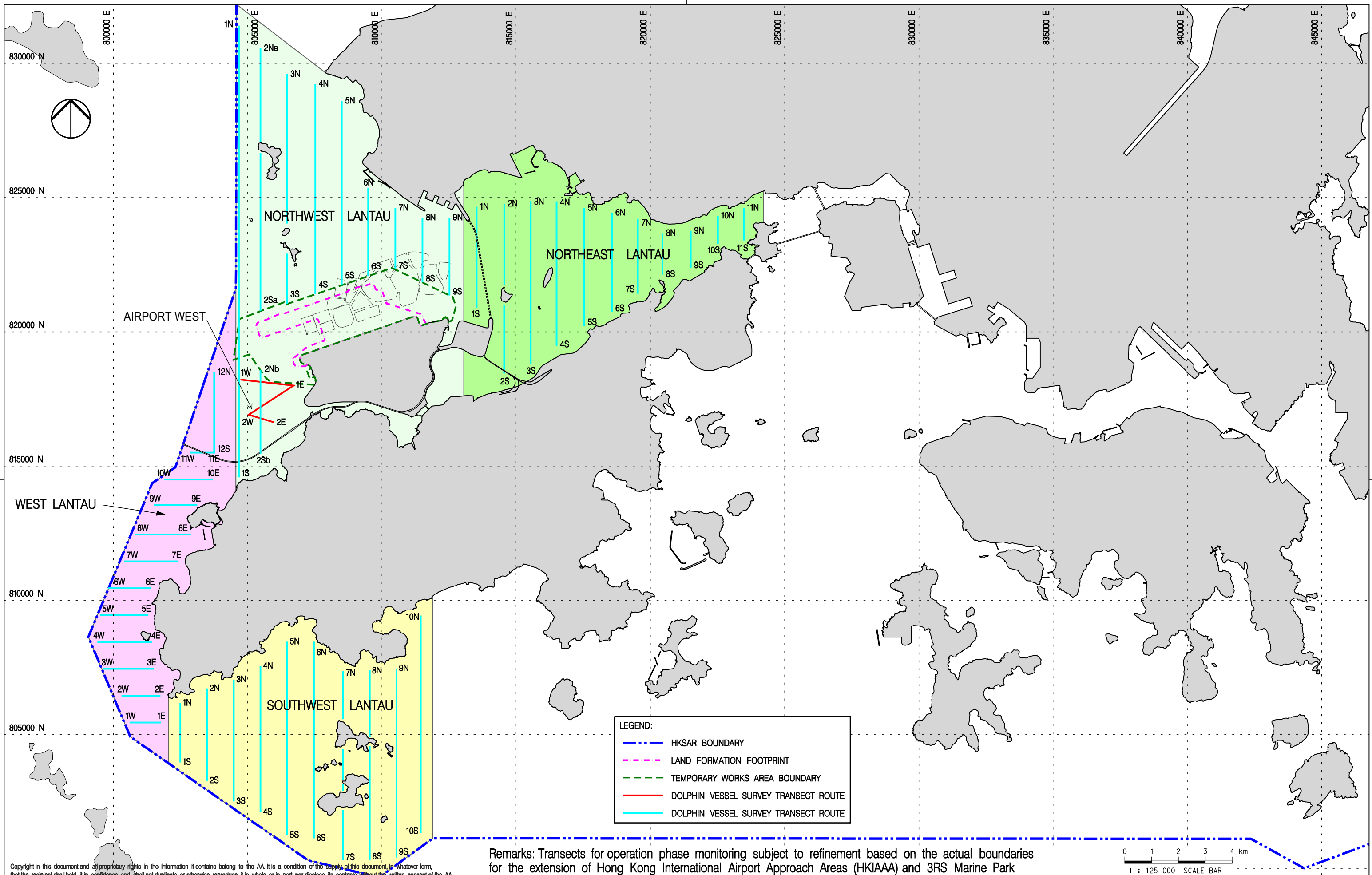
Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	DC
B	04MAY16	GENERAL REVISION	RO
C	06JUN16	GENERAL REVISION	LC



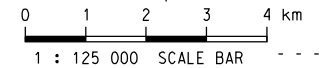
Title
WATER QUALITY MONITORING STATIONS

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

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM		Scale at A3
Drawing No.	FIGURE 3.1	1 : 60000
Rev.	C	



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



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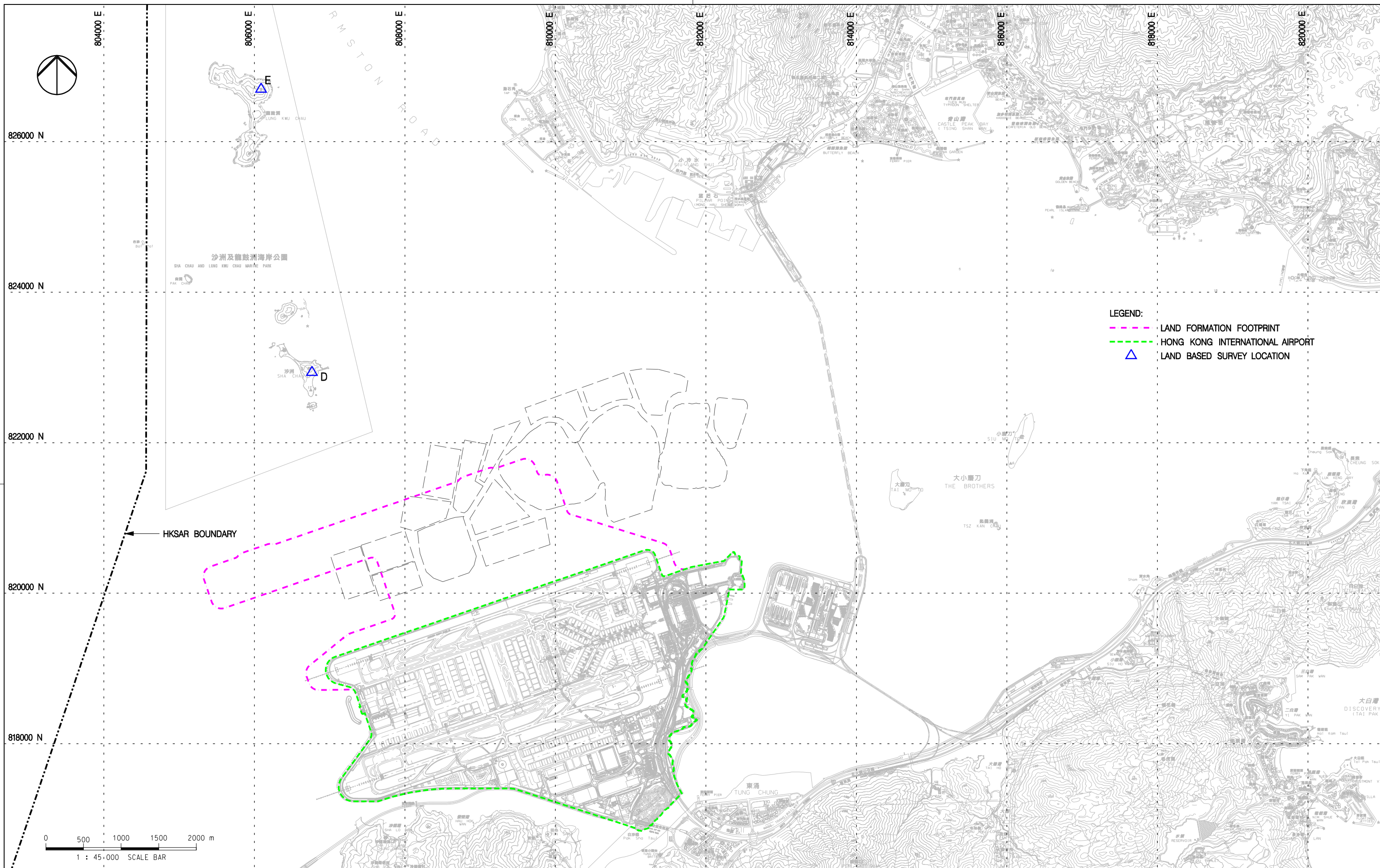
Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	JC
B	27JUL16	GENERAL REVISION	JT
C	06FEB17	GENERAL REVISION	JT
D	01MAR17	GENERAL REVISION	JT



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		Scale at A3
Drawing No.	FIGURE 6.1	1 : 125000
Rev.	D	



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

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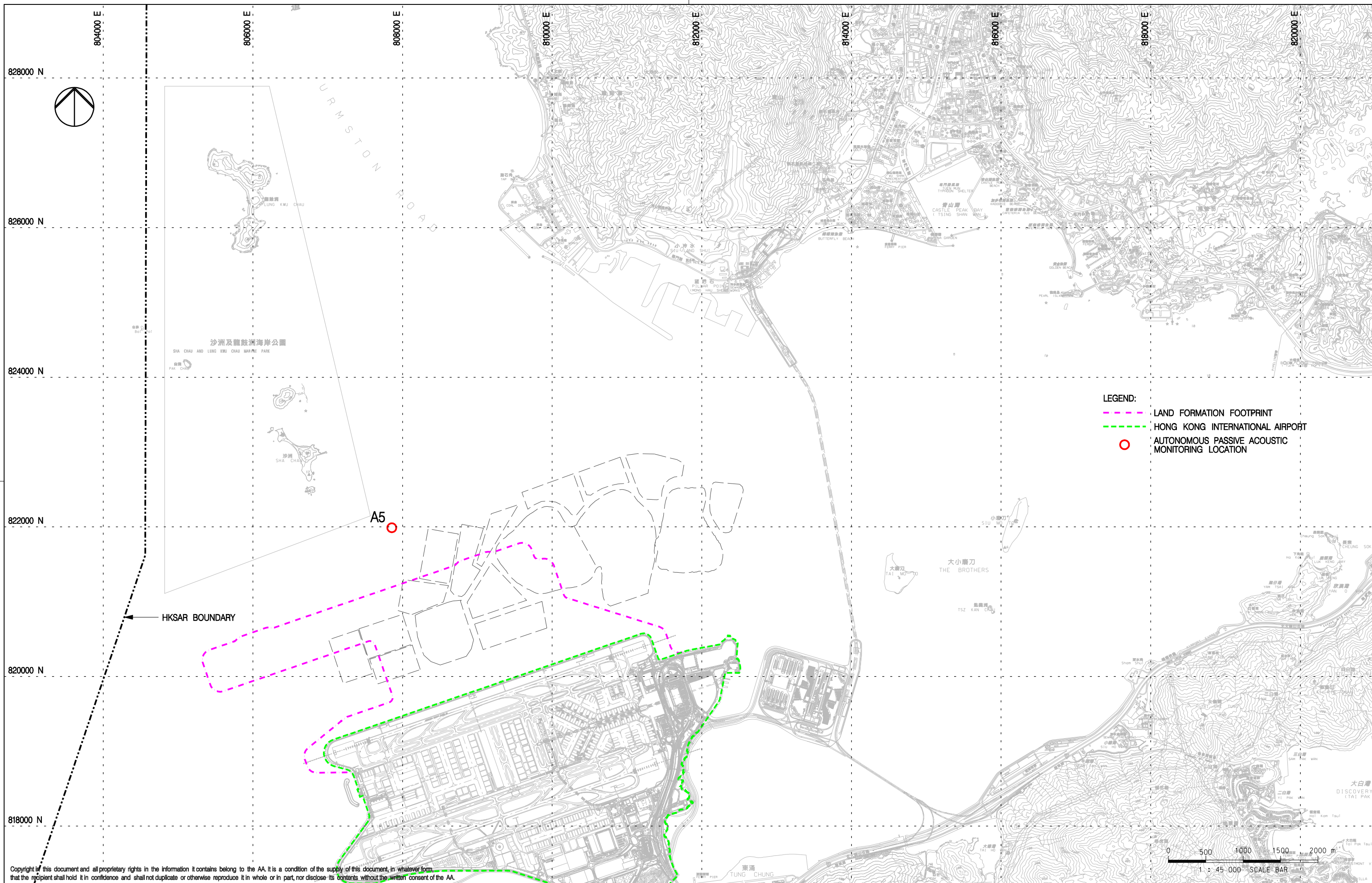
Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	JC
B	06FEB17	GENERAL REVISION	JC



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**



Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	JC
B	06FEB17	GENERAL REVISION	JC



Title
LOCATIONS FOR AUTONOMOUS PASSIVE ACOUSTIC 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 6.5
Scale at A3	1 : 45000
Rev.	B

Appendix A. Contract Description

Contract Description

Contract No.	Contract Title	Contractor	Key Construction Activities
P560 (R)	Aviation Fuel Pipeline Diversion Works	Langfang Huayuan Mechanical and Electrical Engineering Co., Ltd.	Diversion of the existing submarine aviation fuel pipelines will use a horizontal directional drilling (HDD) method forming two rock drill holes by drilling through bedrock from a launching site located at the west of the airport island to a daylighting point adjacent to the offshore receiving platform at Sha Chau. Two new pipelines will be installed through the drilled tunnels. The total length is approximately 5 km. Drilling works will proceed from the HDD launching site at the airport island.
3201	Deep Cement Mixing (Package 1)	Penta-Ocean-China State-Dong-Ah Joint Venture	<p>The works covered by the Contract 3201, 3202, 3203 and 3204 comprise ground improvement of seabed using Deep Cement Mixing (DCM) method, the major construction activities including without limitation the following</p> <ul style="list-style-type: none"> • Geophysical surveys; • Supply and placing of geotextile and sand blanket under seawalls; • Supply, maintenance, installation and removal of silt curtain systems; • Preliminary construction trails; • Supply and installation of DCM clusters within the works areas; and • Coring, sampling and testing of DCM treated soils and reporting works.
3202	Deep Cement Mixing (Package 2)	Samsung-BuildKing Joint Venture	
3203	Deep Cement Mixing (Package 3)	Sambo E&C Co.,Ltd	
3204	Deep Cement Mixing (Package 4)	CRBC-SAMBO Joint Venture	
3205	Deep Cement Mixing (Package 5)	Bachy Soletanche- Sambo Joint Venture	

3206	Reclamation Contract	ZHEC-CCCC-CDC Joint Venture	<p>The works covered by the Contract 3206 comprise the formation of approximately 650 hectares of land north of the existing airport island for the project, the major construction activities including without limitation the following</p> <ul style="list-style-type: none"> • Site clearance and demolition; • Geotechnical and ground improvement works; • Seawall construction; • Marine and land filling works; and • Civil works.
3212	11 kV Submarine Cable Diversion	Hong Kong Marine Contractors Limited	<p>The works covered by the Contract 3212 comprise the submarine cable diversion, the major construction activities including without limitation the following</p> <ul style="list-style-type: none"> • Forming a marine approach trench; • Conduct a diver survey; • Laying and burying the new 11kV submarine cable; and • Post-Laid Burial (PLB) and protection operations.
3213	CLP Cable Diversion Enabling Works	Wing Hing Construction Company	<p>CLP cable diversion enabling works of Sha Chau South, Sheung Sha Chau and Lung Kwu Chau at Hong Kong International Airport Landside. The major construction activities including without limitation the following:</p> <ul style="list-style-type: none"> • Geotechnical instrumentation and monitoring of the Works; • Temporary removal of armour rock and underlayers of existing seawall and subsequent reinstatement to its original condition; • Construction of the concrete cable trough embedded at about 3m below the surface of the existing seawall; and • Supply, installation, maintenance, and subsequent removal of temporary generator sets for temporary power supply with associated fuel supply and pump system located at Sheung Sha Chau, Sha Chau South and Lung Kwu Chau Islands.

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

Appendix B 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 <ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding 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 <ul style="list-style-type: none"> ▪ 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 <ul style="list-style-type: none"> ▪ 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 <ul style="list-style-type: none"> ▪ 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 <ul style="list-style-type: none"> ▪ 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 <ul style="list-style-type: none"> ▪ 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 <ul style="list-style-type: none"> ▪ 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?^
			<ul style="list-style-type: none"> ▪ 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. 		
			<p>Other raw materials</p> <ul style="list-style-type: none"> ▪ 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; 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	<p>N/A</p>

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> 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. 		
			<p>Loading of materials for batching</p> <ul style="list-style-type: none"> Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented: <ol style="list-style-type: none"> 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 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
			<p>Vehicles</p> <ul style="list-style-type: none"> 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
			<p>Housekeeping</p> <ul style="list-style-type: none"> 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	-	<p>Best Practices for Asphaltic Concrete Plant</p> <p>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:</p> <p>Design of Chimney</p> <ul style="list-style-type: none"> 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?^
			<ul style="list-style-type: none"> ▪ 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. 		
			<p>Cold feed side</p> <ul style="list-style-type: none"> ▪ 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. 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	<p>N/A</p>
			<p>Hot feed side</p> <ul style="list-style-type: none"> ▪ 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; 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	<p>N/A</p>

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> ▪ 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). 		
			<p>Material transportation</p> <ul style="list-style-type: none"> ▪ 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
			<p>Control of emissions from bitumen decanting</p> <ul style="list-style-type: none"> ▪ 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 <p>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.</p>	Within Concrete Batching Plant / Duration of the construction phase	N/A
			<p>Liquid fuel</p> <ul style="list-style-type: none"> ▪ 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
			<p>Housekeeping</p> <ul style="list-style-type: none"> ▪ 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	-	<p>Best Practices for Rock Crushing Plants</p> <p>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:</p>	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?^
			<p>Crushers</p> <ul style="list-style-type: none"> ▪ 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. 		
			<p>Vibratory screens and grizzlies</p> <ul style="list-style-type: none"> ▪ 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. 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	<p>N/A</p>
			<p>Belt conveyors</p> <ul style="list-style-type: none"> ▪ 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. 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	<p>N/A</p>

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<p>Storage piles and bins</p> <ul style="list-style-type: none"> 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
			<p>Rock drilling equipment</p> <ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> Precautionary measures should be established to request barges to move away during typhoons. 	Construction Site / Construction Period	I
Table 6.40	3.2	-	<ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> Location of all existing hydrant networks should be clearly identified prior to any construction works. 	Construction Site / Construction Period	N/A
Noise Impact – Construction Phase					
7.5.6	4.3	-	<p>Good Site Practice</p> <p>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:</p> <ul style="list-style-type: none"> 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?^
			<ul style="list-style-type: none"> ▪ 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	-	<p>Adoption of QPME</p> <ul style="list-style-type: none"> ▪ 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	-	<p>Use of Movable Noise Barriers</p> <ul style="list-style-type: none"> ▪ 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	-	<p>Use of Noise Enclosure/ Acoustic Shed</p> <ul style="list-style-type: none"> ▪ 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	<p>Marine Construction Activities</p> <p><u>General Measures to be Applied to All Works Areas</u></p> <ul style="list-style-type: none"> ▪ 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
			<p><u>Specific Measures to be Applied to All Works Areas</u></p> <ul style="list-style-type: none"> ▪ 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
			<ul style="list-style-type: none"> ▪ 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
			<ul style="list-style-type: none"> ▪ 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)
			<ul style="list-style-type: none"> ▪ 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?^
			<p><u>Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works</u></p> <ul style="list-style-type: none"> ▪ 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; ▪ 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 	<p>Within construction site / Duration of the construction phase</p>	<p>NA *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p> <p>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)</p>
			<ul style="list-style-type: none"> ▪ The silt curtains and silt screens should be regularly checked and maintained. 		<p>I</p>
			<p><u>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</u></p> <ul style="list-style-type: none"> ▪ 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; ▪ Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities; ▪ 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 	<p>Within construction site / Duration of the construction phase</p>	<p>N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p> <p>N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p> <p>N/A *(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> ▪ The silt curtains and silt screens should be regularly checked and maintained. 		<p>N/A</p>

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<p><u>Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion</u></p> <ul style="list-style-type: none"> 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	-	<p>Modification of the Existing Seawall</p> <ul style="list-style-type: none"> 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	-	<p>Construction of New Stormwater Outfalls and Modifications to Existing Outfalls</p> <ul style="list-style-type: none"> 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	<p>Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons</p> <p>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.</p> <p><u>For construction of the eastern approach lights at the CMPs</u></p> <ul style="list-style-type: none"> 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	-	<p>Construction of Site Runoff and Drainage</p> <p>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:</p> <ul style="list-style-type: none"> 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?^
			<p>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);</p> <hr/> <ul style="list-style-type: none"> ▪ 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; <hr/> <ul style="list-style-type: none"> ▪ 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; <hr/> <ul style="list-style-type: none"> ▪ 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; <hr/> <ul style="list-style-type: none"> ▪ 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 <hr/> <ul style="list-style-type: none"> ▪ 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	-	<p>Sewage Effluent from Construction Workforce</p> <ul style="list-style-type: none"> ▪ 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		<p>General Construction Activities</p> <ul style="list-style-type: none"> ▪ 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?^
8.8.1.12 8.8.1.13	5.1	2.28	<ul style="list-style-type: none"> ▪ 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. <p>Drilling Activities for the Submarine Aviation Fuel Pipelines</p> <p>To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:</p> <ul style="list-style-type: none"> ▪ 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
			<p>At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:</p> <ul style="list-style-type: none"> ▪ 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	-	<p>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:</p> <ul style="list-style-type: none"> ▪ 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; ▪ 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; ▪ 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; ▪ 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 	Project Site Area / During design and construction phase	I I I N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> ▪ 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	-	<p>The following good site practices should be performed during the construction activities include:</p> <ul style="list-style-type: none"> ▪ 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	-	<p>The following practices should be performed to achieve waste reduction include:</p> <ul style="list-style-type: none"> ▪ 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?^
			<ul style="list-style-type: none"> ▪ 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		<ul style="list-style-type: none"> ▪ 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	-	<ul style="list-style-type: none"> ▪ 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	-	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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	-	<p>The following mitigation measures are recommended during excavation and treatment of the sediments:</p> <ul style="list-style-type: none"> ▪ 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	-	<p>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</p>	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?^
			<p>followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:</p> <ul style="list-style-type: none"> 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	-	<p>Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:</p> <ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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	<p>For areas inaccessible during site reconnaissance survey</p> <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 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?^
			<ul style="list-style-type: none"> After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room. 		N/A
			<ul style="list-style-type: none"> 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	-	<p>If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):</p> <ul style="list-style-type: none"> 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	<p>Pre-construction Egretty Survey</p> <ul style="list-style-type: none"> Conduct ecological survey for Sha Chau egretty to update the latest boundary of the egretty. 	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 Egret <ul style="list-style-type: none"> The daylighting location will avoid direct encroachment to the Sheung Sha Chau egret. The daylighting location and mooring of flat top barge, if required, will be kept away from the egret; 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	
12.7.2.5	9.1	2.30	Preservation of Nesting Vegetation <ul style="list-style-type: none"> 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	
12.7.2.4 and 12.7.2.6	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season <ul style="list-style-type: none"> 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	
12.10.1.1	9.3	-	Ecological Monitoring <ul style="list-style-type: none"> 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	
Marine Ecological Impact – Pre-construction Phase					
13.11.4.1	10.2.2	-	<ul style="list-style-type: none"> Pre-construction phase Coral Dive Survey. 	HKIAAA artificial seawall	
Marine Ecological Impact – Construction Phase					
13.11.1.3 to 13.11.1.6	-	-	Minimisation of Land Formation Area <ul style="list-style-type: none"> 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	
13.11.1.7 to 13.11.1.10	-	2.31	Use of Construction Methods with Minimal Risk/Disturbance <ul style="list-style-type: none"> Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 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; 	During construction phase at marine works area	

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; 		N/A
			<ul style="list-style-type: none"> Avoid bored piling during CWD peak calving season (Mar to Jun); 		
			<ul style="list-style-type: none"> Prohibition of underwater percussive piling; and 		
			<ul style="list-style-type: none"> 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. 		
13.11.2.1 to 13.11.2.7	-	-	<p>Mitigation for Indirect Disturbance due to Deterioration of Water Quality</p> <ul style="list-style-type: none"> Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 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); Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and <p>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.</p>	All works area during the construction phase	
					N/A
13.11.1.12	-	-	<p>Strict Enforcement of No-Dumping Policy</p> <ul style="list-style-type: none"> 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-dumping 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	
13.11.1.13	-	-	<p>Good Construction Site Practices</p> <ul style="list-style-type: none"> 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	
13.11.1.3 to 13.11.1.6	-	-	<p>Minimisation of Land Formation Area</p> <ul style="list-style-type: none"> 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	

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.5.4 to 13.11.5.13	10.3.1	-	<p>SkyPier High Speed Ferries' Speed Restrictions and Route Diversions</p> <ul style="list-style-type: none"> 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. <p>Other mitigation measures</p> <ul style="list-style-type: none"> 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. 	to completion of construction Area between the footprint and SCLKC Marine Park during construction phase	
13.11.5.14 to 13.11.5.18	10.3.1	2.31	<p>Dolphin Exclusion Zone</p> <ul style="list-style-type: none"> Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; 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 A DEZ would also be implemented during bored piling work but as a precautionary measure only. 	Marine waters around land formation works area during construction phase	 N/A
13.11.5.19	10.4	2.31	<p>Acoustic Decoupling of Construction Equipment</p> <ul style="list-style-type: none"> 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	
13.11.5.20	10.6.1	2.29	<p>Spill Response Plan</p> <ul style="list-style-type: none"> 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	

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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 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; Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 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. 	During construction phase at marine works area	I I N/A I
14.9.1.11	-	-	Strict Enforcement of No-Dumping Policy <ul style="list-style-type: none"> 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-dumping 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 <ul style="list-style-type: none"> 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?^
			<ul style="list-style-type: none"> ▪ 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	-		<p>Mitigation for Indirect Disturbance due to Deterioration of Water Quality</p> <ul style="list-style-type: none"> ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; ▪ 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); ▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and ▪ 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. 	All works area during the construction phase	
					N/A
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.	
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.	
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.	
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.	
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. –	

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

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



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

Notes:

I= implemented where applicable;

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

^ Checked by ET during site inspection

Appendix C. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Mar-17

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Site Inspection NM1A/AR1A NM4	2 Site Inspection NM5/AR2 NM3A WQ General & Regular DCM mid-ebb: 15:34 mid-flood: 09:24	3	4 WQ General & Regular DCM mid-ebb: 17:18 mid-flood: 10:35
5	6 CWD Vessel Survey NM6	7 Site Inspection NM1A/AR1A NM4 WQ General & Regular DCM mid-ebb: 08:53 mid-flood: 13:59	8 Site Inspection NM5/AR2 NM3A	9 Site Inspection WQ General & Regular DCM mid-ebb: 11:19 mid-flood: 16:32	10 CWD Vessel Survey	11 WQ General & Regular DCM mid-ebb: 12:40 mid-flood: 06:59
12	13 CWD Vessel Survey NM1A/AR1A NM4	14 Site Inspection CWD Vessel Survey NM5/AR2 NM3A	15 Site Inspection WQ General & Regular DCM mid-ebb: 14:38 mid-flood: 08:40	16 Site Inspection NM6	17 Site Inspection AR1A Ecological Monitoring WQ General & Regular DCM mid-ebb: 15:46 mid-flood: 09:29	18
19 WQ General & Regular DCM mid-ebb: 17:16 mid-flood: 10:27	20 CWD Vessel Survey CWD Land-based Survey NM5/AR2 NM3A NM6	21 Site Inspection CWD Vessel Survey CWD Land-based Survey WQ General & Regular DCM mid-ebb: 19:45 mid-flood: 06:55	22 Site Inspection	23 Site Inspection CWD Vessel Survey NM1A/AR1A NM4 WQ General Monitoring mid-ebb: 10:25 mid-flood: 15:02	24 CWD Vessel Survey CWD Land-based Survey AR2	25 WQ General Monitoring mid-ebb: 16:27 mid-flood: 09:57
26	27 Site Inspection	28 Site Inspection CWD Land-based Survey NM6 WQ General Monitoring mid-ebb: 13:18 mid-flood: 07:17	29 CWD Land-based Survey NM1A/AR1A NM4	30 Site Inspection NM5/AR2 NM3A WQ General Monitoring mid-ebb: 14:32 mid-flood: 08:15	31 Site Inspection	
Notes: Air quality and Noise Monitoring Station CWD - Chinese White Dolphin WQ - Water Quality DCM - Deep Cement Mixing * Rescheduled due to adverse weather ^ Cancelled due to adverse weather						

Tentative Monitoring Schedule of Next Reporting Period

Apr-17

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 WQ General & Regular DCM mid-ebb: 16:04 mid-flood: 09:23
2	3 NM1A/AR1A NM4	4 WQ General & Regular DCM mid-ebb: 06:55 mid-flood: 11:58	5 Site Inspection CWD Vessel Survey NM5/AR2 NM3A	6 Site Inspection CWD Land-based Survey NM6	7 Site Inspection CWD Land-based Survey AR1A	8 WQ General & Regular DCM mid-ebb: 11:47 mid-flood: 17:24
9	10 CWD Vessel Survey NM5/AR2 NM3A	11 Site Inspection CWD Vessel Survey NM6	12 CWD Vessel Survey NM1A/AR1A NM4	13 Site Inspection CWD Land-based Survey AR2	14	15 WQ General & Regular DCM mid-ebb: 15:19 mid-flood: 08:47
16	17	18 Site Inspection CWD Vessel Survey NM1A/AR1A NM4 NM6	19 CWD Vessel Survey NM5/AR2 NM3A	20 Site Inspection CWD Vessel Survey	21 Site Inspection CWD Land-based Survey	22 WQ General & Regular DCM mid-ebb: 10:34 mid-flood: 15:43
23	24 CWD Vessel Survey CWD Land-based Survey NM1A/AR1A NM4 NM6	25 Site Inspection NM5/AR2 NM3A	26	27 Site Inspection AR1A	28 Site Inspection AR2	29 WQ General & Regular DCM mid-ebb: 15:02 mid-flood: 08:18
30		Notes: Air quality and Noise Monitoring Station CWD - Chinese White Dolphin WQ - Water Quality DCM - Deep Cement Mixing * Rescheduled due to adverse weather ^ Cancelled due to adverse weather				

Appendix D. Monitoring Results

Air Quality Monitoring Results

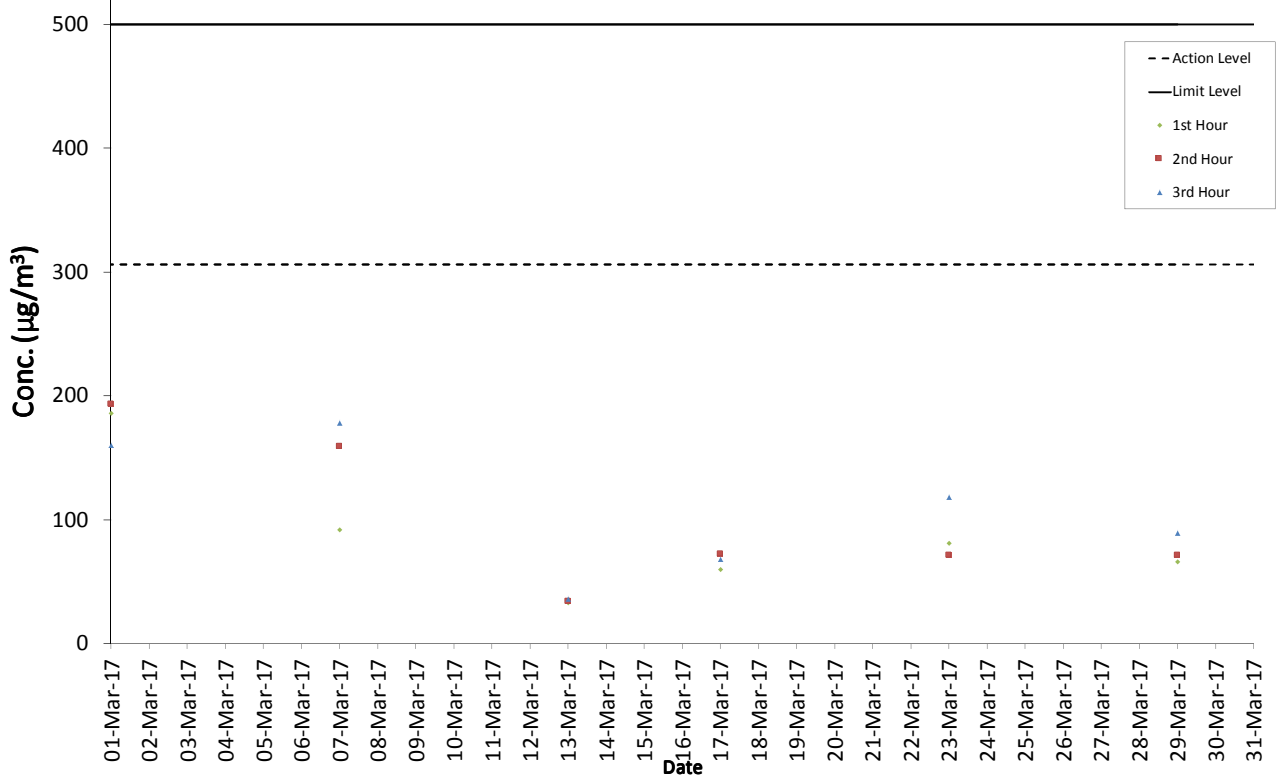
1-hour TSP Results**Station: AR1A- Man Tung Road Park**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
01-Mar-17	14:10	Fine	4.2	305	186	306	500
01-Mar-17	15:10	Fine	5.9	306	193	306	500
01-Mar-17	16:10	Fine	3.3	321	160	306	500
07-Mar-17	14:10	Cloudy	4.6	329	92	306	500
07-Mar-17	15:10	Cloudy	3.8	335	159	306	500
07-Mar-17	16:10	Cloudy	3.0	70	178	306	500
13-Mar-17	14:05	Fine	4.3	164	33	306	500
13-Mar-17	15:05	Fine	5	156	34	306	500
13-Mar-17	16:05	Fine	4.8	163	36	306	500
17-Mar-17	13:00	Cloudy	6.6	78	60	306	500
17-Mar-17	14:00	Cloudy	5.9	85	72	306	500
17-Mar-17	15:00	Cloudy	6.6	94	68	306	500
23-Mar-17	09:14	Cloudy	3.2	95	81	306	500
23-Mar-17	10:14	Cloudy	3.1	267	71	306	500
23-Mar-17	11:14	Cloudy	3.9	262	118	306	500
29-Mar-17	14:25	Fine	8.8	91	66	306	500
29-Mar-17	15:25	Fine	7.1	82	71	306	500
29-Mar-17	16:25	Fine	7.3	89	89	306	500

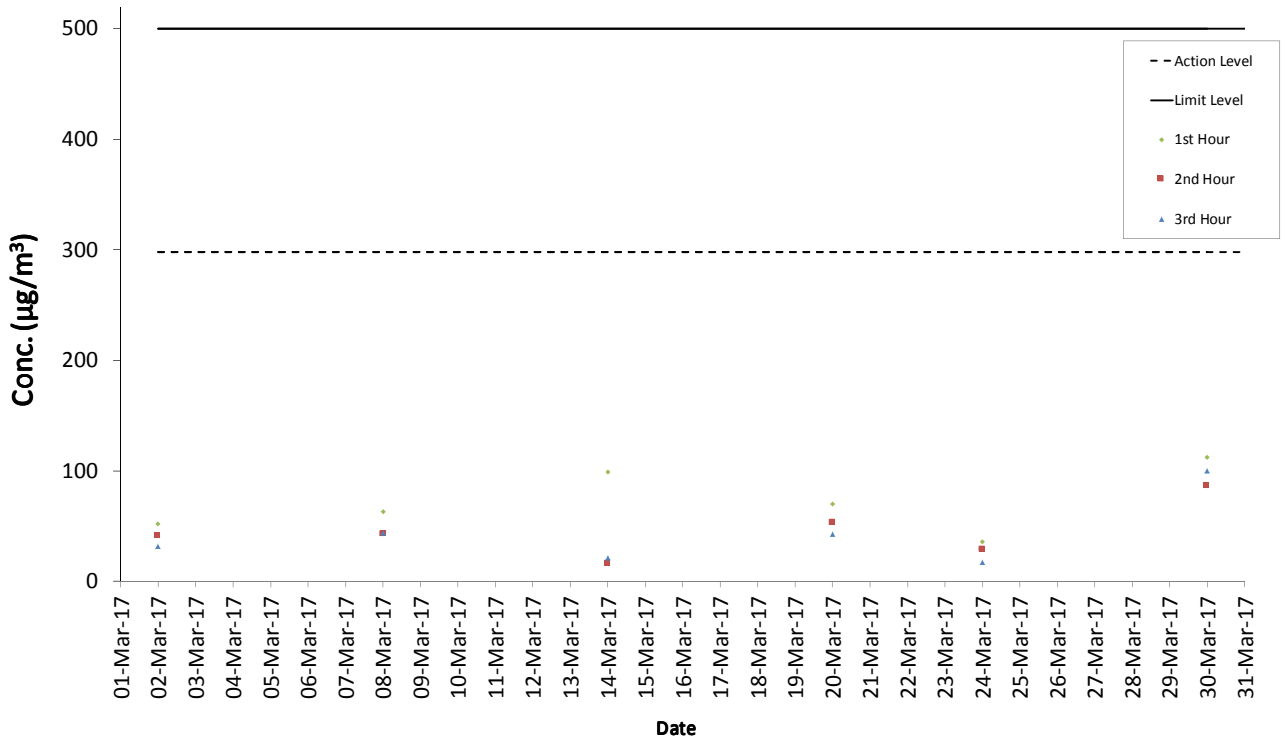
1-hour TSP Results**Station: AR2- Village House, Tin Sum**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
02-Mar-17	09:00	Sunny	7.1	60	52	298	500
02-Mar-17	10:00	Sunny	5.0	48	41	298	500
02-Mar-17	11:00	Sunny	6.6	55	32	298	500
08-Mar-17	09:05	Cloudy	5.0	58	63	298	500
08-Mar-17	10:05	Cloudy	4.3	56	43	298	500
08-Mar-17	11:05	Cloudy	4.9	58	44	298	500
14-Mar-17	09:10	Drizzle	10.6	108	99	298	500
14-Mar-17	10:10	Drizzle	8.6	108	16	298	500
14-Mar-17	11:10	Drizzle	8.2	111	21	298	500
20-Mar-17	9:08	Sunny	5.8	65	70	298	500
20-Mar-17	10:08	Sunny	4.9	54	53	298	500
20-Mar-17	11:08	Sunny	4.9	56	43	298	500
24-Mar-17	09:00	Sunny	8.8	92	36	298	500
24-Mar-17	10:00	Sunny	9.9	87	29	298	500
24-Mar-17	11:00	Sunny	9.0	84	17	298	500
30-Mar-17	08:50	Fine	9.8	93	112	298	500
30-Mar-17	09:50	Fine	8.3	92	86	298	500
30-Mar-17	10:50	Fine	9.0	101	100	298	500

AR1A 1-Hour TSP



AR2 1-Hour TSP



Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
01-Mar-17	Fine	14:25	71.0	56.5	71
01-Mar-17	Fine	14:30	71.0	57.0	
01-Mar-17	Fine	14:35	71.0	58.0	
01-Mar-17	Fine	14:40	70.5	56.5	
01-Mar-17	Fine	14:45	73.0	56.0	
01-Mar-17	Fine	14:50	71.5	55.5	71
07-Mar-17	Fine	14:40	72.0	54.0	
07-Mar-17	Fine	14:45	72.0	54.0	
07-Mar-17	Fine	14:50	71.0	54.0	
07-Mar-17	Fine	14:55	72.0	54.0	
07-Mar-17	Fine	15:00	72.0	54.0	
07-Mar-17	Fine	15:05	72.5	54.5	71
13-Mar-17	Fine	14:18	70.5	53.5	
13-Mar-17	Fine	14:23	70.5	53.0	
13-Mar-17	Fine	14:28	74.0	54.5	
13-Mar-17	Fine	14:33	71.0	53.5	
13-Mar-17	Fine	14:38	71.0	55.0	71
13-Mar-17	Fine	14:43	72.0	54.0	
23-Mar-17	Cloudy	09:35	72.0	57.5	
23-Mar-17	Cloudy	09:40	72.0	57.0	
23-Mar-17	Cloudy	09:45	72.5	57.5	
23-Mar-17	Cloudy	09:50	71.5	54.0	
23-Mar-17	Cloudy	09:55	68.5	53.0	71
23-Mar-17	Cloudy	10:00	72.0	54.0	
29-Mar-17	Fine	15:14	70.5	54.5	
29-Mar-17	Fine	15:19	73.0	54.0	
29-Mar-17	Fine	15:24	74.0	54.0	
29-Mar-17	Fine	15:29	73.5	56.0	73
29-Mar-17	Fine	15:34	73.5	57.5	
29-Mar-17	Fine	15:39	74.0	54.5	

Remarks:

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

Noise Measurement Results

Station: NM3A- Site Office

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
02-Mar-17	Sunny	14:15	65.5	57.5	63
02-Mar-17	Sunny	14:20	64.0	58.0	
02-Mar-17	Sunny	14:25	69.5	58.0	
02-Mar-17	Sunny	14:30	67.5	58.0	
02-Mar-17	Sunny	14:35	65.5	58.5	
02-Mar-17	Sunny	14:40	66.5	58.0	61
08-Mar-17	Cloudy	13:45	73.0	59.5	
08-Mar-17	Cloudy	13:50	67.0	58.0	
08-Mar-17	Cloudy	13:55	69.0	56.5	
08-Mar-17	Cloudy	14:00	68.0	56.0	
08-Mar-17	Cloudy	14:05	63.5	57.0	
08-Mar-17	Cloudy	14:10	69.5	57.0	63
14-Mar-17	Cloudy	14:55	62.5	56.0	
14-Mar-17	Cloudy	15:00	68.0	55.5	
14-Mar-17	Cloudy	15:05	68.0	56.0	
14-Mar-17	Cloudy	15:10	65.0	55.0	
14-Mar-17	Cloudy	15:15	69.5	55.5	61
14-Mar-17	Cloudy	15:20	68.0	56.0	
20-Mar-17	Sunny	14:45	63.0	59.5	
20-Mar-17	Sunny	14:50	61.5	59.5	
20-Mar-17	Sunny	14:55	63.5	60.0	
20-Mar-17	Sunny	15:00	63.5	60.0	
20-Mar-17	Sunny	15:05	61.5	59.0	57
20-Mar-17	Sunny	15:10	60.5	59.0	
30-Mar-17	Fine	13:16	69.0	58.0	
30-Mar-17	Fine	13:21	67.0	58.0	
30-Mar-17	Fine	13:26	67.0	58.0	
30-Mar-17	Fine	13:31	67.0	57.5	
30-Mar-17	Fine	13:36	68.5	59.0	
30-Mar-17	Fine	13:41	69.5	58.0	

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Won Primary School

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
01-Mar-17	Fine	13:34	63.5	60.0	60
01-Mar-17	Fine	13:39	65.5	60.0	
01-Mar-17	Fine	13:44	67.5	61.5	
01-Mar-17	Fine	13:49	65.5	60.0	
01-Mar-17	Fine	13:54	65.0	59.5	
01-Mar-17	Fine	13:59	68.5	57.5	
07-Mar-17	Cloudy	13:23	65.5	59.0	65
07-Mar-17	Cloudy	13:28	63.0	59.5	
07-Mar-17	Cloudy	13:33	62.5	59.0	
07-Mar-17	Cloudy	13:38	64.5	59.0	
07-Mar-17	Cloudy	13:43	64.0	59.5	
07-Mar-17	Cloudy	13:48	64.0	59.5	
13-Mar-17	Fine	13:15	69.5	65.0	66
13-Mar-17	Fine	13:20	64.5	59.0	
13-Mar-17	Fine	13:25	62.5	58.0	
13-Mar-17	Fine	13:30	63.0	58.0	
13-Mar-17	Fine	13:35	63.0	59.0	
13-Mar-17	Fine	13:40	65.0	59.0	
23-Mar-17	Cloudy	10:50	65.5	58.5	66
23-Mar-17	Cloudy	10:55	64.0	59.0	
23-Mar-17	Cloudy	11:00	65.0	59.0	
23-Mar-17	Cloudy	11:05	65.5	60.0	
23-Mar-17	Cloudy	11:10	65.0	59.5	
23-Mar-17	Cloudy	11:15	66.5	59.5	
29-Mar-17	Fine	11:15	62.5	58.0	65
29-Mar-17	Fine	11:20	62.5	58.5	
29-Mar-17	Fine	11:25	63.5	58.5	
29-Mar-17	Fine	11:30	64.0	58.5	
29-Mar-17	Fine	11:35	67.0	59.5	
29-Mar-17	Fine	11:40	64.0	58.5	

Remarks:

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

The examination period at NM4 was from 27 to 31 March 2017.

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
02-Mar-17	Sunny	09:20	58.0	52.5	53
02-Mar-17	Sunny	09:25	62.5	52.5	
02-Mar-17	Sunny	09:30	56.5	50.5	
02-Mar-17	Sunny	09:35	62.0	51.0	
02-Mar-17	Sunny	09:40	58.0	52.0	
02-Mar-17	Sunny	09:45	60.0	52.0	
08-Mar-17	Cloudy	11:10	63.0	52.5	61
08-Mar-17	Cloudy	11:15	63.0	57.5	
08-Mar-17	Cloudy	11:20	63.0	54.0	
08-Mar-17	Cloudy	11:25	62.0	55.5	
08-Mar-17	Cloudy	11:30	61.5	49.5	
08-Mar-17	Cloudy	11:35	59.5	48.5	
14-Mar-17	Cloudy	09:40	62.0	51.5	61
14-Mar-17	Cloudy	09:45	64.5	50.5	
14-Mar-17	Cloudy	09:50	66.0	51.0	
14-Mar-17	Cloudy	09:55	60.0	51.0	
14-Mar-17	Cloudy	10:00	59.5	51.0	
14-Mar-17	Cloudy	10:05	63.5	50.0	
20-Mar-17	Sunny	9:20	63.5	51.5	59
20-Mar-17	Sunny	09:25	62.0	52.0	
20-Mar-17	Sunny	09:30	60.5	52.5	
20-Mar-17	Sunny	09:35	58.0	51.5	
20-Mar-17	Sunny	09:40	57.5	49.5	
20-Mar-17	Sunny	09:45	55.0	48.5	
30-Mar-17	Fine	09:43	55.5	48.0	56
30-Mar-17	Fine	09:48	56.5	49.0	
30-Mar-17	Fine	09:53	54.5	49.5	
30-Mar-17	Fine	09:58	56.5	47.5	
30-Mar-17	Fine	10:03	55.0	48.0	
30-Mar-17	Fine	10:08	52.5	48.0	

Remarks:

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

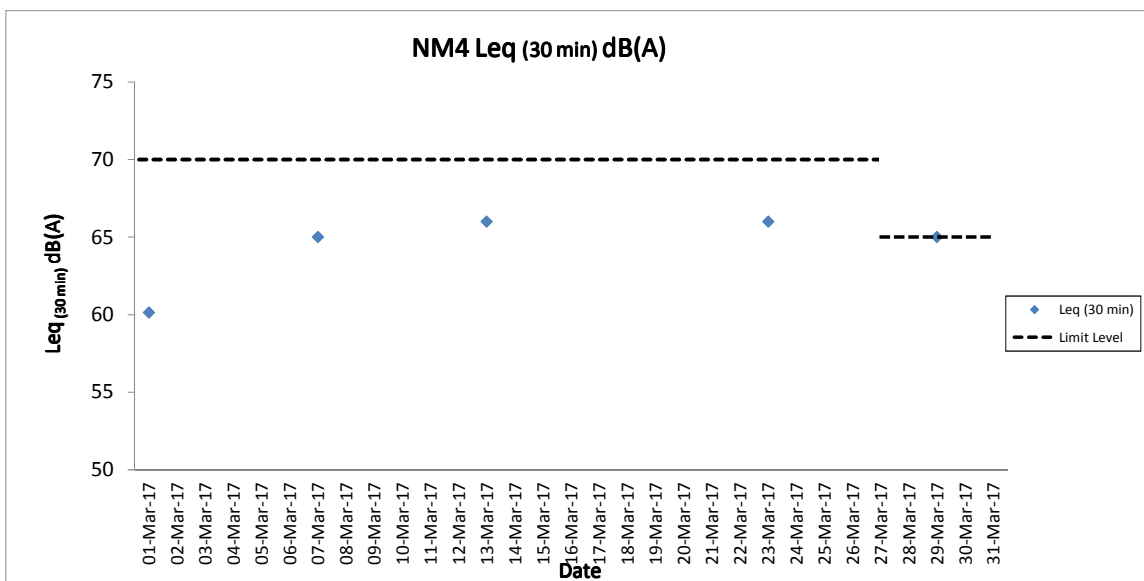
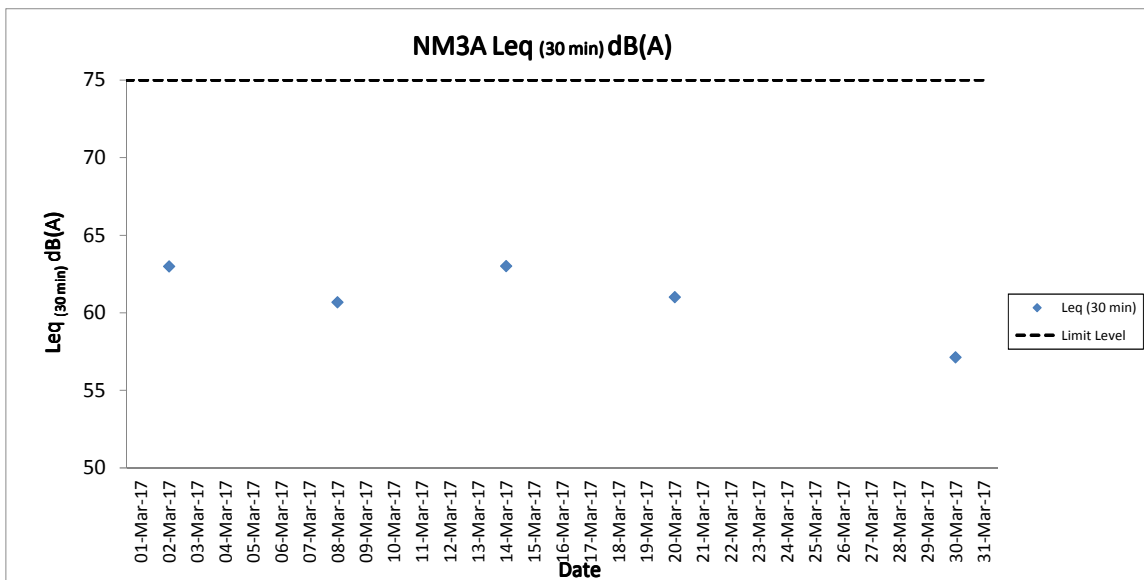
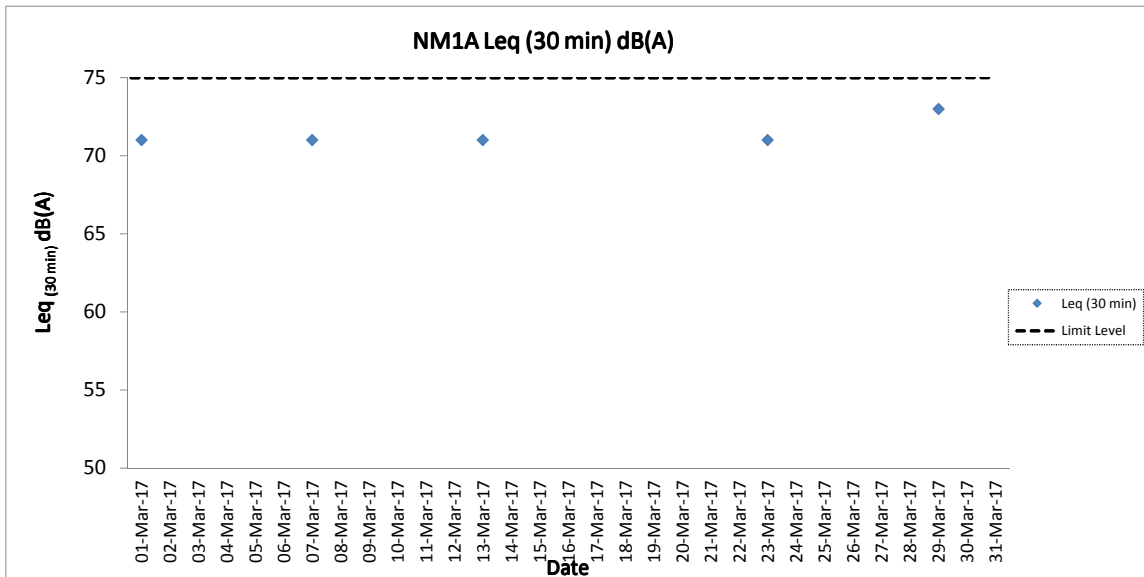
Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

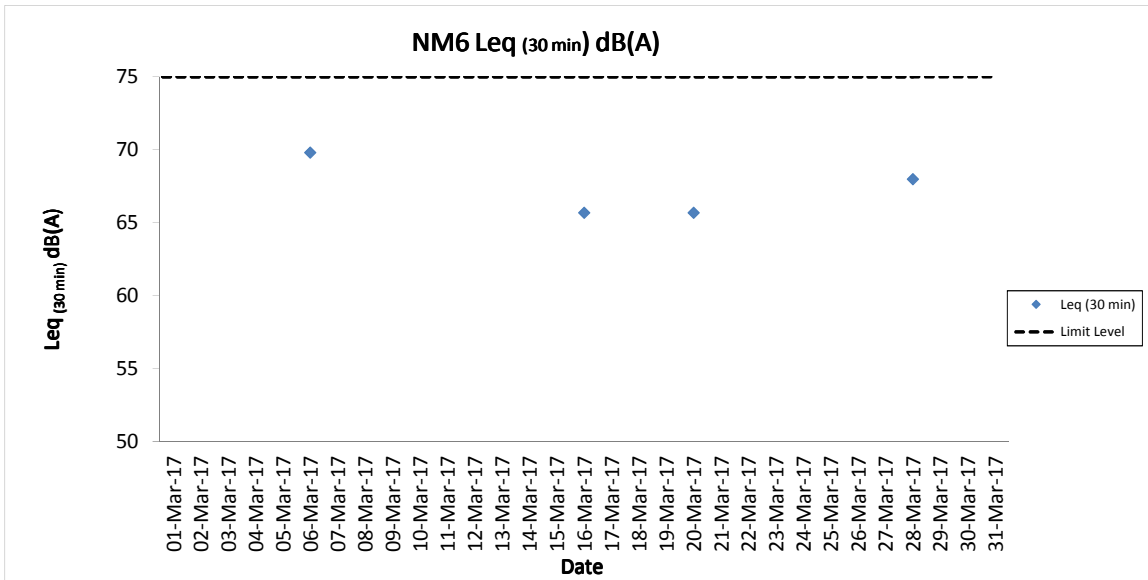
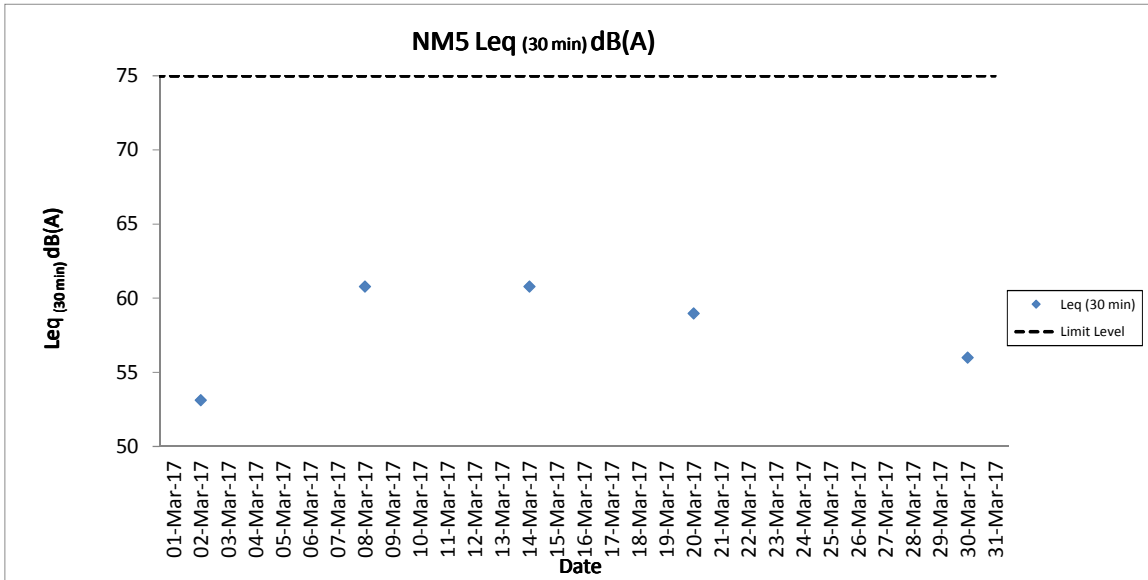
Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
06-Mar-17	Cloudy	09:38	72.0	61.5	70
06-Mar-17	Cloudy	09:43	71.0	63.0	
06-Mar-17	Cloudy	09:48	75.0	64.0	
06-Mar-17	Cloudy	09:53	73.0	63.5	
06-Mar-17	Cloudy	09:58	67.5	59.5	
06-Mar-17	Cloudy	10:03	71.0	60.5	
16-Mar-17	Cloudy	09:38	72.0	60.0	66
16-Mar-17	Cloudy	09:43	73.5	59.5	
16-Mar-17	Cloudy	09:48	71.0	61.0	
16-Mar-17	Cloudy	09:53	69.0	61.5	
16-Mar-17	Cloudy	09:58	66.5	62.0	
16-Mar-17	Cloudy	10:03	69.5	60.0	
20-Mar-17	Sunny	9:41	74.0	57.0	66
20-Mar-17	Sunny	09:46	69.0	56.5	
20-Mar-17	Sunny	09:51	68.5	55.5	
20-Mar-17	Sunny	09:56	75.0	55.5	
20-Mar-17	Sunny	10:01	71.0	54.5	
20-Mar-17	Sunny	10:06	66.0	52.5	
28-Mar-17	Sunny	09:38	68.5	54.5	68
28-Mar-17	Sunny	09:43	75.0	56.5	
28-Mar-17	Sunny	09:48	68.5	55.5	
28-Mar-17	Sunny	09:53	71.0	56.0	
28-Mar-17	Sunny	09:58	72.0	55.5	
28-Mar-17	Sunny	10:03	71.0	55.5	

Remarks:

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



Note: The examination period at NM4 was from 27 March to 31 March.



Water Quality Monitoring Results

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Rough	09:27	8.2	Surface	1.0	0.9	116	14.9	7.8	7.8	32.7	32.7	96.9	96.9	8.0	8.0	37.8	8.0	45	78	80	80	815623	804265	<0.2	<0.2	1.1	1.1	
						1.0	1.0	119	14.9	7.8	7.8	32.7	32.7	96.9	96.9	8.0	8.0	37.8	8.0	49	79	80	80	80	80	<0.2	<0.2	1.2	1.2	
						4.1	1.0	94	14.9	7.8	7.8	32.7	32.7	96.8	96.8	8.0	8.0	39.5	8.0	55	80	80	80	80	80	<0.2	<0.2	1.1	1.1	
					Middle	4.1	1.0	97	14.9	7.8	7.8	32.7	32.7	96.8	96.8	8.0	8.0	39.6	8.0	59	80	80	80	80	80	<0.2	<0.2	1.1	1.1	
						7.2	1.0	96	14.9	7.8	7.8	32.7	32.7	97.0	97.0	8.0	8.0	66.2	8.0	72	81	81	81	81	81	<0.2	<0.2	1.6	1.6	
						7.2	1.1	103	14.9	7.8	7.8	32.7	32.7	97.0	97.0	8.0	8.0	66.2	8.0	67	81	81	81	81	81	<0.2	<0.2	1.4	1.4	
C2	Sunny	Moderate	11:00	12.6	Surface	1.0	0.9	193	17.7	7.9	7.9	27.4	27.4	94.0	94.0	7.6	7.6	17.6	20	76	81	81	81	825677	806961	<0.2	<0.2	1.7	1.7	
						1.0	1.0	209	17.7	7.9	7.9	27.4	27.4	94.0	94.0	7.6	7.6	17.6	18	77	81	81	81	81	81	<0.2	<0.2	1.7	1.7	
						6.3	0.9	193	17.6	7.9	7.9	27.6	27.6	93.4	93.4	7.6	7.6	22.7	27	81	81	81	81	81	81	<0.2	<0.2	1.6	1.6	
					Middle	6.3	0.9	206	17.6	7.9	7.9	27.6	27.6	93.4	93.4	7.6	7.6	22.7	26	82	82	82	82	82	82	<0.2	<0.2	1.6	1.6	
						11.6	0.8	138	17.6	7.9	7.9	27.8	27.8	93.4	93.4	7.5	7.5	29.0	27	83	83	83	83	83	83	<0.2	<0.2	1.5	1.5	
						11.6	0.8	145	17.6	7.9	7.9	27.8	27.8	93.4	93.4	7.5	7.5	29.0	27	84	84	84	84	84	84	<0.2	<0.2	1.3	1.3	
C3	Cloudy	Moderate	08:21	11.5	Surface	1.0	0.8	250	17.6	8.0	8.0	29.5	29.5	96.4	96.4	7.7	7.7	8.7	10	80	80	80	80	822095	817811	<0.2	<0.2	0.7	0.7	
						1.0	0.8	265	17.6	8.0	8.0	29.5	29.5	96.4	96.4	7.7	7.7	8.8	12	80	80	80	80	80	80	<0.2	<0.2	0.7	0.7	
						5.8	0.7	264	17.6	8.0	8.0	29.7	29.7	96.1	96.1	7.7	7.7	11.6	11	83	83	83	83	83	83	<0.2	<0.2	0.8	0.8	
					Middle	5.8	0.8	265	17.6	8.0	8.0	29.7	29.7	96.1	96.1	7.7	7.7	12.3	13	83	83	83	83	83	83	<0.2	<0.2	0.9	0.9	
						10.5	0.7	258	17.6	8.0	8.0	29.7	29.7	96.8	96.8	7.7	7.7	19.5	12	85	85	85	85	85	85	<0.2	<0.2	0.7	0.7	
						10.5	0.7	261	17.6	8.0	8.0	29.7	29.7	97.2	97.2	7.8	7.8	19.4	12	85	85	85	85	85	85	<0.2	<0.2	0.9	0.9	
IM1	Sunny	Rough	09:44	7.7	Surface	1.0	0.8	83	15.1	7.8	7.8	32.4	32.4	95.8	95.8	7.9	7.9	37.0	56	80	80	80	80	818357	806467	<0.2	<0.2	1.0	1.0	
						1.0	0.8	89	15.1	7.8	7.8	32.4	32.4	95.8	95.8	7.9	7.9	37.0	53	80	80	80	80	80	80	<0.2	<0.2	0.8	0.8	
						3.9	0.8	76	15.1	7.8	7.8	32.3	32.3	95.6	95.6	7.9	7.9	52.2	57	81	81	81	81	81	81	<0.2	<0.2	1.0	1.0	
					Middle	3.9	0.8	77	15.1	7.8	7.8	32.3	32.3	95.6	95.6	7.9	7.9	51.8	54	81	81	81	81	81	81	<0.2	<0.2	0.9	0.9	
						6.7	0.6	112	15.1	7.8	7.8	32.3	32.3	95.9	95.9	7.9	7.9	64.3	77	83	83	83	83	83	83	<0.2	<0.2	1.1	1.1	
						6.7	0.7	120	15.1	7.8	7.8	32.3	32.3	95.9	95.9	7.9	7.9	64.5	82	83	83	83	83	83	83	<0.2	<0.2	1.1	1.1	
IM2	Sunny	Rough	09:51	8.4	Surface	1.0	0.9	106	15.1	7.8	7.8	32.5	32.5	95.9	96.0	7.9	7.9	39.3	46	81	81	81	81	818860	806184	<0.2	<0.2	0.9	0.9	
						1.0	1.0	109	15.1	7.8	7.8	32.5	32.5	96.0	96.0	7.9	7.9	38.7	49	81	81	81	81	81	81	<0.2	<0.2	0.8	0.8	
						4.2	0.9	96	15.1	7.8	7.8	32.5	32.5	95.9	95.9	7.9	7.9	52.3	68	82	82	82	82	82	82	<0.2	<0.2	1.2	1.2	
					Middle	4.2	0.9	104	15.1	7.8	7.8	32.5	32.5	95.9	95.9	7.9	7.9	52.5	72	82	82	82	82	82	82	<0.2	<0.2	1.0	1.0	
						7.4	1.1	128	15.1	7.8	7.8	32.5	32.5	96.3	96.3	7.9	7.9	62.6	73	83	83	83	83	83	83	<0.2	<0.2	0.8	0.8	
						7.4	1.2	140	15.1	7.8	7.8	32.5	32.5	96.3	96.3	7.9	7.9	62.5	76	83	83	83	83	83	83	<0.2	<0.2	0.6	0.6	
IM3	Sunny	Rough	09:59	8.8	Surface	1.0	1.0	109	15.1	7.8	7.8	32.6	32.6	96.3	96.3	7.9	7.9	25.2	32	82	82	82	82	819403	806009	<0.2	<0.2	0.9	0.9	
						1.0	1.1	110	15.1	7.8	7.8	32.6	32.6	96.3	96.3	7.9	7.9	25.2	30	82	82	82	82	82	82	<0.2	<0.2	0.9	0.9	
						4.4	1.0	107	15.1	7.8	7.8	32.6	32.6	96.4	96.4	7.9	7.9	35.1	38	83	83	83	83	83	83	<0.2	<0.2	1.0	1.0	
					Middle	4.4	1.0	115	15.1	7.8	7.8	32.6	32.6	96.4	96.4	7.9	7.9	35.3	39	83	83	83	83	83	83	<0.2	<0.2	1.0	1.0	
						7.8	0.9	120	15.1	7.8	7.8	32.6	32.6	97.1	97.1	8.0	8.0	36.2	37	84	84	84	84	84	84	<0.2	<0.2	1.0	1.0	
						7.8	0.9	124	15.1	7.8	7.8	32.6	32.6	97.2	97.2	8.0	8.0	35.8	40	84	84	84	84	84	84	<0.2	<0.2	1.1	1.1	
IM4	Sunny	Rough	10:10	8.2	Surface	1.0	0.8	78	15.1	7.8	7.8	32.7	32.7	96.1	96.2	7.9	7.9	28.9	44	80	80	80	80	819568	805022	<0.2	<0.2	0.8	0.8	
						1.0	0.9	81	15.1	7.8	7.8	32.7	32.7	96.2	96.2	7.9	7.9	28.9	41	80	80	80	80	80	80	<0.2	<0.2	0.9	0.9	
						4.1	0.8	66	15.0	7.8	7.8	32.6	32.6	96.0	96.0	7.9	7.9	48.0	54	81	81	81	81	81	81	<0.2	<0.2	0.8	0.8	
					Middle	4.1	0.9	68	15.0	7.8	7.8	32.6	32.6	96.0	96.0	7.9	7.9	48.5	53	81	81	81	81	81	81	<0.2	<0.2	0.9	0.9	
						7.2	0.8	82	15.0	7.8	7.8	32.6	32.6	96.7	96.8	8.0	8.0	53.3	80	82	82	82	82	82	82	<0.2	<0.2	0.9	0.9	
						7.2	0.9	88	15.0	7.8	7.8	32.6	32.6	96.8	96.8	8.0	8.0	53.2	76	82	82	82	82	82	82	<0.2	<0.2	0.8	0.8	
IM5	Sunny	Rough	10:19	7.2	Surface	1.0	0.9	78	15.1	7.8	7.8	32.7	32.7	95.9	95.9	7.9	7.9	31.8	47	80	80	80	80	820575	804926	<0.2	<0.2	1.1	1.1	
						1.0	0.9	83	15.1	7.8	7.8	32.7	32.7	95.9	95.9	7.9	7.9	31.9	45	80	80	80	80	80	80	<0.2	<0.2	1.1	1.1	
						3.6	0.8	82	15.0	7.8	7.8	32.7	32.7	95.7	95.7	7.9	7.9	49.6	50	81	81	81	81	81	81	<0.2	<0.2	1.0	1.0	
					Middle	3.6	0.9	82	15.0	7.8	7.8	32.7	32.7	95.7	95.7	7.9	7.9	49.6	53	82	82	82	82	82	82	<0.2	<0.2	1.0	1.0	
						6.2	0.8	96	15.0	7.8	7.8	32.7	32.7	96.3	96.3	7.9	7.9	75.4	80	82	82	82	82	82	82	<0.2	<0.2	1.1	1.1	
						6.2	0.8	97	15.0	7.8	7.8	32.7	32.7	96.4	96.4	7.9	7.9	75.4	85	83	83	83	83	83	83	<0.2	<0.2	1.1	1.1	
IM6	Sunny	Rough	10:33	7.1	Surface	1.0	0.9	107	15.1	7.8	7.8	32.6	32.6	95.8	95.8	7.9	7.9	40.8	54	81	81									

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA		
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA		
IM9	Sunny	Moderate	10:19	7.5	Surface	1.0	0.8	207	17.7	8.0	8.0	28.5	28.5	94.5	94.5	7.6	7.6	19.0	7.6	17	77	77	81	822107	808798	<0.2	<0.2	1.5	1.5			
						1.0	0.8	211	17.7	8.0	8.0	28.5	28.5	94.5	94.5	7.6	7.6	19.0	7.6	18	78	78	81	822107	808798	<0.2	<0.2	1.5	1.5			
						3.8	0.8	214	17.7	8.0	8.0	28.6	28.6	94.6	94.6	7.6	7.6	24.4	7.6	24	82	82	81	822107	808798	<0.2	<0.2	1.4	1.4			
						3.8	0.8	217	17.7	8.0	8.0	28.6	28.6	94.6	94.6	7.6	7.6	24.3	7.6	22	82	82	81	822107	808798	<0.2	<0.2	1.4	1.4			
						6.5	0.7	210	17.7	8.0	8.0	28.7	28.7	94.9	94.9	7.6	7.6	26.5	7.6	32	83	83	81	822107	808798	<0.2	<0.2	1.6	1.6			
						6.5	0.7	228	17.7	8.0	8.0	28.7	28.7	94.9	94.9	7.6	7.6	26.6	7.6	30	84	84	81	822107	808798	<0.2	<0.2	1.4	1.4			
IM10	Sunny	Moderate	10:10	8.2	Surface	1.0	0.9	276	17.7	8.0	8.0	29.2	29.2	96.2	96.2	7.7	7.7	18.2	7.7	29	77	77	81	822228	809847	<0.2	<0.2	1.1	1.1			
						1.0	0.9	289	17.7	8.0	8.0	29.2	29.2	96.2	96.2	7.7	7.7	18.1	7.7	28	77	77	81	822228	809847	<0.2	<0.2	1.2	1.2			
						4.1	0.9	276	17.6	8.0	8.0	29.4	29.4	96.1	96.1	7.7	7.7	30.3	7.7	39	82	82	81	822228	809847	<0.2	<0.2	1.3	1.3			
						4.1	1.0	286	17.6	8.0	8.0	29.4	29.4	96.1	96.1	7.7	7.7	30.3	7.7	40	81	81	81	822228	809847	<0.2	<0.2	1.1	1.1			
						7.2	0.9	276	17.6	8.0	8.0	29.6	29.6	96.1	96.1	7.7	7.7	41.5	7.7	46	84	84	81	822228	809847	<0.2	<0.2	1.2	1.2			
						7.2	0.9	289	17.6	8.0	8.0	29.6	29.6	96.1	96.1	7.7	7.7	41.5	7.7	48	83	83	81	822228	809847	<0.2	<0.2	1.1	1.1			
IM11	Sunny	Moderate	10:01	8.3	Surface	1.0	0.8	261	17.6	8.0	8.0	29.2	29.2	96.2	96.2	7.7	7.7	20.1	7.7	20	78	78	81	821487	810535	<0.2	<0.2	1.1	1.1			
						1.0	0.9	265	17.6	8.0	8.0	29.2	29.2	96.2	96.2	7.7	7.7	20.1	7.7	21	78	78	81	821487	810535	<0.2	<0.2	1.0	1.0			
						4.2	0.7	269	17.6	8.0	8.0	29.4	29.4	96.2	96.2	7.7	7.7	22.0	7.7	27	82	82	81	821487	810535	<0.2	<0.2	1.1	1.1			
						4.2	0.8	291	17.6	8.0	8.0	29.4	29.4	96.2	96.2	7.7	7.7	22.0	7.7	27	81	81	81	821487	810535	<0.2	<0.2	1.1	1.1			
						7.3	0.6	252	17.6	8.0	8.0	29.5	29.5	98.2	98.2	7.9	7.9	28.7	7.9	26	84	84	81	821487	810535	<0.2	<0.2	1.0	1.0			
						7.3	0.7	260	17.6	8.0	8.0	29.5	29.5	98.2	98.2	7.9	7.9	28.7	7.9	27	84	84	81	821487	810535	<0.2	<0.2	0.9	0.9			
IM12	Sunny	Moderate	09:54	8.7	Surface	1.0	0.7	253	17.6	8.0	8.0	29.4	29.4	96.2	96.2	7.7	7.7	25.8	7.7	30	78	78	82	821149	811524	<0.2	<0.2	1.0	1.0			
						1.0	0.7	269	17.6	8.0	8.0	29.4	29.4	96.2	96.2	7.7	7.7	25.8	7.7	31	78	78	82	821149	811524	<0.2	<0.2	1.1	1.1			
						4.4	0.8	252	17.6	8.0	8.0	29.6	29.6	96.2	96.2	7.7	7.7	23.6	7.7	34	82	82	82	821149	811524	<0.2	<0.2	0.9	0.9			
						4.4	0.8	276	17.6	8.0	8.0	29.6	29.6	96.2	96.2	7.7	7.7	23.6	7.7	33	82	82	82	821149	811524	<0.2	<0.2	0.9	0.9			
						7.7	0.7	258	17.6	8.0	8.0	29.6	29.6	96.0	96.0	7.7	7.7	27.7	7.7	32	85	85	82	821149	811524	<0.2	<0.2	1.0	1.0			
						7.7	0.8	272	17.6	8.0	8.0	29.6	29.6	96.0	96.0	7.7	7.7	27.7	7.7	33	84	84	82	821149	811524	<0.2	<0.2	1.0	1.0			
SR2	Cloudy	Moderate	08:41	4.6	Surface	1.0	0.5	83	17.6	8.0	8.0	29.2	29.2	97.7	97.7	7.8	7.8	18.3	7.8	20	80	80	82	821466	814152	<0.2	<0.2	1.4	1.4			
						1.0	0.5	88	17.6	8.0	8.0	29.2	29.2	97.7	97.7	7.8	7.8	18.3	7.8	22	79	79	82	821466	814152	<0.2	<0.2	1.4	1.4			
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	821466	814152	<0.2	<0.2	-	-
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	821466	814152	<0.2	<0.2	-	-
						3.6	0.6	74	17.6	8.0	8.0	29.2	29.2	100.5	100.5	8.1	8.1	20.6	8.1	20	85	85	82	821466	814152	<0.2	<0.2	1.7	1.7			
						3.6	0.6	81	17.6	8.0	8.0	29.2	29.2	100.5	100.5	8.1	8.1	20.6	8.1	21	84	84	82	821466	814152	<0.2	<0.2	1.7	1.7			
SR3	Sunny	Moderate	10:38	9.2	Surface	1.0	1.1	145	17.8	8.0	8.0	28.9	28.9	96.2	96.2	7.7	7.7	10.8	7.7	14	-	-	-	822144	807557	-	-	-	-			
						1.0	1.2	151	17.8	8.0	8.0	28.9	28.9	96.2	96.2	7.7	7.7	10.8	7.7	13	-	-	-	-	-	822144	807557	-	-	-	-	
						4.6	1.3	148	17.8	8.0	8.0	28.9	28.9	96.2	96.3	7.7	7.7	14.2	7.7	16	-	-	-	-	-	822144	807557	-	-	-	-	
						4.6	1.3	154	17.8	8.0	8.0	28.9	28.9	96.3	96.3	7.7	7.7	14.4	7.7	15	-	-	-	-	-	822144	807557	-	-	-	-	
						8.2	1.1	163	17.6	8.0	8.0	29.5	29.5	96.5	96.5	7.7	7.7	27.8	7.7	14	-	-	-	-	-	822144	807557	-	-	-	-	
						8.2	1.1	168	17.6	8.0	8.0	29.5	29.5	96.5	96.5	7.7	7.7	27.8	7.7	14	-	-	-	-	-	822144	807557	-	-	-	-	
SR4A	Sunny	Calm	08:59	8.1	Surface	1.0	0.3	226	15.1	7.8	7.8	32.0	32.0	95.3	95.3	7.9	7.9	20.9	7.9	27	-	-	-	817188	807817	-	-	-	-			
						1.0	0.3	226	15.1	7.8	7.8	32.0	32.0	95.2	95.2	7.9	7.9	20.7	7.9	26	-	-	-	-	-	817188	807817	-	-	-	-	
						4.1	0.3	213	15.1	7.8	7.8	32.0	32.0	95.0	95.0	7.9	7.9	21.5	7.9	27	-	-	-	-	-	817188	807817	-	-	-	-	
						4.1	0.3	230	15.1	7.8	7.8	32.0	32.0	95.0	95.0	7.9	7.9	21.6	7.9	26	-	-	-	-	-	817188	807817	-	-	-	-	
						7.1	0.2	220	15.1	7.8	7.8	32.0	32.0	95.1	95.1	7.9	7.9	21.7	7.9	33	-	-	-	-	-	817188	807817	-	-	-	-	
						7.1	0.3	225	15.1	7.8	7.8	32.0	32.0	95.1	95.1	7.9	7.9	21.7	7.9	30	-	-	-	-	-	817188	807817	-	-	-	-	
SR5A	Sunny	Calm	08:41	4.2	Surface	1.0	0.3	255	15.0	7.7	7.7	31.3	31.3	95.3	95.3	7.9	7.9	13.6	7.9	16	-	-	-	816604	810712	-	-	-	-			
						1.0	0.3	275	15.0	7.7	7.7	31.3	31.3	95.3	95.3	7.9	7.9	13.7	7.9	18	-	-	-	-	-	816604	810712	-	-	-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816604	810712	-	-	-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816604	810712	-	-	-	-	
						3.2	0.3	254	15.0	7.7	7.7	31.3	31.3	95.7	95.7	8.0	8.0	14.5	8.0	17	-	-	-	-	-	816604	810712	-	-	-	-	
						3.2	0.3	276	15.0	7.7	7.7	31.3	31.3	95.7	95.7	8.0	8.0	14.5	8.0	18	-	-	-	-	-	816604	810712	-	-	-	-	
SR6	Sunny	Calm	08:16	3.8	Surface	1.0	0.2	244	14.8	7.9	7.9	29.7	29.7	95.9	95.9	8.1																

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
IM9	Cloudy	Moderate	14:21	7.6	Surface	1.0	0.7	111	17.9	17.9	8.0	8.0	28.9	28.9	98.3	98.3	7.9	7.9	13.7	7.9	12	78	81	822107	808805	<0.2	<0.2	1.2	1.2			
						1.0	0.7	111	17.9	8.0	8.0	28.9	28.9	98.3	98.3	7.9	7.9	13.8	7.9	12	77	81	822107	808805	<0.2	<0.2	1.2	1.2				
					Middle	3.8	0.6	91	17.6	17.6	8.0	8.0	30.0	30.0	98.8	98.8	7.9	7.9	18.3	7.9	18	81	18	81	822107	808805	<0.2	<0.2	1.8	1.8		
						3.8	0.6	94	17.6	17.6	8.0	8.0	30.0	30.0	98.8	98.8	7.9	7.9	18.3	7.9	17	82	17	82	822107	808805	<0.2	<0.2	2.0	2.0		
					Bottom	6.6	0.5	92	17.5	17.5	8.0	8.0	30.2	30.2	98.8	98.8	7.9	7.9	29.5	7.9	23	83	23	83	822107	808805	<0.2	<0.2	1.6	1.6		
						6.6	0.6	97	17.5	17.5	8.0	8.0	30.2	30.2	98.8	98.8	7.9	7.9	29.5	7.9	24	84	24	84	822107	808805	<0.2	<0.2	1.5	1.5		
IM10	Cloudy	Moderate	14:30	7.7	Surface	1.0	0.6	96	18.0	18.0	8.0	8.0	28.7	28.7	98.2	98.2	7.8	7.8	12.0	7.8	10	78	81	822223	809823	<0.2	<0.2	2.0	2.0			
						1.0	0.7	100	18.0	18.0	8.0	8.0	28.7	28.7	98.2	98.2	7.8	7.8	12.0	7.8	10	78	10	78	822223	809823	<0.2	<0.2	1.5	1.5		
					Middle	3.9	0.5	88	17.8	17.8	8.0	8.0	29.3	29.3	98.5	98.5	7.9	7.9	19.1	7.9	31	82	31	82	822223	809823	<0.2	<0.2	2.1	2.1		
						3.9	0.6	89	17.8	17.8	8.0	8.0	29.3	29.3	98.5	98.5	7.9	7.9	19.1	7.9	31	82	31	82	822223	809823	<0.2	<0.2	1.4	1.4		
					Bottom	6.7	0.5	97	17.8	17.8	8.0	8.0	29.6	29.6	97.6	97.6	7.8	7.8	24.2	7.8	30	83	30	83	822223	809823	<0.2	<0.2	1.3	1.3		
						6.7	0.5	104	17.8	17.8	8.0	8.0	29.6	29.6	97.6	97.6	7.8	7.8	24.2	7.8	29	84	29	84	822223	809823	<0.2	<0.2	1.3	1.3		
IM11	Cloudy	Moderate	14:37	8.7	Surface	1.0	0.7	132	18.2	18.2	8.0	8.0	29.2	29.2	99.4	99.4	7.9	7.9	9.9	7.9	10	77	81	821506	810547	<0.2	<0.2	1.5	1.5			
						1.0	0.7	137	18.2	18.2	8.0	8.0	29.2	29.2	99.4	99.4	7.9	7.9	9.9	7.9	11	78	11	78	821506	810547	<0.2	<0.2	1.5	1.5		
					Middle	4.4	0.6	121	18.0	18.0	8.0	8.0	29.5	29.5	99.4	99.4	7.9	7.9	11.6	7.9	12	82	12	82	821506	810547	<0.2	<0.2	1.4	1.4		
						4.4	0.7	128	18.0	18.0	8.0	8.0	29.5	29.5	99.4	99.4	7.9	7.9	11.6	7.9	12	82	12	82	821506	810547	<0.2	<0.2	1.4	1.4		
					Bottom	7.7	0.9	116	17.7	17.7	8.0	8.0	30.0	30.0	98.9	98.9	7.9	7.9	15.3	7.9	13	83	13	83	821506	810547	<0.2	<0.2	1.3	1.3		
						7.7	0.9	126	17.7	17.7	8.0	8.0	30.0	30.0	98.9	98.9	7.9	7.9	15.3	7.9	14	84	14	84	821506	810547	<0.2	<0.2	1.1	1.1		
IM12	Cloudy	Moderate	14:43	9.2	Surface	1.0	0.9	113	18.2	18.2	8.0	8.0	29.2	29.2	98.6	98.6	7.8	7.8	9.6	7.8	8	78	81	821173	811521	<0.2	<0.2	1.2	1.2			
						1.0	1.0	113	18.2	18.2	8.0	8.0	29.2	29.2	98.6	98.6	7.8	7.8	9.6	7.8	8	78	8	78	821173	811521	<0.2	<0.2	1.2	1.2		
					Middle	4.6	0.9	113	17.8	17.8	8.0	8.0	29.4	29.4	97.0	97.0	7.7	7.7	17.1	7.7	16	82	16	82	821173	811521	<0.2	<0.2	2.0	2.0		
						4.6	0.9	123	17.8	17.8	8.0	8.0	29.4	29.4	97.0	97.0	7.7	7.7	17.3	7.7	14	82	14	82	821173	811521	<0.2	<0.2	1.8	1.8		
					Bottom	8.2	1.0	141	17.7	17.7	8.0	8.0	29.6	29.6	96.9	96.9	7.7	7.7	27.5	7.7	18	84	18	84	821173	811521	<0.2	<0.2	1.6	1.6		
						8.2	1.0	153	17.7	17.7	8.0	8.0	29.6	29.6	96.9	96.9	7.7	7.7	27.5	7.7	18	84	18	84	821173	811521	<0.2	<0.2	1.4	1.4		
SR2	Cloudy	Moderate	15:06	4.9	Surface	1.0	0.4	101	17.9	17.9	8.0	8.0	29.5	29.5	97.5	97.5	7.8	7.8	9.3	7.8	12	80	82	821480	814154	<0.2	<0.2	1.4	1.4			
						1.0	0.4	105	17.9	17.9	8.0	8.0	29.5	29.5	97.5	97.5	7.8	7.8	9.3	7.8	11	79	11	79	821480	814154	<0.2	<0.2	1.4	1.4		
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	821480	814154	<0.2	<0.2	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	821480	814154	<0.2	<0.2	-
					Bottom	3.9	0.3	131	17.8	17.8	8.0	8.0	29.6	29.6	97.2	97.2	7.7	7.7	10.4	7.7	10	85	10	85	821480	814154	<0.2	<0.2	1.7	1.7		
						3.9	0.3	140	17.8	17.8	8.0	8.0	29.6	29.6	97.2	97.2	7.7	7.7	10.4	7.7	10	85	10	85	821480	814154	<0.2	<0.2	1.5	1.5		
SR3	Cloudy	Moderate	14:08	9.2	Surface	1.0	0.6	171	17.9	17.9	8.0	8.0	28.6	28.6	97.3	97.3	7.8	7.8	13.4	7.8	13	-	-	822166	807577	-	-	-	-			
						1.0	0.6	175	17.9	17.9	8.0	8.0	28.6	28.6	97.3	97.3	7.8	7.8	13.4	7.8	11	-	-	-	822166	807577	-	-	-	-		
					Middle	4.6	0.6	136	17.8	17.8	8.0	8.0	28.8	28.8	97.6	97.6	7.8	7.8	15.3	7.8	17	-	-	-	-	822166	807577	-	-	-	-	
						4.6	0.6	146	17.8	17.8	8.0	8.0	28.8	28.8	97.6	97.6	7.8	7.8	15.3	7.8	15	-	-	-	-	822166	807577	-	-	-	-	
					Bottom	8.2	0.6	111	17.6	17.6	8.0	8.0	30.1	30.1	98.3	98.3	7.8	7.8	23.4	7.8	19	-	-	-	-	-	822166	807577	-	-	-	-
						8.2	0.6	121	17.6	17.6	8.0	8.0	30.1	30.1	98.3	98.3	7.8	7.8	23.4	7.8	19	-	-	-	-	-	822166	807577	-	-	-	-
SR4A	Sunny	Moderate	15:17	8.3	Surface	1.0	0.6	97	15.1	15.1	7.9	7.9	34.4	34.4	99.1	99.1	8.1	8.1	10.9	8.1	17	-	-	817187	807810	-	-	-	-			
						1.0	0.6	100	15.1	15.1	7.9	7.9	34.4	34.4	99.1	99.1	8.1	8.1	10.9	8.1	16	-	-	-	817187	807810	-	-	-	-		
					Middle	4.2	0.5	88	15.0	15.0	7.9	7.9	34.4	34.4	99.0	99.0	8.1	8.1	11.9	8.1	16	-	-	-	-	817187	807810	-	-	-	-	
						4.2	0.5	95	15.0	15.0	7.9	7.9	34.4	34.4	99.0	99.0	8.1	8.1	12.0	8.1	17	-	-	-	-	817187	807810	-	-	-	-	
					Bottom	7.3	0.5	94	14.9	14.9	7.9	7.9	34.5	34.5	99.3	99.3	8.1	8.1	11.9	8.1	16	-	-	-	-	-	817187	807810	-	-	-	-
						7.3	0.5	102	14.9	14.9	7.9	7.9	34.5	34.5	99.4	99.4	8.1	8.1	11.9	8.1	17	-	-	-	-	-	817187	807810	-	-	-	-
SR5A	Sunny	Calm	15:33	5.2	Surface	1.0	0.1	197	16.0	16.0	7.9	7.9	34.1	34.1	101.8	101.8	8.2	8.2	9.3	8.2	10	-	-	816593	810684	-	-	-	-			
						1.0	0.1	197	16.0	16.0	7.9	7.9	34.1	34.1	101.7	101.7	8.1	8.1	9.4	8.1	10	-	-	-	-	816593	810684	-	-	-	-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816593	810684	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816593	810684	-	-	-	-
					Bottom	4.2	0.1	157	15.6	15.6	7.9	7.9	34.1	34.1	101.0	101.0	8.2	8.2	9.9	8.2	12	-	-	-	-	-	816593	810684	-	-	-	-
						4.2	0.1	157	15.6	15.6	7.9	7.9																				

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA			
C1	Cloudy	Moderate	10:23	8.8	Surface	1.0	0.6	100	14.9	14.9	7.8	7.8	33.0	33.0	98.9	98.9	8.2	8.2	7.7	8.2	11	14	79	81	81	815622	804229	<0.2	0.6	<0.2	0.6				
						1.0	0.7	102	14.9	14.9	7.8	7.8	33.0	33.0	98.9	98.9	8.2	8.2	7.6	8.2	10	14	80	81	81	81	81	815622	804229	<0.2	0.8	<0.2	0.8		
					Middle	4.4	0.7	108	14.9	14.9	7.8	7.8	33.0	33.0	98.6	98.6	8.1	8.1	10.6	12.9	12	14	81	14	81	81	81	81	81	815622	804229	<0.2	0.6	<0.2	0.6
						4.4	0.7	111	14.9	14.9	7.8	7.8	33.0	33.0	98.5	98.6	8.1	8.1	10.7	12.9	14	14	81	14	81	81	81	81	81	815622	804229	<0.2	0.7	<0.2	0.7
					Bottom	7.8	0.7	95	14.8	14.8	7.9	7.9	33.2	33.2	97.9	97.9	8.1	8.1	20.3	8.1	17	8.1	82	19	82	19	83	81	815622	804229	<0.2	0.8	<0.2	0.8	
						7.8	0.7	103	14.8	14.8	7.9	7.9	33.2	33.2	97.9	97.9	8.1	8.1	20.5	8.1	19	8.1	83	19	83	19	83	81	815622	804229	<0.2	0.8	<0.2	0.8	
C2	Cloudy	Moderate	10:58	13.2	Surface	1.0	0.5	269	18.0	18.0	7.9	7.9	26.9	26.9	94.4	94.4	7.6	7.6	6.7	7.6	3	3	78	82	82	825699	806931	<0.2	2.0	<0.2	1.9				
						1.0	0.5	279	18.0	18.0	7.9	7.9	26.9	26.9	94.4	94.4	7.6	7.6	6.7	7.6	3	3	78	3	78	82	82	825699	806931	<0.2	2.3	<0.2	1.9		
					Middle	6.6	0.6	314	17.9	17.9	7.9	7.9	28.1	28.1	93.6	93.6	7.5	7.5	11.5	13.8	3	3	83	3	83	3	82	82	825699	806931	<0.2	2.1	<0.2	2.1	
						6.6	0.6	321	17.9	17.9	7.9	7.9	28.1	28.1	93.6	93.6	7.5	7.5	11.5	13.8	3	3	82	3	82	3	84	82	825699	806931	<0.2	1.8	<0.2	1.8	
					Bottom	12.2	0.6	283	17.9	17.9	7.9	7.9	28.4	28.4	93.3	93.3	7.5	7.5	23.2	7.5	3	7.5	84	3	84	3	84	82	825699	806931	<0.2	1.9	<0.2	1.9	
						12.2	0.6	292	17.9	17.9	7.9	7.9	28.4	28.4	93.3	93.3	7.5	7.5	23.2	7.5	3	7.5	84	3	84	3	84	82	825699	806931	<0.2	1.9	<0.2	1.9	
C3	Cloudy	Moderate	09:22	12.4	Surface	1.0	0.5	244	17.8	17.8	7.9	7.9	29.4	29.4	96.0	96.0	7.7	7.7	6.4	7.7	6	5	80	83	83	822102	817815	<0.2	1.0	<0.2	1.0				
						1.0	0.5	260	17.8	17.8	7.9	7.9	29.4	29.4	96.0	96.0	7.7	7.7	6.4	7.7	5	7.7	80	5	80	5	80	83	822102	817815	<0.2	1.0	<0.2	1.0	
					Middle	6.2	2.3	257	17.7	17.7	7.9	7.9	29.8	29.8	94.8	94.8	7.6	7.6	9.3	10.1	4	5	83	4	83	4	83	83	822102	817815	<0.2	1.1	<0.2	1.1	
						6.2	2.3	264	17.7	17.7	7.9	7.9	29.8	29.8	94.8	94.8	7.6	7.6	9.4	10.1	4	5	83	4	83	4	84	83	822102	817815	<0.2	0.8	<0.2	0.8	
					Bottom	11.4	0.4	236	17.7	17.7	7.9	7.9	29.8	29.8	94.7	94.7	7.6	7.6	14.8	7.6	6	7.6	84	6	84	6	84	83	822102	817815	<0.2	0.9	<0.2	0.9	
						11.4	0.4	255	17.7	17.7	7.9	7.9	29.8	29.8	94.7	94.7	7.6	7.6	14.5	7.6	5	7.6	85	5	85	5	85	83	822102	817815	<0.2	0.9	<0.2	0.9	
IM1	Cloudy	Moderate	10:41	7.9	Surface	1.0	0.6	98	15.1	15.1	7.9	7.9	32.5	32.5	98.3	98.3	8.1	8.1	3.6	8.1	4	4	78	80	80	818359	806474	<0.2	0.7	<0.2	0.7				
						1.0	0.7	107	15.1	15.1	7.9	7.9	32.5	32.5	98.2	98.3	8.1	8.1	3.6	8.1	4	8.1	79	4	79	4	80	80	818359	806474	<0.2	0.5	<0.2	0.5	
					Middle	4.0	0.6	169	14.9	14.9	7.9	7.9	33.2	33.2	97.7	97.7	8.1	8.1	8.2	8.0	10	10	80	10	80	10	80	80	818359	806474	<0.2	0.4	<0.2	0.4	
						4.0	0.6	172	14.9	14.9	7.9	7.9	33.2	33.2	97.7	97.7	8.1	8.1	8.2	8.0	11	10	80	11	80	11	81	80	818359	806474	<0.2	0.4	<0.2	0.4	
					Bottom	6.9	0.5	166	14.9	14.9	7.9	7.9	33.3	33.3	97.4	97.4	8.0	8.0	12.2	8.0	15	8.0	81	15	81	15	81	80	818359	806474	<0.2	0.4	<0.2	0.4	
						6.9	0.5	171	14.9	14.9	7.9	7.9	33.3	33.3	97.4	97.4	8.0	8.0	11.9	8.0	15	8.0	81	15	81	15	81	80	818359	806474	<0.2	0.4	<0.2	0.4	
IM2	Cloudy	Moderate	10:46	9.2	Surface	1.0	0.8	160	15.0	15.0	7.9	7.9	32.8	32.8	98.1	98.1	8.1	8.1	6.2	8.1	7	7	81	82	82	818852	806176	<0.2	0.7	<0.2	0.6				
						1.0	0.9	161	15.0	15.0	7.9	7.9	32.8	32.8	98.1	98.1	8.1	8.1	6.1	8.1	7	8.1	7	7	80	7	80	82	818852	806176	<0.2	0.6	<0.2	0.6	
					Middle	4.6	0.7	137	15.0	15.0	7.9	7.9	32.7	32.7	97.9	97.9	8.1	8.1	5.3	8.2	8	10	82	8	82	8	82	82	818852	806176	<0.2	0.7	<0.2	0.7	
						4.6	0.7	145	15.0	15.0	7.9	7.9	32.7	32.7	97.9	97.9	8.1	8.1	5.3	8.2	8	10	82	8	82	8	82	82	818852	806176	<0.2	0.6	<0.2	0.6	
					Bottom	8.2	0.6	141	14.9	14.9	7.9	7.9	33.2	33.2	97.5	97.5	8.0	8.0	13.2	8.0	14	8.0	83	14	83	14	83	82	818852	806176	<0.2	0.5	<0.2	0.5	
						8.2	0.6	154	14.9	14.9	7.9	7.9	33.2	33.2	97.4	97.4	8.0	8.0	13.1	8.0	15	8.0	83	15	83	15	83	82	818852	806176	<0.2	0.7	<0.2	0.7	
IM3	Cloudy	Moderate	10:54	8.6	Surface	1.0	0.6	97	15.1	15.1	7.9	7.9	32.5	32.5	97.6	97.6	8.1	8.1	3.8	8.1	5	4	80	81	81	819410	806031	<0.2	1.2	<0.2	1.2				
						1.0	0.6	106	15.1	15.1	7.9	7.9	32.5	32.5	97.6	97.6	8.1	8.1	3.8	8.1	4	8.1	5	4	80	4	80	81	819410	806031	<0.2	1.2	<0.2	1.2	
					Middle	4.3	0.5	111	15.0	15.0	7.9	7.9	32.9	32.9	97.4	97.4	8.0	8.0	9.7	8.0	8	11	81	8	81	8	82	81	819410	806031	<0.2	2.6	<0.2	2.6	
						4.3	0.5	118	15.0	15.0	7.9	7.9	32.9	32.9	97.4	97.4	8.0	8.0	9.8	8.0	8	11	82	8	82	8	82	81	819410	806031	<0.2	2.5	<0.2	2.5	
					Bottom	7.6	0.4	123	14.9	14.9	7.9	7.9	33.1	33.1	97.3	97.3	8.0	8.0	13.4	8.0	20	8.0	82	20	82	20	82	81	819410	806031	<0.2	1.2	<0.2	1.2	
						7.6	0.5	125	14.9	14.9	7.9	7.9	33.1	33.1	97.3	97.3	8.0	8.0	13.5	8.0	20	8.0	83	20	83	20	83	81	819410	806031	<0.2	1.2	<0.2	1.2	
IM4	Cloudy	Moderate	11:02	8.4	Surface	1.0	0.7	161	15.2	15.2	7.9	7.9	32.1	32.1	97.8	97.8	8.1	8.1	3.6	8.1	6	6	81	82	82	819582	805050	<0.2	1.2	<0.2	1.2				
						1.0	0.7	161	15.2	15.2	7.9	7.9	32.1	32.1	97.8	97.8	8.1	8.1	3.6	8.1	6	8.1	6	6	81	6	81	82	819582	805050	<0.2	1.1	<0.2	1.1	
					Middle	4.2	0.7	138	15.1	15.1	7.9	7.9	32.6	32.6	97.8	97.8	8.1	8.1	4.8	8.2	8	11	82	8	82	8	82	82	819582	805050	<0.2	1.2	<0.2	1.2	
						4.2	0.7	147	15.1	15.1	7.9	7.9	32.6	32.6	97.8	97.8	8.1	8.1	4.8	8.2	6	11	82	6	82	6	82	82	819582	805050	<0.2	1.1	<0.2	1.1	
					Bottom	7.4	0.6	120	14.9	14.9	7.9	7.9	33.4	33.4	97.6	97.6	8.0	8.0	16.1	8.0	20	8.0	83	20	83	20	83	82	819582	805050	<0.2	1.2	<0.2	1.2	
						7.4																													

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:25	7.5	Surface	1.0	0.7	273	17.9	7.9	28.6	28.6	96.7	96.7	7.7	7.7	7.4	5	77	81	822095	808809	<0.2	1.1	<0.2	1.2				
						1.0	0.8	277	17.9	7.9	28.6	28.6	96.7	96.7	7.7	7.7	7.5	6	77											
					Middle	3.8	0.6	261	17.9	7.9	28.8	28.8	96.2	96.2	7.7	7.7	10.7	4	81											
						3.8	0.6	280	17.9	7.9	28.8	28.8	96.2	96.2	7.7	7.7	10.9	5	82											
					Bottom	6.5	0.6	239	17.8	7.9	28.9	28.9	95.9	95.9	7.7	7.7	16.3	5	83											
						6.5	0.7	247	17.8	7.9	28.9	28.9	95.9	95.9	7.7	7.7	16.3	5	84											
IM10	Cloudy	Moderate	10:18	7.4	Surface	1.0	0.7	268	17.9	7.9	28.7	28.7	97.2	97.2	7.8	7.8	5.7	5	77	81	822227	809830	<0.2	1.1	<0.2	1.0				
						1.0	0.8	287	17.9	7.9	28.7	28.7	97.2	97.2	7.8	7.8	5.6	4	77											
					Middle	3.7	0.7	265	17.8	7.9	28.9	28.9	96.7	96.7	7.7	7.7	6.8	4	81											
						3.7	0.7	272	17.8	7.9	28.9	28.9	96.7	96.7	7.7	7.7	7.2	3	82											
					Bottom	6.4	0.6	272	17.7	8.0	29.3	29.3	96.3	96.3	7.7	7.7	15.1	4	83											
						6.4	0.7	292	17.7	8.0	29.3	29.3	96.3	96.3	7.7	7.7	15.2	4	84											
IM11	Cloudy	Moderate	10:13	8.5	Surface	1.0	0.7	278	17.8	8.0	28.8	28.8	97.3	97.3	7.8	7.8	6.9	4	77	81	821481	810532	<0.2	1.1	<0.2	1.2				
						1.0	0.8	280	17.8	8.0	28.8	28.8	97.3	97.3	7.8	7.8	6.9	3	78											
					Middle	4.3	0.7	285	17.7	8.0	29.0	29.0	97.0	97.0	7.8	7.8	8.2	5	82											
						4.3	0.8	306	17.7	8.0	29.0	29.0	97.0	97.0	7.8	7.8	8.3	3	82											
					Bottom	7.5	0.6	289	17.6	8.0	29.7	29.7	96.7	96.7	7.7	7.7	12.8	4	84											
						7.5	0.6	310	17.6	8.0	29.7	29.7	96.7	96.7	7.7	7.7	12.8	6	84											
IM12	Cloudy	Moderate	10:04	9.4	Surface	1.0	0.7	269	17.8	8.0	28.8	28.8	97.8	97.8	7.8	7.8	7.0	4	78	82	821156	811509	<0.2	1.1	<0.2	1.1				
						1.0	0.8	274	17.8	8.0	28.8	28.8	97.8	97.8	7.8	7.8	7.0	4	79											
					Middle	4.7	0.8	267	17.6	8.0	29.7	29.7	97.1	97.1	7.8	7.8	10.3	4	82											
						4.7	0.8	270	17.6	8.0	29.7	29.7	97.1	97.1	7.8	7.8	10.4	5	82											
					Bottom	8.4	0.6	266	17.6	8.0	29.8	29.8	96.8	96.8	7.7	7.7	13.8	4	84											
						8.4	0.6	289	17.6	8.0	29.8	29.8	96.8	96.8	7.7	7.7	13.9	6	84											
SR2	Cloudy	Moderate	09:43	5.0	Surface	1.0	0.4	245	17.7	8.0	29.4	29.4	96.7	96.7	7.7	7.7	9.4	8	80	821462	814168	<0.2	1.0	<0.2	1.1					
						1.0	0.4	269	17.7	8.0	29.4	29.4	96.7	96.7	7.7	7.7	9.4	8	80											
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-
					Bottom	4.0	0.3	220	17.7	8.0	29.6	29.6	96.5	96.5	7.7	7.7	13.2	8	85											
						4.0	0.3	238	17.7	8.0	29.6	29.6	96.5	96.5	7.7	7.7	13.1	9	84											
SR3	Cloudy	Moderate	10:38	8.9	Surface	1.0	0.6	222	18.0	7.9	28.0	28.0	96.4	96.4	7.7	7.7	5.5	2	-	-	822133	807561	-	-	-	-				
						1.0	0.6	237	18.0	7.9	28.0	28.0	96.4	96.4	7.7	7.7	5.5	3	-											
					Middle	4.5	0.5	216	17.9	7.9	28.2	28.2	95.5	95.5	7.7	7.7	8.0	5	-											
						4.5	0.5	228	17.9	7.9	28.2	28.2	95.5	95.5	7.7	7.7	8.1	3	-											
					Bottom	7.9	0.6	160	17.8	8.0	28.5	28.5	95.2	95.2	7.6	7.6	9.8	5	-											
						7.9	0.6	168	17.8	8.0	28.5	28.5	95.2	95.2	7.6	7.6	9.8	4	-											
SR4A	Cloudy	Calm	09:59	8.9	Surface	1.0	0.3	233	15.1	7.8	32.6	32.6	97.4	97.4	8.0	8.0	12.3	14	-	-	817206	807803	-	-	-	-				
						1.0	0.3	240	15.1	7.8	32.6	32.6	97.4	97.4	8.0	8.0	12.4	15	-											
					Middle	4.5	0.3	231	15.0	7.8	32.6	32.6	97.1	97.1	8.0	8.0	12.0	15	-											
						4.5	0.3	242	15.0	7.8	32.6	32.6	97.1	97.1	8.0	8.0	12.1	14	-											
					Bottom	7.9	0.3	234	15.0	7.8	32.6	32.6	97.0	97.0	8.0	8.0	13.4	15	-											
						7.9	0.3	239	15.0	7.8	32.6	32.6	97.0	97.0	8.0	8.0	13.5	14	-											
SR5A	Cloudy	Calm	09:43	4.3	Surface	1.0	0.4	257	15.1	7.8	31.6	31.6	96.7	96.7	8.0	8.0	10.1	10	-	-	816596	810702	-	-	-	-				
						1.0	0.4	270	15.1	7.8	31.6	31.6	96.7	96.7	8.0	8.0	10.1	11	-											
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	
					Bottom	3.3	0.3	253	15.1	7.8	31.6	31.6	96.6	96.6	8.0	8.0	13.1	17	-											
						3.3	0.3	262	15.1	7.8	31.6	31.6	96.6	96.6	8.0	8.0	13.3	15	-											
SR6	Cloudy	Calm	09:20	4.0	Surface	1.0	0.2	176	14.7	7.9	27.7	27.7	95.0	95.0	8.1	8.1	13.0	19	-	-	817883	814666	-	-	-	-				
						1.0	0.2	191	14.7	7.9	27.7	27.7	95.0	95.0	8.1	8.1	13.1	19	-											
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	
					Bottom	3.0	0.2	175	14.6	7.9	26.0	26.0	95.8	95.8	8.3	8.3	14.9	25	-											
						3.0	0.2	176	14.6	7.9	26.0	26.0	95.8	95.8	8.3	8.3	14.8	26	-											
SR7	Cloudy	Moderate	08:53	15.2	Surface	1.0	0.2	164	17.6	7.9	29.9	29.9	94.7	94.7	7.6	7.6	4.9	6	-	-	823631	823757	-	-	-	-				
						1.0	0.2	176	17.6	7.9	29.9	29.9	94.6	94.6	7.6	7.6	4.9	6	-											
					Middle	7.6	0.2	177	17.6	7.9	30.2	30.2	93.3	93.3	7.4	7.4	5.5	5	-											
						7.6	0.2	184	17.6	7.9	30.2	30.2	93.3	93.3	7.4	7.4	5.4	6	-											
					Bottom	14.2	0.2	156	17.6	7.9	30.2	30.2	93.0	93.0	7.4	7.4	6.3	4	-											
						14.2	0.3	162	17.6	7.9	30.2	30.2	93.0	93.0	7.4	7.4	6.3	5	-											
SR8	Cloudy	Moderate	09:58	5.3	Surface	1.0	0.6	224	17.8	7.9	28.7	28.7	96.9	96.9	7.8	7.8	8.2	8	-	-	820428	811599	-	-	-	-				
						1.0	0.7	244	17.8	7.9	28.7	28.7	96.9	96.9	7.8	7.8	8.2	8	-											
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	
					Bottom	4.3	0.5	230	17.8	7.9	29.0	29.0	96.8	96.8	7.7	7.7	13.2	6	-											
						4.3	0.6	233	17.8	7.9	28.9	28.9	96.8	96.8	7.7	7.7	12.3	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 04 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	16:35	8.9	Surface	1.0	0.5	193	15.6	15.6	7.9	7.9	34.4	34.4	103.0	103.0	8.3	8.3	3.3	3.3	4	5	80	82	815627	804253	<0.2	<0.2	0.7	0.6						
						1.0	0.5	198	15.6	7.9	7.9	34.4	34.4	103.0	103.0	8.3	8.3	3.3	3.3	5	5	80	82	815627	804253	<0.2	<0.2	0.7	0.6							
						4.5	0.4	208	15.1	15.1	8.0	8.0	34.7	34.7	100.8	100.8	8.2	8.2	3.5	3.5	4	5	81	82	815627	804253	<0.2	<0.2	0.7	0.6						
					4.5	0.5	223	15.1	15.1	8.0	8.0	34.7	34.7	100.8	100.8	8.2	8.2	3.5	3.5	4	5	82	82	815627	804253	<0.2	<0.2	0.5	0.6							
					7.9	0.5	222	15.0	15.0	8.0	8.0	35.0	35.0	98.1	98.1	8.0	8.0	3.5	3.5	5	5	83	82	815627	804253	<0.2	<0.2	0.4	0.6							
					7.9	0.5	226	15.0	15.0	8.0	8.0	35.0	35.0	98.1	98.1	8.0	8.0	3.5	3.5	5	5	83	82	815627	804253	<0.2	<0.2	0.3	0.6							
C2	Cloudy	Moderate	15:40	11.3	Surface	1.0	0.3	174	18.1	18.1	7.9	7.9	28.5	28.5	95.9	95.9	7.7	7.7	10.0	10.0	9	8	76	81	825698	806957	<0.2	<0.2	1.4	1.4						
						1.0	0.4	176	18.1	17.8	7.9	7.9	28.5	28.5	95.9	95.9	7.7	7.7	10.0	10.0	8	8	77	81	825698	806957	<0.2	<0.2	1.2	1.4						
						5.7	0.4	166	17.8	17.8	7.9	7.9	29.2	29.2	95.0	95.0	7.6	7.6	10.3	12.6	8	8	82	81	825698	806957	<0.2	<0.2	1.4	1.4						
					5.7	0.4	177	17.8	17.8	7.9	7.9	29.2	29.2	95.0	95.0	7.6	7.6	10.3	12.6	9	8	81	81	825698	806957	<0.2	<0.2	1.3	1.4							
					10.3	0.3	168	17.8	17.8	8.0	8.0	29.5	29.5	94.5	94.5	7.5	7.5	17.5	7.5	9	7	84	81	825698	806957	<0.2	<0.2	1.4	1.4							
					10.3	0.3	171	17.8	17.8	8.0	8.0	29.5	29.5	94.5	94.5	7.5	7.5	17.5	7.5	7	7	84	81	825698	806957	<0.2	<0.2	1.4	1.4							
C3	Cloudy	Moderate	17:32	12.3	Surface	1.0	0.4	66	17.9	17.9	8.0	8.0	29.7	29.7	96.3	96.3	7.6	7.6	6.7	6.7	3	3	80	82	822121	817793	<0.2	<0.2	0.8	0.9						
						1.0	0.5	66	17.9	17.8	8.0	8.0	29.7	29.7	96.2	96.2	7.6	7.6	6.7	6.7	5	7	80	82	822121	817793	<0.2	<0.2	1.0	0.9						
						6.2	0.3	76	17.8	17.8	8.0	8.0	30.1	30.1	93.9	93.9	7.5	7.5	9.5	8.2	8	7	83	82	822121	817793	<0.2	<0.2	0.8	0.9						
					6.2	0.3	76	17.8	17.8	8.0	8.0	30.1	30.1	93.9	93.9	7.5	7.5	9.6	8.2	6	7	82	82	822121	817793	<0.2	<0.2	1.0	0.9							
					11.3	0.3	96	17.7	17.7	8.0	8.0	30.1	30.1	93.3	93.3	7.4	7.4	8.3	7.4	8	7	84	82	822121	817793	<0.2	<0.2	1.0	0.9							
					11.3	0.3	101	17.7	17.7	8.0	8.0	30.1	30.1	93.3	93.3	7.4	7.4	8.3	7.4	9	7	84	82	822121	817793	<0.2	<0.2	1.0	0.9							
IM1	Cloudy	Moderate	16:16	7.8	Surface	1.0	0.3	168	15.7	15.7	7.9	7.9	34.4	34.4	102.0	102.0	8.2	8.2	3.7	3.7	4	5	82	84	818368	806465	<0.2	<0.2	0.8	0.8						
						1.0	0.3	177	15.7	15.2	7.9	7.9	34.4	34.4	101.9	101.9	8.2	8.2	3.7	3.7	3	5	83	84	818368	806465	<0.2	<0.2	0.9	0.8						
						3.9	0.3	178	15.2	15.2	7.9	7.9	34.5	34.5	99.6	99.6	8.1	8.1	5.2	5.1	4	5	83	84	818368	806465	<0.2	<0.2	0.8	0.8						
					3.9	0.3	194	15.2	15.2	7.9	7.9	34.5	34.5	99.6	99.6	8.1	8.1	5.2	5.1	4	5	83	84	818368	806465	<0.2	<0.2	0.8	0.8							
					6.8	0.3	162	15.2	15.2	8.0	8.0	34.5	34.5	97.7	97.7	7.9	7.9	6.4	7.9	6	6	84	84	818368	806465	<0.2	<0.2	0.7	0.8							
					6.8	0.3	165	15.2	15.2	8.0	8.0	34.5	34.5	97.7	97.7	7.9	7.9	6.4	7.9	7	6	85	84	818368	806465	<0.2	<0.2	0.6	0.8							
IM2	Cloudy	Moderate	16:11	8.7	Surface	1.0	0.3	161	15.7	15.7	8.0	8.0	34.3	34.3	101.8	101.8	8.2	8.2	3.7	3.7	4	5	82	83	818841	806191	<0.2	<0.2	0.6	0.7						
						1.0	0.4	172	15.7	15.3	8.0	8.0	34.3	34.3	101.8	101.8	8.2	8.2	3.8	4.8	5	5	83	83	818841	806191	<0.2	<0.2	0.7	0.7						
						4.4	0.3	181	15.3	15.3	8.0	8.0	34.5	34.5	99.7	99.7	8.1	8.1	4.7	4.8	6	5	83	83	818841	806191	<0.2	<0.2	0.6	0.7						
					4.4	0.3	194	15.3	15.3	8.0	8.0	34.5	34.5	99.7	99.7	8.1	8.1	4.8	4.8	6	5	83	83	818841	806191	<0.2	<0.2	0.8	0.7							
					7.7	0.3	168	15.1	15.1	8.0	8.0	34.5	34.5	97.5	97.5	7.9	7.9	5.9	7.9	5	5	84	83	818841	806191	<0.2	<0.2	0.6	0.7							
					7.7	0.3	173	15.1	15.1	8.0	8.0	34.5	34.5	97.5	97.5	7.9	7.9	5.9	7.9	7	5	84	83	818841	806191	<0.2	<0.2	0.6	0.7							
IM3	Cloudy	Moderate	16:04	8.9	Surface	1.0	0.4	144	15.7	15.7	8.0	8.0	34.1	34.1	100.7	100.7	8.1	8.1	4.0	3.9	4	6	81	83	819391	806026	<0.2	<0.2	0.8	0.7						
						1.0	0.4	144	15.7	15.2	8.0	8.0	34.1	34.1	100.7	100.7	8.1	8.1	3.9	4.7	4	6	82	83	819391	806026	<0.2	<0.2	0.6	0.7						
						4.5	0.3	151	15.2	15.2	8.0	8.0	34.4	34.4	98.4	98.4	8.0	8.0	5.0	5.0	6	6	83	83	819391	806026	<0.2	<0.2	0.6	0.7						
					4.5	0.4	161	15.2	15.2	8.0	8.0	34.4	34.4	98.5	98.5	8.0	8.0	5.0	5.0	6	6	83	83	819391	806026	<0.2	<0.2	0.6	0.7							
					7.9	0.3	169	15.2	15.2	8.0	8.0	34.4	34.4	97.7	97.7	8.0	8.0	5.0	8.0	6	6	84	83	819391	806026	<0.2	<0.2	0.6	0.7							
					7.9	0.3	174	15.2	15.2	8.0	8.0	34.4	34.4	97.8	97.8	8.0	8.0	5.0	8.0	7	6	84	83	819391	806026	<0.2	<0.2	0.6	0.7							
IM4	Cloudy	Moderate	15:57	8.3	Surface	1.0	0.4	147	15.9	15.9	8.0	8.0	34.1	34.1	101.9	101.9	8.2	8.2	4.2	4.2	5	6	80	81	819568	805049	<0.2	<0.2	0.6	0.6						
						1.0	0.5	160	15.9	15.3	8.0	7.9	34.1	34.1	101.9	101.9	8.2	8.2	4.2	5.0	4	7	80	81	819568	805049	<0.2	<0.2	0.6	0.6						
						4.2	0.4	155	15.3	15.3	7.9	7.9	34.1	34.1	100.8	100.8	8.2	8.2	5.0	5.0	7	6	81	82	819568	805049	<0.2	<0.2	0.6	0.6						
					4.2	0.4	157	15.3	15.2	7.9	7.9	34.1	34.1	100.8	100.8	8.2	8.2	5.0	5.0	7	6	82	82	819568	805049	<0.2	<0.2	0.5	0.6							
					7.3	0.3	180	15.2	15.2	7.9	7.9	34.3	34.3	100.6	100.6	8.2	8.2	4.5	8.2	6	6	82	82	819568	805049	<0.2	<0.2	0.6	0.6							
					7.3	0.4	193	15.2	15.2	7.9	7.9	34.3	34.3	100.7	100.7	8.2	8.2	4.5	8.2	6	6	82	82	819568	805049	<0.2	<0.2	0.7	0.6							
IM5	Cloudy	Moderate	15:50	7.3	Surface	1.0	0.4	158	16.0	16.0	7.9	7.9	33.4	33.4	100.5	100.5	8.1	8.1	5.8	5.8	6	9	80	81	820562	804942	<0.2	<0.2	1.0	0.9						
						1.0	0.4	161	16.0	15.0	7.9	7.9	33.4	33.4	100.5	100.5	8.1	8.1	5.8	6.6	7	9	80	81	820562	804942	<0.2	<0.2	1.2	0.8						
						3.7	0.4	149	15.0	15.0	7.9	7.9	34.0	34.0	98.1	98.1	8.0	8.0	9.6	9.6	10	9	81	81	820562	804942	<0.2	<0.2	0.8	0.9						
					3.7	0.4	161	15.0	15.0																											

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA						
IM9	Cloudy	Moderate	16:20	8.3	Surface	1.0	0.5	140	18.3	18.3	8.0	8.0	29.0	29.0	95.9	95.9	7.6	7.6	8.0	8.0	5	5	77	77	81	822093	808799	<0.2	1.3	<0.2	1.4							
						1.0	0.6	144	18.3	8.0	8.0	29.0	29.0	95.8	95.9	7.6	7.6	8.1	8.0	5	5	77	77															
					Middle	4.2	0.6	124	17.9	17.9	8.0	8.0	29.6	29.6	99.0	99.0	7.9	7.9	12.2	12.2	4	4	82	82														
						4.2	0.6	124	17.9	17.9	8.0	8.0	29.6	29.6	99.0	99.0	7.9	7.9	12.3	12.3	5	5	81	81														
					Bottom	7.3	0.5	99	17.7	17.7	8.0	8.0	30.0	30.0	97.9	97.9	7.8	7.8	14.9	14.9	4	4	84	84														
						7.3	0.5	107	17.7	17.7	8.0	8.0	30.0	30.0	97.8	97.9	7.8	7.8	14.9	14.9	5	5	83	83														
IM10	Cloudy	Moderate	16:30	8.0	Surface	1.0	0.6	120	18.2	18.2	8.0	8.0	29.0	29.0	100.7	100.7	8.0	8.0	9.2	9.2	7	7	77	77	81	822252	809850	<0.2	1.8	<0.2	1.5							
						1.0	0.6	127	18.2	8.0	8.0	29.0	29.0	100.7	100.7	8.0	8.0	9.3	9.3	6	6	78	78															
					Middle	4.0	0.7	109	17.9	17.9	8.0	8.0	29.8	29.8	100.6	100.6	8.0	8.0	16.8	16.8	6	6	82	82														
						4.0	0.8	112	17.9	17.9	8.0	8.0	29.8	29.8	100.6	100.6	8.0	8.0	16.9	16.9	6	6	82	82														
					Bottom	7.0	0.6	104	17.8	17.8	8.0	8.0	30.2	30.2	100.4	100.4	8.0	8.0	24.4	24.4	14	14	84	84														
						7.0	0.6	108	17.8	17.8	8.0	8.0	30.2	30.2	100.4	100.4	8.0	8.0	24.6	24.6	14	14	84	84														
IM11	Cloudy	Moderate	16:40	9.5	Surface	1.0	0.5	124	18.2	18.2	8.0	8.0	29.6	29.6	102.8	102.8	8.1	8.1	6.5	6.5	7	7	77	77	81	821495	810535	<0.2	1.1	<0.2	1.0							
						1.0	0.5	124	18.2	8.0	8.0	29.6	29.6	102.8	102.8	8.1	8.1	6.5	6.5	6	6	78	78															
					Middle	4.8	0.5	102	18.0	18.0	8.0	8.0	30.0	30.0	100.9	100.9	8.0	8.0	9.4	9.4	7	7	82	82														
						4.8	0.6	107	18.0	18.0	8.0	8.0	30.0	30.0	100.8	100.9	8.0	8.0	9.5	9.5	5	5	82	82														
					Bottom	8.5	0.4	131	17.9	17.9	8.0	8.0	30.2	30.2	98.3	98.3	7.8	7.8	12.0	12.0	7	7	84	84														
						8.5	0.5	136	17.9	17.9	8.0	8.0	30.2	30.2	98.3	98.3	7.8	7.8	12.0	12.0	5	5	84	84														
IM12	Cloudy	Moderate	16:46	10.5	Surface	1.0	0.7	127	18.1	18.1	8.0	8.0	29.7	29.7	101.6	101.6	8.0	8.0	7.8	7.8	6	6	79	79	82	821165	811536	<0.2	0.9	<0.2	1.1							
						1.0	0.8	131	18.1	18.1	8.0	8.0	29.7	29.7	101.6	101.6	8.0	8.0	7.9	7.9	8	8	78	78														
					Middle	5.3	0.7	117	18.0	18.0	8.0	8.0	30.0	30.0	100.5	100.4	8.0	8.0	9.4	9.4	6	6	82	82														
						5.3	0.8	122	18.0	18.0	8.0	8.0	30.0	30.0	100.3	100.4	7.9	7.9	9.4	9.4	7	7	82	82														
					Bottom	9.5	0.6	135	18.0	18.0	8.0	8.0	30.1	30.1	98.1	98.1	7.8	7.8	11.7	11.7	7	7	84	84														
						9.5	0.6	140	18.0	18.0	8.0	8.0	30.1	30.1	98.1	98.1	7.8	7.8	11.7	11.7	6	6	84	84														
SR2	Cloudy	Moderate	17:12	5.2	Surface	1.0	0.4	85	18.2	18.2	8.0	8.0	29.3	29.3	98.4	98.4	7.8	7.8	8.2	8.2	7	7	79	79	82	821471	814157	<0.2	1.1	<0.2	1.1							
						1.0	0.4	89	18.2	8.0	8.0	29.3	29.3	98.3	98.4	7.8	7.8	8.2	8.2	6	6	79	79															
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
					Bottom	4.2	0.3	94	18.0	18.0	8.0	8.0	29.5	29.5	96.0	96.0	7.6	7.6	11.7	11.7	6	6	84	84														
						4.2	0.3	94	18.0	18.0	8.0	8.0	29.5	29.5	96.0	96.0	7.6	7.6	11.8	11.8	6	6	84	84														
SR3	Cloudy	Moderate	16:04	9.4	Surface	1.0	0.7	177	18.1	18.1	8.0	8.0	28.9	28.9	99.2	99.2	7.9	7.9	8.8	8.8	7	7	-	-	-	822131	807574	-	-	-	-							
						1.0	0.7	183	18.1	18.1	8.0	8.0	28.9	28.9	99.1	99.2	7.9	7.9	8.9	8.9	6	6	-	-														
					Middle	4.7	0.7	167	17.9	17.9	8.0	8.0	29.4	29.4	98.8	98.8	7.9	7.9	11.1	11.1	6	6	-	-														
						4.7	0.8	178	17.9	17.9	8.0	8.0	29.4	29.4	98.8	98.8	7.9	7.9	11.1	11.1	7	7	-	-														
					Bottom	8.4	0.6	130	17.7	17.7	8.0	8.0	30.0	30.0	97.8	97.8	7.8	7.8	13.4	13.4	6	6	-	-														
						8.4	0.6	142	17.7	17.7	8.0	8.0	30.0	30.0	97.8	97.8	7.8	7.8	13.3	13.3	6	6	-	-														
SR4A	Cloudy	Moderate	16:57	8.6	Surface	1.0	0.3	107	15.3	15.3	7.9	7.9	34.6	34.6	100.4	100.4	8.1	8.1	8.7	8.7	10	10	-	-	-	817196	807801	-	-	-	-							
						1.0	0.3	110	15.3	15.3	7.9	7.9	34.6	34.6	100.4	100.4	8.1	8.1	8.7	8.7	11	11	-	-														
					Middle	4.3	0.4	111	15.3	15.3	7.9	7.9	34.6	34.6	99.0	99.0	8.0	8.0	9.0	9.0	11	11	-	-														
						4.3	0.4	118	15.3	15.3	7.9	7.9	34.6	34.6	99.0	99.0	8.0	8.0	9.0	9.0	10	10	-	-														
					Bottom	7.6	0.3	120	15.3	15.3	7.9	7.9	34.6	34.6	97.5	97.5	7.9	7.9	8.5	8.5	11	11	-	-														
						7.6	0.3	122	15.3	15.3	7.9	7.9	34.6	34.6	97.5	97.5	7.9	7.9	8.5	8.5	12	12	-	-														
SR5A	Cloudy	Calm	17:14	5.2	Surface	1.0	0.3	149	15.9	15.9	7.9	7.9	34.4	34.4	102.0	102.0	8.2	8.2	10.0	10.0	10	10	-	-	-	816578	810703	-	-	-	-							
						1.0	0.3	162	15.9	15.9	7.9	7.9	34.4	34.4	102.0	102.0	8.2	8.2	10.1	10.1	11	11	-	-														
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
					Bottom	4.2	0.2	151	15.5	15.5	7.9	7.9	34.7	34.7	98.6	98.6	8.0	8.0	12.4	12.4	10	10	-	-														
						4.2	0.3	152	15.5	15.5	7.9	7.9	34.7	34.7	98.6	98.6	8.0	8.0	12.5	12.5	10	10	-	-														
SR6	Cloudy	Calm	17:37	4.3	Surface	1.0	0.2	111	15.6	15.6	7.9	7.9	34.0	34.0	97.7	97.7	7.9	7.9	9.4	9.4	9	9	-	-	-	817917	814663	-	-	-	-							
						1.0	0.2	113	15.6	15.6	7.9	7.9	34.0	34.0	97.7	97.7	7.9	7.9	9.4	9.4	10	10	-	-														
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
					Bottom	3.3	0.2	124	15.4	15.4	7.9	7.9	34.2	34.2	96.8	96.8	7.9	7.9	16.1	16.1	12	12	-	-														
						3.3	0.2	129	15.4	15.4	7.9	7.9	34.2	34.2	96.9	96.9	7.9	7.9	16.3	16.3	11	11	-	-														
SR7	Cloudy	Moderate	17:59	15.3	Surface	1.0	0.5	65	17.9	17.9	8.0	8.0	30.1	30.1	94.9	94.9	7.5	7.5	5.9	5.9	4	4	-	-	-	823635	823748	-	-	-	-							
						1.0	0.5	71	17.9	17.9	8.0	8.0	30.1	30.1	94.8	94.8	7.5	7.5	6.0	6.0	4	4	-	-														
					Middle	7.7	0.4	67	17.7	17.7	8.0	8.0	30.3	30.3	93.3	93.3	7.4	7.4	7.4	7.4</																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 07 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	13:20	8.8	Surface	1.0	0.5	118	15.5	15.5	7.9	7.9	34.2	34.2	104.9	104.9	8.5	0.7	8.5	0.7	3	4	82	84	815621	804263	<0.2	0.9	<0.2	0.7
						1.0	0.6	121	15.5	7.9	7.9	34.2	34.2	104.9	104.9	8.5	0.7	8.5	0.7	4	4	83	84	815621	804263	<0.2	0.8	<0.2	0.7	
					Middle	4.4	0.5	116	15.3	15.3	7.9	7.9	34.5	34.5	104.0	104.0	8.4	0.5	8.4	0.5	4	4	83	84	815621	804263	<0.2	0.8	<0.2	0.6
						4.4	0.6	121	15.3	15.3	7.9	7.9	34.5	34.5	104.0	104.0	8.4	0.5	8.4	0.5	6	4	84	84	815621	804263	<0.2	0.8	<0.2	0.6
					Bottom	7.8	0.5	120	15.3	15.3	7.9	7.9	35.2	35.2	102.1	102.1	8.3	0.9	8.3	0.9	3	4	84	84	815621	804263	<0.2	0.6	<0.2	0.6
						7.8	0.5	125	15.3	15.3	7.9	7.9	35.2	35.2	102.1	102.1	8.3	0.9	8.3	0.9	5	4	85	84	815621	804263	<0.2	0.6	<0.2	0.6
C2	Cloudy	Moderate	12:16	12.4	Surface	1.0	0.3	202	18.7	18.7	7.9	7.9	27.2	27.2	97.9	97.9	7.8	3.7	7.7	3.7	5	5	75	80	825677	806940	<0.2	2.6	<0.2	2.0
						1.0	0.3	210	18.7	18.7	7.9	7.9	27.2	27.2	97.9	97.9	7.8	3.7	7.7	3.7	3	5	75	80	825677	806940	<0.2	2.5	<0.2	1.8
					Middle	6.2	0.3	262	18.5	18.5	7.9	7.9	28.1	28.1	95.6	95.6	7.6	4.1	7.6	4.1	4	5	81	81	825677	806940	<0.2	1.9	<0.2	1.7
						6.2	0.3	266	18.5	18.5	7.9	7.9	28.1	28.1	95.6	95.6	7.6	4.1	7.6	4.1	3	5	81	81	825677	806940	<0.2	1.9	<0.2	1.7
					Bottom	11.4	0.2	161	18.3	18.3	7.9	7.9	29.0	29.0	95.0	95.0	7.5	4.7	7.5	4.7	5	7	84	84	825677	806940	<0.2	1.7	<0.2	1.6
						11.4	0.2	163	18.3	18.3	7.9	7.9	29.0	29.0	95.0	95.0	7.5	4.7	7.5	4.7	7	7	84	84	825677	806940	<0.2	1.6	<0.2	1.6
C3	Cloudy	Moderate	14:12	12.9	Surface	1.0	0.3	253	18.2	18.2	8.0	8.0	30.0	30.0	96.2	96.2	7.6	3.0	7.5	3.0	2	4	81	83	822118	817797	<0.2	0.7	<0.2	0.7
						1.0	0.3	264	18.2	18.2	8.0	8.0	30.0	30.0	96.2	96.2	7.6	3.0	7.5	3.0	<2	4	80	83	822118	817797	<0.2	0.7	<0.2	0.7
					Middle	6.5	0.3	270	18.2	18.2	8.0	8.0	30.1	30.1	93.1	93.1	7.3	5.4	7.3	5.4	6	4	82	84	822118	817797	<0.2	0.8	<0.2	0.7
						6.5	0.3	289	18.2	18.2	8.0	8.0	30.1	30.1	93.1	93.1	7.3	5.4	7.3	5.4	4	4	82	84	822118	817797	<0.2	0.7	<0.2	0.8
					Bottom	11.9	0.2	262	18.0	18.0	8.0	8.0	30.5	30.5	91.8	91.8	7.2	14.6	7.2	14.6	6	5	85	85	822118	817797	<0.2	0.6	<0.2	0.8
						11.9	0.3	271	18.0	18.0	8.0	8.0	30.5	30.5	91.8	91.8	7.2	14.6	7.2	14.6	5	5	85	85	822118	817797	<0.2	0.8	<0.2	0.8
IM1	Cloudy	Moderate	13:00	7.8	Surface	1.0	0.4	158	15.5	15.5	7.9	7.9	33.9	33.9	101.8	101.8	8.3	2.8	8.3	2.8	5	6	82	83	818339	806471	<0.2	0.6	<0.2	0.7
						1.0	0.4	171	15.5	15.5	7.9	7.9	33.9	33.9	101.8	101.8	8.3	2.8	8.3	2.8	6	6	82	83	818339	806471	<0.2	0.7	<0.2	0.7
					Middle	3.9	0.3	164	15.5	15.5	7.9	7.9	34.0	34.0	101.5	101.5	8.2	2.8	8.2	2.8	6	6	83	83	818339	806471	<0.2	0.8	<0.2	0.9
						3.9	0.4	167	15.5	15.5	7.9	7.9	34.0	34.0	101.5	101.5	8.2	2.8	8.2	2.8	5	6	83	83	818339	806471	<0.2	0.9	<0.2	0.8
					Bottom	6.8	0.4	171	15.2	15.2	7.9	7.9	35.0	35.0	100.2	100.2	8.1	3.4	8.1	3.4	6	6	84	84	818339	806471	<0.2	0.5	<0.2	0.4
						6.8	0.4	183	15.2	15.2	7.9	7.9	35.0	35.0	100.2	100.2	8.1	3.4	8.1	3.4	7	6	84	84	818339	806471	<0.2	0.4	<0.2	0.4
IM2	Cloudy	Moderate	12:55	8.6	Surface	1.0	0.3	189	15.7	15.7	7.8	7.8	32.9	32.9	101.2	101.2	8.2	2.3	8.2	2.3	4	7	82	83	818851	806190	<0.2	1.2	<0.2	1.3
						1.0	0.3	205	15.7	15.7	7.8	7.8	32.9	32.9	101.2	101.2	8.2	2.4	8.2	2.4	5	7	82	83	818851	806190	<0.2	1.3	<0.2	1.0
					Middle	4.3	0.4	165	15.5	15.5	7.8	7.8	33.8	33.8	101.0	101.0	8.2	2.6	8.2	2.6	7	7	83	83	818851	806190	<0.2	1.0	<0.2	1.0
						4.3	0.4	175	15.5	15.5	7.8	7.8	33.8	33.8	101.0	101.0	8.2	2.6	8.2	2.6	8	7	83	83	818851	806190	<0.2	1.0	<0.2	1.0
					Bottom	7.6	0.4	97	15.2	15.2	7.9	7.9	34.5	34.5	100.0	100.0	8.1	2.4	8.1	2.4	10	7	84	84	818851	806190	<0.2	0.8	<0.2	0.8
						7.6	0.4	100	15.2	15.2	7.9	7.9	34.5	34.5	100.0	100.0	8.1	2.5	8.1	2.5	9	7	84	84	818851	806190	<0.2	0.8	<0.2	0.8
IM3	Cloudy	Moderate	12:48	8.5	Surface	1.0	0.4	143	15.7	15.7	7.8	7.8	32.5	32.5	100.7	100.7	8.2	1.7	8.2	1.7	6	7	81	82	819397	806024	<0.2	1.3	<0.2	1.1
						1.0	0.4	156	15.7	15.7	7.8	7.8	32.5	32.5	100.7	100.7	8.2	1.7	8.2	1.7	4	7	81	82	819397	806024	<0.2	1.1	<0.2	1.1
					Middle	4.3	0.3	128	15.5	15.5	7.8	7.8	33.0	33.0	100.4	100.5	8.2	2.8	8.2	2.8	8	7	82	82	819397	806024	<0.2	1.2	<0.2	1.2
						4.3	0.3	137	15.5	15.5	7.8	7.8	33.0	33.0	100.5	100.5	8.2	2.6	8.2	2.6	6	7	82	82	819397	806024	<0.2	1.2	<0.2	1.2
					Bottom	7.5	0.4	118	15.4	15.4	7.8	7.8	33.6	33.6	99.8	99.8	8.1	2.9	8.1	2.9	9	7	83	83	819397	806024	<0.2	1.1	<0.2	1.1
						7.5	0.4	123	15.4	15.4	7.8	7.8	33.6	33.6	99.8	99.8	8.1	2.9	8.1	2.9	9	7	83	83	819397	806024	<0.2	1.3	<0.2	1.3
IM4	Cloudy	Moderate	12:40	8.2	Surface	1.0	0.5	172	15.7	15.7	7.8	7.8	32.4	32.4	101.1	101.1	8.2	1.8	8.2	1.8	5	7	81	82	819589	805038	<0.2	1.5	<0.2	1.4
						1.0	0.5	186	15.7	15.7	7.8	7.8	32.4	32.4	101.1	101.1	8.2	1.9	8.2	1.9	5	7	81	82	819589	805038	<0.2	1.4	<0.2	1.3
					Middle	4.1	0.5	123	15.5	15.5	7.8	7.8	33.0	33.1	100.4	100.4	8.2	2.5	8.2	2.5	9	7	82	82	819589	805038	<0.2	1.3	<0.2	1.3
						4.1	0.5	126	15.5	15.5	7.8	7.8	33.1	33.1	100.4	100.4	8.2	2.5	8.2	2.5	7	7	82	82	819589	805038	<0.2	1.2	<0.2	1.2
					Bottom	7.2	0.5	140	15.3	15.3	7.8	7.8	34.2	34.2	99.5	99.5	8.1	4.0	8.1	4.0	9	7	83	83	819589	805038	<0.2	1.1	<0.2	1.1
						7.2	0.5	144	15.3	15.3	7.8	7.8	34.1	34.2	99.5	99.5	8.1	4.0	8.1	4.0	8	7	83	83	819589	805038	<0.2	1.0	<0.2	1.0
IM5	Cloudy	Moderate	12:32	7.1	Surface	1.0	0.3	223	15.7	15.7	7.8	7.8	32.1	32.1	101.1	101.1	8.3	1.7	8.3	1.7	7	7	80	81	820544	804929	<0.2	1.4	<0.2	1.4
						1.0	0.3	235	15.7	15.7	7.8	7.8	32.1	32.1	101.1	101.1	8.3	1.7	8.3	1.7	6	7	80	81	820544	804929	<0.2	1.5	<0.2	1.4
					Middle	3.6	0.3	196	15.6	15.6	7.8	7.8	32.5	32.5	100.8	100.8	8.2	2.0	8.2	2.0	5	7	81	81	820544	804929	<0.2	1.4	<0.2	1.3
						3.6	0.3	207	15.6	15.6	7.8	7.8	32.5	32.5	100.8	1														

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

Water Quality Monitoring

Water Quality Monitoring Results on 07 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	09:20	8.6	Surface	1.0	0.3	164	15.2	7.8	7.8	33.0	33.0	103.0	103.0	8.5	8.5	1.2	3	82	82	83	83	815609	804244	<0.2	0.7	0.7		
						1.0	0.4	178	15.2	7.8	7.8	33.0	33.0	103.0	103.0	8.5	8.5	1.2	3	82	82	83	83	815609	804244	<0.2	0.8			
					Middle	4.3	0.3	152	15.2	7.8	7.8	33.1	33.1	102.8	102.8	8.4	8.4	1.4	3	83	83	83	83	815609	804244	<0.2	0.7			
						4.3	0.4	158	15.2	7.8	7.8	33.1	33.1	102.7	102.7	8.4	8.4	1.4	3	83	83	83	83	815609	804244	<0.2	0.8			
					Bottom	7.6	0.4	178	15.1	7.9	7.9	34.1	34.1	101.4	101.4	8.3	8.3	2.2	4	84	84	84	84	815609	804244	<0.2	0.5			
						7.6	0.5	192	15.1	7.9	7.9	34.1	34.1	101.4	101.4	8.3	8.3	2.2	4	84	84	84	84	815609	804244	<0.2	0.5			
C2	Cloudy	Moderate	10:02	12.2	Surface	1.0	0.4	175	18.5	7.9	7.9	27.3	27.3	96.0	96.0	7.6	7.6	4.4	3	76	76	81	81	825668	806964	<0.2	1.8	1.7		
						1.0	0.5	175	18.5	7.9	7.9	27.3	27.3	95.9	95.9	7.6	7.6	4.4	4	77	77	81	81	825668	806964	<0.2	1.8			
					Middle	6.1	0.3	172	18.3	7.9	7.9	29.0	29.0	93.8	93.8	7.4	7.4	5.5	4	82	82	82	82	825668	806964	<0.2	2.1			
						6.1	0.3	173	18.3	7.9	7.9	29.0	29.0	93.8	93.8	7.4	7.4	5.6	3	82	82	82	82	825668	806964	<0.2	2.0			
					Bottom	11.2	0.3	129	18.2	7.9	7.9	29.6	29.6	94.1	94.1	7.4	7.4	6.6	8	84	84	84	84	825668	806964	<0.2	1.2			
						11.2	0.3	135	18.2	7.9	7.9	29.6	29.6	94.1	94.1	7.4	7.4	6.6	6	84	84	84	84	825668	806964	<0.2	1.3			
C3	Cloudy	Moderate	08:01	12.5	Surface	1.0	0.3	112	18.0	7.9	7.9	29.9	29.9	93.7	93.7	7.4	7.4	3.3	4	79	79	82	82	822120	817809	<0.2	0.7	0.7		
						1.0	0.3	115	18.0	7.9	7.9	29.9	29.9	93.6	93.6	7.4	7.4	3.3	3	80	80	82	82	822120	817809	<0.2	0.6			
					Middle	6.3	0.2	106	18.0	7.9	7.9	30.2	30.2	92.3	92.3	7.3	7.3	3.5	5	81	81	82	82	822120	817809	<0.2	0.7			
						6.3	0.3	110	18.0	7.9	7.9	30.2	30.2	92.3	92.3	7.3	7.3	3.5	3	82	82	82	82	822120	817809	<0.2	0.8			
					Bottom	11.5	0.2	140	18.0	7.9	7.9	30.6	30.6	91.8	91.8	7.2	7.2	5.0	4	84	84	85	85	822120	817809	<0.2	0.7			
						11.5	0.2	149	18.0	7.9	7.9	30.6	30.6	91.8	91.8	7.2	7.2	5.1	4	85	85	85	85	822120	817809	<0.2	0.8			
IM1	Cloudy	Moderate	09:40	7.4	Surface	1.0	0.3	208	15.4	7.8	7.8	32.7	32.7	100.1	100.1	8.2	8.2	4.1	4	79	79	80	80	818368	806450	<0.2	0.6	0.7		
						1.0	0.3	217	15.4	7.8	7.8	32.7	32.7	100.1	100.1	8.2	8.2	4.1	4	79	79	80	80	818368	806450	<0.2	0.6			
					Middle	3.7	0.3	176	15.3	7.8	7.8	33.0	33.0	100.0	100.0	8.2	8.2	3.6	4	80	80	81	81	818368	806450	<0.2	0.8			
						3.7	0.3	182	15.3	7.8	7.8	33.0	33.0	100.0	100.0	8.2	8.2	3.6	5	81	81	81	81	818368	806450	<0.2	0.9			
					Bottom	6.4	0.3	150	15.1	7.8	7.8	33.9	33.9	98.9	98.9	8.1	8.1	4.2	5	81	81	82	82	818368	806450	<0.2	0.7			
						6.4	0.3	151	15.1	7.8	7.8	33.9	33.9	98.9	98.9	8.1	8.1	4.3	7	82	82	82	82	818368	806450	<0.2	0.5			
IM2	Cloudy	Moderate	09:46	8.3	Surface	1.0	0.3	219	15.5	7.8	7.8	32.1	32.1	99.9	99.9	8.2	8.2	2.7	3	80	80	81	81	818853	806202	<0.2	1.1	1.0		
						1.0	0.3	220	15.5	7.8	7.8	32.1	32.1	99.9	99.9	8.2	8.2	2.7	4	80	80	81	81	818853	806202	<0.2	1.3			
					Middle	4.2	0.3	157	15.4	7.8	7.8	32.6	32.6	99.8	99.8	8.2	8.2	3.2	3	81	81	82	82	818853	806202	<0.2	1.1			
						4.2	0.3	162	15.4	7.8	7.8	32.6	32.6	99.8	99.8	8.2	8.2	3.2	5	81	81	82	82	818853	806202	<0.2	1.1			
					Bottom	7.3	0.2	141	15.1	7.8	7.8	33.8	33.8	99.2	99.2	8.1	8.1	5.0	6	82	82	82	82	818853	806202	<0.2	0.8			
						7.3	0.3	145	15.1	7.8	7.8	33.8	33.8	99.1	99.1	8.1	8.1	4.9	6	82	82	82	82	818853	806202	<0.2	0.8			
IM3	Cloudy	Moderate	09:56	7.6	Surface	1.0	0.3	217	15.7	7.8	7.8	31.9	31.9	99.7	99.7	8.2	8.2	2.9	3	81	81	82	82	819406	806021	<0.2	1.4	1.2		
						1.0	0.4	223	15.7	7.8	7.8	31.9	31.9	99.7	99.7	8.2	8.2	2.9	2	81	81	82	82	819406	806021	<0.2	1.6			
					Middle	3.8	0.3	179	15.6	7.8	7.8	32.3	32.3	99.3	99.3	8.1	8.1	3.4	4	82	82	82	82	819406	806021	<0.2	1.2			
						3.8	0.4	189	15.6	7.8	7.8	32.3	32.3	99.3	99.3	8.1	8.1	3.4	4	82	82	82	82	819406	806021	<0.2	1.0			
					Bottom	6.6	0.3	156	15.5	7.8	7.8	33.1	33.1	98.8	98.8	8.1	8.1	4.4	5	83	83	83	83	819406	806021	<0.2	1.1			
						6.6	0.3	159	15.5	7.8	7.8	33.0	33.0	98.8	98.8	8.1	8.1	4.3	6	84	84	84	84	819406	806021	<0.2	1.0			
IM4	Cloudy	Moderate	10:02	8.0	Surface	1.0	0.4	230	15.7	7.8	7.8	32.2	32.2	100.3	100.3	8.2	8.2	2.8	4	79	79	80	80	819558	805033	<0.2	1.1	1.1		
						1.0	0.4	243	15.7	7.8	7.8	32.2	32.2	100.3	100.3	8.2	8.2	2.8	4	80	80	81	81	819558	805033	<0.2	1.0			
					Middle	4.0	0.3	212	15.6	7.8	7.8	32.5	32.5	100.0	100.0	8.2	8.2	3.5	6	81	81	82	82	819558	805033	<0.2	1.1			
						4.0	0.3	215	15.6	7.8	7.8	32.5	32.5	99.9	99.9	8.2	8.2	3.6	5	81	81	82	82	819558	805033	<0.2	1.0			
					Bottom	7.0	0.3	192	15.4	7.8	7.8	33.1	33.1	98.9	98.9	8.1	8.1	4.1	5	82	82	82	82	819558	805033	<0.2	1.2			
						7.0	0.3	206	15.4	7.8	7.8	33.0	33.0	98.9	98.9	8.1	8.1	4.1	5	82	82	82	82	819558	805033	<0.2	1.3			
IM5	Cloudy	Moderate	10:10	6.9	Surface	1.0	0.4	208	15.5	7.8	7.8	32.3	32.3	99.6	99.6	8.2	8.2	2.7	3	79	79	80	80	820579	804919	<0.2	1.5	1.4		
						1.0	0.4	225	15.5	7.8	7.8	32.3	32.3	99.6	99.6	8.2	8.2	2.7	5	79	79	80	80	820579	804919	<0.2	1.5			
					Middle	3.5	0.4	198	15.5	7.8	7.8	32.3	32.3	99.4	99.4	8.1	8.1	3.2	4	80	80	81	81	820579	804919	<0.2	1.2			
						3.5	0.4	210	15.5	7.8	7.8	32.3	32.3	99.4	99.4	8.1	8.1	3.2	3	80	80	81	81	820579	804919	<0.2	1.4			
					Bottom	5.9	0.4	194	15.4	7.8	7.8	32.5	32.5	99.0	99.0	8.1	8.1	3.3	6	81	81	82	82	820579	804919	<0.2	1.4			
						5.9	0.4	212	15.4	7.8	7.8	32.5	32.5	99.0	99.0	8.1	8.1	3.2	8	82	82	82	82	820579	804919	<0.2	1.4			
IM6	Cloudy	Moderate	10:19	7.0	Surface	1.0	0.4	203	15.6	7.8	7.8	31.8	31.8	98.5	98.5	8.1	8.1	3.7	5	82	82	83	83	821078	805828	<0.2	1.9	1.5		
						1.0	0.4	214	15.6	7.8	7.8	31.8	31.8	98.5	98.5	8.1	8.1	3.7	4	82	82	83	83	821078	805828	<0.2	1.7			
					Middle	3.5	0.4	184	15.6	7.8	7.8	32.0	32.0	98.4	98.4	8.1	8.1	8.9	11	83	83	83	83	821078	805828	<0.2	1.3			

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

Water Quality Monitoring

Water Quality Monitoring Results on 07 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Moderate	09:25	7.6	Surface	1.0	0.4	188	18.4	18.4	8.0	8.0	28.4	28.4	99.7	99.7	7.9	7.9	4.4	4.4	4	77	81	822092	808805	<0.2	<0.2	1.2	1.3					
						1.0	0.4	190	18.4	8.0	8.0	28.4	28.4	99.7	99.7	7.9	7.9	4.4	4.4	3	77	81	822092	808805	<0.2	<0.2	1.4	1.3						
					Middle	3.8	0.4	182	18.3	18.3	8.0	8.0	28.5	28.5	99.1	99.1	7.9	7.9	5.4	5.4	5	82	5	81	81	822092	808805	<0.2	<0.2	1.2	1.2			
						3.8	0.4	197	18.3	18.3	8.0	8.0	28.5	28.5	99.1	99.1	7.9	7.9	5.4	5.4	6	81	5	81	81	822092	808805	<0.2	<0.2	1.2	1.2			
					Bottom	6.6	0.4	177	18.3	18.3	8.0	8.0	28.9	28.9	98.7	98.7	7.8	7.8	7.1	7.1	6	84	5	84	5	84	81	822092	808805	<0.2	<0.2	1.7	1.2	
						6.6	0.4	188	18.3	18.3	8.0	8.0	28.9	28.9	98.7	98.7	7.8	7.8	7.0	7.0	5	84	5	84	5	84	81	822092	808805	<0.2	<0.2	1.2	1.2	
IM10	Cloudy	Moderate	09:17	7.7	Surface	1.0	0.3	163	18.4	18.4	8.0	8.0	28.5	28.5	98.6	98.6	7.8	7.8	4.8	4.8	7	77	81	822236	809841	<0.2	<0.2	1.5	1.5					
						1.0	0.4	175	18.4	18.4	8.0	8.0	28.5	28.5	98.6	98.6	7.8	7.8	4.8	4.8	5	77	5	82	81	822236	809841	<0.2	<0.2	1.7	1.5			
					Middle	3.9	0.3	174	18.4	18.4	8.0	8.0	28.6	28.6	97.6	97.6	7.7	7.7	5.3	5.3	5	82	5	82	81	822236	809841	<0.2	<0.2	1.6	1.6			
						3.9	0.3	186	18.4	18.4	8.0	8.0	28.6	28.6	97.6	97.6	7.7	7.7	5.3	5.3	4	82	5	82	81	822236	809841	<0.2	<0.2	1.6	1.6			
					Bottom	6.7	0.3	157	18.3	18.3	7.9	7.9	29.0	29.0	96.5	96.5	7.6	7.6	7.2	7.2	5	84	4	84	4	84	81	822236	809841	<0.2	<0.2	1.7	1.8	
						6.7	0.3	158	18.3	18.3	7.9	7.9	29.0	29.0	96.5	96.5	7.6	7.6	7.2	7.2	4	84	4	84	4	84	81	822236	809841	<0.2	<0.2	1.8	1.8	
IM11	Cloudy	Moderate	09:09	8.4	Surface	1.0	0.3	178	18.4	18.4	8.0	8.0	28.6	28.6	96.7	96.7	7.7	7.7	5.4	5.4	4	77	5	82	81	821502	810552	<0.2	<0.2	1.5	1.5			
						1.0	0.4	189	18.4	18.4	8.0	8.0	28.6	28.6	96.6	96.6	7.7	7.7	5.4	5.4	3	77	5	82	81	821502	810552	<0.2	<0.2	1.6	1.6			
					Middle	4.2	0.4	167	18.3	18.3	7.9	7.9	28.8	28.8	95.7	95.7	7.6	7.6	5.7	5.7	5	82	5	82	81	821502	810552	<0.2	<0.2	1.4	1.3			
						4.2	0.4	168	18.3	18.3	7.9	7.9	28.8	28.8	95.7	95.7	7.6	7.6	5.7	5.7	5	82	5	84	81	821502	810552	<0.2	<0.2	1.4	1.5			
					Bottom	7.4	0.3	140	18.3	18.3	7.9	7.9	29.0	29.0	95.2	95.2	7.5	7.5	7.8	7.8	5	84	5	84	5	84	81	821502	810552	<0.2	<0.2	1.5	1.5	
						7.4	0.4	145	18.3	18.3	7.9	7.9	29.0	29.0	95.3	95.3	7.5	7.5	7.7	7.7	5	84	5	84	5	84	81	821502	810552	<0.2	<0.2	1.4	1.4	
IM12	Cloudy	Moderate	08:54	9.0	Surface	1.0	0.6	127	18.4	18.4	8.0	8.0	28.4	28.4	97.5	97.5	7.7	7.7	4.8	4.8	5	78	5	81	81	821168	811505	<0.2	<0.2	1.4	1.5			
						1.0	0.6	131	18.4	18.4	8.0	8.0	28.4	28.4	97.5	97.5	7.7	7.7	4.9	4.9	3	77	5	81	81	821168	811505	<0.2	<0.2	1.3	1.3			
					Middle	4.5	0.5	129	18.4	18.4	8.0	8.0	28.5	28.5	96.4	96.4	7.6	7.6	4.8	4.8	5	81	5	81	81	821168	811505	<0.2	<0.2	1.5	1.5			
						4.5	0.6	138	18.4	18.4	8.0	8.0	28.5	28.5	96.3	96.3	7.6	7.6	4.9	4.9	4	82	5	82	81	821168	811505	<0.2	<0.2	1.6	1.6			
					Bottom	8.0	0.5	151	18.3	18.3	7.9	7.9	29.2	29.2	93.9	93.9	7.4	7.4	7.0	7.0	6	84	6	84	6	84	81	821168	811505	<0.2	<0.2	1.5	1.5	
						8.0	0.6	154	18.3	18.3	7.9	7.9	29.2	29.2	93.9	93.9	7.4	7.4	7.1	7.1	7	84	7	84	7	84	81	821168	811505	<0.2	<0.2	1.6	1.6	
SR2	Cloudy	Moderate	08:26	3.8	Surface	1.0	0.2	196	18.3	18.3	7.9	7.9	29.0	29.0	95.4	95.4	7.6	7.6	5.3	5.3	4	81	5	80	83	821475	814150	<0.2	<0.2	1.2	1.2			
						1.0	0.2	146	18.3	18.3	7.9	7.9	29.0	29.0	95.3	95.3	7.6	7.6	5.3	5.3	6	80	5	80	83	821475	814150	<0.2	<0.2	1.2	1.2			
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	821475	814150	<0.2	<0.2	-	-	
						1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	821475	814150	<0.2	<0.2	-	-
					Bottom	2.8	0.2	151	18.2	18.2	7.9	7.9	29.5	29.5	93.1	93.1	7.4	7.4	10.1	10.1	6	85	6	85	6	85	83	821475	814150	<0.2	<0.2	1.3	1.3	
						2.8	0.2	165	18.2	18.2	7.9	7.9	29.5	29.5	93.2	93.2	7.4	7.4	10.1	10.1	4	84	4	84	4	84	83	821475	814150	<0.2	<0.2	1.2	1.2	
SR3	Cloudy	Moderate	09:38	9.2	Surface	1.0	0.4	176	18.5	18.5	7.9	7.9	28.1	28.1	98.6	98.6	7.8	7.8	4.8	4.8	3	-	-	-	-	822129	807580	-	-	-	-			
						1.0	0.4	189	18.5	18.5	7.9	7.9	28.1	28.1	98.6	98.6	7.8	7.8	4.8	4.8	3	-	-	-	-	-	-	-	-	-	-	-	-	
					Middle	4.6	0.4	186	18.3	18.3	8.0	8.0	28.6	28.6	98.4	98.4	7.8	7.8	5.9	5.9	5	-	-	-	-	-	-	822129	807580	-	-	-	-	
						4.6	0.4	186	18.3	18.3	8.0	8.0	28.6	28.6	98.4	98.4	7.8	7.8	5.9	5.9	3	-	-	-	-	-	-	-	822129	807580	-	-	-	-
					Bottom	8.2	0.4	149	18.2	18.2	8.0	8.0	29.0	29.0	98.0	98.0	7.8	7.8	6.8	6.8	4	-	-	-	-	-	-	-	822129	807580	-	-	-	-
						8.2	0.4	152	18.2	18.2	8.0	8.0	29.0	29.0	98.0	98.0	7.8	7.8	6.8	6.8	4	-	-	-	-	-	-	-	-	822129	807580	-	-	-
SR4A	Cloudy	Moderate	08:58	8.3	Surface	1.0	0.3	151	15.4	15.4	7.8	7.8	32.2	32.2	99.3	99.3	8.2	8.2	5.9	5.9	8	-	-	-	-	817189	807803	-	-	-	-			
						1.0	0.3	162	15.4	15.4	7.8	7.8	32.2	32.2	99.2	99.2	8.2	8.2	5.9	5.9	7	-	-	-	-	-	-	-	-	-	-	-		
					Middle	4.2	0.3	150	15.4	15.4	7.8	7.8	32.2	32.2	99.0	99.0	8.1	8.1	6.3	6.3	7	-	-	-	-	-	-	817189	807803	-	-	-	-	
						4.2	0.3	164	15.4	15.4	7.8	7.8	32.2	32.2	99.0	99.0	8.1	8.1	6.3	6.3	8	-	-	-	-	-	-	-	817189	807803	-	-	-	-
					Bottom	7.3	0.3	158	15.2	15.2	7.8	7.8	32.7	32.7	98.5	98.5	8.1	8.1	6.9	6.9	10	-	-	-	-	-	-	-	817189	807803	-	-	-	-
						7.3	0.3	160	15.2	15.2	7.8	7.8	32.7	32.7	98.5	98.5	8.1	8.1	6.9	6.9	11	-	-	-	-	-	-	-	-	817189	807803	-	-	-
SR5A	Cloudy	Calm	08:41	3.9	Surface	1.0	0.2	215	15.6	15.6	7.9	7.9	31.6	31.6	96.6	96.6	7.9	7.9	6.1	6.1	8	-	-	-	-	816582	810685	-	-	-	-			
						1.0	0.2	226	15.6	15.6	7.9	7.9	31.6	31.6	96.6	96.6	7.9	7.9	6.1	6.1	9	-	-	-	-	-	-	-	-	-	-	-		
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816582	810685	-	-	-	-
						2.0	-	-	-																									

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
									Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value			Value	Value	Value	Value
C1	Cloudy	Moderate	15:56	8.8	Surface	1.0	0.5	89	15.2	15.2	7.9	7.9	35.4	35.4	102.6	102.6	8.3	8.3	1.8	1.8	2	2	82	82	84	815634	804248	<0.2	1.3	0.8
						1.0	0.5	93	15.2	7.9	7.9	35.4	35.4	102.6	102.6	8.3	8.3	1.8	1.8	3	3	82	82	<0.2				1.2		
						4.4	0.4	94	15.2	7.9	7.9	35.3	35.3	102.1	102.1	8.3	8.3	2.0	2.0	3	3	83	83	<0.2				0.6		
					4.4	0.4	99	15.2	7.9	7.9	35.3	35.3	102.0	102.0	8.3	8.3	2.0	2.0	2	2	84	84	<0.2	0.5						
					7.8	0.4	95	15.3	7.9	7.9	35.7	35.7	100.6	100.6	8.1	8.1	2.2	2.2	4	4	85	85	<0.2	0.5						
					7.8	0.4	95	15.2	7.9	7.9	35.7	35.7	100.6	100.6	8.1	8.1	2.2	2.2	6	6	85	85	<0.2	0.4						
C2	Cloudy	Moderate	14:47	10.7	Surface	1.0	0.2	201	18.1	18.1	7.9	7.9	28.4	28.4	90.6	90.6	7.2	7.2	4.7	4.7	5	5	76	76	81	825692	806932	<0.2	1.6	1.8
						1.0	0.2	217	18.1	7.9	7.9	28.4	28.4	90.6	90.6	7.2	7.2	4.7	4.7	4	4	77	77	<0.2				1.8		
						5.4	0.2	191	18.2	7.9	7.9	28.9	28.9	89.4	89.4	7.1	7.1	4.4	4.4	5	5	82	82	<0.2				1.6		
					5.4	0.2	194	18.2	7.9	7.9	28.9	28.9	89.4	89.4	7.1	7.1	4.4	4.4	5	5	82	82	<0.2	1.8						
					9.7	0.3	186	18.2	7.9	7.9	29.5	29.5	81.6	81.6	6.5	6.5	4.6	4.6	4	4	84	84	<0.2	1.9						
					9.7	0.3	194	18.2	7.9	7.9	29.5	29.5	81.6	81.6	6.5	6.5	4.6	4.6	4	4	84	84	<0.2	1.9						
C3	Cloudy	Moderate	16:48	12.8	Surface	1.0	0.5	258	18.0	18.0	8.0	8.0	30.5	30.5	88.8	88.8	7.0	7.0	3.2	3.2	2	2	80	80	83	822090	817800	<0.2	0.6	0.5
						1.0	0.5	280	18.0	8.0	8.0	30.5	30.5	88.7	88.7	7.0	7.0	3.2	3.2	2	2	80	80	<0.2				0.6		
						6.4	0.5	258	18.0	8.0	8.0	30.8	30.8	87.2	87.2	6.9	6.9	5.4	5.4	3	3	82	82	<0.2				0.4		
					6.4	0.5	282	18.0	8.0	8.0	30.8	30.8	87.2	87.2	6.9	6.9	5.5	5.5	2	2	83	83	<0.2	0.5						
					11.8	0.4	256	18.0	8.0	8.0	30.8	30.8	85.3	85.3	6.7	6.7	6.2	6.2	5	5	85	85	<0.2	0.6						
					11.8	0.4	258	18.0	8.0	8.0	30.8	30.8	85.2	85.2	6.7	6.7	6.3	6.3	7	7	85	85	<0.2	0.4						
IM1	Cloudy	Moderate	15:36	8.2	Surface	1.0	0.4	222	15.2	15.2	7.9	7.9	35.2	35.2	100.8	100.8	8.2	8.2	2.6	2.6	4	4	80	80	82	818335	806469	<0.2	0.5	0.8
						1.0	0.4	239	15.2	7.9	7.9	35.2	35.2	100.8	100.8	8.2	8.2	2.6	2.6	5	5	81	81	<0.2				0.5		
						4.1	0.4	218	15.2	7.9	7.9	35.2	35.2	100.5	100.5	8.1	8.1	3.2	3.2	4	4	82	82	<0.2				0.9		
					4.1	0.4	234	15.2	7.9	7.9	35.2	35.2	100.5	100.5	8.1	8.1	3.3	3.3	5	5	82	82	<0.2	0.8						
					7.2	0.4	162	15.2	7.9	7.9	35.6	35.6	99.9	99.9	8.1	8.1	4.3	4.3	7	7	83	83	<0.2	0.8						
					7.2	0.4	173	15.2	7.9	7.9	35.6	35.6	99.9	99.9	8.1	8.1	4.0	4.0	6	6	83	83	<0.2	1.0						
IM2	Cloudy	Moderate	15:27	8.2	Surface	1.0	0.3	234	15.3	15.3	7.9	7.9	33.8	33.8	99.6	99.6	8.1	8.1	2.0	2.0	3	3	81	81	81	818832	806202	<0.2	1.4	1.2
						1.0	0.3	247	15.3	7.9	7.9	33.8	33.8	99.6	99.6	8.1	8.1	1.9	1.9	4	4	80	80	<0.2				1.3		
						4.1	0.3	180	15.2	7.9	7.9	34.7	34.7	99.9	100.0	8.1	8.1	2.3	2.3	6	6	81	81	<0.2				1.2		
					4.1	0.4	189	15.2	7.9	7.9	34.6	34.7	100.0	100.0	8.1	8.1	2.3	2.3	6	6	81	81	<0.2	1.2						
					7.2	0.3	156	15.2	7.9	7.9	35.1	35.1	99.5	99.6	8.1	8.1	3.1	3.1	6	6	82	82	<0.2	0.9						
					7.2	0.4	171	15.2	7.9	7.9	35.1	35.1	99.6	99.6	8.1	8.1	3.1	3.1	6	6	83	83	<0.2	1.1						
IM3	Cloudy	Moderate	15:19	8.4	Surface	1.0	0.3	220	15.2	15.2	7.8	7.8	33.6	33.6	99.7	99.7	8.1	8.1	1.9	1.9	5	5	81	81	83	819401	806027	<0.2	1.6	1.7
						1.0	0.3	239	15.2	7.8	7.8	33.6	33.6	99.7	99.7	8.1	8.1	2.0	2.0	5	5	86	86	<0.2				1.7		
						4.2	0.3	177	15.2	7.9	7.9	34.4	34.4	99.9	99.9	8.1	8.1	2.2	2.2	5	5	82	82	<0.2				1.9		
					4.2	0.3	187	15.2	7.9	7.9	34.4	34.4	99.8	99.8	8.1	8.1	2.2	2.2	5	5	82	82	<0.2	1.9						
					7.4	0.3	177	15.2	7.9	7.9	34.9	34.9	99.1	99.1	8.1	8.1	2.4	2.4	4	4	83	83	<0.2	1.5						
					7.4	0.3	193	15.2	7.9	7.9	34.9	34.9	99.1	99.1	8.0	8.0	2.4	2.4	4	4	83	83	<0.2	1.7						
IM4	Cloudy	Moderate	15:11	8.0	Surface	1.0	0.4	221	15.3	15.3	7.8	7.8	33.4	33.4	98.9	98.9	8.1	8.1	2.3	2.3	4	4	81	81	81	819557	805037	<0.2	1.8	1.5
						1.0	0.4	238	15.3	7.8	7.8	33.4	33.4	98.9	98.9	8.1	8.1	2.2	2.2	6	6	80	80	<0.2				1.9		
						4.0	0.4	199	15.3	7.9	7.9	33.9	33.9	99.9	99.9	8.1	8.1	3.0	3.0	6	6	81	81	<0.2				1.3		
					4.0	0.4	206	15.3	7.9	7.9	33.9	33.9	99.9	99.9	8.1	8.1	3.0	3.0	5	5	82	82	<0.2	1.2						
					7.0	0.5	167	15.2	7.9	7.9	34.8	34.8	99.7	99.7	8.1	8.1	3.5	3.5	7	7	82	82	<0.2	1.2						
					7.0	0.6	175	15.2	7.9	7.9	34.8	34.8	99.7	99.7	8.1	8.1	3.5	3.5	6	6	82	82	<0.2	1.4						
IM5	Cloudy	Moderate	15:04	6.9	Surface	1.0	0.4	228	15.3	15.3	7.8	7.8	33.2	33.2	98.3	98.3	8.0	8.0	2.5	2.5	5	5	80	80	81	820562	804910	<0.2	1.6	1.5
						1.0	0.5	245	15.3	7.8	7.8	33.2	33.2	98.3	98.3	8.0	8.0	2.5	2.5	4	4	79	79	<0.2				1.5		
						3.5	0.3	216	15.3	7.9	7.9	33.6	33.6	99.2	99.2	8.1	8.1	3.0	3.0	7	7	81	81	<0.2				1.7		
					3.5	0.4	221	15.3	7.9	7.9	33.6	33.6	99.2	99.2	8.1	8.1	3.0	3.0	7	7	81	81	<0.2	1.9						
					5.9	0.4	178	15.2	7.9	7.9	34.9	34.9	99.1	99.1	8.0	8.0	4.9	4.9	7	7	81	81	<0.2	1.0						
					5.9	0.4	190	15.2	7.9	7.9	34.9	34.9	99.1	99.1	8.0	8.0	4.9	4.9	8	8	82	82	<0.2	1.1						
IM6	Cloudy	Moderate	14:56	6.6	Surface	1.0	0.4	245	15.3	15.3	7.8	7.8	33.2	33.2	98.2	98.2	8.0	8.0	3.5	3.5	7	7	82	82	83	821055	805811	<0.2	1.4	1.1
						1.0	0.4	246	15.3	7.8	7.8	33.2	33.2	98.2	98.2	8.0	8.0	3.5	3.5	7	7	82	82	<0.2				1.6		
						3.3	0.4	229	15.2	7.9	7.9	33.7	33.7	99.1	99.1	8.1	8.1	5.3	5.3	7	7	83	83	<0.2				1.2		
					3.3	0.4	229	15.2	7.9	7.9	33.7	33.7	99.1	99.1	8.1	8.1	5.3	5.3	7	7	83	83	<0.2	1.1						
					5.6	0.4	217	15.1	7.9	7.9	34.9	34.9	99.0	99.0	8.0	8.0	9.5	9.5	7	7	84	84	<0.2	0.7						
					5.6	0.4	222	15.1	7.9	7.9	34.9	34.9	99.0	99.0	8.0	8.0	9.3	9.3	8	8	84	84	<0.2	0.6						
IM7	Cloudy	Moderate	14:49	7.9	Surface	1.0	0.3	218	15.2	15.2	7.8	7.8	32.8	32.8	97.1	97.1	8.0	8.0	2.9	2.9										

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Moderate	15:29	7.2	Surface	1.0	0.4	234	18.1	18.1	8.0	8.0	29.0	29.0	96.1	96.1	7.6	7.6	5.4	4	4	77	81	82	82	822111	808806	<0.2	<0.2	1.3	1.3			
						1.0	0.4	242	18.1	18.1	8.0	8.0	29.0	29.0	96.1	96.1	7.6	7.6	5.4	4	4	78	81	82	82	82	82	822111	808806	<0.2	<0.2	1.4	1.4	
					Middle	3.6	0.4	235	18.1	18.1	8.0	8.0	29.3	29.3	96.6	96.6	7.7	7.7	5.8	6	6	82	81	81	81	81	81	822111	808806	<0.2	<0.2	1.6	1.6	
						3.6	0.4	243	18.1	18.1	8.0	8.0	29.3	29.3	96.6	96.6	7.7	7.7	5.8	6	6	81	81	81	81	81	81	822111	808806	<0.2	<0.2	1.6	1.6	
					Bottom	6.2	0.4	227	18.1	18.1	8.0	8.0	29.7	29.7	96.5	96.5	7.6	7.6	7.4	6	6	84	84	84	84	84	84	822111	808806	<0.2	<0.2	1.0	1.0	
						6.2	0.4	241	18.1	18.1	8.0	8.0	29.7	29.7	96.5	96.5	7.6	7.6	7.4	6	6	84	84	84	84	84	84	822111	808806	<0.2	<0.2	1.0	1.0	
IM10	Cloudy	Moderate	15:39	7.1	Surface	1.0	0.4	274	18.2	18.2	8.0	8.0	29.0	29.0	94.6	94.6	7.5	7.5	4.5	4	4	78	81	81	81	822251	809834	<0.2	<0.2	1.3	1.3			
						1.0	0.4	284	18.2	18.2	8.0	8.0	29.0	29.0	94.6	94.6	7.5	7.5	4.5	4	4	78	81	81	81	81	81	822251	809834	<0.2	<0.2	1.2	1.2	
					Middle	3.6	0.4	271	18.1	18.1	8.0	8.0	29.5	29.5	94.3	94.3	7.5	7.5	7.4	3	3	82	82	82	82	82	82	822251	809834	<0.2	<0.2	1.1	1.1	
						3.6	0.4	285	18.1	18.1	8.0	8.0	29.5	29.5	94.2	94.2	7.5	7.5	7.4	3	3	82	82	82	82	82	82	822251	809834	<0.2	<0.2	1.3	1.3	
					Bottom	6.1	0.3	247	18.0	18.0	8.0	8.0	30.1	30.1	90.6	90.6	7.2	7.2	8.3	9	9	84	84	84	84	84	84	822251	809834	<0.2	<0.2	1.1	1.1	
						6.1	0.4	249	18.0	18.0	8.0	8.0	30.1	30.1	90.5	90.6	7.2	7.2	8.4	9	9	84	84	84	84	84	84	822251	809834	<0.2	<0.2	1.1	1.1	
IM11	Cloudy	Moderate	15:49	8.1	Surface	1.0	0.6	261	18.1	18.1	8.0	8.0	29.2	29.2	96.2	96.2	7.6	7.6	3.8	4	4	79	82	82	82	821514	810525	<0.2	<0.2	1.1	1.1			
						1.0	0.6	272	18.1	18.1	8.0	8.0	29.2	29.2	96.2	96.2	7.6	7.6	3.9	5	5	79	82	82	82	82	82	821514	810525	<0.2	<0.2	1.2	1.2	
					Middle	4.1	0.4	270	18.1	18.1	8.0	8.0	29.7	29.7	95.0	95.0	7.5	7.5	5.2	3	3	82	82	82	82	82	82	821514	810525	<0.2	<0.2	1.4	1.4	
						4.1	0.4	279	18.1	18.1	8.0	8.0	29.7	29.7	95.0	95.0	7.5	7.5	5.3	3	3	82	82	82	82	82	82	821514	810525	<0.2	<0.2	1.2	1.2	
					Bottom	7.1	0.3	256	18.0	18.0	8.0	8.0	30.1	30.1	92.9	92.9	7.3	7.3	6.2	4	4	84	84	84	84	84	84	821514	810525	<0.2	<0.2	1.2	1.2	
						7.1	0.3	261	18.0	18.0	8.0	8.0	30.1	30.1	92.8	92.9	7.3	7.3	6.2	5	5	84	84	84	84	84	84	821514	810525	<0.2	<0.2	1.1	1.1	
IM12	Cloudy	Moderate	15:58	9.5	Surface	1.0	0.6	274	18.0	18.0	8.0	8.0	29.8	29.8	93.4	93.4	7.4	7.4	6.9	9	9	79	82	82	82	821155	811519	<0.2	<0.2	1.0	1.0			
						1.0	0.6	288	18.0	18.0	8.0	8.0	29.8	29.8	93.3	93.4	7.4	7.4	6.9	10	10	78	82	82	82	82	82	821155	811519	<0.2	<0.2	1.3	1.3	
					Middle	4.8	0.5	266	18.0	18.0	8.0	8.0	29.9	29.9	91.3	91.3	7.2	7.2	9.8	9	9	83	83	83	83	83	83	821155	811519	<0.2	<0.2	1.1	1.1	
						4.8	0.5	266	18.0	18.0	8.0	8.0	29.9	29.9	91.2	91.3	7.2	7.2	9.9	9	9	82	83	83	83	83	83	821155	811519	<0.2	<0.2	1.1	1.1	
					Bottom	8.5	0.4	257	18.0	18.0	8.0	8.0	30.0	30.0	85.6	85.5	6.8	6.8	11.5	8	8	84	84	84	84	84	84	821155	811519	<0.2	<0.2	1.1	1.1	
						8.5	0.4	271	18.0	18.0	8.0	8.0	30.0	30.0	85.4	85.5	6.8	6.8	11.6	8	8	84	84	84	84	84	84	821155	811519	<0.2	<0.2	0.9	0.9	
SR2	Cloudy	Moderate	16:23	5.0	Surface	1.0	0.5	217	18.0	18.0	8.0	8.0	30.2	30.2	87.4	87.4	6.9	6.9	8.2	10	10	79	82	82	82	821478	814157	<0.2	<0.2	0.9	0.9			
						1.0	0.5	232	18.0	18.0	8.0	8.0	30.1	30.1	87.3	87.4	6.9	6.9	8.0	8	8	80	82	82	82	82	82	821478	814157	<0.2	<0.2	0.8	0.8	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.0	0.4	201	18.0	18.0	8.0	8.0	30.1	30.1	82.2	82.2	6.5	6.5	10.7	8	8	85	85	85	85	85	85	821478	814157	<0.2	<0.2	1.1	1.1	
						4.0	0.4	217	18.0	18.0	8.0	8.0	30.1	30.1	82.2	82.2	6.5	6.5	10.7	10	10	84	84	84	84	84	84	821478	814157	<0.2	<0.2	0.9	0.9	
SR3	Cloudy	Moderate	15:15	9.2	Surface	1.0	0.3	215	18.1	18.1	7.9	7.9	28.6	28.6	93.4	93.4	7.4	7.4	4.2	4	4	-	-	-	-	822155	807573	-	-	-	-			
						1.0	0.4	227	18.1	18.1	7.9	7.9	28.6	28.6	93.4	93.4	7.4	7.4	4.2	3	3	-	-	-	-	-	-	822155	807573	-	-	-	-	
					Middle	4.6	0.3	186	18.1	18.1	8.0	8.0	29.3	29.3	90.8	90.8	7.2	7.2	5.1	6	6	-	-	-	-	-	-	822155	807573	-	-	-	-	
						4.6	0.3	204	18.1	18.1	8.0	8.0	29.3	29.3	90.8	90.8	7.2	7.2	5.1	5	5	-	-	-	-	-	-	822155	807573	-	-	-	-	
					Bottom	8.2	0.4	139	18.0	18.0	8.0	8.0	30.6	30.6	79.1	79.1	6.2	6.2	5.4	4	4	-	-	-	-	-	-	822155	807573	-	-	-	-	
						8.2	0.4	146	18.0	18.0	8.0	8.0	30.6	30.6	79.1	79.1	6.2	6.2	5.4	5	5	-	-	-	-	-	-	822155	807573	-	-	-	-	
SR4A	Cloudy	Moderate	16:15	8.5	Surface	1.0	0.3	214	15.1	15.1	7.9	7.9	35.1	35.1	99.4	99.4	8.1	8.1	8.4	11	11	-	-	-	-	817186	807825	-	-	-	-			
						1.0	0.3	219	15.1	15.1	7.9	7.9	35.1	35.1	99.4	99.4	8.1	8.1	8.3	10	10	-	-	-	-	-	-	817186	807825	-	-	-	-	
					Middle	4.3	0.3	214	15.1	15.1	7.9	7.9	35.1	35.1	99.3	99.3	8.1	8.1	7.9	11	11	-	-	-	-	-	-	817186	807825	-	-	-	-	
						4.3	0.3	215	15.1	15.1	7.9	7.9	35.1	35.1	99.3	99.3	8.1	8.1	7.9	12	12	-	-	-	-	-	-	817186	807825	-	-	-	-	
					Bottom	7.5	0.2	202	15.1	15.1	7.9	7.9	35.2	35.2	99.2	99.2	8.0	8.0	8.0	10	10	-	-	-	-	-	-	817186	807825	-	-	-	-	
						7.5	0.3	217	15.1	15.1	7.9	7.9	35.2	35.2	99.2	99.2	8.1	8.1	8.1	11	11	-	-	-	-	-	-	817186	807825	-	-	-	-	
SR5A	Cloudy	Calm	16:34	5.1	Surface	1.0	0.3	219	15.3	15.3	7.8	7.8	33.9	33.9	96.7	96.8	7.9	7.9	7.0	9	9	-	-	-	-	816575	810704	-	-	-	-			
						1.0	0.3	226	15.3	15.3	7.8	7.8	33.9	33.9	96.9	96.9	7.9	7.9	6.6	9	9	-	-	-	-	-	-	816575	810704	-	-	-	-	
					Middle	2.6	-	-	-	-																								

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	
C1	Cloudy	Moderate	11:20	8.4	Surface	1.0	0.4	174	15.2	15.2	7.9	7.9	34.6	34.6	103.4	103.4	8.4	8.4	2.9	8.4	6	6	82	82	815623	804261	<0.2	0.3	<0.2	0.4	
						1.0	0.4	176	15.2	7.9	7.9	34.6	34.6	103.4	103.4	8.4	8.4	2.9	8.4	5	5	82	82	<0.2			0.5				
					Middle	4.2	0.4	210	15.2	15.2	7.9	7.9	34.5	34.5	102.9	102.9	8.4	8.4	3.1	3.1	4	4	83	83			<0.2	0.4	0.4		
						4.2	0.4	220	15.2	15.2	7.9	7.9	34.5	34.5	102.9	102.9	8.4	8.4	3.1	3.1	4	4	83	83			<0.2	0.2			
					Bottom	7.4	0.3	207	15.2	15.2	7.9	7.9	34.5	34.5	102.9	102.9	8.1	8.1	4.7	4.7	5	5	84	84			<0.2	0.3			
						7.4	0.4	215	15.2	15.2	7.9	7.9	34.5	34.5	99.9	99.9	8.1	8.1	3.2	3.2	9	9	85	85			<0.2	0.5			
C2	Cloudy	Moderate	11:58	11.8	Surface	1.0	0.4	166	18.1	18.1	8.0	8.0	28.8	28.8	95.8	95.8	7.6	7.6	5.2	7.6	5	5	77	77	825691	806952	<0.2	1.4		<0.2	1.6
						1.0	0.4	179	18.1	18.1	8.0	8.0	28.8	28.8	95.7	95.7	7.6	7.6	4.5	4.5	5	5	82	82			<0.2	0.8			
					Middle	5.9	0.3	163	18.1	18.1	8.0	8.0	30.0	30.0	95.7	95.7	7.6	7.6	4.5	4.5	5	5	81	81			<0.2	0.7	1.0		
						5.9	0.3	168	18.1	18.1	8.0	8.0	30.2	30.2	95.3	95.3	7.5	7.5	4.7	4.7	5	5	83	83			<0.2	0.8			
					Bottom	10.8	0.2	168	18.1	18.1	8.0	8.0	30.2	30.2	95.3	95.3	7.5	7.5	4.7	4.7	4	4	83	83			<0.2	0.7			
						10.8	0.2	174	18.1	18.1	8.0	8.0	30.2	30.2	95.3	95.3	7.5	7.5	4.7	4.7	4	4	83	83			<0.2	0.7			
C3	Cloudy	Moderate	10:11	12.4	Surface	1.0	0.3	95	18.0	18.0	7.9	7.9	30.7	30.7	91.8	91.8	7.2	7.2	2.9	7.2	4	4	80	80	822121	817803	<0.2	0.5		<0.2	0.6
						1.0	0.3	99	18.0	18.0	7.9	7.9	30.7	30.7	91.8	91.8	7.2	7.2	2.9	7.2	2	2	80	80			<0.2	0.6			
					Middle	6.2	0.3	101	18.0	18.0	7.9	7.9	30.7	30.7	91.6	91.6	7.2	7.2	3.0	3.0	4	4	82	82			<0.2	0.4	0.5		
						6.2	0.3	108	18.0	18.0	7.9	7.9	30.7	30.7	91.6	91.6	7.2	7.2	3.0	3.0	3	3	83	83			<0.2	0.4			
					Bottom	11.4	0.2	107	18.0	18.0	7.9	7.9	30.8	30.8	91.9	91.9	7.2	7.2	3.7	3.7	3	3	84	84			<0.2	0.5			
						11.4	0.3	108	18.0	18.0	7.9	7.9	30.8	30.8	91.9	91.9	7.2	7.2	3.7	3.7	3	3	85	85			<0.2	0.4			
IM1	Cloudy	Moderate	11:39	7.2	Surface	1.0	0.3	168	15.0	15.0	7.9	7.9	34.4	34.4	100.7	100.7	8.2	8.2	4.1	8.2	4	4	80	80	818337	806464	<0.2	0.2		<0.2	0.2
						1.0	0.3	170	15.0	15.0	7.9	7.9	34.4	34.4	100.6	100.6	8.2	8.2	4.1	4.1	4	4	80	80			<0.2	0.2			
					Middle	3.6	0.3	152	15.1	15.1	7.9	7.9	34.5	34.5	99.8	99.8	8.1	8.1	4.0	4.0	3	3	81	81			<0.2	0.3	0.3		
						3.6	0.3	157	15.1	15.1	7.9	7.9	34.5	34.5	99.8	99.8	8.1	8.1	4.0	4.0	3	3	81	81			<0.2	0.4			
					Bottom	6.2	0.3	154	15.1	15.1	7.9	7.9	34.6	34.6	98.3	98.3	8.0	8.0	3.9	3.9	5	5	82	82			<0.2	0.4			
						6.2	0.3	158	15.1	15.1	7.9	7.9	34.6	34.6	98.3	98.3	8.0	8.0	3.9	3.9	5	5	82	82			<0.2	0.4			
IM2	Cloudy	Moderate	11:45	8.3	Surface	1.0	0.3	194	15.1	15.1	7.8	7.8	33.7	33.7	99.7	99.7	8.2	8.2	2.2	8.2	3	3	80	80	818837	806212	<0.2	0.5		<0.2	0.5
						1.0	0.3	194	15.1	15.1	7.8	7.8	33.7	33.7	99.7	99.7	8.2	8.2	2.2	2.2	4	4	80	80			<0.2	0.5			
					Middle	4.2	0.3	173	15.0	15.0	7.9	7.9	34.4	34.4	99.8	99.8	8.2	8.2	4.0	4.0	6	6	81	81			<0.2	0.6	0.7		
						4.2	0.3	180	15.0	15.0	7.9	7.9	34.4	34.4	99.8	99.8	8.2	8.2	4.1	4.1	7	7	81	81			<0.2	0.7			
					Bottom	7.3	0.3	180	15.0	15.0	7.9	7.9	34.5	34.5	98.5	98.5	8.0	8.0	3.4	3.4	5	5	82	82			<0.2	0.8			
						7.3	0.3	185	15.0	15.0	7.9	7.9	34.5	34.5	98.5	98.5	8.0	8.0	3.4	3.4	5	5	83	83			<0.2	1.0			
IM3	Cloudy	Moderate	11:53	8.5	Surface	1.0	0.3	214	15.2	15.2	7.8	7.8	33.2	33.2	98.7	98.8	8.1	8.1	2.8	8.1	4	4	81	81	819406	806038	<0.2	1.0		<0.2	1.0
						1.0	0.3	228	15.2	15.2	7.8	7.8	33.2	33.2	98.8	98.8	8.1	8.1	2.7	2.7	3	3	81	81			<0.2	1.0			
					Middle	4.3	0.3	173	15.1	15.1	7.9	7.9	34.2	34.2	100.0	100.0	8.2	8.2	4.0	4.0	4	4	82	82			<0.2	0.9	1.0		
						4.3	0.3	175	15.1	15.1	7.9	7.9	34.2	34.2	100.0	100.0	8.2	8.2	4.0	4.0	4	4	82	82			<0.2	1.0			
					Bottom	7.5	0.3	166	15.1	15.1	7.9	7.9	34.3	34.3	98.0	98.0	8.0	8.0	10.7	10.7	6	6	83	83			<0.2	1.0			
						7.5	0.3	169	15.1	15.1	7.9	7.9	34.3	34.3	98.0	98.0	8.0	8.0	10.7	10.7	7	7	83	83			<0.2	1.2			
IM4	Cloudy	Moderate	12:00	7.8	Surface	1.0	0.3	185	15.1	15.1	7.9	7.9	34.0	34.0	100.9	100.9	8.3	8.3	3.2	8.3	4	4	82	82	819580	805042	<0.2	0.7		<0.2	0.7
						1.0	0.4	199	15.1	15.1	7.9	7.9	34.0	34.0	100.9	100.9	8.2	8.2	3.2	3.2	4	4	82	82			<0.2	0.9			
					Middle	3.9	0.3	182	15.1	15.1	7.9	7.9	34.1	34.1	100.1	100.1	8.2	8.2	3.4	3.4	4	4	83	83			<0.2	1.0	0.9		
						3.9	0.3	196	15.1	15.1	7.9	7.9	34.1	34.1	100.1	100.1	8.2	8.2	3.4	3.4	5	5	83	83			<0.2	1.0			
					Bottom	6.8	0.3	185	15.1	15.1	7.9	7.9	34.5	34.5	98.9	98.9	8.1	8.1	3.8	3.8	6	6	84	84			<0.2	1.0			
						6.8	0.3	202	15.1	15.1	7.9	7.9	34.5	34.5	98.9	98.9	8.1	8.1	3.8	3.8	7	7	84	84			<0.2	1.1			
IM5	Cloudy	Moderate	12:09	6.6	Surface	1.0	0.3	183	15.1	15.1	7.9	7.9	33.6	33.6	100.2	100.2	8.2	8.2	4.3	8.2	5	5	79	79	820544	804921	<0.2	1.7		<0.2	1.9
						1.0	0.4	186	15.1	15.1	7.9	7.9	33.6	33.6	100.2	100.2	8.2	8.2	4.3	4.3	4	4	79	79			<0.2	1.9			
					Middle	3.3	0.3	176	15.1	15.1	7.9	7.9	33.9	33.9	100.1	100.1	8.2	8.2	5.8	5.8	5	5	80	80			<0.2	0.9	1.1		
						3.3	0.3	193	15.1	15.1	7.9	7.9	33.9	33.9	100.1	100.1	8.2	8.2	5.8	5.8	5	5	81	81			<0.2	1.1			
					Bottom	5.6	0.3	163	15.1	15.1	7.9	7.9	34.3	34.3	99.8	99.8	8.1	8.1	8.4	8.4	7	7	81	81			<0.2	0.6			
						5.6	0.3	172	15.1	15.1	7.9	7.9	34.3	34.3	99.8	99.8	8.1	8.1	8.4	8.4	7	7	81	81			<0.2	0.6			
IM6	Cloudy	Moderate	12:17	6.8	Surface	1.0	0.4	163	15.1	15.1	7.8	7.8	33.4	33.4	99.0	99.0	8.1	8.1	3.2	8.1	5	5	80	80	821064	805841	<0.2	1.0		<0.2	0.8
						1.0	0.4	172	15.1	15.1	7.8	7.8	33.3	33.4	99.0	99.0	8.1	8.1	3.2	3.2	4	4	81	81			<0.2	0.8			
					Middle	3.4	0.3	155	15.1	15.1	7.8	7.8	33.9	33.9	99.3	99.3	8.1	8.1	3.9	3.9	5	5	81	81			<0.2	0.9	0.9		
						3.4	0.4	163	15.1	15.1	7.8	7.8	33.9	33.9	99.3	99.3	8.1	8.1	3.9	3.9	5	5	82	82			<0.2	0.9			
					Bottom	5.8	0.4	151	15.1	15.1	7.9	7.9	3																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Moderate	11:22	7.0	Surface	1.0	0.5	135	18.1	18.1	8.0	8.0	29.0	29.0	97.9	97.9	7.8	7.8	5.6	6	77	6	81	81	822087	808796	<0.2	1.6	<0.2	1.4				
						1.0	0.5	144	18.1	8.0	8.0	29.0	29.0	97.9	97.9	7.8	7.8	5.6	5	76	76	6.0	6	81	81	<0.2	1.6	<0.2	1.4					
					Middle	3.5	0.5	148	18.0	8.0	8.0	29.8	29.8	99.0	99.0	7.8	7.8	6.0	6	82	82	6.0	6	82	82	<0.2	1.8	<0.2	1.2	<0.2	1.2	<0.2	1.2	
						3.5	0.5	159	18.0	8.0	8.0	29.8	29.8	99.0	99.0	7.8	7.8	6.0	6	82	82	7.1	7	83	83	<0.2	1.4	<0.2	1.2	<0.2	1.2	<0.2	1.4	
					Bottom	6.0	0.4	162	18.0	8.0	8.0	30.4	30.4	98.8	98.8	7.8	7.8	7.1	7	84	84	7.1	7	84	84	<0.2	1.5	<0.2	1.2	<0.2	1.2	<0.2	1.2	
						6.0	0.5	172	18.0	8.0	8.0	30.4	30.4	98.8	98.8	7.8	7.8	7.1	7	84	84	7.1	7	84	84	<0.2	1.5	<0.2	1.2	<0.2	1.2	<0.2	1.2	
IM10	Cloudy	Moderate	11:14	7.8	Surface	1.0	0.4	146	18.0	18.0	8.0	8.0	29.5	29.5	97.8	97.8	7.8	7.8	6.0	2	77	2	81	81	822235	809836	<0.2	1.5	<0.2	1.6	<0.2	1.1		
						1.0	0.4	159	18.0	8.0	8.0	29.5	29.5	97.8	97.8	7.8	7.8	6.0	4	77	77	6.8	4	82	82	<0.2	1.6	<0.2	1.1	<0.2	1.2	<0.2	1.2	
					Middle	3.9	0.4	145	18.0	8.0	8.0	29.8	29.8	97.9	97.9	7.8	7.8	6.8	5	82	82	6.8	5	82	82	<0.2	1.8	<0.2	1.2	<0.2	1.2	<0.2	1.2	
						3.9	0.4	148	18.0	8.0	8.0	29.8	29.8	97.9	97.9	7.8	7.8	6.8	5	82	82	8.8	5	84	84	<0.2	1.2	<0.2	1.2	<0.2	1.2	<0.2	1.2	
					Bottom	6.8	0.4	148	18.0	8.0	8.0	30.2	30.2	98.0	98.0	7.8	7.8	8.8	4	84	84	8.8	4	84	84	<0.2	1.2	<0.2	1.2	<0.2	1.2	<0.2	1.2	
						6.8	0.4	151	18.0	8.0	8.0	30.2	30.2	98.0	98.0	7.8	7.8	8.8	4	84	84	8.8	4	84	84	<0.2	1.2	<0.2	1.2	<0.2	1.2	<0.2	1.2	
IM11	Cloudy	Moderate	11:06	8.0	Surface	1.0	0.4	134	18.0	18.0	8.0	8.0	29.9	29.9	96.9	96.9	7.7	7.7	8.0	7	78	7	81	81	821516	810547	<0.2	1.6	<0.2	1.7	<0.2	1.6		
						1.0	0.4	146	18.0	8.0	8.0	29.9	29.9	96.9	96.9	7.7	7.7	8.0	6	78	78	7.8	7	81	81	<0.2	1.8	<0.2	1.7	<0.2	1.4	<0.2	1.4	
					Middle	4.0	0.4	141	18.0	8.0	8.0	30.0	30.0	96.7	96.7	7.7	7.7	7.8	7	82	82	7.8	7	81	81	<0.2	1.7	<0.2	1.8	<0.2	1.2	<0.2	1.2	
						4.0	0.4	149	18.0	8.0	8.0	30.0	30.0	96.7	96.7	7.7	7.7	7.8	7	81	81	7.8	7	81	81	<0.2	1.7	<0.2	1.8	<0.2	1.2	<0.2	1.2	
					Bottom	7.0	0.4	136	18.0	8.0	8.0	30.0	30.0	97.3	97.3	7.7	7.7	7.8	9	84	84	7.8	9	84	84	<0.2	1.4	<0.2	1.4	<0.2	1.2	<0.2	1.2	
						7.0	0.4	148	18.0	8.0	8.0	30.0	30.0	97.3	97.3	7.7	7.7	7.8	9	84	84	7.8	9	84	84	<0.2	1.5	<0.2	1.5	<0.2	1.2	<0.2	1.2	
IM12	Cloudy	Moderate	10:58	8.8	Surface	1.0	0.4	120	18.0	18.0	8.0	8.0	29.8	29.8	96.6	96.6	7.7	7.7	6.0	4	78	4	81	81	821173	811528	<0.2	1.6	<0.2	1.8	<0.2	1.0		
						1.0	0.4	129	18.0	8.0	8.0	29.8	29.8	96.6	96.6	7.7	7.7	6.0	5	79	79	6.4	6	83	83	<0.2	1.0	<0.2	1.0	<0.2	1.2	<0.2	1.2	
					Middle	4.4	0.4	123	18.0	8.0	8.0	30.0	30.0	96.0	96.0	7.6	7.6	6.4	6	83	83	6.4	6	83	83	<0.2	1.0	<0.2	1.0	<0.2	1.2	<0.2	1.2	
						4.4	0.4	126	18.0	8.0	8.0	30.0	30.0	96.0	96.0	7.6	7.6	6.4	8	82	82	6.7	7	84	84	<0.2	0.9	<0.2	0.9	<0.2	1.0	<0.2	1.0	
					Bottom	7.8	0.4	105	18.0	8.0	8.0	30.0	30.0	95.7	95.7	7.6	7.6	6.7	7	84	84	6.7	7	84	84	<0.2	0.9	<0.2	0.9	<0.2	1.0	<0.2	1.0	
						7.8	0.5	113	18.0	8.0	8.0	30.0	30.0	95.7	95.7	7.6	7.6	6.7	7	84	84	6.7	7	84	84	<0.2	1.0	<0.2	1.0	<0.2	1.0	<0.2	1.0	
SR2	Cloudy	Moderate	10:35	3.9	Surface	1.0	0.3	116	18.0	18.0	8.0	8.0	29.9	29.9	94.7	94.7	7.5	7.5	5.6	5	81	5	80	80	821474	814147	<0.2	1.4	<0.2	1.4	<0.2	1.4		
						1.0	0.3	119	18.0	8.0	8.0	29.9	29.9	94.7	94.7	7.5	7.5	5.6	5	80	80	5.9	6	85	85	<0.2	1.5	<0.2	1.5	<0.2	1.5			
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	2.9	0.2	155	18.0	8.0	8.0	30.0	30.0	94.6	94.6	7.5	7.5	5.9	6	85	85	5.9	5	84	84	<0.2	1.5	<0.2	1.5	<0.2	1.5	<0.2	1.5	
						2.9	0.2	157	18.0	8.0	8.0	30.0	30.0	94.6	94.6	7.5	7.5	5.9	5	84	84	5.9	5	84	84	<0.2	1.5	<0.2	1.5	<0.2	1.5	<0.2	1.5	
SR3	Cloudy	Moderate	11:36	8.7	Surface	1.0	0.4	183	18.1	18.1	7.9	7.9	28.7	28.7	97.3	97.3	7.7	7.7	5.8	6	-	6	-	-	822159	807555	-	-	-	-	-			
						1.0	0.5	191	18.1	7.9	7.9	28.7	28.7	97.3	97.3	7.7	7.7	5.9	6	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	4.4	0.3	148	18.0	8.0	8.0	29.9	29.9	99.3	99.4	7.9	7.9	7.7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						4.4	0.3	154	18.0	8.0	8.0	29.8	29.8	99.4	99.4	7.9	7.9	7.7	5	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	7.7	0.3	172	18.0	8.1	8.1	30.5	30.5	99.9	99.9	7.9	7.9	8.3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						7.7	0.4	184	18.0	8.1	8.1	30.5	30.5	99.9	99.9	7.9	7.9	8.3	6	-	-	-	-	-	-	-	-	-	-	-	-	-		
SR4A	Cloudy	Moderate	10:59	9.2	Surface	1.0	0.4	117	15.0	15.0	7.8	7.8	33.5	33.5	99.3	99.3	8.2	8.2	7.2	8	-	8	-	-	817174	807815	-	-	-	-	-			
						1.0	0.4	125	15.0	7.8	7.8	33.5	33.5	99.3	99.3	8.2	8.2	7.3	9	-	-	-	-	-	-	-	-	-	-	-				
					Middle	4.6	0.4	105	15.0	7.8	7.8	33.5	33.5	99.1	99.1	8.1	8.1	7.5	10	-	-	-	-	-	-	-	-	-	-	-	-			
						4.6	0.4	106	15.0	7.8	7.8	33.5	33.5	99.1	99.1	8.1	8.1	7.5	8	-	-	-	-	-	-	-	-	-	-	-				
					Bottom	8.2	0.3	122	15.0	7.8	7.8	33.5	33.5	98.6	98.6	8.1	8.1	7.4	9	-	-	-	-	-	-	-	-	-	-	-				
						8.2	0.4	124	15.0	7.8	7.8	33.5	33.5	98.6	98.6	8.1	8.1	7.4	9	-	-	-	-	-	-	-	-	-	-					
SR5A	Cloudy	Calm	10:41	4.1	Surface	1.0	0.1	233	15.3	15.3	7.7	7.7	31.5	31.5	94.7	94.7	7.8	7.8	4.8	5	-	5	-	-	816608	810676	-	-	-	-	-			
						1.0	0.2	251	15.3	7.7	7.7	31.5	31.5	94.7	94.7	7.8	7.8	4.8	6	-	-	-	-	-	-	-	-	-						
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
					Bottom	3.1	0.1	210	15.2	7.7	7.7	31.6	31.6	94.9																				

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

Water Quality Monitoring

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

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
									Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value			Value	Value	Value	Value
C1	Cloudy	Moderate	07:07	8.7	Surface	1.0	0.6	92	15.3	7.9	7.9	32.5	32.5	98.3	98.3	8.1	8.1	6.5	6.5	11	79	79	81	815620	804242	<0.2	0.8	0.6	0.6	
						1.0	0.7	96	15.3	7.9	7.9	32.5	32.5	98.2	98.2	8.1	8.1	6.6	6.6	9	80	80	81	81	<0.2	0.7	0.6	0.6		
						4.4	0.6	98	15.3	7.9	7.9	32.9	32.9	97.7	97.7	8.0	8.0	10.9	10.9	16	81	81	81	81	<0.2	0.6	0.6	0.6		
					4.4	0.6	99	15.3	7.9	7.9	32.9	32.9	97.7	97.7	8.0	8.0	11.0	11.0	18	81	81	81	81	<0.2	0.7	0.6	0.6			
					7.7	0.6	75	15.3	7.9	7.9	33.5	33.5	97.2	97.2	7.9	7.9	17.2	17.2	25	81	81	81	81	<0.2	0.5	0.6	0.6			
					7.7	0.6	76	15.3	7.9	7.9	33.5	33.5	97.1	97.2	7.9	7.9	16.8	16.8	26	82	82	81	81	<0.2	0.5	0.6	0.6			
C2	Cloudy	Moderate	07:28	12.4	Surface	1.0	0.3	164	18.2	7.9	7.9	27.3	27.3	93.5	93.5	7.5	7.5	7.8	7.8	6	76	76	81	825690	806951	<0.2	2.0	1.9	1.9	
						1.0	0.3	166	18.2	7.9	7.9	27.3	27.3	93.5	93.5	7.5	7.5	7.8	7.8	7	77	77	81	81	<0.2	2.1	2.1	2.1		
						6.2	0.2	131	18.2	7.9	7.9	28.0	28.0	93.7	93.7	7.5	7.5	10.5	10.5	6	81	81	81	81	<0.2	2.1	2.1	2.1		
					6.2	0.2	137	18.2	7.9	7.9	28.0	28.0	93.7	93.7	7.5	7.5	10.5	10.5	6	82	82	81	81	<0.2	2.0	2.0	2.0			
					11.4	0.3	265	18.2	8.0	8.0	29.9	29.9	97.0	97.0	7.7	7.7	27.2	27.2	11	83	83	81	81	<0.2	1.6	1.6	1.6			
					11.4	0.3	284	18.2	8.0	8.0	29.9	29.9	97.0	97.0	7.7	7.7	27.2	27.2	11	84	84	81	81	<0.2	1.8	1.8	1.8			
C3	Cloudy	Moderate	05:41	12.3	Surface	1.0	0.3	250	18.1	8.0	8.0	30.9	30.9	91.2	91.2	7.2	7.2	7.9	7.9	10	80	80	82	822113	817819	<0.2	0.6	0.6	0.6	
						1.0	0.4	253	18.1	8.0	8.0	30.9	30.9	91.2	91.2	7.2	7.2	7.9	7.9	10	80	80	82	82	<0.2	0.5	0.5	0.5		
						6.2	0.3	248	18.1	8.0	8.0	30.9	30.9	91.1	91.1	7.2	7.2	7.2	7.2	9	83	83	82	82	<0.2	0.6	0.6	0.6		
					6.2	0.3	255	18.1	8.0	8.0	30.9	30.9	91.1	91.1	7.2	7.2	7.2	7.2	11	82	82	82	82	<0.2	0.5	0.5	0.5			
					11.3	0.3	256	18.1	8.0	8.0	30.9	30.9	91.0	91.0	7.2	7.2	9.2	9.2	12	84	84	82	82	<0.2	0.5	0.5	0.5			
					11.3	0.4	276	18.1	8.0	8.0	30.9	30.9	91.0	91.0	7.2	7.2	9.2	9.2	14	85	85	82	82	<0.2	0.6	0.6	0.6			
IM1	Cloudy	Moderate	07:26	7.8	Surface	1.0	0.4	165	15.4	7.9	7.9	33.3	33.3	98.2	98.2	8.0	8.0	12.1	12.1	16	79	79	81	818363	806468	<0.2	0.6	0.7	0.7	
						1.0	0.4	179	15.4	7.9	7.9	33.3	33.3	98.2	98.2	8.0	8.0	12.2	12.2	18	79	79	81	81	<0.2	0.8	0.8	0.8		
						3.9	0.4	148	15.4	7.9	7.9	33.4	33.4	97.9	97.9	8.0	8.0	19.8	19.8	27	80	80	81	81	<0.2	0.6	0.6	0.6		
					3.9	0.5	162	15.4	7.9	7.9	33.4	33.4	97.9	97.9	8.0	8.0	20.0	20.0	28	81	81	81	81	<0.2	0.7	0.7	0.7			
					6.8	0.4	134	15.4	7.9	7.9	33.5	33.5	98.0	98.0	8.0	8.0	24.2	24.2	37	82	82	81	81	<0.2	0.7	0.7	0.7			
					6.8	0.4	137	15.4	7.9	7.9	33.5	33.5	98.0	98.0	8.0	8.0	24.0	24.0	35	82	82	81	81	<0.2	0.7	0.7	0.7			
IM2	Cloudy	Moderate	07:31	8.8	Surface	1.0	0.4	161	15.4	7.9	7.9	33.4	33.4	97.9	97.9	8.0	8.0	13.3	13.3	19	81	81	82	818840	806193	<0.2	0.6	0.6	0.6	
						1.0	0.4	166	15.4	7.9	7.9	33.4	33.4	97.9	97.9	8.0	8.0	13.4	13.4	20	80	80	81	81	<0.2	0.6	0.6	0.6		
						4.4	0.4	99	15.4	7.9	7.9	33.4	33.4	97.7	97.7	8.0	8.0	16.2	16.2	20	81	81	82	82	<0.2	0.6	0.6	0.6		
					4.4	0.4	103	15.4	7.9	7.9	33.4	33.4	97.7	97.7	8.0	8.0	16.2	16.2	18	81	81	82	82	<0.2	0.6	0.6	0.6			
					7.8	0.3	57	15.4	7.9	7.9	33.5	33.5	97.4	97.4	7.9	7.9	24.0	24.0	34	82	82	82	82	<0.2	0.7	0.7	0.7			
					7.8	0.4	60	15.4	7.9	7.9	33.5	33.5	97.3	97.4	7.9	7.9	23.9	23.9	34	83	83	82	82	<0.2	0.7	0.7	0.7			
IM3	Cloudy	Moderate	07:39	9.0	Surface	1.0	0.5	157	15.4	7.9	7.9	33.4	33.4	97.8	97.8	8.0	8.0	15.5	15.5	21	80	80	82	819395	806000	<0.2	0.7	0.7	0.7	
						1.0	0.5	162	15.4	7.9	7.9	33.4	33.4	97.8	97.8	8.0	8.0	15.5	15.5	22	81	81	82	82	<0.2	0.7	0.7	0.7		
						4.5	0.4	146	15.4	7.9	7.9	33.4	33.4	97.6	97.6	8.0	8.0	19.8	19.8	21	82	82	82	82	<0.2	0.7	0.7	0.7		
					4.5	0.5	157	15.4	7.9	7.9	33.4	33.4	97.5	97.5	8.0	8.0	20.0	20.0	22	82	82	82	82	<0.2	0.7	0.7	0.7			
					8.0	0.5	114	15.4	7.9	7.9	33.4	33.4	97.4	97.4	8.0	8.0	26.2	26.2	31	83	83	82	82	<0.2	0.7	0.7	0.7			
					8.0	0.5	114	15.4	7.9	7.9	33.4	33.4	97.4	97.4	7.9	7.9	26.1	26.1	33	83	83	82	82	<0.2	0.9	0.9	0.9			
IM4	Cloudy	Moderate	07:48	8.3	Surface	1.0	0.5	153	15.3	7.8	7.8	33.0	33.0	98.0	98.0	8.0	8.0	6.2	6.2	10	81	81	83	819569	805057	<0.2	0.9	0.8	0.8	
						1.0	0.5	156	15.3	7.8	7.8	33.0	33.0	98.0	98.0	8.0	8.0	6.3	6.3	11	82	82	83	83	<0.2	1.0	1.0	1.0		
						4.2	0.5	126	15.3	7.8	7.8	33.0	33.0	97.7	97.7	8.0	8.0	8.3	8.3	10	81	81	83	83	<0.2	0.8	0.8	0.8		
					4.2	0.5	132	15.3	7.8	7.8	33.0	33.0	97.7	97.7	8.0	8.0	8.4	8.4	11	83	83	83	83	<0.2	0.9	0.9	0.9			
					7.3	0.5	169	15.3	7.9	7.9	34.2	34.2	97.5	97.5	7.9	7.9	19.1	19.1	22	84	84	83	83	<0.2	0.5	0.5	0.5			
					7.3	0.6	181	15.3	7.9	7.9	34.2	34.2	97.5	97.5	7.9	7.9	19.2	19.2	21	84	84	83	83	<0.2	0.5	0.5	0.5			
IM5	Cloudy	Moderate	07:55	7.2	Surface	1.0	0.5	153	15.3	7.9	7.9	33.2	33.2	97.8	97.8	8.0	8.0	11.2	11.2	13	80	80	81	820583	804942	<0.2	0.8	0.8	0.8	
						1.0	0.5	157	15.3	7.9	7.9	33.2	33.2	97.8	97.8	8.0	8.0	11.2	11.2	11	81	81	82	82	<0.2	0.9	0.9	0.9		
						3.6	0.5	159	15.3	7.9	7.9	33.3	33.3	97.4	97.4	8.0	8.0	16.5	16.5	23	81	81	82	82	<0.2	0.7	0.7	0.7		
					3.6	0.6	163	15.4	7.9	7.9	33.3	33.3	97.4	97.4	8.0	8.0	16.4	16.4	23	82	82	81	81	<0.2	0.7	0.7	0.7			
					6.2	0.5	156	15.3	7.8	7.8	33.3	33.3	97.4	97.4	8.0	8.0	19.3	19.3	32	82	82	81	81	<0.2	0.8	0.8	0.8			
					6.2	0.5	166	15.3	7.8	7.8	33.3	33.3	97.4	97.4	8.0	8.0	19.0	19.0	33	82	82	81	81	<0.2	0.8	0.8	0.8			
IM6	Cloudy	Moderate	08:03	7.1	Surface	1.0	0.5	129	15.4	7.8	7.8	33.3	33.3	97.8	97.8	8.0	8.0	9.6	9.6	14	82	82	83	821040	805831	<0.2	0.9	0.8	0.8	
						1.0	0.5	129	15.4	7.8	7.8	33.3	33.3	97.8	97.8	8.0	8.0	9.6	9.6	14	82	82	83							

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	12:07	8.6	Surface	1.0	0.4	199	15.4	15.4	7.9	7.9	33.8	33.8	98.5	98.5	8.0	8.0	4.6	4.6	6	6	82	82	815610	804265	<0.2	0.8	<0.2	0.7
						1.0	0.5	211	15.4	7.9	7.9	33.8	33.8	98.5	98.5	8.0	8.0	4.6	4.6	5	5	81	81							
					Middle	4.3	0.3	193	15.4	15.4	7.9	7.9	34.5	34.5	98.2	98.2	8.0	8.0	5.5	5.5	5	6	83	83						
						4.3	0.4	208	15.4	15.4	7.9	7.9	34.5	34.5	98.1	98.2	8.0	8.0	5.5	5.5	5	5	83	83						
					Bottom	7.6	0.3	208	15.3	15.3	7.9	7.9	34.7	34.7	98.1	98.1	7.9	7.9	6.6	6.6	8	8	84	84						
						7.6	0.4	212	15.3	15.3	7.9	7.9	34.7	34.7	98.1	98.1	7.9	7.9	6.3	6.3	8	8	84	84						
C2	Cloudy	Moderate	11:05	12.5	Surface	1.0	0.2	157	18.3	18.3	8.0	8.0	27.7	27.7	95.9	95.9	7.7	7.7	11.2	11.2	8	8	75	75	825687	806952	<0.2	2.0	<0.2	1.7
						1.0	0.3	162	18.3	8.0	8.0	27.7	27.7	95.9	95.9	7.7	7.7	11.2	11.2	7	7	76	76							
					Middle	6.3	0.3	163	18.2	18.2	8.0	8.0	29.7	29.7	96.1	96.1	7.6	7.6	12.6	12.6	8	9	81	81						
						6.3	0.3	178	18.2	18.2	8.0	8.0	29.7	29.7	96.1	96.1	7.6	7.6	12.6	12.6	9	9	82	82						
					Bottom	11.5	0.2	200	18.1	18.1	8.0	8.0	30.0	30.0	96.1	96.1	7.6	7.6	13.8	13.8	10	10	83	83						
						11.5	0.2	204	18.1	18.1	8.0	8.0	30.0	30.0	96.1	96.1	7.6	7.6	13.8	13.8	11	11	84	84						
C3	Cloudy	Moderate	12:54	12.6	Surface	1.0	0.4	86	18.2	18.2	8.0	8.0	30.4	30.4	93.2	93.2	7.3	7.3	6.3	6.3	4	4	81	81	822109	817792	<0.2	0.8	<0.2	0.7
						1.0	0.4	91	18.2	18.2	8.0	8.0	30.4	30.4	93.2	93.2	7.3	7.3	6.4	6.4	4	4	81	81						
					Middle	6.3	0.4	102	18.1	18.1	8.0	8.0	30.7	30.7	92.5	92.5	7.3	7.3	6.9	6.9	5	5	82	82						
						6.3	0.4	108	18.1	18.1	8.0	8.0	30.7	30.7	92.5	92.5	7.3	7.3	6.9	6.9	7	7	83	83						
					Bottom	11.6	0.4	120	18.1	18.1	8.0	8.0	30.8	30.8	93.6	93.6	7.4	7.4	8.3	8.3	6	6	85	85						
						11.6	0.4	121	18.1	18.1	8.0	8.0	30.8	30.8	93.6	93.6	7.4	7.4	8.3	8.3	6	6	84	84						
IM1	Cloudy	Moderate	11:49	7.6	Surface	1.0	0.3	162	15.4	15.4	7.9	7.9	33.5	33.5	98.1	98.1	8.0	8.0	5.4	5.4	4	4	81	81	818357	806472	<0.2	0.9	<0.2	0.7
						1.0	0.3	170	15.4	15.4	7.9	7.9	33.5	33.5	98.1	98.1	8.0	8.0	5.4	5.4	5	5	81	81						
					Middle	3.8	0.3	156	15.4	15.4	7.9	7.9	34.1	34.1	97.9	97.9	8.0	8.0	6.1	6.1	7	6	82	82						
						3.8	0.3	168	15.4	15.4	7.9	7.9	34.1	34.1	97.9	97.9	8.0	8.0	6.1	6.1	7	7	82	82						
					Bottom	6.6	0.3	161	15.4	15.4	7.9	7.9	34.2	34.2	98.2	98.2	8.0	8.0	6.9	6.9	8	8	83	83						
						6.6	0.3	167	15.4	15.4	7.9	7.9	34.2	34.2	98.2	98.2	8.0	8.0	6.9	6.9	7	7	83	83						
IM2	Cloudy	Moderate	11:44	8.5	Surface	1.0	0.4	179	15.4	15.4	7.9	7.9	33.6	33.6	98.3	98.3	8.0	8.0	4.4	4.4	5	5	82	82	818836	806176	<0.2	0.6	<0.2	0.7
						1.0	0.4	186	15.4	15.4	7.9	7.9	33.6	33.6	98.3	98.3	8.0	8.0	4.5	4.5	5	5	82	82						
					Middle	4.3	0.3	148	15.4	15.4	7.9	7.9	33.6	33.6	98.1	98.1	8.0	8.0	4.5	4.5	6	6	83	83						
						4.3	0.4	151	15.4	15.4	7.9	7.9	33.6	33.6	98.1	98.1	8.0	8.0	4.5	4.5	5	5	83	83						
					Bottom	7.5	0.3	133	15.3	15.3	7.9	7.9	34.3	34.3	98.2	98.2	8.0	8.0	6.0	6.0	8	8	84	84						
						7.5	0.3	136	15.3	15.3	7.9	7.9	34.3	34.3	98.3	98.3	8.0	8.0	6.0	6.0	7	7	84	84						
IM3	Cloudy	Moderate	11:37	8.8	Surface	1.0	0.4	183	15.4	15.4	7.9	7.9	33.0	33.0	98.5	98.5	8.1	8.1	4.2	4.2	5	5	80	80	819417	806010	<0.2	1.1	<0.2	0.9
						1.0	0.4	189	15.4	15.4	7.9	7.9	33.0	33.0	98.4	98.4	8.1	8.1	4.2	4.2	5	5	81	81						
					Middle	4.4	0.4	151	15.3	15.3	7.9	7.9	33.6	33.6	98.1	98.1	8.0	8.0	5.1	5.1	4	6	82	82						
						4.4	0.4	155	15.3	15.3	7.9	7.9	33.6	33.6	98.1	98.1	8.0	8.0	5.2	5.2	4	4	81	81						
					Bottom	7.8	0.4	167	15.4	15.4	7.9	7.9	34.4	34.4	98.0	98.0	7.9	7.9	6.6	6.6	9	9	82	82						
						7.8	0.4	176	15.4	15.4	7.9	7.9	34.4	34.4	98.0	98.0	8.0	8.0	6.5	6.5	9	9	82	82						
IM4	Cloudy	Moderate	11:29	8.2	Surface	1.0	0.4	164	15.4	15.4	7.9	7.9	33.1	33.1	98.5	98.5	8.1	8.1	4.6	4.6	5	5	81	81	819578	805023	<0.2	0.9	<0.2	0.9
						1.0	0.4	176	15.4	15.4	7.9	7.9	33.1	33.1	98.5	98.5	8.1	8.1	4.7	4.7	4	4	81	81						
					Middle	4.1	0.4	174	15.4	15.4	7.9	7.9	33.6	33.6	98.0	98.1	8.0	8.0	6.1	6.1	6	7	82	82						
						4.1	0.4	185	15.4	15.4	7.9	7.9	33.6	33.6	98.1	98.1	8.0	8.0	6.1	6.1	5	5	82	82						
					Bottom	7.2	0.4	180	15.4	15.4	7.9	7.9	34.7	34.7	97.9	97.9	7.9	7.9	10.6	10.6	9	9	83	83						
						7.2	0.4	197	15.4	15.4	7.9	7.9	34.7	34.7	97.9	97.9	7.9	7.9	10.6	10.6	11	11	83	83						
IM5	Cloudy	Moderate	11:20	7.1	Surface	1.0	0.4	194	15.4	15.4	7.9	7.9	33.5	33.5	98.1	98.2	8.0	8.0	8.0	8.0	8	8	80	80	820564	804941	<0.2	0.8	<0.2	0.8
						1.0	0.4	212	15.4	15.4	7.9	7.9	33.5	33.5	98.2	98.2	8.0	8.0	8.0	8.0	9	9	80	80						
					Middle	3.6	0.4	203	15.4	15.4	7.9	7.9	33.5	33.5	98.0	98.0	8.0	8.0	9.1	9.1	7	12	81	81						
						3.6	0.4	222	15.4	15.4	7.9	7.9	33.5	33.5	98.0	98.0	8.0	8.0	9.1	9.1	8	8	81	81						
					Bottom	6.1	0.4	195	15.4	15.4	7.9	7.9	33.8	33.8	97.9	97.9	8.0	8.0	13.1	13.1	19	19	82	82						
						6.1	0.4	211	15.4	15.4	7.9	7.9	33.8	33.8	97.9	97.9	8.0	8.0	13.0	13.0	18	18	82	82						
IM6	Cloudy	Moderate	11:13	7.0	Surface	1.0	0.5	162	15.4	15.4	7.9	7.9	33.6	33.6	97.8	97.9	8.0	8.0	7.8	7.8	7	7	81	81	821077	805831	<0.2	0.8	<0.2	0.8
						1.0	0.6	174	15.4	15.4	7.9	7.9	33.6	33.6	97.9	97.9	8.0	8.0	7.8	7.8	9	9	81	81						
					Middle	3.5	0.5	168	15.4	15.4	7.9	7.9	33.6	33.6	97.8	97.8	8.0	8.0	8.7	8.7	9	10	81	81						
						3.5	0.5	173	15.4	15.4	7.9	7.9	33.6	33.6	97.8	97.8	8.0	8.0	8.7	8.7	11	11	82	82						
					Bottom	6.0	0.5	168	15.3	15.3	7.9	7.9	33.6	33.6	97.8	97.8	8.0	8.0	9.3	9.3	10	10	82	82						
						6.0	0.5	175	15.3	15.3	7.9	7.9	33.6	33.6	97.8	97.8	8.0	8.0	9.4	9.4	11	11	83	83						
IM7	Cloudy	Moderate	11:06	8.2	Surface	1.0	0.6	182	15.3	15.3	7.9	7.9	33.6	33.6	98.0	98.0	8.0	8.0	8.0	8.0	8	8	83	83	821332	806817	<0.2	0.8	<0.2	0.7
						1.0	0.6	185	15.3	15.3	7.9	7.9	33.6	33.6	98.0	98.0	8.0	8.0	8.1	8.1	7	7	83	83						
					Middle	4.1	0.6	128	15.2	15.2	7.9	7.9	33.7	33.7	97.9	98.0	8.0</													

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA				
IM9	Cloudy	Moderate	11:43	7.6	Surface	1.0	0.5	100	18.3	18.3	8.1	8.1	30.2	30.2	99.4	99.4	7.8	7.8	11.0	7.8	8	8	77	81	822105	808821	<0.2	0.6	<0.2	0.6				
						1.0	0.5	108	18.3	18.3	8.1	8.1	30.2	30.2	99.3	99.4	7.8	7.8	11.0	7.8	8	8	78	81			<0.2	0.6	<0.2	0.6				
					Middle	3.8	0.5	95	18.3	18.3	8.1	8.1	30.2	30.2	99.2	99.2	7.8	7.8	11.8	7.8	8	8	81	8	81	81			<0.2	0.6	<0.2	0.6		
						3.8	0.5	95	18.3	18.3	8.1	8.1	30.2	30.2	99.2	99.2	7.8	7.8	12.0	7.8	8	8	82	8	82	81			<0.2	0.6	<0.2	0.6		
					Bottom	6.6	0.4	103	18.3	18.3	8.1	8.1	30.2	30.2	99.4	99.4	7.8	7.8	20.3	7.8	8	8	83	8	83	81			<0.2	0.6	<0.2	0.6		
						6.6	0.4	111	18.3	18.3	8.1	8.1	30.2	30.2	99.4	99.4	7.8	7.8	20.6	7.8	7	7	84	7	84	81			<0.2	0.6	<0.2	0.6		
IM10	Cloudy	Moderate	11:53	6.7	Surface	1.0	0.5	105	18.2	18.2	8.0	8.0	29.7	29.7	97.7	97.7	7.7	7.7	9.9	7.7	5	8	77	81	822255	809829	<0.2	1.1	<0.2	0.9				
						1.0	0.5	114	18.2	18.2	8.0	8.0	29.7	29.7	97.7	97.7	7.7	7.7	9.9	7.7	7	7	77	7	77	81			<0.2	1.2	<0.2	0.9		
					Middle	3.4	0.5	106	18.2	18.2	8.0	8.0	29.8	29.8	97.7	97.7	7.7	7.7	14.1	7.7	9	8	82	9	82	81			<0.2	1.0	<0.2	0.9		
						3.4	0.5	108	18.2	18.2	8.0	8.0	29.8	29.8	97.7	97.7	7.7	7.7	14.1	7.7	9	8	82	9	82	81			<0.2	1.0	<0.2	0.9		
					Bottom	5.7	0.5	108	18.2	18.2	8.0	8.0	29.8	29.8	97.8	97.8	7.7	7.7	17.7	7.7	10	8	84	10	84	81			<0.2	0.9	<0.2	0.8		
						5.7	0.5	109	18.2	18.2	8.0	8.0	29.8	29.8	97.8	97.8	7.7	7.7	17.7	7.7	9	8	83	9	83	81			<0.2	0.8	<0.2	0.8		
IM11	Cloudy	Moderate	12:01	8.8	Surface	1.0	0.5	100	18.2	18.2	8.0	8.0	29.5	29.5	97.6	97.6	7.7	7.7	6.7	7.7	6	6	78	81	821484	810552	<0.2	0.9	<0.2	0.9				
						1.0	0.5	109	18.2	18.2	8.0	8.0	29.5	29.5	97.6	97.6	7.7	7.7	6.7	7.7	6	6	78	6	78	81			<0.2	0.9	<0.2	0.9		
					Middle	4.4	0.5	98	18.2	18.2	8.1	8.1	29.9	29.9	97.3	97.3	7.7	7.7	9.3	7.7	6	6	82	6	82	81			<0.2	0.8	<0.2	0.8		
						4.4	0.5	98	18.2	18.2	8.1	8.1	29.9	29.9	97.3	97.3	7.7	7.7	9.3	7.7	5	6	82	5	82	81			<0.2	0.8	<0.2	0.8		
					Bottom	7.8	0.4	111	18.2	18.2	8.0	8.0	30.2	30.2	97.8	97.8	7.7	7.7	10.6	7.7	8	8	84	8	84	81			<0.2	1.0	<0.2	1.0		
						7.8	0.4	115	18.2	18.2	8.0	8.0	30.2	30.2	97.8	97.8	7.7	7.7	10.6	7.7	7	7	84	7	84	81			<0.2	1.0	<0.2	1.0		
IM12	Cloudy	Moderate	12:10	9.2	Surface	1.0	0.5	98	18.2	18.2	8.0	8.0	29.6	29.6	97.2	97.2	7.7	7.7	8.1	7.7	9	8	78	82	821156	811532	<0.2	0.9	<0.2	1.0				
						1.0	0.5	99	18.2	18.2	8.0	8.0	29.6	29.6	97.2	97.2	7.7	7.7	8.1	7.7	7	7	79	7	79	82			<0.2	1.0	<0.2	1.0		
					Middle	4.6	0.5	108	18.2	18.2	8.0	8.0	29.9	29.9	97.2	97.2	7.7	7.7	8.5	7.7	8	8	82	8	82	82			<0.2	1.1	<0.2	1.1		
						4.6	0.5	115	18.2	18.2	8.0	8.0	29.9	29.9	97.2	97.2	7.7	7.7	8.5	7.7	8	8	82	8	82	82			<0.2	1.0	<0.2	1.0		
					Bottom	8.2	0.4	119	18.2	18.2	8.0	8.0	30.2	30.2	97.8	97.8	7.7	7.7	10.4	7.7	7	7	84	7	84	82			<0.2	0.9	<0.2	0.9		
						8.2	0.4	122	18.2	18.2	8.0	8.0	30.2	30.2	97.8	97.8	7.7	7.7	10.4	7.7	8	7	84	8	84	82			<0.2	0.9	<0.2	0.9		
SR2	Cloudy	Moderate	12:32	4.8	Surface	1.0	0.5	73	18.2	18.2	8.0	8.0	29.6	29.6	97.2	97.2	7.7	7.7	6.9	7.7	5	5	80	82	821471	814175	<0.2	1.1	<0.2	1.2				
						1.0	0.5	75	18.2	18.2	8.0	8.0	29.6	29.6	97.2	97.2	7.7	7.7	6.9	7.7	4	5	80	4	80	82			<0.2	1.2	<0.2	1.2		
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	814175			<0.2	-	<0.2	-
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	814175			<0.2	-	<0.2	-
					Bottom	3.8	0.4	71	18.2	18.2	8.0	8.0	30.3	30.3	98.1	98.1	7.7	7.7	6.4	7.7	5	5	84	5	84	82			<0.2	0.8	<0.2	0.8		
						3.8	0.4	76	18.2	18.2	8.0	8.0	30.3	30.3	98.1	98.1	7.7	7.7	6.4	7.7	6	6	85	6	85	82			<0.2	1.0	<0.2	1.0		
SR3	Cloudy	Moderate	11:26	9.1	Surface	1.0	0.4	152	18.3	18.3	8.0	8.0	28.5	28.5	97.1	97.1	7.7	7.7	9.7	7.7	7	9	-	-	822148	807551	-	-	-	-				
						1.0	0.5	164	18.3	18.3	8.0	8.0	28.5	28.5	97.1	97.1	7.7	7.7	9.7	7.7	8	8	-	8	-	-	822148	807551	-	-	-	-		
					Middle	4.6	0.4	141	18.2	18.2	8.0	8.0	29.1	29.1	97.8	97.8	7.8	7.8	11.7	7.8	8	8	-	8	-	-	822148	807551	-	-	-	-		
						4.6	0.4	141	18.2	18.2	8.0	8.0	29.1	29.1	97.8	97.8	7.8	7.8	11.7	7.8	8	8	-	8	-	-	822148	807551	-	-	-	-		
					Bottom	8.1	0.4	125	18.2	18.2	8.0	8.0	30.0	30.0	98.6	98.6	7.8	7.8	14.7	7.8	12	8	-	12	-	-	822148	807551	-	-	-	-		
						8.1	0.4	126	18.2	18.2	8.0	8.0	30.0	30.0	98.6	98.6	7.8	7.8	15.0	7.8	12	8	-	12	-	-	822148	807551	-	-	-	-		
SR4A	Cloudy	Moderate	12:29	8.4	Surface	1.0	0.4	114	15.5	15.5	7.9	7.9	34.2	34.2	97.8	97.8	7.9	7.9	7.0	7.9	12	12	-	-	817198	807794	-	-	-	-				
						1.0	0.4	119	15.5	15.5	7.9	7.9	34.2	34.2	97.8	97.8	7.9	7.9	7.1	7.9	12	12	-	12	-	-	817198	807794	-	-	-	-		
					Middle	4.2	0.4	112	15.5	15.5	7.9	7.9	34.2	34.2	97.8	97.8	7.9	7.9	7.8	7.9	12	12	-	12	-	-	817198	807794	-	-	-	-		
						4.2	0.4	120	15.5	15.5	7.9	7.9	34.2	34.2	97.8	97.8	7.9	7.9	7.8	7.9	12	12	-	12	-	-	817198	807794	-	-	-	-		
					Bottom	7.4	0.3	102	15.4	15.4	7.9	7.9	34.3	34.3	98.3	98.3	8.0	8.0	8.2	8.0	12	8	-	12	-	-	817198	807794	-	-	-	-		
						7.4	0.3	104	15.4	15.4	7.9	7.9	34.3	34.3	98.3	98.3	8.0	8.0	8.1	8.0	12	8	-	12	-	-	817198	807794	-	-	-	-		
SR5A	Cloudy	Calm	12:46	4.8	Surface	1.0	0.1	218	15.5	15.5	7.8	7.8	34.1	34.1	96.1	96.1	7.8	7.8	9.6	7.8	9	9	-	-	816585	810677	-	-	-	-				
						1.0	0.2	224	15.5	15.5	7.8	7.8	34.1	34.1	96.1	96.1	7.8	7.8	9.8	7.8	9	9	-	9	-	-	816585	810677	-	-	-	-		
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816585	810677	-	-	-	-		
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816585	810677	-	-	-	-		
					Bottom	3.8	0.2	220	15.5	15.5	7.8	7.8	34.1	34.1	96.3	96.3	7.8	7.8	10.5	7.8	10	9	-	10	-	-	816585	810677	-	-</				

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

Water Quality Monitoring

Water Quality Monitoring Results on 15 March 17 during Mid-Flood Tide

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	Value	DA	Value	DA
C1	Cloudy	Moderate	08:54	8.9	Surface	1.0	0.6	68	15.5	15.5	7.7	7.7	33.4	33.4	94.8	94.8	7.7	7.7	17.5	19.5	13	16	81	82	815610	804263	<0.2	1.0	<0.2	1.1		
						1.0	0.7	72	15.5	15.5	7.7	7.7	33.4	33.4	94.8	94.8	7.7	7.7	17.5	19.5	14	16	81	82	815610	804263	<0.2	1.1	<0.2	1.1		
					Middle	4.5	0.7	68	15.5	15.5	7.7	7.7	33.4	33.4	94.8	94.8	7.7	7.7	18.0	19.5	11	16	82	82	815610	804263	<0.2	1.1	<0.2	1.1	<0.2	1.2
						4.5	0.7	71	15.5	15.5	7.7	7.7	33.4	33.4	94.8	94.8	7.7	7.7	18.0	19.5	12	16	82	82	815610	804263	<0.2	1.1	<0.2	1.1		
					Bottom	7.9	0.6	67	15.4	15.4	7.7	7.7	33.3	33.3	94.7	94.7	7.7	7.7	23.1	22	8	8	83	83	815610	804263	<0.2	1.2	<0.2	1.2		
						7.9	0.6	72	15.4	15.4	7.7	7.7	33.3	33.3	94.7	94.7	7.7	7.7	23.1	22	8	8	83	83	815610	804263	<0.2	1.2	<0.2	1.2		
C2	Cloudy	Rough	09:14	12.6	Surface	1.0	0.5	268	18.6	18.6	7.9	7.9	26.9	26.9	89.6	89.6	7.1	7.1	4.6	7.3	8	9	76	81	825672	806946	<0.2	2.4	<0.2	2.5		
						1.0	0.5	281	18.6	18.6	7.9	7.9	26.9	26.9	89.6	89.6	7.1	7.1	4.6	7.3	7	9	77	81	825672	806946	<0.2	2.5	<0.2	2.4		
					Middle	6.3	0.7	318	18.7	18.7	8.0	8.0	27.1	27.1	89.0	89.0	7.1	7.1	6.5	7.3	8	9	82	82	825672	806946	<0.2	2.4	<0.2	2.3		
						6.3	0.7	324	18.7	18.7	8.0	8.0	27.1	27.1	89.0	89.0	7.1	7.1	6.5	7.3	10	9	82	82	825672	806946	<0.2	2.3	<0.2	2.3		
					Bottom	11.6	0.6	279	18.7	18.7	8.0	8.0	27.9	27.9	89.6	89.6	7.1	7.1	10.7	7.3	8	9	84	84	825672	806946	<0.2	2.3	<0.2	2.3		
						11.6	0.6	282	18.7	18.7	8.0	8.0	27.9	27.9	89.6	89.6	7.1	7.1	10.7	7.3	10	9	83	83	825672	806946	<0.2	2.4	<0.2	2.4		
C3	Cloudy	Calm	07:23	11.6	Surface	1.0	0.6	264	15.7	15.7	7.8	7.8	28.3	28.3	91.4	91.4	7.6	7.6	4.1	5.1	5	6	79	81	822091	817810	<0.2	1.7	<0.2	1.8		
						1.0	0.7	281	15.7	15.7	7.8	7.8	28.3	28.3	91.4	91.4	7.6	7.6	4.1	5.1	6	6	80	81	822091	817810	<0.2	1.8	<0.2	1.9		
					Middle	5.8	0.7	262	15.7	15.7	7.8	7.8	28.4	28.4	91.4	91.4	7.6	7.6	4.9	5.1	6	6	81	81	822091	817810	<0.2	1.9	<0.2	1.9		
						5.8	0.7	276	15.7	15.7	7.8	7.8	28.4	28.4	91.4	91.4	7.6	7.6	4.9	5.1	6	6	81	81	822091	817810	<0.2	1.9	<0.2	1.9		
					Bottom	10.6	0.4	262	15.7	15.7	7.8	7.8	27.8	27.8	93.1	93.2	7.8	7.8	6.4	5.1	6	6	82	82	822091	817810	<0.2	1.6	<0.2	1.6		
						10.6	0.5	280	15.7	15.7	7.8	7.8	27.8	27.8	93.2	93.2	7.8	7.8	6.3	5.1	6	6	83	83	822091	817810	<0.2	1.6	<0.2	1.6		
IM1	Cloudy	Moderate	09:12	8.1	Surface	1.0	0.5	191	15.5	15.5	7.7	7.7	31.7	31.7	95.0	95.0	7.8	7.8	9.2	14.6	12	13	79	81	818331	806466	<0.2	1.3	<0.2	1.3		
						1.0	0.5	193	15.5	15.5	7.7	7.7	31.7	31.7	95.0	95.0	7.8	7.8	9.2	14.6	12	13	80	81	818331	806466	<0.2	1.3	<0.2	1.3		
					Middle	4.1	0.5	91	15.5	15.5	7.7	7.7	31.7	31.7	95.2	95.2	7.8	7.8	10.6	14.6	12	13	81	81	818331	806466	<0.2	1.3	<0.2	1.3		
						4.1	0.5	96	15.5	15.5	7.7	7.7	31.7	31.7	95.2	95.2	7.8	7.8	10.7	14.6	14	13	81	81	818331	806466	<0.2	1.1	<0.2	1.1		
					Bottom	7.1	0.4	91	15.5	15.5	7.7	7.7	32.1	32.1	97.0	97.0	8.0	8.0	24.1	14.6	12	13	82	82	818331	806466	<0.2	1.2	<0.2	1.2		
						7.1	0.5	93	15.5	15.5	7.7	7.7	32.1	32.1	97.0	97.0	8.0	8.0	23.8	14.6	13	13	81	81	818331	806466	<0.2	1.3	<0.2	1.3		
IM2	Cloudy	Moderate	09:21	9.1	Surface	1.0	0.6	167	15.5	15.5	7.7	7.7	32.4	32.4	95.2	95.2	7.8	7.8	10.8	18.8	12	13	80	82	818835	806184	<0.2	1.4	<0.2	1.2		
						1.0	0.6	174	15.5	15.5	7.7	7.7	32.4	32.4	95.2	95.2	7.8	7.8	10.8	18.8	12	13	81	82	818835	806184	<0.2	1.2	<0.2	1.2		
					Middle	4.6	0.5	81	15.5	15.5	7.7	7.7	32.4	32.4	95.5	95.6	7.8	7.8	18.1	18.8	12	13	81	82	818835	806184	<0.2	1.0	<0.2	1.1		
						4.6	0.6	83	15.5	15.5	7.7	7.7	32.4	32.4	95.6	95.6	7.8	7.8	18.3	18.8	12	13	81	82	818835	806184	<0.2	1.0	<0.2	1.1		
					Bottom	8.1	0.5	89	15.5	15.5	7.7	7.7	32.2	32.2	97.6	97.7	8.0	8.0	27.4	18.8	13	13	82	82	818835	806184	<0.2	1.0	<0.2	1.0		
						8.1	0.5	92	15.5	15.5	7.7	7.7	32.1	32.2	97.7	97.7	8.0	8.0	27.1	18.8	14	13	83	83	818835	806184	<0.2	0.8	<0.2	0.8		
IM3	Cloudy	Moderate	09:32	9.1	Surface	1.0	0.6	122	15.5	15.5	7.7	7.7	32.8	32.8	94.5	94.5	7.7	7.7	20.8	22.0	16	18	81	82	819422	806032	<0.2	1.1	<0.2	1.1		
						1.0	0.6	131	15.5	15.5	7.7	7.7	32.8	32.8	94.5	94.5	7.7	7.7	21.0	22.0	17	18	80	82	819422	806032	<0.2	1.1	<0.2	1.1		
					Middle	4.6	0.6	109	15.5	15.5	7.7	7.7	32.8	32.8	94.8	94.8	7.8	7.8	22.6	22.0	16	18	81	82	819422	806032	<0.2	1.1	<0.2	1.1		
						4.6	0.6	109	15.5	15.5	7.7	7.7	32.8	32.8	94.8	94.8	7.8	7.8	22.5	22.0	18	18	82	82	819422	806032	<0.2	1.0	<0.2	1.0		
					Bottom	8.1	0.6	84	15.5	15.5	7.7	7.7	32.5	32.5	97.4	97.5	8.0	8.0	22.1	22.0	20	18	82	82	819422	806032	<0.2	1.1	<0.2	1.1		
						8.1	0.6	88	15.5	15.5	7.7	7.7	32.5	32.5	97.5	97.5	8.0	8.0	22.9	22.0	22	18	83	83	819422	806032	<0.2	1.2	<0.2	1.2		
IM4	Cloudy	Moderate	09:41	8.5	Surface	1.0	0.6	123	15.4	15.4	7.7	7.7	33.0	33.0	95.2	95.2	7.8	7.8	16.3	21.2	22	25	81	83	819579	805024	<0.2	2.1	<0.2	1.9		
						1.0	0.6	124	15.4	15.4	7.7	7.7	33.0	33.0	95.2	95.2	7.8	7.8	16.3	21.2	20	25	82	83	819579	805024	<0.2	1.7	<0.2	1.7		
					Middle	4.3	0.5	106	15.4	15.4	7.7	7.7	33.0	33.0	95.7	95.7	7.8	7.8	20.2	21.2	22	25	83	25	83	83	819579	805024	<0.2	1.9	<0.2	1.9
						4.3	0.6	116	15.4	15.4	7.7	7.7	33.0	33.0	95.7	95.7	7.8	7.8	20.2	21.2	23	25	83	25	83	83	819579	805024	<0.2	1.9	<0.2	1.9
					Bottom	7.5	0.5	103	15.4	15.4	7.7	7.7	32.9	32.9	96.5	96.5	7.9	7.9	27.1	21.2	32	25	84	25	84	84	819579	805024	<0.2	1.4	<0.2	1.4
						7.5	0.6	104	15.4	15.4	7.7	7.7	32.9	32.9	96.5	96.5	7.9	7.9	27.1	21.2	32	25	83	25	83	83	819579	805024	<0.2	1.5	<0.2	1.5
IM5	Cloudy	Moderate	09:51	7.5	Surface	1.0	0.6	174	15.5	15.5	7.7	7.7	32.8	32.8	95.8	95.8	7.8	7.8	16.4	20.7	22	27	80	82	820554	804907	<0.2	1.2	<0.2	1.2		
						1.0	0.6	177	15.5	15.5	7.7	7.7	32.8	32.8	95.8	95.8	7.8	7.8	16.4	20.7	23	27	81	82	820554	804907	<0.2	1.3	<0.2	1.3		
					Middle	3.8	0.6	107	15.5	15.5	7.7	7.7	32.8	32.8	96.5	96.5	7.9	7.9	20.8	20.7	24	27	82	27	82	82	820					

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

Water Quality Monitoring

Water Quality Monitoring Results on 15 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA				
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Rough	08:43	7.9	Surface	1.0	0.8	205	18.6	18.6	8.0	8.0	28.4	28.4	92.3	92.3	7.3	7.3	12.0	12.0	16	17	78	81	822099	808800	<0.2	<0.2	1.6	1.7				
						1.0	0.9	221	18.6	18.6	8.0	8.0	28.4	28.4	92.3	92.3	7.3	7.3	12.0	12.0	16	17	77	81	822099	808800	<0.2	<0.2	1.8	1.7				
					Middle	4.0	0.8	218	18.6	18.6	8.0	8.0	28.4	28.4	92.4	92.4	7.3	7.3	12.4	12.4	17	17	83	17	82	81	822099	808800	<0.2	<0.2	1.7	1.7		
						4.0	0.9	228	18.6	18.6	8.0	8.0	28.4	28.4	92.4	92.4	7.3	7.3	12.4	12.4	17	17	82	17	82	81	822099	808800	<0.2	<0.2	1.7	1.7		
					Bottom	6.9	0.7	213	18.6	18.6	8.0	8.0	28.4	28.4	93.5	93.5	7.4	7.4	13.6	13.6	17	17	84	17	83	17	82	81	822099	808800	<0.2	<0.2	1.6	1.6
						6.9	0.8	232	18.6	18.6	8.0	8.0	28.4	28.4	93.5	93.5	7.4	7.4	13.6	13.6	16	16	83	16	83	16	83	16	822099	808800	<0.2	<0.2	1.6	1.6
IM10	Cloudy	Rough	08:34	8.8	Surface	1.0	1.0	249	18.6	18.6	8.0	8.0	29.0	29.0	92.4	92.4	7.3	7.3	13.7	13.7	16	18	77	81	822249	809818	<0.2	<0.2	1.5	1.5				
						1.0	1.1	250	18.6	18.6	8.0	8.0	29.0	29.0	92.4	92.4	7.3	7.3	13.7	13.7	17	18	78	18	82	81	822249	809818	<0.2	<0.2	1.5	1.5		
					Middle	4.4	0.8	260	18.6	18.6	8.0	8.0	29.0	29.0	92.4	92.4	7.3	7.3	15.5	15.5	19	19	81	19	81	81	822249	809818	<0.2	<0.2	1.5	1.5		
						4.4	0.9	266	18.6	18.6	8.0	8.0	29.0	29.0	92.4	92.4	7.3	7.3	15.6	15.6	19	19	81	19	81	81	822249	809818	<0.2	<0.2	1.5	1.5		
					Bottom	7.8	0.7	237	18.6	18.6	8.0	8.0	29.1	29.1	93.3	93.3	7.3	7.3	23.2	23.2	19	19	84	19	84	19	84	81	822249	809818	<0.2	<0.2	1.5	1.5
						7.8	0.8	257	18.6	18.6	8.0	8.0	29.1	29.1	93.3	93.3	7.3	7.3	23.2	23.2	19	19	84	19	84	19	84	19	822249	809818	<0.2	<0.2	1.6	1.6
IM11	Cloudy	Rough	08:26	8.5	Surface	1.0	0.4	270	18.6	18.6	8.0	8.0	29.3	29.3	91.4	91.4	7.2	7.2	21.2	21.2	22	25	77	82	821518	810550	<0.2	<0.2	1.5	1.5				
						1.0	0.5	270	18.6	18.6	8.0	8.0	29.3	29.3	91.4	91.4	7.2	7.2	21.2	21.2	21	25	78	25	83	82	821518	810550	<0.2	<0.2	1.4	1.4		
					Middle	4.3	0.4	272	18.6	18.6	8.0	8.0	29.3	29.3	91.2	91.2	7.2	7.2	23.2	23.2	26	26	83	26	82	82	821518	810550	<0.2	<0.2	1.5	1.5		
						4.3	0.4	279	18.6	18.6	8.0	8.0	29.3	29.3	91.2	91.2	7.2	7.2	23.2	23.2	28	28	82	28	85	82	821518	810550	<0.2	<0.2	1.6	1.6		
					Bottom	7.5	0.4	271	18.6	18.6	8.0	8.0	29.3	29.3	91.4	91.4	7.2	7.2	23.0	23.0	28	28	85	27	84	27	84	82	821518	810550	<0.2	<0.2	1.5	1.5
						7.5	0.4	283	18.6	18.6	8.0	8.0	29.3	29.3	91.4	91.4	7.2	7.2	23.0	23.0	27	27	84	27	84	27	84	82	821518	810550	<0.2	<0.2	1.5	1.5
IM12	Cloudy	Rough	08:19	9.4	Surface	1.0	0.6	262	18.6	18.6	8.0	8.0	29.2	29.2	91.7	91.7	7.2	7.2	16.2	16.2	20	20	80	82	821174	811530	<0.2	<0.2	1.5	1.5				
						1.0	0.7	270	18.6	18.6	8.0	8.0	29.2	29.2	91.7	91.7	7.2	7.2	16.2	16.2	19	20	80	20	82	82	821174	811530	<0.2	<0.2	1.4	1.4		
					Middle	4.7	0.6	270	18.6	18.6	8.0	8.0	29.2	29.2	91.6	91.6	7.2	7.2	19.2	19.2	20	20	82	20	82	82	821174	811530	<0.2	<0.2	1.4	1.4		
						4.7	0.6	292	18.6	18.6	8.0	8.0	29.2	29.2	91.6	91.6	7.2	7.2	19.2	19.2	19	20	82	19	82	20	82	82	821174	811530	<0.2	<0.2	1.4	1.4
					Bottom	8.4	0.5	273	18.6	18.6	8.0	8.0	29.3	29.3	91.8	91.8	7.2	7.2	19.5	19.5	21	21	84	21	84	21	84	82	821174	811530	<0.2	<0.2	1.6	1.6
						8.4	0.5	275	18.6	18.6	8.0	8.0	29.3	29.3	91.8	91.8	7.2	7.2	19.5	19.5	23	23	84	23	84	23	84	23	821174	811530	<0.2	<0.2	1.5	1.5
SR2	Cloudy	Rough	07:57	4.2	Surface	1.0	0.7	293	18.6	18.6	8.0	8.0	29.3	29.3	91.3	91.4	7.2	7.2	14.7	14.7	14	15	81	83	821468	814182	<0.2	<0.2	1.7	1.7				
						1.0	0.7	314	18.6	18.6	8.0	8.0	29.3	29.3	91.4	91.4	7.2	7.2	14.6	14.6	14	15	80	15	80	83	821468	814182	<0.2	<0.2	1.7	1.7		
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.2	0.6	293	18.6	18.6	8.0	8.0	29.3	29.3	91.2	91.2	7.2	7.2	13.0	13.0	17	17	85	17	85	15	83	821468	814182	<0.2	<0.2	1.5	1.5	
						3.2	0.6	322	18.6	18.6	8.0	8.0	29.3	29.3	91.2	91.2	7.2	7.2	13.0	13.0	16	16	84	16	84	16	84	15	83	821468	814182	<0.2	<0.2	1.5
SR3	Cloudy	Rough	08:56	9.4	Surface	1.0	0.6	231	18.6	18.6	8.0	8.0	28.2	28.2	92.4	92.4	7.3	7.3	8.3	8.3	11	11	-	-	822156	807564	-	-	-	-				
						1.0	0.6	237	18.6	18.6	8.0	8.0	28.2	28.2	92.4	92.4	7.3	7.3	8.3	8.3	11	11	-	11	-	-	822156	807564	-	-	-	-		
					Middle	4.7	0.5	220	18.6	18.6	8.0	8.0	28.2	28.2	92.6	92.6	7.3	7.3	9.1	9.1	9	9	-	9	-	-	822156	807564	-	-	-	-		
						4.7	0.5	227	18.6	18.6	8.0	8.0	28.2	28.2	92.6	92.6	7.3	7.3	9.1	9.1	9	9	-	9	-	-	822156	807564	-	-	-	-		
					Bottom	8.4	0.5	172	18.5	18.5	8.0	8.0	28.6	28.6	92.9	92.9	7.3	7.3	10.9	10.9	11	11	-	11	-	-	822156	807564	-	-	-	-		
						8.4	0.6	177	18.5	18.5	8.0	8.0	28.6	28.6	92.9	92.9	7.3	7.3	10.9	10.9	10	10	-	10	-	-	822156	807564	-	-	-	-		
SR4A	Cloudy	Moderate	08:29	9.2	Surface	1.0	0.3	169	15.8	15.8	7.7	7.7	31.1	31.1	93.2	93.2	7.6	7.6	15.9	15.9	14	16	-	-	817186	807826	-	-	-	-				
						1.0	0.3	170	15.8	15.8	7.7	7.7	31.1	31.1	93.2	93.2	7.6	7.6	15.9	15.9	15	16	-	15	-	-	817186	807826	-	-	-	-		
					Middle	4.6	0.2	156	15.8	15.8	7.7	7.7	31.1	31.1	93.5	93.5	7.7	7.7	16.9	16.9	18	18	-	18	-	-	817186	807826	-	-	-	-		
						4.6	0.3	157	15.8	15.8	7.7	7.7	31.1	31.1	93.5	93.5	7.7	7.7	16.9	16.9	16	16	-	16	-	-	817186	807826	-	-	-	-		
					Bottom	8.2	0.2	157	15.8	15.8	7.7	7.7	30.9	30.9	94.6	94.7	7.8	7.8	17.6	17.6	17	17	-	17	-	-	817186	807826	-	-	-	-		
						8.2	0.3	159	15.8	15.8	7.7	7.7	30.9	30.9	94.7	94.7	7.8	7.8	17.5	17.5	18	18	-	18	-	-	817186	807826	-	-	-	-		
SR5A	Cloudy	Calm	08:10	5.5	Surface	1.0	0.3	235	15.9	15.9	7.7	7.7	30.6	30.6	95.3	95.3	7.8	7.8	13.1	13.1	14	17	-	-	816585	810680	-	-	-	-				
						1.0	0.4	237	15.9	15.9	7.7	7																						

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

Water Quality Monitoring

Water Quality Monitoring Results on 15 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	14:15	8.6	Surface	1.0	0.4	210	15.5	15.5	7.8	7.8	34.3	34.3	97.5	97.5	7.9	7.9	4.9	5.3	7	9	81	83	815612	804263	<0.2	0.4	<0.2	0.5
						1.0	0.4		225		15.5	7.8	7.8	34.3	34.3	97.5	97.5		7.9		5.0		8				82	<0.2		0.5
					Middle	4.3	0.3	192	15.5	15.5	7.8	7.8	34.3	34.3	97.8	97.8	7.9	7.9	5.0	7.9	8	10	83	83	<0.2	0.5	<0.2	0.5	<0.2	0.5
						4.3	0.4		194		15.5	7.8	7.8	34.3	34.3	97.8	97.8		7.9		5.0		9		84	<0.2		0.5		
					Bottom	7.6	0.3	202	15.5	15.5	7.8	7.8	34.1	34.1	99.3	99.4	8.1	8.1	5.9	8.1	11	11	84	84	<0.2	0.5	<0.2	0.5		
						7.6	0.4		202		15.5	7.8	7.8	34.1	34.1	99.5	99.4		8.1		5.8		11		84	<0.2		0.5		
C2	Cloudy	Rough	13:01	12.6	Surface	1.0	0.4	112	18.7	18.7	8.0	8.0	27.1	27.1	89.3	89.3	7.1	7.0	8.4	15.7	11	11	75	80	825682	806948	<0.2	1.9	<0.2	1.8
						1.0	0.4		115		18.7	8.0	8.0	27.1	27.1	89.3	89.3		7.1		8.4		9				76	<0.2		1.9
					Middle	6.3	0.3	99	18.6	18.6	8.0	8.0	28.6	28.6	87.4	87.4	6.9	6.9	13.1	6.9	11	12	83	82	<0.2	1.8	<0.2	1.8	<0.2	1.8
						6.3	0.3		105		18.6	8.0	8.0	28.6	28.6	87.4	87.4		6.9		13.1		12		82	<0.2		1.8		
					Bottom	11.6	0.3	199	18.6	18.6	8.0	8.0	29.5	29.5	76.9	76.9	6.0	6.0	25.7	6.0	12	12	83	12	83	12	<0.2	1.8	<0.2	1.8
						11.6	0.3		203		18.6	8.0	8.0	29.5	29.5	76.9	76.9		6.0		25.7		12		83		<0.2	1.8		
C3	Cloudy	Mderate	14:42	12.2	Surface	1.0	0.5	83	18.6	18.6	8.0	8.0	29.8	29.8	90.8	90.8	7.1	7.1	3.7	4.6	8	10	80	83	822105	817822	<0.2	1.0	<0.2	1.2
						1.0	0.5		86		18.6	8.0	8.0	29.8	29.8	90.8	90.8		7.1		3.7		8				80	<0.2		1.2
					Middle	6.1	0.4	74	18.5	18.5	8.0	8.0	30.5	30.5	89.0	89.0	7.0	7.0	4.6	7.0	12	11	83	83	<0.2	1.1	<0.2	1.1	<0.2	1.1
						6.1	0.4		80		18.5	8.0	8.0	30.5	30.5	89.0	89.0		7.0		4.6		11		83	<0.2		1.1		
					Bottom	11.2	0.2	100	18.4	18.4	8.0	8.0	30.8	30.8	89.2	89.2	7.0	7.0	5.4	7.0	10	12	85	10	85	12	<0.2	1.0	<0.2	1.0
						11.2	0.2		109		18.4	8.0	8.0	30.8	30.8	89.2	89.2		7.0		5.4		12		85		<0.2	1.0		
IM1	Cloudy	Moderate	13:56	8.3	Surface	1.0	0.3	210	15.5	15.5	7.8	7.8	33.3	33.3	96.1	96.2	7.8	7.8	8.9	9.1	12	13	80	81	818337	806444	<0.2	0.8	<0.2	0.8
						1.0	0.3		222		15.5	7.8	7.8	33.3	33.3	96.2	96.2		7.8		8.9		13				80	<0.2		0.8
					Middle	4.2	0.3	155	15.5	15.5	7.8	7.8	33.4	33.4	96.5	96.5	7.8	7.8	9.0	7.8	13	15	81	13	81	81	<0.2	0.8	<0.2	0.8
						4.2	0.3		156		15.5	7.8	7.8	33.4	33.4	96.5	96.5		7.8		9.0		15		82		<0.2	0.8		
					Bottom	7.3	0.3	145	15.4	15.4	7.8	7.8	34.1	34.1	97.6	97.7	7.9	7.9	9.5	7.9	13	13	82	13	82	13	<0.2	1.0	<0.2	0.9
						7.3	0.3		153		15.4	7.8	7.8	34.1	34.1	97.7	97.7		7.9		9.5		13		83		<0.2	0.9		
IM2	Cloudy	Moderate	13:50	8.8	Surface	1.0	0.3	234	15.5	15.5	7.8	7.8	33.3	33.3	96.2	96.2	7.8	7.9	8.9	9.1	12	13	80	81	818848	806206	<0.2	0.8	<0.2	0.9
						1.0	0.3		252		15.5	7.8	7.8	33.3	33.3	96.2	96.2		7.8		8.9		13				80	<0.2		0.9
					Middle	4.4	0.3	194	15.5	15.5	7.8	7.8	33.3	33.3	96.9	96.9	7.9	7.9	9.1	7.9	12	13	81	13	81	81	<0.2	0.8	<0.2	0.7
						4.4	0.3		208		15.5	7.8	7.8	33.3	33.3	96.9	96.9		7.9		9.1		13		81		<0.2	0.8		
					Bottom	7.8	0.3	124	15.5	15.5	7.8	7.8	33.8	33.8	97.6	97.6	7.9	7.9	9.3	7.9	13	15	82	15	82	15	<0.2	0.8	<0.2	0.7
						7.8	0.3		124		15.5	7.8	7.8	33.8	33.8	97.6	97.6		7.9		9.2		15		82		<0.2	0.7		
IM3	Cloudy	Moderate	13:41	8.8	Surface	1.0	0.4	227	15.5	15.5	7.8	7.8	33.2	33.2	96.6	96.6	7.9	7.9	8.8	9.1	13	14	80	81	819423	806021	<0.2	0.7	<0.2	0.6
						1.0	0.4		235		15.5	7.8	7.8	33.2	33.2	96.6	96.6		7.9		8.8		14				80	<0.2		0.6
					Middle	4.4	0.3	174	15.5	15.5	7.8	7.8	33.3	33.3	97.4	97.4	7.9	7.9	9.2	7.9	14	12	81	16	81	16	<0.2	0.8	<0.2	0.6
						4.4	0.3		185		15.5	7.8	7.8	33.3	33.3	97.4	97.4		7.9		9.2		12		81		<0.2	0.6		
					Bottom	7.8	0.4	141	15.5	15.5	7.8	7.8	33.3	33.3	98.8	98.9	8.0	8.1	9.5	8.1	16	16	82	16	82	16	<0.2	0.7	<0.2	0.6
						7.8	0.4		151		15.5	7.8	7.8	33.3	33.3	98.9	98.9		8.1		9.3		16		82		<0.2	0.6		
IM4	Cloudy	Moderate	13:31	8.5	Surface	1.0	0.3	162	15.4	15.4	7.8	7.8	33.8	33.8	96.4	96.4	7.8	7.9	16.3	15.9	20	21	81	82	819551	805054	<0.2	0.5	<0.2	0.6
						1.0	0.3		162		15.4	7.8	7.8	33.8	33.8	96.4	96.4		7.8		16.4		19				81	<0.2		0.6
					Middle	4.3	0.2	162	15.4	15.4	7.8	7.8	33.7	33.7	97.0	97.0	7.9	7.9	15.5	7.9	21	22	82	21	82	21	<0.2	0.6	<0.2	0.6
						4.3	0.3		171		15.4	7.8	7.8	33.7	33.7	97.0	97.0		7.9		15.5		22		82		<0.2	0.6		
					Bottom	7.5	0.3	152	15.4	15.4	7.8	7.8	33.6	33.6	98.3	98.3	8.0	8.0	15.8	8.0	21	23	83	23	83	23	<0.2	0.6	<0.2	0.6
						7.5	0.3		164		15.4	7.8	7.8	33.6	33.6	98.3	98.3		8.0		15.8		23		83		<0.2	0.6		
IM5	Cloudy	Moderate	13:23	7.4	Surface	1.0	0.3	194	15.4	15.4	7.9	7.9	33.4	33.4	96.4	96.4	7.9	7.9	17.1	17.2	23	26	80	81	820576	804914	<0.2	0.7	<0.2	0.6
						1.0	0.3		203		15.4	7.9	7.9	33.4	33.4	96.4	96.4		7.9		17.1		23				81	<0.2		0.6
					Middle	3.7	0.3	163	15.4	15.4	7.8	7.8	33.4	33.4	96.8	96.8	7.9	7.9	17.3	7.9	26	27	81	26	82	26	<0.2	0.6	<0.2	0.6
						3.7	0.4		164		15.4	7.8	7.8	33.4	33.4	96.8	96.8		7.9		17.3		27		82		<0.2	0.6		
					Bottom	6.4	0.3	138	15.4	15.4	7.8	7.8	33.3	33.3	97.6	97.6	8.0	8.0	17.0	8.0	28	26	82	28	82	26	<0.2	0.7	<0.2	0.6
						6.4	0.3		141		15.4	7.8	7.8	33.3	33.3	97.6	97.6		8.0		17.1		26		82		<0.2	0.6		
IM6	Cloudy	Moderate	13:09	7.3	Surface	1.0	0.3	85	15.5	15.5	7.8	7.8	33.2	33.2	96.4	96.4	7.9	7.9	19.4	20.7	24	24	82	83	821076	805846	<0.2	0.7	<0.2	0.7
						1.0	0.3		93		15.5	7.8	7.8	33.2	33.2	96.4	96.4		7.9		19.4		24				82	<0.2		0.7
					Middle	3.7	0.4	72	15.5	15.5	7.8	7.8	33.2	33.2	97.2	97.2	7.9	7.9	19.8	7.9	25	25	83	25	83	25	<0.2	0.7	<0.2	0.7
						3.7	0.4		76		15.5	7.8	7.8	33.2	33.2	97.2	97.2		7.9		19.7		25		84		<0.2	0.7		
					Bottom	6.3	0.4	73	15.5																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 17 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)																
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA													
C1	Fine	Moderate	09:42	9.0	Surface	1.0	0.7	48	15.4	15.4	7.8	7.8	32.8	32.8	95.6	95.6	7.8	7.8	7.6	7.8	9	80	81	81	815616	804244	<0.2	<0.2	0.8	0.7															
						1.0	0.7	48	15.4	15.4	7.8	7.8	32.8	32.8	95.6	95.6	7.8	7.8	7.7	7.8	7	80	81	81																					
					Middle	4.5	0.7	42	15.4	15.4	7.8	7.8	33.0	33.0	95.7	95.7	7.8	7.8	11	81	81	81	11	81							81	81	815616	804244	<0.2	<0.2	0.9	0.7							
						4.5	0.7	44	15.4	15.4	7.8	7.8	33.0	33.0	95.6	95.7	7.8	7.8	12.0	81	81	81	11	81							81	81													
					Bottom	8.0	0.6	45	15.3	15.3	7.8	7.8	33.9	33.9	95.7	95.7	7.8	7.8	18.8	82	82	82	18.8	82							82	82							815616	804244	<0.2	<0.2	0.6	0.7	
						8.0	0.7	48	15.3	15.3	7.8	7.8	33.9	33.9	95.7	95.7	7.8	7.8	18.8	82	82	82	18.8	82							82	82													
C2	Cloudy	Moderate	10:08	12.8	Surface	1.0	0.7	302	18.9	18.9	7.8	7.8	25.8	25.8	92.0	92.0	7.3	7.3	6.4	7.3	6	75	81	81	825697	806926	<0.2	<0.2	2.0	2.2															
						1.0	0.7	311	18.9	18.9	7.8	7.8	25.8	25.8	92.0	92.0	7.3	7.3	6.5	7	75	81	81	7							75	81													81
					Middle	6.4	0.6	197	18.7	18.7	7.9	7.9	27.5	27.5	90.8	90.9	7.2	7.2	14.7	6	80	82	82	6							80	82	82	825697	806926	<0.2	<0.2	1.9							2.2
						6.4	0.7	211	18.7	18.7	7.9	7.9	27.5	27.5	90.9	90.9	7.2	7.2	14.7	7	84	82	82	7							84	82	82												
					Bottom	11.8	0.7	73	18.7	18.7	7.9	7.9	27.6	27.6	90.9	90.9	7.2	7.2	15.9	16	85	85	85	16							85	85	85						825697	806926	<0.2	<0.2	2.4	2.2	
						11.8	0.7	78	18.7	18.7	7.9	7.9	27.6	27.6	90.9	90.9	7.2	7.2	16.3	15	85	85	85	15							85	85	85												
C3	Cloudy	Moderate	08:14	12.1	Surface	1.0	0.5	260	15.5	15.5	7.7	7.7	30.4	30.4	92.2	92.2	7.7	7.7	4.9	7.7	9	80	82	82	822099	817808	<0.2	<0.2	1.3	1.1															
						1.0	0.5	275	15.5	15.5	7.7	7.7	30.4	30.4	92.2	92.2	7.7	7.7	5.0	8	80	82	82	8							80	82	82												
					Middle	6.1	0.6	263	15.4	15.4	7.7	7.7	31.3	31.3	91.4	91.4	7.6	7.6	8.9	7	82	82	82	7							82	82	82	822099	817808	<0.2	<0.2	1.2							1.1
						6.1	0.6	276	15.4	15.4	7.7	7.7	31.3	31.3	91.4	91.4	7.6	7.6	9.1	7	82	82	82	7							82	82	82												
					Bottom	11.1	0.5	262	15.3	15.3	7.7	7.7	32.0	32.0	92.4	92.4	7.6	7.6	12.3	16	83	83	83	16							83	83	83						822099	817808	<0.2	<0.2	0.9	1.1	
						11.1	0.5	269	15.3	15.3	7.7	7.7	32.0	32.0	92.4	92.4	7.6	7.6	12.3	15	83	83	83	15							83	83	83												
IM1	Fine	Moderate	10:02	7.8	Surface	1.0	0.6	174	15.5	15.5	7.8	7.8	32.7	32.7	95.7	95.7	7.8	7.8	6.7	7.8	10	80	82	82	818362	806473	<0.2	<0.2	1.0	1.0															
						1.0	0.6	177	15.5	15.5	7.8	7.8	32.7	32.7	95.7	95.7	7.8	7.8	6.8	8	81	81	81	8							81	81	81												
					Middle	3.9	0.6	166	15.5	15.5	7.8	7.8	32.7	32.7	95.6	95.6	7.8	7.8	8.5	11	81	81	81	11							81	81	81	818362	806473	<0.2	<0.2	1.0							1.0
						3.9	0.6	167	15.5	15.5	7.8	7.8	32.7	32.7	95.6	95.6	7.8	7.8	8.6	9	81	81	81	9							81	81	81												
					Bottom	6.8	0.5	144	15.4	15.4	7.8	7.8	33.3	33.3	95.9	96.1	7.8	7.8	20.6	30	83	83	83	30							83	83	83						818362	806473	<0.2	<0.2	1.1	1.0	
						6.8	0.5	145	15.4	15.4	7.8	7.8	33.3	33.3	95.9	96.1	7.8	7.8	20.9	31	83	83	83	31							83	83	83												
IM2	Fine	Moderate	10:08	8.9	Surface	1.0	0.6	128	15.6	15.6	7.8	7.8	32.7	32.7	95.8	95.8	7.8	7.8	5.6	7.8	9	81	82	82	818846	806201	<0.2	<0.2	1.1	1.2															
						1.0	0.6	133	15.6	15.6	7.8	7.8	32.7	32.7	95.8	95.8	7.8	7.8	5.6	10	81	81	81	10							81	81	81												
					Middle	4.5	0.6	146	15.5	15.5	7.8	7.8	32.6	32.6	95.4	95.4	7.8	7.8	8.0	10	82	82	82	10							82	82	82	818846	806201	<0.2	<0.2	1.3							1.2
						4.5	0.6	155	15.5	15.5	7.8	7.8	32.6	32.6	95.4	95.4	7.8	7.8	8.1	10	82	82	82	10							82	82	82												
					Bottom	7.9	0.5	129	15.4	15.4	7.8	7.8	33.2	33.2	95.3	95.3	7.8	7.8	16.5	14	83	83	83	14							83	83	83						818846	806201	<0.2	<0.2	1.2	1.2	
						7.9	0.5	132	15.4	15.4	7.8	7.8	33.2	33.2	95.3	95.3	7.8	7.8	16.4	14	83	83	83	14							83	83	83												
IM3	Fine	Moderate	10:16	9.1	Surface	1.0	0.6	105	15.5	15.5	7.8	7.8	32.6	32.6	95.9	95.9	7.8	7.8	5.9	7.8	7	80	82	82	819414	806028	<0.2	<0.2	1.5	1.4															
						1.0	0.6	115	15.5	15.5	7.8	7.8	32.6	32.6	95.9	95.9	7.8	7.8	5.9	8	81	81	81	8							81	81	81												
					Middle	4.6	0.6	102	15.5	15.5	7.8	7.8	32.6	32.6	95.7	95.7	7.8	7.8	6.8	10	82	82	82	10							82	82	82	819414	806028	<0.2	<0.2	1.5							1.4
						4.6	0.6	105	15.5	15.5	7.8	7.8	32.6	32.6	95.7	95.7	7.8	7.8	6.8	8	82	82	82	8							82	82	82												
					Bottom	8.1	0.5	104	15.5	15.5	7.8	7.8	33.1	33.1	96.0	96.0	7.8	7.8	16.9	16	83	83	83	16							83	83	83						819414	806028	<0.2	<0.2	1.4	1.4	
						8.1	0.5	106	15.5	15.5	7.8	7.8	33.1	33.1	96.0	96.0	7.8	7.8	17.1	15	83	83	83	15							83	83	83												
IM4	Fine	Rough	10:25	8.4	Surface	1.0	0.7	110	15.6	15.6	7.8	7.8	32.4	32.4	95.2	95.2	7.8	7.8	7.4	7.8	8	82	83	83	819588	805031	<0.2	<0.2	1.4	1.2															
						1.0	0.7	111	15.6	15.6	7.8	7.8	32.4	32.4	95.2	95.2	7.8	7.8	7.5	10	82	82	10	82							82	82													
					Middle	4.2	0.6	92	15.5	15.5	7.8	7.8	32.6	32.6	94.8	94.8	7.8	7.8	16.3	22	83	83	22	83							83	83	819588	805031	<0.2	<0.2	1.3	1.2							
						4.2	0.7	95	15.5	15.5	7.8	7.8	32.6	32.6	94.8	94.8	7.8	7.8	16.6	21	83	83	21	83							83	83													
					Bottom	7.4	0.6	110	15.5	15.5	7.8	7.8	32.9	32.9	94.7	94.7	7.7	7.7	26.3	34	84	84	34	84							84	84							819588	805031	<0.2	<0.2	1.0	1.2	
						7.4	0.6	117	15.5	15.5	7.8	7.8	32.9	32.9	94.7	94.7	7.7	7.7	25.8	34	84	84	34	84							84	84													
IM5	Fine	Rough	10:32	7.3	Surface	1.0	0.7	106	15.6	15.6	7.8	7.8	32.0	32.0	94.9	94.9	7.8	7.8	5.4	7.8	6	79	81	81	820545	804927	<0.2	<0.2	1.3	1.4															
						1.0	0.7	109	15.6	15.6	7.8	7.8	32.0	32.0	94.9	94.9	7.8	7.8	5.3	6	80	80	6	80							80	80													
					Middle	3.7	0.7	76	15.6	15.6	7.8	7.8	32.2	32.2	94.8	94.9	7.8	7.8	11.2	10	81	81	10	81							81	81	820545	804927	<0.2	<0.2	1.5	1.4							
						3.7	0.7	76	15.6	15.6	7.8	7.8	32.2	32.2	94.9	94.9	7.8	7.8	11.3	8	81	81	8	81							81	81													
					Bottom	6.3	0.6	115	15.5	15.5	7.8	7.8	32.9	32.9	95.3	95.3	7.8	7.8	32.																										

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

Water Quality Monitoring

Water Quality Monitoring Results on 17 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
IM9	Cloudy	Moderate	09:30	7.9	Surface	1.0	0.6	212	18.7	18.7	7.9	7.9	27.4	27.4	93.6	93.6	7.4	7.4	13.3	13.3	16	16	78	78	81	822104	808803	<0.2	<0.2	1.9	1.9				
						1.0	0.6	217	18.7	7.9	7.9	27.4	27.4	93.6	93.6	7.4	7.4	13.3	13.3	16	16	77	77												
					Middle	4.0	0.5	233	18.6	18.6	7.9	7.9	27.5	27.5	93.5	93.6	7.4	7.4	15.2	15.2	16	16	83	83											
						4.0	0.6	236	18.6	18.6	7.9	7.9	27.5	27.5	93.6	93.6	7.4	7.4	15.3	15.3	18	18	82	82											
					Bottom	6.9	0.6	261	18.6	18.6	7.9	7.9	28.0	28.0	94.6	94.6	7.5	7.5	15.3	15.3	18	18	84	84											
						6.9	0.7	284	18.6	18.6	7.9	7.9	28.0	28.0	94.6	94.6	7.5	7.5	15.3	15.3	19	19	84	84											
IM10	Cloudy	Moderate	09:23	8.1	Surface	1.0	0.7	278	18.7	18.7	7.9	7.9	28.2	28.2	93.7	93.8	7.4	7.4	13.5	13.5	13	13	77	77	81	822255	809824	<0.2	<0.2	1.6	1.6				
						1.0	0.7	285	18.7	7.9	7.9	28.2	28.2	93.8	93.8	7.4	7.4	13.7	13.7	13	13	78	78												
					Middle	4.1	0.6	288	18.6	18.6	7.9	7.9	28.4	28.4	93.3	93.3	7.4	7.4	19.3	19.3	13	13	82	82											
						4.1	0.6	289	18.6	18.6	7.9	7.9	28.4	28.4	93.3	93.3	7.4	7.4	19.4	19.4	11	11	83	83											
					Bottom	7.1	0.6	273	18.5	18.5	7.9	7.9	28.5	28.5	93.3	93.3	7.4	7.4	23.8	23.8	16	16	84	84											
						7.1	0.7	278	18.5	18.5	7.9	7.9	28.5	28.5	93.3	93.3	7.4	7.4	24.1	24.1	16	16	84	84											
IM11	Cloudy	Rough	09:15	8.9	Surface	1.0	0.6	274	18.6	18.6	7.9	7.9	28.3	28.3	93.5	93.5	7.4	7.4	14.0	14.0	15	15	77	77	81	821503	810536	<0.2	<0.2	1.4	1.4				
						1.0	0.7	286	18.6	18.6	7.9	7.9	28.3	28.3	93.5	93.5	7.4	7.4	14.1	14.1	15	15	78	78											
					Middle	4.5	0.5	278	18.5	18.5	7.9	7.9	28.7	28.7	93.4	93.4	7.4	7.4	18.3	18.3	14	14	81	81											
						4.5	0.5	303	18.5	18.5	7.9	7.9	28.7	28.7	93.4	93.4	7.4	7.4	18.1	18.1	16	16	83	83											
					Bottom	7.9	0.4	259	18.5	18.5	7.9	7.9	28.7	28.7	94.0	94.0	7.4	7.4	21.2	21.2	16	16	84	84											
						7.9	0.5	277	18.5	18.5	7.9	7.9	28.7	28.7	94.0	94.0	7.4	7.4	21.3	21.3	15	15	85	85											
IM12	Cloudy	Moderate	09:08	9.2	Surface	1.0	0.8	269	18.6	18.6	7.9	7.9	28.8	28.8	93.3	93.3	7.4	7.4	13.5	13.5	18	18	79	79	82	821160	811532	<0.2	<0.2	1.3	1.3				
						1.0	0.8	276	18.6	18.6	7.9	7.9	28.8	28.8	93.3	93.3	7.4	7.4	13.5	13.5	17	17	79	79											
					Middle	4.6	0.7	268	18.5	18.5	7.9	7.9	28.8	28.8	93.1	93.1	7.3	7.3	14.6	14.6	18	18	83	83											
						4.6	0.7	276	18.5	18.5	7.9	7.9	28.8	28.8	93.1	93.1	7.3	7.3	14.7	14.7	16	16	82	82											
					Bottom	8.2	0.6	262	18.5	18.5	7.9	7.9	28.9	28.9	93.6	94.4	7.4	7.4	15.7	15.7	17	17	85	85											
						8.2	0.6	264	18.5	18.5	7.9	7.9	28.9	28.9	95.1	95.1	7.5	7.5	15.2	15.2	18	18	84	84											
SR2	Cloudy	Moderate	08:22	5.5	Surface	1.0	0.7	278	18.5	18.5	7.9	7.9	28.7	28.7	92.7	92.7	7.3	7.3	17.9	17.9	16	16	82	82	82	821477	814166	<0.2	<0.2	1.3	1.3				
						1.0	0.8	282	18.5	18.5	7.9	7.9	28.7	28.7	92.7	92.7	7.3	7.3	17.9	17.9	16	16	78	78											
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-
					Bottom	4.5	0.6	278	18.5	18.5	7.9	7.9	28.7	28.7	92.6	92.6	7.3	7.3	20.5	20.5	17	17	85	85											
						4.5	0.6	294	18.5	18.5	7.9	7.9	28.7	28.7	92.6	92.6	7.3	7.3	19.1	19.1	17	17	84	84											
SR3	Cloudy	Rough	09:49	9.3	Surface	1.0	0.7	211	18.8	18.8	7.9	7.9	26.8	26.8	93.2	93.2	7.4	7.4	7.8	7.8	8	8	-	-	-	822134	807588	-	-	-	-				
						1.0	0.7	211	18.8	18.8	7.9	7.9	26.8	26.8	93.2	93.2	7.4	7.4	7.9	7.9	7	7	-	-											
					Middle	4.7	0.7	114	18.7	18.7	7.9	7.9	27.4	27.4	92.5	92.5	7.3	7.3	17.9	17.9	6	6	-	-											
						4.7	0.8	119	18.7	18.7	7.9	7.9	27.4	27.4	92.5	92.5	7.3	7.3	18.2	18.2	8	8	-	-											
					Bottom	8.3	0.7	80	18.7	18.7	7.9	7.9	27.5	27.5	92.6	92.6	7.3	7.3	19.1	19.1	7	7	-	-											
						8.3	0.7	80	18.7	18.7	7.9	7.9	27.4	27.4	92.6	92.6	7.3	7.3	19.0	19.0	9	9	-	-											
SR4A	Fine	Moderate	09:19	9.4	Surface	1.0	0.3	230	15.4	15.4	7.8	7.8	32.5	32.5	93.8	93.8	7.7	7.7	11.5	11.5	14	14	-	-	-	817185	807817	-	-	-	-				
						1.0	0.3	252	15.4	15.4	7.8	7.8	32.5	32.5	94.0	94.0	7.7	7.7	12.1	12.1	15	15	-	-											
					Middle	4.7	0.3	235	15.4	15.4	7.7	7.7	32.5	32.5	93.7	94.0	7.7	7.7	12.1	12.1	16	16	-	-											
						4.7	0.3	244	15.4	15.4	7.7	7.7	32.5	32.5	94.0	94.0	7.7	7.7	12.1	12.1	17	17	-	-											
					Bottom	8.4	0.3	229	15.4	15.4	7.8	7.8	32.5	32.5	94.4	94.4	7.7	7.7	11.8	11.8	16	16	-	-											
						8.4	0.3	239	15.4	15.4	7.8	7.8	32.5	32.5	94.4	94.4	7.7	7.7	11.8	11.8	18	18	-	-											
SR5A	Cloudy	Moderate	09:03	4.0	Surface	1.0	0.2	279	15.4	15.4	7.7	7.7	32.3	32.3	94.8	94.8	7.8	7.8	15.6	15.6	21	21	-	-	-	816580	810712	-	-	-	-				
						1.0	0.2	300	15.4	15.4	7.7	7.7	32.3	32.3	94.8	94.8	7.8	7.8	15.7	15.7	21	21	-	-											
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
					Bottom	3.0	0.2	273	15.4	15.4	7.7	7.7	32.3	32.3	95.3	95.3	7.8	7.8	15.6	15.6	23	23	-	-											
						3.0	0.2	298	15.4	15.4	7.7	7.7	32.3	32.3	95.3	95.3	7.8	7.8	15.5	15.5	22	22	-	-											
SR6	Cloudy	Moderate	08:41	4.2	Surface	1.0	0.2	224	15.5	15.5	7.7	7.7	31.5	31.5	93.6	93.6	7.7	7.7	10.2	10.2	14	14	-	-	-	817885	814670	-	-	-	-				
						1.0	0.2	231	15.5	15.5	7.7	7.7	31.5	31.5	93.6	93.6	7.7	7.7	10.3	10.3	14	14	-	-											
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-		
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-		
					Bottom	3.2	0.2	216	15.5	15.5	7.7	7.7	31.5	31.5	95.3	95.3	7.8	7.8	10.4	10.4	20	20	-	-											
						3.2	0.2	217	15.5	15.5	7.7	7.7	31.5	31.5	95.4	95.4	7.9	7.9	10.3	10.3	20	20	-	-											
SR7	Cloudy	Moderate	07:46	15.7	Surface	1.0	0.2	158	15.3	15.3	7.7	7.7	29.5	29.5	92.1	92.1	7.7	7.7	3.1	3.1	6	6	-	-	-	823655	823733	-	-	-	-				
						1.0	0.2	161	15.3	15.3	7.7	7.7	29.5	29.5	92.1	92.1	7.7	7.7	3.1	3.1	8	8	-	-											
					Middle	7.9	0.2	160	15.3	15.3	7.6	7.6	29.8	29.8	91.9	91.9	7.7	7.7	3.4	3.4	8	8	-</												

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

Water Quality Monitoring

Water Quality Monitoring Results on 17 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	15:06	8.8	Surface	1.0	0.3	217	15.5	15.5	7.9	7.9	35.3	35.3	96.8	96.8	7.8	7.8	6.3	7.8	6	8	81	82	815638	804244	<0.2	0.9	<0.2	0.9
						1.0	0.4	219	15.5	7.9	7.9	35.3	35.3	96.8	96.8	7.8	7.8	6.4	7.8	6	8	81	82							
					Middle	4.4	0.4	208	15.5	15.5	7.9	7.9	35.4	35.4	96.6	96.6	7.8	7.8	7.1	7.8	7	8	81	82						
						4.4	0.4	223	15.5	15.5	7.9	7.9	35.4	35.4	96.6	96.6	7.8	7.8	7.1	7.8	9	8	81	82						
					Bottom	7.8	0.3	213	15.3	15.3	7.9	7.9	35.4	35.4	96.9	96.9	7.8	7.8	8.3	7.8	9	8	81	82						
						7.8	0.3	224	15.3	15.3	7.9	7.9	35.4	35.4	97.0	97.0	7.8	7.8	8.2	7.8	10	8	81	82						
C2	Cloudy	Moderate	14:06	12.5	Surface	1.0	0.3	156	19.0	19.0	7.9	7.9	26.1	26.1	93.5	93.5	7.4	7.4	6.8	7.3	5	5	80	81	825691	806961	<0.2	0.8	<0.2	1.0
						1.0	0.4	161	19.0	18.6	7.9	7.9	26.1	26.1	93.5	93.5	7.4	7.3	6.8	7.3	3	5	80	81						
					Middle	6.3	0.3	163	18.6	18.6	7.9	7.9	29.0	29.0	91.5	91.5	7.2	7.2	10.5	7.2	6	5	81	81						
						6.3	0.3	166	18.6	18.6	7.9	7.9	29.0	29.0	91.5	91.5	7.2	7.2	10.6	7.2	4	5	81	81						
					Bottom	11.5	0.3	174	18.6	18.6	7.9	7.9	29.1	29.1	91.4	91.4	7.2	7.2	13.5	7.2	6	5	81	81						
						11.5	0.3	185	18.6	18.6	7.9	7.9	29.1	29.1	91.4	91.4	7.2	7.2	13.6	7.2	7	5	81	81						
C3	Cloudy	Moderate	15:47	12.6	Surface	1.0	0.5	69	18.7	18.7	7.9	7.9	28.8	28.8	92.8	92.8	7.3	7.3	7.5	7.3	6	8	73	75	822101	817793	<0.2	0.6	<0.2	0.6
						1.0	0.6	69	18.7	18.5	7.9	7.9	28.8	28.8	92.8	92.8	7.3	7.3	7.5	7.3	6	8	73	75						
					Middle	6.3	0.4	91	18.5	18.5	7.9	7.9	29.7	29.7	91.1	91.1	7.2	7.2	7.1	7.2	8	8	81	81						
						6.3	0.4	91	18.5	18.5	7.9	7.9	29.7	29.7	91.1	91.1	7.2	7.2	7.2	7.2	8	8	81	81						
					Bottom	11.6	0.3	87	18.5	18.5	7.9	7.9	29.8	29.8	90.5	90.5	7.1	7.1	7.4	7.1	9	8	81	81						
						11.6	0.4	87	18.5	18.5	7.9	7.9	29.9	29.9	90.5	90.5	7.1	7.1	7.7	7.1	11	8	81	81						
IM1	Cloudy	Moderate	14:48	7.8	Surface	1.0	0.3	195	15.7	15.7	7.8	7.8	34.0	34.0	96.6	96.6	7.8	7.8	8.2	7.8	10	10	80	80	818343	806443	<0.2	0.7	<0.2	1.0
						1.0	0.3	202	15.7	15.6	7.8	7.8	34.0	34.0	96.6	96.6	7.8	7.8	8.2	7.8	8	10	80	80						
					Middle	3.9	0.3	187	15.6	15.6	7.8	7.8	34.0	34.0	96.5	96.5	7.8	7.8	9.0	7.8	9	10	81	81						
						3.9	0.3	199	15.6	15.5	7.8	7.8	34.0	34.0	96.6	96.6	7.8	7.8	9.0	7.8	10	10	81	81						
					Bottom	6.8	0.3	158	15.5	15.5	7.8	7.8	34.9	34.9	96.9	96.9	7.8	7.8	9.8	7.8	11	10	82	82						
						6.8	0.3	165	15.5	15.5	7.8	7.8	34.9	34.9	97.0	97.0	7.8	7.8	9.8	7.8	11	10	82	82						
IM2	Cloudy	Moderate	14:42	8.7	Surface	1.0	0.3	215	15.7	15.7	7.8	7.8	33.2	33.2	96.5	96.5	7.8	7.8	5.9	7.8	7	9	79	80	818833	806201	<0.2	0.5	<0.2	0.8
						1.0	0.3	225	15.7	15.5	7.8	7.8	33.2	33.2	96.5	96.5	7.8	7.8	5.9	7.8	7	9	80	81						
					Middle	4.4	0.3	173	15.5	15.5	7.8	7.8	34.5	34.5	96.6	96.6	7.8	7.8	8.4	7.8	8	9	81	81						
						4.4	0.3	184	15.5	15.5	7.8	7.8	34.5	34.5	96.6	96.6	7.8	7.8	8.5	7.8	10	9	81	81						
					Bottom	7.7	0.3	171	15.5	15.5	7.8	7.8	34.8	34.8	96.9	96.9	7.8	7.8	9.9	7.8	9	9	82	82						
						7.7	0.3	183	15.5	15.5	7.8	7.8	34.8	34.8	97.0	97.0	7.8	7.8	9.9	7.8	11	9	82	82						
IM3	Cloudy	Moderate	14:35	8.9	Surface	1.0	0.3	197	15.7	15.7	7.8	7.8	32.9	32.9	97.0	97.1	7.9	7.9	6.3	7.9	7	8	81	81	819407	806008	<0.2	0.6	<0.2	0.7
						1.0	0.3	199	15.7	15.6	7.8	7.8	32.9	32.9	97.1	97.1	7.9	7.9	6.3	7.9	6	8	81	81						
					Middle	4.5	0.3	152	15.6	15.6	7.8	7.8	34.3	34.3	96.9	96.9	7.8	7.8	8.3	7.8	7	8	81	81						
						4.5	0.3	167	15.6	15.6	7.8	7.8	34.3	34.3	96.9	96.9	7.8	7.8	8.4	7.8	8	8	82	82						
					Bottom	7.9	0.3	137	15.6	15.6	7.8	7.8	34.5	34.5	96.9	96.9	7.8	7.8	9.0	7.8	9	8	82	82						
						7.9	0.3	147	15.6	15.6	7.8	7.8	34.5	34.5	96.9	96.9	7.8	7.8	9.0	7.8	12	8	83	83						
IM4	Cloudy	Moderate	14:27	8.3	Surface	1.0	0.2	185	15.6	15.6	7.8	7.8	34.5	34.5	96.9	96.9	7.8	7.8	9.7	7.8	12	12	80	81	819589	805021	<0.2	1.1	<0.2	1.2
						1.0	0.2	198	15.6	15.6	7.8	7.8	34.5	34.5	96.9	96.9	7.8	7.8	9.8	7.8	11	12	81	81						
					Middle	4.2	0.2	177	15.6	15.6	7.8	7.8	34.6	34.6	96.8	96.8	7.8	7.8	10.3	7.8	13	12	81	81						
						4.2	0.2	180	15.6	15.5	7.8	7.8	34.6	34.6	96.9	96.9	7.8	7.8	10.3	7.8	13	12	81	81						
					Bottom	7.3	0.1	166	15.5	15.5	7.8	7.8	34.6	34.6	97.5	97.5	7.9	7.9	10.7	7.9	12	12	82	82						
						7.3	0.1	166	15.5	15.5	7.8	7.8	34.6	34.6	97.5	97.5	7.9	7.9	10.8	7.9	13	12	82	82						
IM5	Cloudy	Moderate	14:20	7.2	Surface	1.0	0.4	164	15.6	15.6	7.8	7.8	33.8	33.8	96.7	96.7	7.8	7.8	11.4	7.8	11	11	80	80	820561	804929	<0.2	2.7	<0.2	2.5
						1.0	0.4	167	15.6	15.5	7.8	7.8	33.8	33.8	96.7	96.7	7.8	7.8	11.3	7.8	12	11	80	81						
					Middle	3.6	0.4	169	15.5	15.5	7.8	7.8	34.0	34.0	96.9	96.9	7.9	7.9	11.0	7.9	12	11	81	81						
						3.6	0.4	183	15.5	15.5	7.8	7.8	34.0	34.0	96.9	96.9	7.9	7.9	10.9	7.9	11	11	81	81						
					Bottom	6.2	0.4	184	15.5	15.5	7.8	7.8	34.1	34.1	97.6	97.6	7.9	7.9	10.5	7.9	11	11	82	82						
						6.2	0.4	190	15.5	15.5	7.8	7.8	34.1	34.1	97.6	97.6	7.9	7.9	10.6	7.9	11	11	82	82						
IM6	Cloudy	Moderate	14:12	7.2	Surface	1.0	0.3	134	15.5	15.5	7.8	7.8	34.1	34.1	96.6	96.7	7.8	7.8	9.0	7.8	9	10	80	81	821045	805837	<0.2	0.4	<0.2	0.4
						1.0	0.3	142	15.5	15.5	7.8	7.8	34.1	34.1	96.7	96.7	7.8	7.8	9.0	7.8	9	10	81	82						
					Middle	3.6	0.3	149	15.5	15.5	7.8	7.8	34.1	34.1	96.5	96.5	7.8	7.8	10.0	7.8	10	10	82	82						
						3.6	0.3	157	15.5	15.5	7.8	7.8	34.1	34.1	96.5	96.5	7.8	7.8	10.0	7.8	11	10	82	82						
					Bottom	6.2	0.3	129	15.5	15.5	7.8	7.8	34.1	34.1	96.8	96.8	7.8	7.8	10.9	7.8	10	10	83	83						
						6.2	0.4	134	15.5	15.5	7.8	7.8	34.1	34.1	96.9	96.9	7.9	7.9	10.8	7.9	10	10	83	83						
IM7	Cloudy	Moderate	14:01	8.7	Surface	1.0	0.4	121	15.5	15.5	7.8	7.8	33.8	33.8	97.4	97.4	7.9	7.9	10.7	7.9	10	12	82	84	821348	806833	<0.2	0.7	<0.2	0.8
						1.0	0.4	128	15.5	15.5	7.8	7.8	33.8	33.8	97.3	97.3	7.9	7.9	10.8	7.9	10	12	83	84						
					Middle	4.4	0.4	122	15.5	15.5	7.8	7.8	33.8	33.8																

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

Water Quality Monitoring

Water Quality Monitoring Results on 19 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Rainy	Moderate	10:17	8.9	Surface	1.0	0.5	60	15.6	15.6	7.8	7.8	32.9	32.9	97.2	97.2	7.9	7.9	4.9	7.9	6	77	80	815628	804258	<0.2	0.9	<0.2	0.8	
						1.0	0.5	62	15.6	15.6	7.8	7.8	32.9	32.9	97.2	97.2	7.9	7.9	4.9	7.9	6	77	80	815628	804258	<0.2	1.0	<0.2	0.8	
						4.5	0.5	67	15.3	15.3	7.8	7.8	33.7	33.7	96.6	96.6	7.9	7.9	7.2	7.9	10	79	80	815628	804258	<0.2	0.8	<0.2	0.8	
					Middle	4.5	0.5	72	15.3	15.3	7.8	7.8	33.7	33.7	96.6	96.6	7.9	7.9	7.2	7.9	8	80	80	815628	804258	<0.2	0.8	<0.2	0.8	
						7.9	0.5	76	15.3	15.3	7.8	7.8	33.7	33.7	96.6	96.6	7.9	7.9	7.4	7.9	12	83	80	815628	804258	<0.2	0.8	<0.2	0.8	
						7.9	0.5	81	15.3	15.3	7.8	7.8	33.7	33.7	96.6	96.6	7.9	7.9	7.4	7.9	12	84	80	815628	804258	<0.2	0.7	<0.2	0.7	
C2	Rainy	Rough	11:07	12.2	Surface	1.0	0.2	245	19.2	19.2	7.9	7.9	24.1	24.1	93.7	93.7	7.5	7.5	4.6	7.5	4	75	80	825663	806951	<0.2	2.8	<0.2	2.8	
						1.0	0.2	261	19.2	19.2	7.9	7.9	24.1	24.1	93.7	93.7	7.5	7.5	4.6	7.5	5	76	80	825663	806951	<0.2	2.1	<0.2	2.1	
						6.1	0.5	269	19.1	19.1	7.9	7.9	26.2	26.2	94.6	94.6	7.5	7.5	4.5	7.5	6	81	80	825663	806951	<0.2	2.8	<0.2	2.8	
					Middle	6.1	0.5	289	19.1	19.1	7.9	7.9	26.1	26.1	94.6	94.6	7.5	7.5	4.5	7.5	6	81	80	825663	806951	<0.2	1.8	<0.2	1.9	
						11.2	0.4	255	19.0	19.0	7.9	7.9	28.0	28.0	95.8	95.8	7.5	7.5	4.6	7.5	10	83	80	825663	806951	<0.2	1.9	<0.2	1.9	
						11.2	0.4	279	19.0	19.0	7.9	7.9	28.0	28.0	95.9	95.9	7.5	7.5	4.6	7.5	11	84	80	825663	806951	<0.2	2.0	<0.2	2.0	
C3	Rainy	Moderate	09:19	12.1	Surface	1.0	0.5	270	18.8	18.8	7.9	7.9	29.2	29.2	94.5	94.5	7.4	7.4	4.2	7.4	5	80	82	822122	817821	<0.2	1.4	<0.2	1.5	
						1.0	0.6	280	18.8	18.8	7.9	7.9	29.2	29.2	94.5	94.5	7.4	7.4	4.2	7.4	7	81	82	822122	817821	<0.2	1.5	<0.2	1.5	
						6.1	0.8	226	18.8	18.8	7.9	7.9	29.2	29.2	93.9	93.9	7.4	7.4	4.4	7.4	5	82	82	822122	817821	<0.2	1.4	<0.2	1.4	
					Middle	6.1	0.8	231	18.8	18.8	7.9	7.9	29.2	29.2	93.9	93.9	7.4	7.4	4.4	7.4	6	82	82	822122	817821	<0.2	1.4	<0.2	1.4	
						11.1	1.2	219	18.8	18.8	7.9	7.9	29.3	29.3	93.3	93.3	7.3	7.3	4.6	7.3	8	84	82	822122	817821	<0.2	1.6	<0.2	1.6	
						11.1	1.3	227	18.7	18.8	7.9	7.9	29.5	29.4	94.0	93.7	7.4	7.4	4.4	7.4	8	84	82	822122	817821	<0.2	1.5	<0.2	1.5	
IM1	Rainy	Moderate	10:35	7.6	Surface	1.0	0.5	126	15.8	15.8	7.8	7.8	32.7	32.7	97.3	97.3	7.9	7.9	4.4	7.9	4	79	81	818347	806472	<0.2	1.0	<0.2	1.0	
						1.0	0.5	130	15.8	15.8	7.8	7.8	32.7	32.7	97.3	97.3	7.9	7.9	4.4	7.9	6	81	81	818347	806472	<0.2	0.9	<0.2	0.9	
						3.8	0.4	125	15.7	15.7	7.8	7.8	32.8	32.8	97.0	97.0	7.9	7.9	5.4	7.9	6	81	81	818347	806472	<0.2	1.0	<0.2	1.0	
					Middle	3.8	0.5	128	15.7	15.7	7.8	7.8	32.8	32.8	97.0	97.0	7.9	7.9	5.4	7.9	8	80	81	818347	806472	<0.2	1.0	<0.2	1.0	
						6.6	0.4	134	15.5	15.5	7.8	7.8	33.7	33.7	96.7	96.7	7.9	7.9	8.7	7.9	14	84	81	818347	806472	<0.2	1.2	<0.2	1.2	
						6.6	0.4	145	15.5	15.5	7.8	7.8	33.7	33.7	96.7	96.7	7.9	7.9	8.7	7.9	13	83	81	818347	806472	<0.2	1.2	<0.2	1.2	
IM2	Rainy	Moderate	10:40	8.9	Surface	1.0	0.4	189	16.0	16.0	7.8	7.8	32.8	32.9	96.9	96.9	7.8	7.8	5.7	7.8	6	77	80	818851	806211	<0.2	1.6	<0.2	1.5	
						1.0	0.5	194	15.9	15.9	7.8	7.8	32.9	32.9	96.9	96.9	7.8	7.8	5.7	7.8	6	78	80	818851	806211	<0.2	1.5	<0.2	1.5	
						4.5	0.4	117	15.8	15.8	7.9	7.9	33.2	33.2	96.7	96.7	7.8	7.8	8.0	7.8	7	81	80	818851	806211	<0.2	1.4	<0.2	1.4	
					Middle	4.5	0.4	127	15.8	15.8	7.9	7.9	33.2	33.2	96.7	96.7	7.8	7.8	8.0	7.8	8	81	80	818851	806211	<0.2	1.4	<0.2	1.4	
						7.9	0.4	160	15.7	15.7	7.9	7.9	33.7	33.7	96.7	96.7	7.8	7.8	8.8	7.8	12	82	80	818851	806211	<0.2	1.0	<0.2	1.0	
						7.9	0.4	168	15.7	15.7	7.9	7.9	33.7	33.7	96.7	96.7	7.8	7.8	8.8	7.8	12	83	80	818851	806211	<0.2	1.1	<0.2	1.1	
IM3	Rainy	Moderate	10:49	9.0	Surface	1.0	0.4	169	16.0	16.0	7.8	7.8	32.8	32.8	97.0	97.0	7.9	7.9	4.6	7.9	4	76	80	819407	806019	<0.2	1.2	<0.2	1.2	
						1.0	0.4	179	16.0	16.0	7.8	7.8	32.8	32.8	97.0	97.0	7.9	7.9	4.6	7.9	4	77	80	819407	806019	<0.2	1.2	<0.2	1.2	
						4.5	0.4	158	15.9	15.9	7.8	7.8	33.0	33.0	96.7	96.7	7.8	7.8	6.1	7.8	6	80	80	819407	806019	<0.2	1.2	<0.2	1.2	
					Middle	4.5	0.4	164	15.9	15.9	7.8	7.8	33.0	33.0	96.7	96.7	7.8	7.8	6.3	7.8	6	81	80	819407	806019	<0.2	1.1	<0.2	1.1	
						8.0	0.4	166	15.8	15.8	7.9	7.9	33.7	33.7	96.5	96.5	7.8	7.8	8.0	7.8	10	83	80	819407	806019	<0.2	1.0	<0.2	1.0	
						8.0	0.4	176	15.8	15.8	7.9	7.9	33.7	33.7	96.5	96.5	7.8	7.8	8.0	7.8	12	84	80	819407	806019	<0.2	0.9	<0.2	0.9	
IM4	Rainy	Moderate	10:57	8.2	Surface	1.0	0.4	209	16.0	16.0	7.8	7.8	32.2	32.2	96.8	96.8	7.9	7.9	7.2	7.9	3	80	81	819580	805026	<0.2	1.6	<0.2	1.6	
						1.0	0.4	213	16.0	16.0	7.8	7.8	32.2	32.2	96.8	96.8	7.9	7.9	7.2	7.9	3	79	81	819580	805026	<0.2	1.4	<0.2	1.4	
						4.1	0.4	177	15.8	15.8	7.8	7.8	32.5	32.5	96.4	96.4	7.8	7.8	11.8	7.8	6	81	81	819580	805026	<0.2	1.4	<0.2	1.4	
					Middle	4.1	0.4	191	15.8	15.8	7.8	7.8	32.5	32.5	96.4	96.4	7.8	7.8	11.8	7.8	8	79	81	819580	805026	<0.2	1.5	<0.2	1.5	
						7.2	0.4	161	15.7	15.7	7.8	7.8	34.0	34.0	96.4	96.4	7.8	7.8	15.3	7.8	15	83	81	819580	805026	<0.2	0.8	<0.2	0.8	
						7.2	0.4	170	15.7	15.7	7.8	7.8	34.0	34.0	96.4	96.4	7.8	7.8	15.3	7.8	13	83	81	819580	805026	<0.2	0.9	<0.2	0.9	
IM5	Rainy	Moderate	11:04	7.4	Surface	1.0	0.5	150	16.1	16.1	7.8	7.8	31.8	31.8	96.7	96.7	7.9	7.9	7.3	7.9	3	79	81	820560	804924	<0.2	2.0	<0.2	2.0	
						1.0	0.5	161	16.1	16.1	7.8	7.8	31.8	31.8	96.7	96.7	7.9	7.9	7.3	7.9	5	77	81	820560	804924	<0.2	1.9	<0.2	1.9	
						3.7	0.4	168	15.9	15.9	7.9	7.9	32.2	32.2	96.5	96.5	7.9	7.9	13.3	7.9	8	80	81	820560	804924	<0.2	1.5	<0.2	1.5	
					Middle	3.7	0.4	168	15.9	15.9	7.9	7.9	32.2	32.2	96.5	96.5	7.9	7.9	13.3	7.9	6	81	81	820560	804924	<0.2	1.4	<0.2	1.4	
						6.4	0.4	167	15.9	15.9	7.9	7.9	33.8	33.8	96.5	96.5	7.8	7.8	13.8	7.8	17	84	81	820560	804924	<0.2	1.4	<0.2	1.4	
						6.4	0.4	172	15.9	15.9																				

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

Water Quality Monitoring

Water Quality Monitoring Results on 19 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Rainy	Rough	10:30	7.4	Surface	1.0	0.5	247	19.0	19.0	7.9	7.9	27.0	27.0	94.3	94.3	7.5	7.5	7.5	7.5	5	5	77	77	81	822111	808797	<0.2	2.7	<0.2	2.4					
						1.0	0.5	263	19.0	19.0	7.9	7.9	27.0	27.0	94.3	94.3	7.5	7.5	7.5	7.5	4	4	78	78				<0.2	2.4							
					Middle	3.7	0.6	255	19.0	19.0	7.9	7.9	27.2	27.2	94.4	94.4	7.5	7.5	7.5	7.5	4	4	82	82				<0.2	2.4							
						3.7	0.6	256	19.0	19.0	7.9	7.9	27.2	27.2	94.4	94.4	7.5	7.5	7.5	7.5	6	6	82	82				<0.2	2.4							
					Bottom	6.4	0.4	244	18.9	18.9	7.9	7.9	27.8	27.8	95.1	95.1	7.5	7.5	7.5	7.5	4	4	84	84				<0.2	2.6							
						6.4	0.4	260	18.9	18.9	7.9	7.9	27.8	27.8	95.1	95.1	7.5	7.5	7.5	7.5	5	5	83	83				<0.2	2.6							
IM10	Rainy	Rough	10:21	7.7	Surface	1.0	0.7	275	19.1	19.1	7.9	7.9	26.8	26.8	94.4	94.4	7.5	7.5	7.5	7.5	3	3	77	77	81	822232	809829	<0.2	2.4	<0.2	2.6					
						1.0	0.7	291	19.1	19.1	7.9	7.9	26.8	26.8	94.4	94.4	7.5	7.5	7.5	7.5	4	4	78	78				<0.2	2.6							
					Middle	3.9	0.6	254	19.1	19.1	7.9	7.9	27.0	27.0	94.2	94.2	7.4	7.4	7.4	7.4	4	4	81	81				<0.2	2.7							
						3.9	0.7	273	19.1	19.1	7.9	7.9	26.9	26.9	94.2	94.2	7.4	7.4	7.4	7.4	4	4	81	81				<0.2	2.6							
					Bottom	6.7	0.6	220	18.9	18.9	7.9	7.9	28.1	28.1	94.9	94.9	7.5	7.5	7.5	7.5	8	8	84	84				<0.2	2.6							
						6.7	0.6	223	18.9	18.9	7.9	7.9	28.1	28.1	94.9	94.9	7.5	7.5	7.5	7.5	9	9	84	84				<0.2	2.5							
IM11	Rainy	Moderate	10:09	8.9	Surface	1.0	0.6	275	19.1	19.1	7.9	7.9	27.3	27.3	94.8	94.8	7.5	7.5	7.5	7.5	4	4	78	78	81	821492	810528	<0.2	2.2	<0.2	2.2					
						1.0	0.6	284	19.1	19.1	7.9	7.9	27.3	27.3	94.8	94.8	7.5	7.5	7.5	7.5	6	6	77	77				<0.2	2.2							
					Middle	4.5	0.5	248	19.0	19.0	7.9	7.9	27.8	27.8	94.8	94.8	7.5	7.5	7.5	7.5	4	4	81	81				<0.2	2.5							
						4.5	0.5	252	19.0	19.0	7.9	7.9	27.8	27.8	94.8	94.8	7.5	7.5	7.5	7.5	4	4	81	81				<0.2	2.5							
					Bottom	7.9	0.8	214	18.9	18.9	7.9	7.9	28.1	28.1	95.7	95.7	7.5	7.5	7.5	7.5	6	6	83	83				<0.2	1.8							
						7.9	0.8	233	18.9	18.9	7.9	7.9	28.1	28.1	95.7	95.7	7.5	7.5	7.5	7.5	6	6	84	84				<0.2	1.9							
IM12	Rainy	Moderate	10:02	8.6	Surface	1.0	0.7	271	19.1	19.1	7.9	7.9	27.1	27.1	95.1	95.1	7.5	7.5	7.5	7.5	4	4	79	79	81	821149	811512	<0.2	2.5	<0.2	2.6					
						1.0	0.7	294	19.1	19.1	7.9	7.9	27.1	27.1	95.1	95.1	7.5	7.5	7.5	7.5	4	4	78	78				<0.2	2.6							
					Middle	4.3	0.7	266	19.0	19.0	7.9	7.9	27.7	27.7	94.5	94.5	7.4	7.4	7.4	7.4	4	4	82	82				<0.2	2.4							
						4.3	0.8	277	19.0	19.0	7.9	7.9	27.8	27.8	94.5	94.5	7.4	7.4	7.4	7.4	4	4	81	81				<0.2	2.6							
					Bottom	7.6	0.6	253	18.8	18.8	7.9	7.9	28.9	28.9	95.8	95.9	7.5	7.5	7.5	7.5	9	9	83	83				<0.2	1.5							
						7.6	0.6	261	18.8	18.8	7.9	7.9	28.9	28.9	95.9	95.9	7.5	7.5	7.5	7.5	10	10	84	84				<0.2	1.7							
SR2	Rainy	Moderate	09:40	4.7	Surface	1.0	0.3	189	18.9	18.9	7.9	7.9	28.6	28.6	94.3	94.3	7.4	7.4	7.4	7.4	4	4	81	81	83	821467	814183	<0.2	2.0	<0.2	2.0					
						1.0	0.3	193	18.9	18.9	7.9	7.9	28.6	28.6	94.3	94.3	7.4	7.4	7.4	7.4	4	4	80	80				<0.2	2.1							
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	
					Bottom	3.7	0.4	122	18.8	18.8	7.9	7.9	28.9	28.9	95.0	95.0	7.5	7.5	7.5	7.5	5	5	84	84				<0.2	1.9							
						3.7	0.4	124	18.8	18.8	7.9	7.9	28.9	28.9	95.0	95.0	7.5	7.5	7.5	7.5	5	5	85	85				<0.2	1.9							
SR3	Rainy	Rough	10:45	9.0	Surface	1.0	0.6	251	19.2	19.2	7.9	7.9	26.0	26.0	95.1	95.1	7.5	7.5	7.5	7.5	2	2	-	-	-	822151	807576	-	-	-	-					
						1.0	0.6	256	19.2	19.2	7.9	7.9	26.0	26.0	95.1	95.1	7.5	7.5	7.5	7.5	4	4	-	-				-	-							
					Middle	4.5	0.5	225	19.1	19.1	7.9	7.9	26.6	26.6	94.8	94.8	7.5	7.5	7.5	7.5	4	4	6	6				-	-	-	-					
						4.5	0.6	226	19.1	19.1	7.9	7.9	26.6	26.6	94.8	94.8	7.5	7.5	7.5	7.5	4	4	7	7				-	-	-	-					
					Bottom	8.0	1.1	156	19.0	19.0	7.9	7.9	27.5	27.5	96.4	96.5	7.6	7.6	7.6	7.6	9	9	-	-				-	-	-	-					
						8.0	1.1	162	19.0	19.0	7.9	7.9	27.5	27.5	96.6	96.6	7.6	7.6	7.6	7.6	4	4	9	9				-	-	-	-					
SR4A	Rainy	Moderate	09:56	9.0	Surface	1.0	0.4	248	15.8	15.8	7.8	7.8	31.8	31.8	95.8	95.8	7.8	7.8	7.8	7.8	8	8	-	-	-	817185	807802	-	-	-	-					
						1.0	0.4	268	15.8	15.8	7.8	7.8	31.8	31.8	95.8	95.8	7.8	7.8	7.8	7.8	9	9	-	-				-	-							
					Middle	4.5	0.3	249	15.7	15.7	7.8	7.8	31.9	31.9	95.6	95.6	7.8	7.8	7.8	7.8	10	10	-	-				-	-	-	-					
						4.5	0.4	269	15.7	15.7	7.8	7.8	31.9	31.9	95.6	95.6	7.8	7.8	7.8	7.8	11	11	-	-				-	-	-	-					
					Bottom	8.0	0.3	232	15.6	15.6	7.8	7.8	32.3	32.3	96.0	96.0	7.8	7.8	7.8	7.8	6	6	12	12				-	-	-	-					
						8.0	0.3	244	15.6	15.6	7.8	7.8	32.3	32.3	96.0	96.0	7.8	7.8	7.8	7.8	6	6	12	12				-	-	-	-					
SR5A	Rainy	Calm	09:39	4.1	Surface	1.0	0.2	217	15.9	15.9	7.7	7.7	31.2	31.2	96.2	96.2	7.9	7.9	7.9	7.9	10	10	-	-	-	816609	810677	-	-	-	-					
						1.0	0.2	222	15.9	15.9	7.7	7.7	31.2	31.2	96.2	96.2	7.9	7.9	7.9	7.9	12	12	-	-				-	-							
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-			
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-				
					Bottom	3.1	0.2	221	15.9	15.9	7.7	7.7	31.3	31.3	96.6	96.6	7.9	7.9	7.9	7.9	9	9	14	14				-	-	-	-					
						3.1	0.2	224	15.9	15.9	7.7	7.7	31.3	31.3	96.6	96.6	7.9	7.9	7.9	7.9	15	15	-	-				-	-	-	-					
SR6	Rainy	Moderate	08:51	4.1	Surface	1.0	0.2	224	15.8	15.8	7.7	7.7	27.4	27.4	95.0	95.0	8.0	8.0	8.0	8.0	19	19	-	-	-	817904	814649	-	-	-	-					
						1.0	0.2	246	15.8	15.8	7.7	7.7	27.4	27.4	95.0	95.0	8.0	8.0	8.0	8.0	13	13	-	-				-	-							
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-				
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-					
					Bottom	3.1	0.1	214	15.8	15.8	7.7	7.7	26.3	26.3	96.3	96.3	8.1	8.1	8.1	8.1	11	11	18	18				-	-	-	-					
						3.1	0.1</																													

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

Water Quality Monitoring

Water Quality Monitoring Results on 19 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Rainy	Moderate	16:41	8.9	Surface	1.0	0.3	129	15.8	15.8	7.9	7.9	34.2	34.3	98.4	98.4	7.9	7.9	4.3	4.3	5	5	79	81	815620	804227	<0.2	0.7	<0.2	0.6
						1.0	0.3	131	15.8	7.9	7.9	34.3	34.3	98.3	98.4	7.9	7.9	4.3	4.3	5	5	78	81	<0.2			0.6			
					Middle	4.5	0.3	155	15.6	15.6	7.8	7.8	34.4	34.5	97.3	97.3	7.9	7.9	4.8	4.8	5	5	80	81			<0.2	0.7	<0.2	0.5
						4.5	0.3	168	15.6	15.6	7.8	7.8	34.5	34.5	97.3	97.3	7.9	7.9	4.8	4.8	4	4	82	81			<0.2	0.7		
					Bottom	7.9	0.3	169	15.4	15.4	7.8	7.8	34.7	34.7	97.1	97.1	7.9	7.9	6.2	6.2	6	6	82	81			<0.2	0.5		
						7.9	0.3	173	15.4	15.4	7.8	7.8	34.7	34.7	97.1	97.1	7.9	7.9	6.2	6.2	5	5	84	81			<0.2	0.4		
C2	Rainy	Rough	15:31	12.4	Surface	1.0	0.2	141	19.2	19.2	7.8	7.8	25.6	25.6	92.7	92.7	7.4	7.4	4.8	4.8	4	4	75	80	825678	806928	<0.2	3.3	<0.2	3.2
						1.0	0.2	143	19.2	19.2	7.8	7.8	25.6	25.6	92.7	92.7	7.4	7.4	4.8	4.8	4	4	76	80			<0.2	3.2		
					Middle	6.2	0.2	137	18.9	18.9	7.8	7.8	28.2	28.2	92.0	92.0	7.2	7.2	5.5	5.5	2	3	81	81			<0.2	2.1	<0.2	2.2
						6.2	0.2	143	18.9	18.9	7.8	7.8	28.2	28.2	92.0	92.0	7.2	7.2	5.5	5.5	3	3	81	81			<0.2	2.2		
					Bottom	11.4	0.3	208	18.9	18.9	7.8	7.8	28.5	28.5	91.8	91.8	7.2	7.2	9.0	9.0	3	3	84	81			<0.2	1.8		
						11.4	0.3	227	18.9	18.9	7.8	7.8	28.5	28.5	91.8	91.8	7.2	7.2	9.1	9.1	3	3	83	81			<0.2	1.7		
C3	Rainy	Moderate	17:33	12.8	Surface	1.0	0.2	166	18.7	18.7	7.9	7.9	29.8	29.8	93.3	93.3	7.3	7.3	4.3	4.3	3	4	81	83	822112	817794	<0.2	1.3	<0.2	1.5
						1.0	0.3	181	18.7	18.7	7.9	7.9	29.8	29.8	93.3	93.3	7.3	7.3	4.3	4.3	4	4	80	83			<0.2	1.1		
					Middle	6.4	0.2	107	18.6	18.6	7.9	7.9	30.1	30.1	91.3	91.3	7.1	7.1	4.3	4.3	2	4	82	83			<0.2	1.0	<0.2	1.0
						6.4	0.2	107	18.6	18.6	7.9	7.9	30.1	30.1	91.2	91.3	7.1	7.1	4.3	4.3	2	4	83	83			<0.2	0.9		
					Bottom	11.8	0.3	136	18.5	18.5	7.9	7.9	30.6	30.6	91.7	91.7	7.2	7.2	4.8	4.8	5	5	85	83			<0.2	0.9		
						11.8	0.3	144	18.5	18.5	7.9	7.9	30.6	30.6	91.7	91.7	7.2	7.2	4.8	4.8	6	6	84	83			<0.2	1.1		
IM1	Rainy	Moderate	16:22	7.8	Surface	1.0	0.3	173	16.1	16.1	7.9	7.9	33.7	33.7	98.8	98.8	7.9	7.9	3.9	3.9	5	4	80	81	818349	806463	<0.2	0.9	<0.2	0.9
						1.0	0.3	189	16.1	16.1	7.9	7.9	33.7	33.7	98.7	98.8	7.9	7.9	3.9	3.9	4	4	78	81			<0.2	0.9		
					Middle	3.9	0.3	138	16.0	16.0	7.9	7.9	33.8	33.8	98.0	98.0	7.9	7.9	4.9	4.9	3	4	82	81			<0.2	0.8	<0.2	0.8
						3.9	0.4	139	16.0	16.0	7.9	7.9	33.8	33.8	98.0	98.0	7.9	7.9	4.9	4.9	3	4	81	81			<0.2	0.8		
					Bottom	6.8	0.3	150	15.8	15.8	7.9	7.9	34.2	34.2	97.5	97.5	7.9	7.9	6.9	6.9	3	3	83	81			<0.2	0.6		
						6.8	0.3	159	15.8	15.8	7.9	7.9	34.2	34.2	97.5	97.5	7.9	7.9	6.9	6.9	4	4	84	81			<0.2	0.7		
IM2	Rainy	Moderate	16:16	8.6	Surface	1.0	0.3	172	16.0	16.0	7.9	7.9	33.5	33.5	98.8	98.8	8.0	7.9	3.2	3.2	6	6	79	81	818855	806192	<0.2	0.9	<0.2	1.0
						1.0	0.4	179	16.0	16.0	7.9	7.9	33.5	33.5	98.7	98.8	7.9	7.9	3.2	3.2	4	6	77	81			<0.2	1.0		
					Middle	4.3	0.4	109	15.9	15.9	7.9	7.9	33.7	33.7	97.8	97.8	7.9	7.9	3.7	3.7	4	6	80	81			<0.2	0.8	<0.2	1.0
						4.3	0.4	112	15.9	15.9	7.9	7.9	33.7	33.7	97.7	97.8	7.9	7.9	3.8	3.8	6	6	80	81			<0.2	0.8		
					Bottom	7.6	0.3	131	15.8	15.8	7.9	7.9	34.1	34.1	97.5	97.5	7.9	7.9	5.7	5.7	8	8	83	81			<0.2	0.7		
						7.6	0.3	136	15.8	15.8	7.9	7.9	34.1	34.1	97.5	97.5	7.9	7.9	5.8	5.8	8	8	84	81			<0.2	0.7		
IM3	Rainy	Moderate	16:09	8.8	Surface	1.0	0.4	93	16.0	16.0	7.9	7.9	33.5	33.5	98.2	98.2	7.9	7.9	3.3	3.3	3	4	77	81	819419	806023	<0.2	0.9	<0.2	0.8
						1.0	0.4	95	16.0	16.0	7.9	7.9	33.5	33.5	98.2	98.2	7.9	7.9	3.3	3.3	4	4	79	81			<0.2	0.8		
					Middle	4.4	0.4	107	15.8	15.8	7.9	7.9	33.9	33.9	97.0	97.0	7.8	7.8	6.0	6.0	2	4	81	81			<0.2	0.8	<0.2	0.8
						4.4	0.4	108	15.8	15.8	7.9	7.9	33.9	33.9	97.0	97.0	7.8	7.8	6.0	6.0	3	4	80	81			<0.2	0.8		
					Bottom	7.8	0.3	140	15.8	15.8	7.9	7.9	34.3	34.3	97.1	97.1	7.8	7.8	7.6	7.6	7	7	84	81			<0.2	0.6		
						7.8	0.3	147	15.8	15.8	7.9	7.9	34.3	34.3	97.1	97.1	7.8	7.8	7.5	7.5	5	5	84	81			<0.2	0.5		
IM4	Rainy	Moderate	16:00	8.1	Surface	1.0	0.4	160	16.0	16.0	7.9	7.9	33.4	33.4	97.8	97.8	7.9	7.9	4.0	4.0	5	6	79	81	819569	805020	<0.2	1.1	<0.2	1.3
						1.0	0.4	168	16.0	16.0	7.9	7.9	33.4	33.4	97.8	97.8	7.9	7.9	4.0	4.0	4	6	77	81			<0.2	0.9		
					Middle	4.1	0.3	168	15.8	15.8	7.9	7.9	33.8	33.8	97.1	97.1	7.8	7.8	6.0	6.0	6	6	81	81			<0.2	1.3	<0.2	1.3
						4.1	0.3	180	15.8	15.8	7.9	7.9	33.8	33.8	97.1	97.1	7.8	7.8	6.0	6.0	4	6	80	81			<0.2	1.0		
					Bottom	7.1	0.3	184	15.8	15.8	7.9	7.9	34.1	34.1	97.1	97.1	7.8	7.8	7.4	7.4	9	9	84	81			<0.2	0.6		
						7.1	0.3	192	15.8	15.8	7.9	7.9	34.1	34.1	97.1	97.1	7.8	7.8	7.4	7.4	9	9	84	81			<0.2	0.6		
IM5	Rainy	Moderate	15:52	7.2	Surface	1.0	0.3	163	16.2	16.2	7.8	7.8	32.2	32.2	97.8	97.8	7.9	7.9	4.1	4.1	5	9	78	80	820562	804905	<0.2	1.3	<0.2	1.2
						1.0	0.4	176	16.2	16.2	7.8	7.8	32.2	32.2	97.8	97.8	7.9	7.9	4.1	4.1	3	9	78	80			<0.2	1.2		
					Middle	3.6	0.3	146	15.8	15.8	7.9	7.9	33.9	33.9	96.4	96.4	7.8	7.8	10.7	10.7	6	9	80	80			<0.2	0.8	<0.2	0.8
						3.6	0.3	155	15.8	15.8	7.9	7.9	33.9	33.9	96.4	96.4	7.8	7.8	10.7	10.7	6	9	78	80			<0.2	0.8		
					Bottom	6.2	0.3	118	15.8	15.8	7.9	7.9	34.2	34.2	96.8	96.8	7.8	7.8	12.7	12.7	16	16	83	80			<0.2	0.7		
						6.2	0.3	123	15.8	15.8	7.9	7.9	34.2	34.2	96.8	96.8	7.8	7.8	12.7	12.7	16	16	84	80			<0.2	0.9		
IM6	Rainy	Moderate	15:44	7.3	Surface	1.0	0.3	162	16.1	16.1	7.9	7.9	32.5	32.5	97.3	97.3	7.9	7.9	4.3	4.3	6	9	76	80	821041	805835	<0.2	1.2	<0.2	1.1
						1.0	0.4	178	16.1	16.1	7.9	7.9	32.5	32.5	97.3	97.3	7.9	7.9	4.3	4.3	7	9	76	80			<0.2	1.1		
					Middle	3.7	0.3	165	16.1	16.1	7.9	7.9	32.7	32.7	96.7	96.7	7.8	7.8	7.4	7.4	7	9	81	80			<0.2	1.1	<0.2	1.1
						3.7	0.4	181	16.1	16.1	7.9	7.9	32.7	32.7	96.7	96.7	7.8	7.8	7.4	7.4	5	9	80	80			<0.2	1.1		
					Bottom	6.3	0.3	19																						

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

Water Quality Monitoring

Water Quality Monitoring Results on 19 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA			
									Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
IM9	Rainy	Rough	16:12	7.5	Surface	1.0	0.3	169	19.2	8.0	8.0	27.2	27.2	96.9	96.9	7.6	7.6	5.8	7.6	4	77	81	81	822108	808823	<0.2	2.0	<0.2	1.7				
						1.0	0.3	184	19.2	8.0	8.0	27.2	27.2	96.8	96.9	7.6	7.6	5.8	7.6	5	77	81	81	81	81	<0.2	1.9	<0.2	1.8				
					Middle	3.8	0.3	148	19.0	7.9	7.9	28.3	28.3	96.3	96.3	7.6	7.6	7.5	7.5	6	81	82	82	82	82	<0.2	1.8	<0.2	1.8	<0.2	1.8		
						3.8	0.3	158	19.0	7.9	7.9	28.3	28.3	96.3	96.3	7.6	7.6	7.5	7.5	5	82	83	83	83	83	<0.2	1.8	<0.2	1.4	<0.2	1.2		
					Bottom	6.5	0.3	139	18.8	8.0	8.0	30.1	30.1	96.7	96.7	7.5	7.5	11.8	11.8	6	83	84	84	84	84	<0.2	1.5	<0.2	1.5	<0.2	1.4		
						6.5	0.3	148	18.8	8.0	8.0	30.1	30.1	96.7	96.7	7.5	7.5	11.8	11.8	5	84	84	84	84	84	<0.2	1.2	<0.2	1.2	<0.2	1.2		
IM10	Rainy	Rough	16:24	7.3	Surface	1.0	0.3	166	19.1	7.9	7.9	27.9	27.9	94.8	94.8	7.5	7.5	6.6	7.5	5	78	81	81	81	822257	809826	<0.2	1.7	<0.2	1.7			
						1.0	0.3	169	19.1	7.9	7.9	27.9	27.9	94.8	94.8	7.4	7.4	6.6	7.4	5	77	82	82	82	82	<0.2	1.7	<0.2	1.7				
					Middle	3.7	0.3	146	18.8	8.0	8.0	28.8	28.8	93.7	93.7	7.4	7.4	8.6	8.6	3	82	81	81	81	81	<0.2	1.8	<0.2	1.8	<0.2	1.5		
						3.7	0.3	159	18.8	8.0	8.0	28.8	28.8	93.7	93.7	7.4	7.4	8.7	8.7	4	81	83	83	83	83	<0.2	1.9	<0.2	2.2	<0.2	1.5		
					Bottom	6.3	0.3	146	18.8	8.0	8.0	29.1	29.1	93.8	93.8	7.4	7.4	12.5	12.5	4	83	84	84	84	84	<0.2	1.5	<0.2	1.5	<0.2	1.4		
						6.3	0.4	148	18.8	8.0	8.0	29.1	29.1	93.8	93.8	7.4	7.4	12.6	12.6	5	84	84	84	84	84	<0.2	1.4	<0.2	1.4	<0.2	1.4		
IM11	Rainy	Rough	16:34	8.4	Surface	1.0	0.3	142	19.1	7.9	7.9	28.2	28.2	96.1	96.1	7.5	7.5	6.1	7.5	4	78	81	81	81	821481	810558	<0.2	1.9	<0.2	1.9			
						1.0	0.3	149	19.1	7.9	7.9	28.2	28.2	96.1	96.1	7.5	7.5	6.1	7.5	4	77	82	82	82	82	<0.2	1.7	<0.2	1.7				
					Middle	4.2	0.4	128	19.0	7.9	7.9	28.4	28.4	95.5	95.5	7.5	7.5	6.7	6.7	6	81	82	82	82	82	<0.2	2.0	<0.2	2.0	<0.2	1.9		
						4.2	0.4	139	19.0	7.9	7.9	28.4	28.4	95.5	95.5	7.5	7.5	6.7	6.7	6	81	83	83	83	83	<0.2	2.2	<0.2	2.2	<0.2	1.9		
					Bottom	7.4	0.3	125	18.8	8.0	8.0	29.6	29.6	95.9	95.9	7.5	7.5	9.7	9.7	9	83	84	84	84	84	<0.2	1.9	<0.2	1.9	<0.2	1.7		
						7.4	0.3	131	18.8	8.0	8.0	29.6	29.6	96.0	96.0	7.5	7.5	9.7	9.7	8	84	84	84	84	84	<0.2	1.7	<0.2	1.7	<0.2	1.7		
IM12	Rainy	Moderate	16:44	8.8	Surface	1.0	0.3	131	19.0	7.9	7.9	28.5	28.5	95.2	95.2	7.5	7.5	7.1	7.5	7	78	81	81	81	821175	811520	<0.2	1.6	<0.2	1.6			
						1.0	0.3	138	19.0	7.9	7.9	28.5	28.5	95.2	95.2	7.5	7.5	7.0	7.5	7	79	82	82	82	82	<0.2	1.4	<0.2	1.4				
					Middle	4.4	0.4	111	18.9	8.0	8.0	28.8	28.8	94.0	94.0	7.4	7.4	11.0	11.0	11	82	81	81	81	81	<0.2	1.6	<0.2	1.6	<0.2	1.5		
						4.4	0.4	113	18.9	8.0	8.0	28.8	28.8	94.0	94.0	7.4	7.4	11.0	11.0	12	82	84	84	84	84	<0.2	1.5	<0.2	1.5	<0.2	1.5		
					Bottom	7.8	0.3	120	18.9	7.9	7.9	28.8	28.8	95.7	95.7	7.5	7.5	10.4	10.4	12	84	84	84	84	84	<0.2	1.7	<0.2	1.7	<0.2	1.5		
						7.8	0.4	121	18.9	7.9	7.9	28.8	28.8	95.8	95.8	7.5	7.5	10.4	10.4	12	84	84	84	84	84	<0.2	1.5	<0.2	1.5	<0.2	1.5		
SR2	Rainy	Moderate	17:11	5.3	Surface	1.0	0.2	116	18.9	7.9	7.9	28.9	28.9	94.7	94.7	7.4	7.4	6.7	7.4	7	81	80	80	80	821473	814151	<0.2	1.6	<0.2	1.6			
						1.0	0.2	123	18.9	7.9	7.9	28.9	28.9	94.7	94.7	7.4	7.4	6.7	7.4	8	80	81	81	81	81	<0.2	1.6	<0.2	1.6				
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.3	0.2	115	18.8	7.9	7.9	29.4	29.4	95.3	95.3	7.5	7.5	6.9	6.9	10	84	84	84	84	84	<0.2	1.2	<0.2	1.2	<0.2	1.2		
						4.3	0.3	117	18.8	7.9	7.9	29.4	29.4	95.3	95.3	7.5	7.5	6.9	6.9	12	84	84	84	84	84	<0.2	1.2	<0.2	1.2	<0.2	1.2		
SR3	Rainy	Rough	15:54	9.3	Surface	1.0	0.3	152	19.3	7.9	7.9	25.7	25.7	98.0	98.0	7.8	7.8	4.8	7.8	6	-	-	-	-	822157	807587	-	-	-	-			
						1.0	0.3	155	19.3	7.9	7.9	25.7	25.7	98.0	98.0	7.8	7.8	4.9	7.8	6	-	-	-	-	-	-	-	-	-	-			
					Middle	4.7	0.4	62	18.9	7.9	7.9	28.6	28.6	98.4	98.4	7.7	7.7	7.0	7.7	6	-	-	-	-	-	-	-	-	-	-	-		
						4.7	0.5	62	18.9	7.9	7.9	28.6	28.6	98.4	98.4	7.7	7.7	7.1	7.7	4	-	-	-	-	-	-	-	-	-	-			
					Bottom	8.3	0.3	101	18.8	7.9	7.9	30.2	30.2	98.1	98.1	7.6	7.6	8.0	7.6	7	-	-	-	-	-	-	-	-	-	-	-		
						8.3	0.3	108	18.8	7.9	7.9	30.2	30.2	98.1	98.1	7.6	7.6	8.0	7.6	9	-	-	-	-	-	-	-	-	-	-			
SR4A	Rainy	Moderate	17:04	9.3	Surface	1.0	0.3	139	16.0	7.8	7.8	33.5	33.5	98.0	98.0	7.9	7.9	5.4	7.9	7	-	-	-	-	817183	807813	-	-	-	-			
						1.0	0.3	152	16.0	7.8	7.8	33.5	33.5	98.0	98.0	7.9	7.9	5.4	7.9	8	-	-	-	-	-	-	-	-	-				
					Middle	4.7	0.3	113	15.8	7.8	7.8	33.8	33.8	97.5	97.5	7.9	7.9	6.0	7.9	10	-	-	-	-	-	-	-	-	-	-			
						4.7	0.3	118	15.8	7.8	7.8	33.8	33.8	97.5	97.5	7.9	7.9	6.0	7.9	10	-	-	-	-	-	-	-	-	-				
					Bottom	8.3	0.3	122	15.7	7.8	7.8	34.1	34.1	97.6	97.6	7.9	7.9	7.1	7.9	8	-	-	-	-	-	-	-	-	-	-			
						8.3	0.3	125	15.7	7.8	7.8	34.1	34.1	97.6	97.6	7.9	7.9	7.0	7.9	8	-	-	-	-	-	-	-	-	-				
SR5A	Rainy	Calm	17:20	4.0	Surface	1.0	0.2	240	16.2	7.7	7.7	32.6	32.6	95.9	95.9	7.7	7.7	7.9	7.7	8	-	-	-	-	816600	810712	-	-	-	-			
						1.0	0.2	249	16.2	7.7	7.7	32.6	32.6	95.9	95.9	7.7	7.7	8.0	7.7	9	-	-	-	-	-	-	-	-					
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
					Bottom	3.0	0.2	167	16.0	7.7	7.7	32.9	32.9	96.5	96.5	7.8	7.8	9.1	7.8	12	-	-	-	-	-	-	-	-	-				
						3.0	0.2	175	16.0	7.7	7.7	32.9	32.9	96.5	96.5	7.8	7.8	9.1	7.8	10	-	-	-	-	-	-	-	-					
SR6	Rainy	Calm	17:43	4.2	Surface	1.0	0.2	110	16.1	7.7	7.7	32.1	32.1	95.6	95.6	7.8	7.8																

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA					
C1	Sunny	Calm	06:23	8.2	Surface	1.0	0.3	205	17.1	17.1	7.7	7.7	27.1	27.1	100.7	100.7	8.2	8.1	2.5	3	79	81	81	81	81	815608	804264	<0.2	1.7	<0.2	1.5				
						1.0	0.3	223	17.1	17.1	7.7	7.7	27.1	27.1	100.7	100.7	8.3	8.1	2.5	4	80	81	81	81											
					Middle	4.1	0.3	171	16.6	16.6	7.7	7.7	31.6	31.6	98.2	98.2	7.9	7.9	3.4	6	81	81	81	81				81	81	<0.2	0.9	<0.2	0.7		
						4.1	0.3	177	16.6	16.6	7.7	7.7	31.6	31.6	98.2	98.2	7.9	7.9	3.4	5	81	81	81	81				81	81	<0.2	0.5	<0.2	0.5		
					Bottom	7.2	0.3	201	15.5	15.5	7.7	7.7	32.9	32.9	97.5	97.5	8.0	8.0	4.3	5	82	82	82	82				82	82	82	82	<0.2	1.0	<0.2	0.4
						7.2	0.3	205	15.5	15.5	7.7	7.7	32.9	32.9	97.5	97.5	8.0	8.0	4.3	5	82	82	82	82				82	82	82	82	<0.2	0.4	<0.2	0.4
C2	Sunny	Moderate	07:46	12.2	Surface	1.0	0.2	211	20.0	20.0	7.8	7.8	21.5	21.5	93.9	93.9	7.5	7.3	4.3	4	77	77	77	77	80	825674	806960	<0.2	4.4	<0.2	4.5				
						1.0	0.2	214	19.4	19.4	7.9	7.9	28.3	28.3	91.6	91.6	7.1	7.1	5.4	4	76	76	76	76											
					Middle	6.1	0.2	214	19.4	19.4	7.9	7.9	28.3	28.3	91.6	91.6	7.1	7.1	5.5	3	81	81	81	81				81	81	81	81	<0.2	4.9	<0.2	4.9
						6.1	0.2	226	19.4	19.4	7.9	7.9	29.2	29.2	89.8	89.8	7.0	7.0	7.5	3	81	81	81	81				81	81	81	81	<0.2	4.5	<0.2	4.5
					Bottom	11.2	0.2	229	19.0	19.0	7.9	7.9	29.2	29.2	89.9	89.9	7.0	7.0	7.5	4	83	83	83	83				83	83	83	83	<0.2	4.7	<0.2	4.7
						11.2	0.2	251	19.0	19.0	7.9	7.9	29.2	29.2	89.9	89.9	7.0	7.0	7.5	4	83	83	83	83				83	83	83	83	<0.2	4.7	<0.2	4.7
C3	Sunny	Moderate	05:31	12.3	Surface	1.0	0.2	125	20.1	20.1	7.9	7.9	26.2	26.2	96.7	96.7	7.5	7.4	3.5	4	79	79	79	79	82	822106	817811	<0.2	2.3	<0.2	2.4				
						1.0	0.2	125	20.1	20.1	7.9	7.9	26.2	26.2	96.6	96.6	7.5	7.4	3.5	3	79	79	79	79											
					Middle	6.2	0.2	120	19.2	19.2	7.9	7.9	29.2	29.2	93.7	93.7	7.3	7.3	3.4	4	82	82	82	82				82	82	82	82	<0.2	2.0	<0.2	1.9
						6.2	0.2	130	19.2	19.2	7.9	7.9	29.2	29.2	93.6	93.6	7.3	7.3	3.4	3	81	81	81	81				81	81	81	81	<0.2	2.0	<0.2	1.9
					Bottom	11.3	0.2	149	19.0	19.0	7.9	7.9	30.0	30.0	94.0	94.0	7.3	7.3	3.7	4	84	84	84	84				84	84	84	84	<0.2	1.9	<0.2	1.9
						11.3	0.2	151	19.0	19.0	7.9	7.9	30.0	30.0	94.0	94.0	7.3	7.3	3.7	5	84	84	84	84				84	84	84	84	<0.2	1.9	<0.2	1.9
IM1	Sunny	Calm	06:44	7.5	Surface	1.0	0.2	184	17.0	17.0	7.7	7.7	27.2	27.2	100.1	100.1	8.2	8.2	2.2	3	79	79	79	79	81	818346	806441	<0.2	3.0	<0.2	3.1				
						1.0	0.3	184	17.0	17.0	7.7	7.7	27.2	27.2	100.1	100.1	8.2	8.2	2.2	4	79	79	79	79											
					Middle	3.8	0.3	191	16.6	16.6	7.7	7.7	29.6	29.6	99.8	99.8	8.1	8.1	2.7	4	81	81	81	81				81	81	81	81	<0.2	1.6	<0.2	1.8
						3.8	0.3	207	16.6	16.6	7.7	7.7	29.6	29.6	99.8	99.8	8.1	8.1	2.7	6	81	81	81	81				81	81	81	81	<0.2	1.6	<0.2	1.8
					Bottom	6.5	0.2	161	15.9	15.9	7.7	7.7	32.4	32.4	98.3	98.3	8.0	8.0	5.2	5	82	82	82	82				82	82	82	82	<0.2	1.0	<0.2	1.0
						6.5	0.3	164	15.9	15.9	7.7	7.7	32.4	32.4	98.3	98.3	8.0	8.0	5.2	6	82	82	82	82				82	82	82	82	<0.2	1.0	<0.2	1.0
IM2	Sunny	Moderate	06:50	8.3	Surface	1.0	0.3	193	17.7	17.7	7.6	7.6	22.4	22.4	98.9	99.0	8.2	8.2	2.5	3	81	81	81	81	82	818848	806198	<0.2	3.3	<0.2	3.3				
						1.0	0.3	200	17.7	17.7	7.6	7.6	22.4	22.4	99.0	99.0	8.2	8.2	2.5	3	80	80	80	80											
					Middle	4.2	0.3	200	16.1	16.1	7.7	7.7	30.2	30.2	98.7	98.7	8.1	8.1	2.8	5	81	81	81	81				81	81	81	81	<0.2	1.2	<0.2	1.2
						4.2	0.3	201	16.1	16.1	7.7	7.7	30.2	30.2	98.7	98.7	8.1	8.1	2.8	5	81	81	81	81				81	81	81	81	<0.2	1.2	<0.2	1.2
					Bottom	7.3	0.3	182	15.7	15.7	7.7	7.7	32.7	32.7	97.8	97.8	8.0	8.0	4.6	6	83	83	83	83				83	83	83	83	<0.2	0.9	<0.2	0.9
						7.3	0.4	192	15.7	15.7	7.7	7.7	32.7	32.7	97.8	97.8	8.0	8.0	4.6	6	82	82	82	82				82	82	82	82	<0.2	1.0	<0.2	1.0
IM3	Sunny	Moderate	06:57	8.4	Surface	1.0	0.4	214	17.3	17.3	7.6	7.6	20.1	20.1	98.1	98.1	8.4	8.3	2.9	5	80	80	80	80	82	819415	805999	<0.2	1.0	<0.2	0.9				
						1.0	0.4	226	17.3	17.3	7.6	7.6	20.1	20.1	98.1	98.1	8.4	8.3	2.9	4	81	81	81	81											
					Middle	4.2	0.3	182	16.0	16.0	7.7	7.7	29.3	29.3	98.1	98.1	8.1	8.1	4.5	7	82	82	82	82				82	82	82	82	<0.2	1.8	<0.2	1.8
						4.2	0.3	199	16.0	16.0	7.7	7.7	29.3	29.3	98.1	98.1	8.1	8.1	4.5	8	82	82	82	82				82	82	82	82	<0.2	1.8	<0.2	1.8
					Bottom	7.4	0.3	164	15.6	15.6	7.7	7.7	32.9	32.9	97.1	97.1	7.9	7.9	5.7	10	83	83	83	83				83	83	83	83	<0.2	1.5	<0.2	1.5
						7.4	0.3	170	15.6	15.6	7.7	7.7	32.9	32.9	97.1	97.1	7.9	7.9	5.7	10	82	82	82	82				82	82	82	82	<0.2	1.4	<0.2	1.4
IM4	Sunny	Moderate	07:04	7.8	Surface	1.0	0.3	204	16.9	16.9	7.7	7.7	21.0	21.0	98.1	98.1	8.4	8.2	3.1	4	80	80	80	80	82	819589	805042	<0.2	1.4	<0.2	1.6				
						1.0	0.3	204	16.9	16.9	7.7	7.7	21.0	21.0	98.1	98.1	8.4	8.2	3.1	3	80	80	80	80											
					Middle	3.9	0.3	185	16.0	16.0	7.7	7.7	29.5	29.5	97.4	97.4	8.0	8.0	3.7	4	83	83	83	83				83	83	83	83	<0.2	2.7	<0.2	2.8
						3.9	0.3	187	16.0	16.0	7.7	7.7	29.5	29.5	97.4	97.4	8.0	8.0	3.7	4	83	83	83	83				83	83	83	83	<0.2	2.8	<0.2	2.8
					Bottom	6.8	0.3	157	15.6	15.6	7.7	7.7	32.9	32.9	96.1	96.1	7.8	7.8	3.5	7	84	84	84	84				84	84	84	84	<0.2	1.3	<0.2	1.3
						6.8	0.3	169	15.6	15.6	7.7	7.7	32.9	32.9	96.1	96.1	7.8	7.8	3.5	6	84	84	84	84				84	84	84	84	<0.2	1.4	<0.2	1.4
IM5	Sunny	Moderate	07:13	6.9	Surface	1.0	0.3	210	17.0	17.0	7.6	7.6	17.0	17.0	95.6	95.6	8.4	8.2	2.9	4	80	80	80	80	81	820570	804930	<0.2	4.3	<0.2	4.5				
						1.0	0.3	230	17.0	17.0	7.6	7.6	17.0	17.0	95.6	95.6	8.4	8.2	2.9	3	79	79	79	79											
					Middle	3.5	0.3	189	16.3	16.3	7.7	7.7	28.6	28.6	96.3	96.3	7.9	7.9	4.3	4	81	81	81	81				81	81	81	81	<0.2	2.6	<0.2	2.6
						3.5	0.3	201	16.3	16.3	7.7	7.7	28.6	28.6	96.3	96.3	7.9	7.9	4.3	3	82	82	82	82				82	82	82	82	<0.2	2.6	<0.2	2.6
					Bottom	5.9	0.3	189	15.6	15.6	7.7	7.7	32.3																						

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA					
IM9	Sunny	Moderate	06:47	8.3	Surface	1.0	0.2	201	20.1	20.1	7.8	7.8	21.4	21.4	93.2	93.3	7.5	7.5	4.0	4.0	3	3	77	77	822100	808818	<0.2	<0.2	2.4	2.4					
						1.0	0.3	205	20.1	20.1	7.8	7.8	21.4	21.4	93.3	93.3	7.5	7.5	4.1	4.1	3	3	77	77					2.6	2.6					
					Middle	4.2	0.2	191	19.8	19.8	7.9	7.9	25.5	25.5	95.5	95.6	7.5	7.5	4.4	4.4	3	3	81	81					2.4	2.4					
						4.2	0.2	201	19.8	19.8	7.9	7.9	25.5	25.5	95.6	95.6	7.5	7.5	4.4	4.4	3	3	81	81					2.4	2.4					
					Bottom	7.3	0.2	175	19.3	19.3	8.0	8.0	28.0	28.0	95.1	95.1	7.4	7.4	5.3	5.3	3	3	83	83					1.9	1.9					
						7.3	0.2	178	19.3	19.3	8.0	8.0	28.0	28.0	95.1	95.1	7.4	7.4	5.3	5.3	3	3	84	84					1.7	1.7					
IM10	Sunny	Moderate	06:33	7.8	Surface	1.0	0.3	170	20.3	20.3	7.8	7.8	23.4	23.4	94.4	94.4	7.4	7.4	4.2	4.2	2	2	77	77	822223	809822	<0.2	<0.2	2.0	2.0					
						1.0	0.3	173	20.3	20.3	7.8	7.8	23.3	23.4	94.4	94.4	7.5	7.4	4.2	4.2	2	2	77	77					1.8	1.8					
					Middle	3.9	0.3	131	19.6	19.6	7.9	7.9	26.4	26.4	93.7	93.7	7.4	7.4	4.6	4.6	2	2	81	81					1.8	1.8					
						3.9	0.3	133	19.6	19.6	7.9	7.9	26.4	26.4	93.7	93.7	7.4	7.4	4.6	4.6	3	3	82	82					1.7	1.7					
					Bottom	6.8	0.2	157	19.3	19.3	8.0	8.0	28.4	28.4	94.0	94.0	7.3	7.3	8.7	8.7	4	4	84	84					1.6	1.6					
						6.8	0.3	164	19.3	19.3	8.0	8.0	28.4	28.4	94.0	94.0	7.3	7.3	8.7	8.7	4	4	84	84					1.6	1.6					
IM11	Sunny	Moderate	06:19	9.4	Surface	1.0	0.3	167	20.2	20.2	7.9	7.9	21.9	21.9	94.6	94.6	7.5	7.5	4.8	4.8	2	2	78	78	821506	810562	<0.2	<0.2	2.1	2.1					
						1.0	0.3	174	20.1	20.1	7.9	7.9	21.9	21.9	94.6	94.6	7.5	7.5	4.8	4.8	2	2	79	79					2.2	2.2					
					Middle	4.7	0.3	130	19.6	19.6	8.0	8.0	26.7	26.7	93.3	93.3	7.3	7.3	5.4	5.4	4	4	82	82					2.1	2.1					
						4.7	0.3	136	19.6	19.6	8.0	8.0	26.7	26.7	93.3	93.3	7.3	7.3	5.4	5.4	2	2	83	83					1.9	1.9					
					Bottom	8.4	0.2	208	19.3	19.3	7.9	7.9	29.0	29.0	92.8	92.8	7.2	7.2	6.1	6.1	3	3	84	84					1.6	1.6					
						8.4	0.2	208	19.3	19.3	7.9	7.9	29.0	29.0	92.8	92.8	7.2	7.2	6.1	6.1	4	4	84	84					1.5	1.5					
IM12	Sunny	Moderate	06:11	8.9	Surface	1.0	0.3	135	20.5	20.5	7.8	7.8	21.1	21.1	94.6	94.6	7.5	7.5	4.4	4.4	2	2	78	78	821149	811536	<0.2	<0.2	1.3	1.3					
						1.0	0.3	139	20.5	20.5	7.8	7.8	21.1	21.1	94.6	94.6	7.5	7.5	4.4	4.4	4	4	77	77					1.2	1.2					
					Middle	4.5	0.3	142	19.9	19.9	7.9	7.9	25.2	25.2	94.4	94.4	7.4	7.4	4.7	4.7	4	4	83	83					1.4	1.4					
						4.5	0.3	153	19.9	19.9	7.9	7.9	25.2	25.2	94.4	94.4	7.4	7.4	4.7	4.7	4	4	84	84					1.2	1.2					
					Bottom	7.9	0.2	170	19.9	19.9	7.9	7.9	26.1	26.1	95.2	95.2	7.4	7.4	5.3	5.3	3	3	85	85					0.8	0.8					
						7.9	0.2	185	19.9	19.9	7.9	7.9	26.1	26.1	95.2	95.2	7.4	7.4	5.3	5.3	4	4	84	84					1.0	1.0					
SR2	Sunny	Moderate	05:47	3.9	Surface	1.0	0.2	120	20.5	20.5	7.9	7.9	22.5	22.5	96.5	96.5	7.6	7.6	4.3	4.3	2	2	78	78	821468	814158	<0.2	<0.2	1.0	1.0					
						1.0	0.2	120	20.5	20.5	7.9	7.9	22.5	22.5	96.5	96.5	7.6	7.6	4.3	4.3	4	4	77	77					0.8	0.8					
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-
					Bottom	2.9	0.2	114	20.2	20.2	7.9	7.9	24.9	24.9	96.1	96.1	7.5	7.5	4.3	4.3	3	3	84	84					1.2	1.2					
						2.9	0.2	114	20.2	20.2	7.9	7.9	24.9	24.9	96.1	96.1	7.5	7.5	4.3	4.3	4	4	84	84					1.2	1.2					
SR3	Sunny	Moderate	07:19	9.9	Surface	1.0	0.3	190	19.8	19.8	7.8	7.8	22.2	22.2	90.7	90.7	7.3	7.3	4.1	4.1	3	3	-	-	822158	807559	-	-	-	-					
						1.0	0.3	201	19.8	19.8	7.8	7.8	22.2	22.2	90.7	90.7	7.3	7.3	4.1	4.1	5	5	-	-					-	-					
					Middle	5.0	0.2	192	19.3	19.3	7.9	7.9	27.8	27.8	92.0	92.0	7.2	7.2	4.3	4.3	4	4	-	-					-	-					
						5.0	0.3	199	19.3	19.3	7.9	7.9	27.8	27.8	92.0	92.0	7.2	7.2	4.2	4.2	3	3	-	-					-	-					
					Bottom	8.9	0.2	177	18.9	18.9	7.9	7.9	29.2	29.2	90.2	90.2	7.0	7.0	5.2	5.2	4	4	-	-					-	-					
						8.9	0.3	182	18.9	18.9	7.9	7.9	29.2	29.2	90.2	90.2	7.0	7.0	5.2	5.2	5	5	-	-					-	-					
SR4A	Sunny	Calm	06:00	8.5	Surface	1.0	0.3	120	17.3	17.3	7.7	7.7	27.9	27.9	99.4	99.4	8.1	8.1	3.5	3.5	5	5	-	-	817181	807812	-	-	-	-					
						1.0	0.3	126	17.3	17.3	7.7	7.7	27.9	27.9	99.4	99.4	8.1	8.1	3.6	3.6	4	4	-	-											
					Middle	4.3	0.3	116	16.9	16.9	7.8	7.8	30.7	30.7	97.8	97.8	7.9	7.9	6.2	6.2	4	4	-	-					-	-					
						4.3	0.3	122	16.9	16.9	7.8	7.8	30.7	30.7	97.8	97.8	7.9	7.9	6.2	6.2	4	4	-	-					-	-					
					Bottom	7.5	0.3	142	16.9	16.9	7.8	7.8	31.0	31.0	97.3	97.3	7.8	7.8	9.3	9.3	10	10	-	-					-	-					
						7.5	0.3	150	16.9	16.9	7.8	7.8	31.0	31.0	97.3	97.3	7.8	7.8	9.2	9.2	12	12	-	-					-	-					
SR5A	Sunny	Calm	05:41	4.4	Surface	1.0	0.1	115	17.0	17.0	7.6	7.6	29.5	29.5	97.6	97.6	7.9	7.9	7.2	7.2	8	8	-	-	816583	810694	-	-	-	-					
						1.0	0.1	119	17.0	17.0	7.6	7.6	29.5	29.5	97.6	97.6	7.9	7.9	7.2	7.2	7	7	-	-											
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-		
					Bottom	3.4	0.1	150	16.9	16.9	7.6	7.6	30.0	30.0	97.7	97.7	7.9	7.9	17.1	17.1	17	17	-	-					-	-					
						3.4	0.1	154	16.9	16.9	7.6	7.6	30.0	30.0	97.7	97.7	7.9	7.9	17.1	17.1	19	19	-	-					-	-					
SR6	Sunny	Calm	05:15	4.5	Surface	1.0	0.1	175	17.0	17.0	7.6	7.6	28.2	28.2	95.4	95.4	7.8	7.8	8.9	8.9	16	16	-	-	817911	814665	-	-	-	-					
						1.0	0.1	182	17.0	17.0	7.6	7.6	28.2	28.2	95.4	95.4	7.8	7.8	8.9	8.9	15	15	-	-											
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-		
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-			
					Bottom	3.5	0.1	165	16.8	16.8	7.6	7.6	28.8	28.8	96.3	96.3	7.9	7.9	16.8	16.8	22	22	-	-					-	-					
						3.5	0.2	169	16.8	16.8	7.6	7.6	28.8	28.8	96.7	96.7	7.9	7.9	16.9	16.9	20	20	-	-					-	-					
SR7	Sunny	Moderate	05:10	16.7	Surface	1.0	0.2	178	19.3	19.3	7.9	7.9	29.5	29.5	94.4	94.4	7.3	7.3	3.1	3.1	5	5	-	-	823647	823752	-	-	-	-					
						1.0	0.2	186																											

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
C1	Sunny	Calm	19:47	9.0	Surface	1.0	0.4	111	17.9	17.9	7.7	7.7	25.7	25.7	103.2	103.2	8.4	8.4	3.5	3.5	3	3	82	82	83	815635	804249	<0.2	<0.2	3.7	3.7
						1.0	0.4	120	17.9	7.7	7.7	25.7	25.7	103.2	103.2	8.4	8.4	3.5	3.5	3	3	81	81								
					Middle	4.5	0.3	177	15.4	15.4	7.8	7.8	34.1	34.1	98.3	98.3	8.0	8.0	4.0	4.0	3	3	83	83							
						4.5	0.3	178	15.4	15.4	7.8	7.8	34.1	34.1	98.3	98.3	8.0	8.0	4.0	4.0	3	3	83	83							
					Bottom	8.0	0.4	148	15.1	15.1	7.8	7.8	34.5	34.5	96.5	96.5	7.9	7.9	8.8	8.8	12	12	83	83							
						8.0	0.4	156	15.1	15.1	7.8	7.8	34.5	34.5	96.5	96.5	7.9	7.9	8.8	8.8	12	12	84	84							
C2	Sunny	Moderate	18:26	12.4	Surface	1.0	0.2	239	20.0	20.0	7.8	7.8	21.5	21.5	93.9	93.9	7.5	7.5	4.3	4.3	4	4	76	76	81	825682	806959	<0.2	<0.2	4.5	4.5
						1.0	0.3	258	20.0	20.0	7.8	7.8	21.5	21.5	93.9	93.9	7.5	7.5	4.3	4.3	3	3	77	77							
					Middle	6.2	0.4	283	19.4	19.4	7.9	7.9	28.3	28.3	91.6	91.6	7.1	7.1	5.4	5.4	3	3	81	81							
						6.2	0.4	307	19.4	19.4	7.9	7.9	28.3	28.3	91.6	91.6	7.1	7.1	5.5	5.5	3	3	82	82							
					Bottom	11.4	0.3	243	19.0	19.0	7.9	7.9	29.2	29.2	89.8	89.8	7.0	7.0	7.5	7.5	4	4	84	84							
						11.4	0.3	246	19.0	19.0	7.9	7.9	29.2	29.2	89.9	89.9	7.0	7.0	7.5	7.5	3	3	84	84							
C3	Sunny	Moderate	20:19	12.6	Surface	1.0	0.2	170	19.9	19.9	8.0	8.0	27.9	27.9	96.0	96.0	7.4	7.4	3.1	3.1	<2	<2	79	79	82	822089	817811	<0.2	<0.2	2.7	2.7
						1.0	0.3	178	19.9	19.9	8.0	8.0	27.9	27.9	95.9	95.9	7.4	7.4	3.1	3.1	<2	<2	79	79							
					Middle	6.3	0.3	255	18.9	18.9	7.9	7.9	30.4	30.4	91.6	91.6	7.1	7.1	3.3	3.3	2	2	82	82							
						6.3	0.3	279	18.9	18.9	7.9	7.9	30.4	30.4	91.6	91.6	7.1	7.1	3.3	3.3	2	2	82	82							
					Bottom	11.6	0.2	233	18.7	18.7	7.9	7.9	30.7	30.7	91.9	91.9	7.1	7.1	3.4	3.4	3	3	84	84							
						11.6	0.2	249	18.7	18.7	7.9	7.9	30.7	30.7	91.9	91.9	7.1	7.1	3.4	3.4	2	2	84	84							
IM1	Sunny	Moderate	19:27	7.9	Surface	1.0	0.4	191	17.7	17.7	7.7	7.7	25.5	25.5	104.0	104.1	8.5	8.5	2.6	2.6	4	4	81	81	82	818365	806448	<0.2	<0.2	3.1	3.1
						1.0	0.4	203	17.7	17.7	7.7	7.7	25.5	25.5	104.1	104.1	8.5	8.5	2.6	2.6	4	4	80	80							
					Middle	4.0	0.3	181	16.5	16.5	7.8	7.8	31.2	31.2	101.3	101.3	8.2	8.2	4.9	4.9	3	3	82	82							
						4.0	0.3	198	16.5	16.5	7.8	7.8	31.2	31.2	101.3	101.3	8.2	8.2	4.9	4.9	3	3	82	82							
					Bottom	6.9	0.3	124	15.9	15.9	7.8	7.8	33.0	33.0	99.8	99.8	8.1	8.1	6.7	6.7	7	7	83	83							
						6.9	0.3	128	15.9	15.9	7.8	7.8	33.0	33.0	99.8	99.8	8.1	8.1	6.7	6.7	8	8	84	84							
IM2	Sunny	Moderate	19:21	8.6	Surface	1.0	0.3	183	17.4	17.4	7.8	7.8	27.1	27.1	102.9	102.9	8.4	8.4	2.7	2.7	3	3	79	79	82	818836	806184	<0.2	<0.2	2.6	2.6
						1.0	0.4	192	17.4	17.4	7.8	7.8	27.1	27.1	102.9	102.9	8.4	8.4	2.7	2.7	3	3	80	80							
					Middle	4.3	0.4	161	16.7	16.7	7.8	7.8	30.3	30.3	100.3	100.3	8.1	8.1	4.7	4.7	4	4	83	83							
						4.3	0.5	174	16.7	16.7	7.8	7.8	30.3	30.3	100.3	100.3	8.1	8.1	4.7	4.7	5	5	83	83							
					Bottom	7.6	0.4	126	15.9	15.9	7.8	7.8	33.1	33.1	97.7	97.7	7.9	7.9	7.4	7.4	5	5	84	84							
						7.6	0.4	127	15.9	15.9	7.8	7.8	33.1	33.1	97.7	97.7	7.9	7.9	7.4	7.4	4	4	84	84							
IM3	Sunny	Moderate	19:14	8.6	Surface	1.0	0.4	198	18.3	18.3	7.7	7.7	19.5	19.5	101.9	101.9	8.5	8.5	2.8	2.8	4	4	80	80	81	819407	806013	<0.2	<0.2	3.8	3.8
						1.0	0.4	210	18.3	18.3	7.7	7.7	19.5	19.5	101.9	101.9	8.5	8.5	2.8	2.8	3	3	80	80							
					Middle	4.3	0.4	116	16.2	16.2	7.8	7.8	30.4	30.4	99.8	99.8	8.2	8.2	3.9	3.9	3	3	82	82							
						4.3	0.4	124	16.2	16.2	7.8	7.8	30.4	30.4	99.8	99.8	8.2	8.2	3.9	3.9	4	4	81	81							
					Bottom	7.6	0.3	98	15.7	15.7	7.8	7.8	33.3	33.3	97.9	97.9	7.9	7.9	6.2	6.2	7	7	82	82							
						7.6	0.3	104	15.7	15.7	7.8	7.8	33.3	33.3	97.9	97.9	7.9	7.9	6.2	6.2	9	9	83	83							
IM4	Sunny	Moderate	19:03	8.3	Surface	1.0	0.4	167	17.8	17.8	7.7	7.7	19.4	19.4	99.3	99.3	8.4	8.4	3.4	3.4	5	5	81	81	82	819574	805049	<0.2	<0.2	3.8	3.8
						1.0	0.4	167	17.8	17.8	7.7	7.7	19.4	19.4	99.3	99.3	8.4	8.4	3.4	3.4	3	3	80	80							
					Middle	4.2	0.4	121	15.8	15.8	7.8	7.8	31.3	31.3	98.3	98.3	8.1	8.1	4.6	4.6	7	7	82	82							
						4.2	0.4	129	15.8	15.8	7.8	7.8	31.3	31.3	98.3	98.3	8.1	8.1	4.6	4.6	5	5	82	82							
					Bottom	7.3	0.5	143	15.6	15.6	7.8	7.8	33.4	33.4	96.7	96.7	7.9	7.9	9.0	9.0	4	4	83	83							
						7.3	0.5	152	15.6	15.6	7.8	7.8	33.4	33.4	96.7	96.7	7.9	7.9	9.0	9.0	5	5	83	83							
IM5	Sunny	Moderate	18:47	6.7	Surface	1.0	0.3	211	17.4	17.4	7.7	7.7	20.9	20.9	97.8	97.8	8.3	8.3	3.3	3.3	4	4	79	79	82	820556	804924	<0.2	<0.2	4.1	4.1
						1.0	0.3	224	17.4	17.4	7.7	7.7	20.9	20.9	97.8	97.8	8.3	8.3	3.3	3.3	4	4	80	80							
					Middle	3.4	0.3	160	15.9	15.9	7.8	7.8	30.3	30.3	96.8	96.8	8.0	8.0	4.8	4.8	4	4	82	82							
						3.4	0.4	161	15.9	15.9	7.8	7.8	30.3	30.3	96.8	96.8	8.0	8.0	4.8	4.8	4	4	81	81							
					Bottom	5.7	0.3	152	15.5	15.5	7.8	7.8	33.3	33.3	95.6	95.6	7.8	7.8	11.2	11.2	8	8	84	84							
						5.7	0.3	162	15.5	15.5	7.8	7.8	33.3	33.3	95.6	95.6	7.8	7.8	11.2	11.2	6	6	83	83							
IM6	Sunny	Moderate	18:39	7.1	Surface	1.0	0.5	225	17.2	17.2	7.6	7.6	21.8	21.8	98.0	98.0	8.3	8.3	2.7	2.7	3	3	82	82	82	821059	805814	<0.2	<0.2	3.3	3.3
						1.0	0.5	244	17.2	17.2	7.6	7.6	21.8	21.8	98.0	98.0	8.3	8.3	2.7	2.7	3	3	81	81							
					Middle	3.6	0.4	196	16.5	16.5	7.7	7.7	25.7	25.7	97.8	97.8	8.2	8.2	3.5	3.5	4	4	82	82							
						3.6	0.5	212	16.4	16.4	7.8	7.8	25.8	25.8	97.7	97.7	8.2	8.2	3.6	3.6	4	4	82	82							
					Bottom	6.1	0.4	126	15.6	15.6	7.8	7.8	32.9	32.9	95.6	95.6	7.8	7.8	5.1	5.1	8	8	83	83							
						6.1	0.5	137	15.6	15.6	7.8	7.8	32.9	32.9	95.6	95.6	7.8	7.8	5.1	5.1	8	8	84	84							
IM7	Sunny	Moderate	18:32	8.5	Surface	1.0	0.5	166	17.7	17.7	7.7	7.7	21.8	21.8	97.9	97.9	8.2	8.2	3.2	3.2	5	5	83	83	84	821366	806816	<0.2	<0.2	3.8	3.8
						1.0	0.5	166	17.7	17.7	7.7	7.7	21.8	21.8	97.9	97.9	8.2	8.2	3.2	3.2	4	4	82	82							
					Middle	4.3	0.4	157	16.1	16.1																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
IM9	Sunny	Moderate	19:05	8.4	Surface	1.0	0.3	211	20.3	20.3	7.9	7.9	21.0	21.0	96.8	96.8	7.7	7.6	4.6	6.2	3	3	79	82	822088	808807	<0.2	<0.2	3.5	3.6			
						1.0	0.3	224	20.3	20.3	7.9	7.9	21.0	21.0	96.8	96.8	7.7	7.6	4.6	6.2	4	3	80	82	822088	808807	<0.2	<0.2	3.5	3.6			
					Middle	4.2	0.3	175	19.7	19.7	7.9	7.9	26.0	26.0	96.2	96.2	7.5	7.4	5.1	6.2	2	3	83	83	822088	808807	<0.2	<0.2	3.5	3.6			
						4.2	0.3	192	19.7	19.7	7.9	7.9	26.0	26.0	96.2	96.2	7.5	7.4	5.1	6.2	3	3	83	83	822088	808807	<0.2	<0.2	3.5	3.6			
					Bottom	7.4	0.3	140	19.1	19.1	8.0	8.0	29.4	29.4	95.3	95.3	7.4	7.4	8.9	7.4	4	3	84	84	822088	808807	<0.2	<0.2	3.8	3.6			
						7.4	0.3	145	19.1	19.1	8.0	8.0	29.4	29.4	95.3	95.3	7.4	7.4	8.9	7.4	3	3	84	84	822088	808807	<0.2	<0.2	3.9	3.6			
IM10	Sunny	Moderate	19:12	8.0	Surface	1.0	0.3	229	21.1	21.1	7.9	7.9	21.6	21.6	96.6	96.6	7.6	7.7	15.6	16.4	3	3	77	81	822254	809852	<0.2	<0.2	2.9	2.9			
						1.0	0.3	231	21.1	21.1	7.9	7.9	21.6	21.6	96.6	96.6	7.6	7.7	15.6	16.4	3	3	78	81	822254	809852	<0.2	<0.2	2.9	2.9			
					Middle	4.0	0.3	250	20.1	20.1	7.9	7.9	26.5	26.5	100.8	100.8	7.8	7.8	18.5	16.4	4	3	82	82	822254	809852	<0.2	<0.2	2.8	2.9			
						4.0	0.4	252	20.1	20.1	7.9	7.9	26.5	26.5	100.8	100.8	7.8	7.8	18.5	16.4	4	3	82	82	822254	809852	<0.2	<0.2	3.0	2.9			
					Bottom	7.0	0.3	229	19.6	19.6	8.0	8.0	28.4	28.4	96.2	96.2	7.5	7.5	15.1	7.5	3	3	84	84	822254	809852	<0.2	<0.2	2.8	2.9			
						7.0	0.3	232	19.6	19.6	8.0	8.0	28.4	28.4	96.2	96.2	7.5	7.5	15.1	7.5	3	3	84	84	822254	809852	<0.2	<0.2	3.0	2.9			
IM11	Sunny	Moderate	19:18	8.8	Surface	1.0	0.3	211	20.8	20.8	7.9	7.9	23.5	23.5	97.0	97.0	7.6	7.5	4.6	6.3	4	4	78	81	821519	810553	<0.2	<0.2	2.3	2.5			
						1.0	0.3	231	20.8	20.8	7.9	7.9	23.5	23.5	97.0	97.0	7.6	7.5	4.6	6.3	5	4	78	81	821519	810553	<0.2	<0.2	2.3	2.5			
					Middle	4.4	0.3	255	19.6	19.6	7.9	7.9	28.1	28.1	94.7	94.7	7.4	7.4	5.4	7.1	4	4	81	81	821519	810553	<0.2	<0.2	2.9	2.5			
						4.4	0.4	279	19.6	19.6	7.9	7.9	28.1	28.1	94.7	94.7	7.4	7.4	5.4	7.1	3	4	82	81	821519	810553	<0.2	<0.2	2.9	2.5			
					Bottom	7.8	0.3	230	19.1	19.1	7.9	7.9	29.2	29.2	91.7	91.7	7.1	7.1	8.9	7.1	4	4	84	81	821519	810553	<0.2	<0.2	2.4	2.5			
						7.8	0.3	247	19.1	19.1	7.9	7.9	29.2	29.2	91.7	91.7	7.1	7.1	8.9	7.1	5	4	85	81	821519	810553	<0.2	<0.2	2.2	2.5			
IM12	Sunny	Moderate	19:31	7.3	Surface	1.0	0.3	205	20.9	20.9	7.9	7.9	23.8	23.8	97.9	97.9	7.6	7.4	4.8	6.0	4	4	78	81	821143	811530	<0.2	<0.2	2.1	2.3			
						1.0	0.3	216	20.9	20.9	7.9	7.9	23.8	23.8	97.9	97.9	7.6	7.4	4.8	6.0	5	4	78	81	821143	811530	<0.2	<0.2	2.1	2.3			
					Middle	3.7	0.4	254	19.4	19.4	7.9	7.9	28.8	28.8	93.1	93.1	7.2	7.2	5.2	7.1	4	4	82	81	821143	811530	<0.2	<0.2	2.4	2.3			
						3.7	0.4	270	19.4	19.4	7.9	7.9	28.8	28.8	93.1	93.1	7.2	7.2	5.2	7.1	5	4	82	81	821143	811530	<0.2	<0.2	2.5	2.3			
					Bottom	6.3	0.3	225	19.0	19.0	7.9	7.9	29.4	29.4	91.3	91.3	7.1	7.1	8.0	7.1	3	4	84	81	821143	811530	<0.2	<0.2	2.3	2.3			
						6.3	0.3	246	19.0	19.0	7.9	7.9	29.4	29.4	91.3	91.3	7.1	7.1	8.0	7.1	4	4	84	81	821143	811530	<0.2	<0.2	2.4	2.3			
SR2	Sunny	Moderate	19:55	4.6	Surface	1.0	0.3	190	20.7	20.7	7.9	7.9	25.3	25.3	98.1	98.2	7.6	7.6	5.9	5.8	3	3	79	82	821455	814180	<0.2	<0.2	2.1	2.2			
						1.0	0.3	200	20.7	20.7	7.9	7.9	25.3	25.3	98.2	98.2	7.6	7.6	5.9	5.8	3	3	79	82	821455	814180	<0.2	<0.2	2.2	2.2			
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	82	814180	-	-	-	-	-
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	814180	-	-	-	-	-
					Bottom	3.6	0.3	160	20.0	20.0	7.9	7.9	26.8	26.8	96.8	96.8	7.5	7.5	5.7	7.5	3	3	84	-	-	-	82	814180	-	-	1.8	1.8	
						3.6	0.3	173	20.0	20.0	7.9	7.9	26.8	26.8	96.8	96.8	7.5	7.5	5.7	7.5	3	3	84	-	-	-	82	814180	-	-	1.8	1.8	
SR3	Sunny	Moderate	18:50	9.3	Surface	1.0	0.3	232	19.9	19.9	7.9	7.9	22.3	22.3	94.1	94.2	7.5	7.4	4.3	5.0	5	4	-	-	-	822144	807556	-	-	-	-		
						1.0	0.3	234	19.9	19.9	7.9	7.9	22.3	22.3	94.2	94.2	7.5	7.4	4.4	5.0	5	4	-	-	-	-	822144	807556	-	-	-	-	
					Middle	4.7	0.3	162	19.5	19.5	7.9	7.9	28.4	28.4	92.4	92.4	7.2	7.2	4.7	7.0	3	4	-	-	-	-	822144	807556	-	-	-	-	
						4.7	0.3	164	19.5	19.5	7.9	7.9	28.4	28.4	92.4	92.4	7.2	7.2	4.7	7.0	4	4	-	-	-	-	822144	807556	-	-	-	-	
					Bottom	8.3	0.4	123	19.0	19.0	7.9	7.9	29.2	29.2	90.1	90.1	7.0	7.0	5.9	7.0	4	4	-	-	-	-	822144	807556	-	-	-	-	
						8.3	0.4	127	19.0	19.0	7.9	7.9	29.2	29.2	90.1	90.1	7.0	7.0	5.9	7.0	3	4	-	-	-	-	822144	807556	-	-	-	-	
SR4A	Sunny	Calm	20:08	8.7	Surface	1.0	0.3	148	18.3	18.3	7.7	7.7	27.6	27.6	103.5	103.5	8.3	8.1	3.4	5.1	4	6	-	-	-	817175	807791	-	-	-	-		
						1.0	0.3	149	18.3	18.3	7.7	7.7	27.6	27.6	103.5	103.5	8.3	8.1	3.4	5.1	3	6	-	-	-	-	817175	807791	-	-	-	-	
					Middle	4.4	0.3	152	17.1	17.1	7.8	7.8	31.2	31.2	98.8	98.8	7.9	7.9	4.9	7.8	6	6	-	-	-	-	817175	807791	-	-	-	-	
						4.4	0.3	156	17.1	17.1	7.8	7.8	31.2	31.2	98.8	98.8	7.9	7.9	4.9	7.8	7	6	-	-	-	-	817175	807791	-	-	-	-	
					Bottom	7.7	0.3	159	16.9	16.9	7.8	7.8	32.4	32.4	97.3	97.3	7.8	7.8	7.0	7.8	8	6	-	-	-	-	817175	807791	-	-	-	-	
						7.7	0.3	172	16.9	16.9	7.8	7.8	32.4	32.4	97.3	97.3	7.8	7.8	7.0	7.8	8	6	-	-	-	-	817175	807791	-	-	-	-	
SR5A	Sunny	Calm	20:24	5.4	Surface	1.0	0.3	164	18.8	18.8	7.8	7.8	30.6	30.6	101.8	101.7	7.9	7.9	6.2	6.7	5	7	-	-	-	816590	810712	-	-	-	-		
						1.0	0.3	179	18.8	18.8	7.8	7.8	30.6	30.6	101.5	101.5	7.9	7.9	6.3	6.7	7	7	-	-	-	-	816590	810712	-	-	-	-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816590	810712	-	-	-	-
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816590	810712	-	-	-	-
					Bottom	4.4	0.2	165	17.3	17.4	7.8	7.8	31.4	31.4	100.6	100.6	8.0	8.0	7.0	8.0	9	7	-	-	-	-	816590	810712	-	-	-		

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

Water Quality Monitoring

Water Quality Monitoring Results on **23 March 17** during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)				
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA						
C1	Cloudy	Moderate	14:28	8.6	Surface	1.0	0.4	148	16.1	16.1	7.8	7.8	31.3	31.4	101.8	101.9	8.3	8.2	2.0	1.8	3	5	815628	804258				
						1.0	0.4	158	16.1	16.1	7.8	7.8	31.4	31.4	101.9	101.9	8.3	8.2	2.0	1.8	2	5						
					Middle	4.3	0.4	133	15.4	15.4	7.8	7.8	34.1	34.2	100.5	100.4	8.1	8.1	1.6	1.7	6	4			815628	804258		
						4.3	0.4	139	15.4	15.4	7.8	7.8	34.2	34.2	100.3	100.3	8.1	8.1	1.7	1.7	6	4						
					Bottom	7.6	0.4	166	15.2	15.2	7.8	7.8	35.2	35.2	99.3	99.3	8.0	8.0	1.8	1.8	5	4					815628	804258
						7.6	0.5	166	15.2	15.2	7.8	7.8	35.2	35.2	99.3	99.3	8.0	8.0	1.8	1.8	5	4						
C2	Cloudy	Moderate	13:18	11.7	Surface	1.0	0.4	188	19.9	19.9	8.0	8.0	23.8	23.8	90.7	90.7	7.2	7.1	1.7	3.3	4	4	825662	806938				
						1.0	0.5	194	19.9	19.9	8.0	8.0	23.8	23.8	90.7	90.7	7.2	7.1	1.6	3.3	4	4						
					Middle	5.9	0.3	240	19.4	19.4	8.0	8.0	28.4	28.4	88.4	88.4	6.9	6.9	3.4	3.6	5	4			825662	806938		
						5.9	0.3	256	19.4	19.4	8.0	8.0	28.4	28.4	88.3	88.3	6.9	6.9	3.6	3.6	3	4						
					Bottom	10.7	0.3	138	19.0	19.0	8.0	8.0	30.5	30.5	86.5	86.5	6.7	6.7	4.9	4.9	4	4					825662	806938
						10.7	0.3	143	19.0	19.0	8.0	8.0	30.5	30.5	86.6	86.6	6.7	6.7	4.8	4.8	4	4						
C3	Cloudy	Moderate	15:18	12.7	Surface	1.0	0.3	273	19.9	19.9	8.0	8.0	28.6	28.6	96.7	96.7	7.4	7.3	0.8	1.2	3	5	822100	817822				
						1.0	0.3	294	19.9	19.9	8.0	8.0	28.6	28.6	96.7	96.7	7.4	7.3	0.8	1.2	4	5						
					Middle	6.4	0.3	258	19.2	19.2	8.0	8.0	30.2	30.2	92.4	92.4	7.1	7.1	1.5	1.5	4	5			822100	817822		
						6.4	0.3	280	19.2	19.2	8.0	8.0	30.2	30.2	92.4	92.4	7.1	7.1	1.5	1.5	6	5						
					Bottom	11.7	0.3	261	19.1	19.1	8.0	8.0	30.7	30.7	93.2	93.2	7.2	7.2	1.2	1.2	6	5					822100	817822
						11.7	0.3	275	19.1	19.1	8.0	8.0	30.7	30.7	93.2	93.2	7.2	7.2	1.3	1.3	7	5						
IM1	Cloudy	Moderate	14:06	7.5	Surface	1.0	0.3	156	16.6	16.5	7.7	7.8	29.6	29.8	101.5	101.6	8.3	8.2	1.8	2.2	4	4	818357	806451				
						1.0	0.4	163	16.4	16.4	7.8	7.8	29.9	29.9	101.6	101.6	8.3	8.2	1.8	2.2	3	4						
					Middle	3.8	0.3	143	15.6	15.6	7.8	7.8	33.6	33.6	99.8	99.8	8.1	8.1	1.9	2.0	6	4			818357	806451		
						3.8	0.3	155	15.6	15.6	7.8	7.8	33.6	33.6	99.7	99.7	8.1	8.1	2.0	2.0	4	4						
					Bottom	6.5	0.3	158	15.2	15.2	7.8	7.8	34.9	34.9	98.2	98.2	8.0	8.0	2.9	2.9	4	4					818357	806451
						6.5	0.3	165	15.2	15.2	7.8	7.8	34.9	34.9	98.1	98.1	7.9	7.9	2.6	2.6	5	4						
IM2	Cloudy	Moderate	14:00	8.4	Surface	1.0	0.4	201	16.2	16.2	7.8	7.8	30.7	30.8	100.4	100.5	8.2	8.2	2.2	3.2	3	4	818861	806203				
						1.0	0.4	216	16.1	16.2	7.8	7.8	30.8	30.8	100.5	100.5	8.2	8.2	2.0	3.2	2	4						
					Middle	4.2	0.4	209	15.8	15.8	7.8	7.8	32.6	32.6	99.5	99.5	8.1	8.1	2.5	2.5	5	4			818861	806203		
						4.2	0.4	220	15.8	15.8	7.8	7.8	32.6	32.6	99.5	99.5	8.1	8.1	2.5	2.5	5	4						
					Bottom	7.4	0.3	203	15.2	15.2	7.8	7.8	35.0	35.0	97.5	97.5	7.9	7.9	4.7	4.7	5	4					818861	806203
						7.4	0.4	219	15.2	15.2	7.8	7.8	35.0	35.0	97.4	97.4	7.9	7.9	5.0	5.0	4	4						
IM3	Cloudy	Moderate	13:53	8.6	Surface	1.0	0.3	176	16.7	16.7	7.7	7.7	28.2	28.3	99.0	99.1	8.1	8.0	2.4	3.2	3	3	819423	806008				
						1.0	0.3	177	16.6	16.6	7.7	7.7	28.3	28.3	99.2	99.2	8.1	8.0	2.4	3.2	4	3						
					Middle	4.3	0.3	164	15.5	15.5	7.8	7.8	33.9	34.0	97.7	97.7	7.9	7.9	3.3	3.4	3	3			819423	806008		
						4.3	0.3	174	15.5	15.5	7.8	7.8	34.0	34.0	97.7	97.7	7.9	7.9	3.4	3.4	3	3						
					Bottom	7.6	0.3	155	15.2	15.3	7.8	7.8	35.0	35.0	96.9	96.9	7.8	7.8	3.7	3.7	4	3					819423	806008
						7.6	0.4	158	15.3	15.3	7.8	7.8	35.0	35.0	96.8	96.8	7.8	7.8	3.7	3.7	3	3						
IM4	Cloudy	Moderate	13:46	8.1	Surface	1.0	0.3	194	17.1	17.1	7.7	7.7	27.8	27.8	98.9	99.0	8.1	8.0	1.9	2.8	5	5	819581	805055				
						1.0	0.3	197	17.1	17.1	7.7	7.7	27.8	27.8	99.0	99.0	8.1	8.0	2.0	2.8	4	5						
					Middle	4.1	0.3	177	15.8	15.8	7.8	7.8	32.6	32.7	97.5	97.6	7.9	7.9	2.8	3.0	6	4			819581	805055		
						4.1	0.3	180	15.8	15.8	7.8	7.8	32.7	32.7	97.6	97.6	7.9	7.9	3.0	3.0	4	4						
					Bottom	7.1	0.2	147	15.3	15.3	7.8	7.8	34.8	34.8	96.6	96.6	7.8	7.8	3.4	3.4	6	4					819581	805055
						7.1	0.3	149	15.3	15.3	7.8	7.8	34.8	34.8	96.6	96.6	7.8	7.8	3.4	3.4	6	4						
IM5	Cloudy	Moderate	13:38	7.1	Surface	1.0	0.4	192	16.9	16.9	7.7	7.7	27.6	27.6	97.2	97.3	8.0	8.0	2.0	4.2	5	5	820583	804905				
						1.0	0.4	199	16.9	16.9	7.7	7.7	27.6	27.6	97.3	97.3	8.0	8.0	2.0	4.2	6	5						
					Middle	3.6	0.4	210	16.4	16.4	7.7	7.7	29.4	29.5	97.2	97.3	8.0	8.0	2.7	3.0	5	5			820583	804905		
						3.6	0.4	227	16.3	16.4	7.7	7.7	29.5	29.5	97.3	97.3	8.0	8.0	3.0	3.0	4	5						
					Bottom	6.1	0.3	185	15.4	15.4	7.8	7.8	34.4	34.4	95.9	96.0	7.8	7.8	7.9	7.9	5	4					820583	804905
						6.1	0.3	196	15.4	15.4	7.8	7.8	34.4	34.4	96.1	96.1	7.8	7.8	7.6	7.6	4	4						
IM6	Cloudy	Moderate	13:29	7.3	Surface	1.0	0.3	190	16.8	16.8	7.7	7.7	28.3	28.3	96.6	96.6	7.9	7.9	1.9	3.5	6	6	821072	805815				
						1.0	0.3	193	16.8	16.8	7.7	7.7	28.3	28.3	96.6	96.6	7.9	7.9	1.9	3.5	5	6						
					Middle	3.7	0.3	183	16.3	16.3	7.7	7.7	29.7	29.7	96.4	96.4	7.9	7.9	2.2	2.2	5	6			821072	805815		
						3.7	0.3	184	16.3	16.3	7.7	7.7	29.7	29.7	96.4	96.4	7.9	7.9	2.2	2.2	7	6						
					Bottom	6.3	0.3	156	15.5	15.5	7.8	7.8	34.1	34.1	95.4	95.4	7.7	7.7	6.3	6.3	6	6					821072	805815
						6.3	0.3	170	15.5	15.5	7.8	7.8	34.1	34.1	95.4	95.4	7.7	7.7	6.3	6.3	6	6						
IM7	Cloudy	Moderate	13:18	7.8	Surface	1.0	0.3	166	16.5	16.5	7.7	7.7	28.9	28.9	95.2	95.2	7.8	7.8	1.8	3.2	5	5	821358	806843				
						1.0	0.4	175	16.5	16.5	7.7	7.7	28.9	28.9	95.2	95.2	7.8	7.8	1.9	3.2	4	5						
					Middle	3.9	0.3	178	16.1	16.1	7.7	7.7	30.7	30.8	95.3	95.3	7.8	7.8	2.9	3.2	3	3			821358	806843		
						3.9	0.4	194	16.1	16.1	7.7	7.7	30.8	30.8	95.3	95.3	7.8	7.8	3.2	3.2	3	3						
					Bottom	6.8	0.4	135	15.7	15.8	7.7	7.7	33.0	33.0	94.7	94.7	7.7	7.7	4.5	4.5	7	4					821358	806843
						6.8	0.4	140	15.8	15.8	7.7	7.7	32.9	32.9	94.7	94.7	7.7	7.7	4.8	4.8	5	4						
IM8	Cloudy	Moderate	13:55	8.5	Surface	1.0	0.4	196	20.1	20.1	7.9	7.9	24.5	24.5	95.1	95.1	7.5	7.6	2.2	5.1	4	3	821690	807831				
						1.0	0.4	208	20.1	20																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Moderate	14:04	7.2	Surface	1.0	0.3	176	20.5	7.9	7.9	23.5	23.5	96.8	96.8	7.6	7.6	1.7	2.1	4	4	822095	808825	
						1.0	0.3	185	20.4	7.9	7.9	23.5	23.5	96.8	96.8	7.6								
					Middle	3.6	0.3	174	19.6	7.9	7.9	27.4	27.5	97.3	97.4	7.6								
						3.6	0.3	174	19.6	7.9	7.9	27.5	27.5	97.4	97.4	7.6								
					Bottom	6.2	0.3	175	19.3	7.9	7.9	28.6	28.6	100.0	100.0	7.8								
						6.2	0.3	178	19.3	7.9	7.9	28.6	28.6	100.0	100.0	7.8								
IM10	Cloudy	Moderate	14:12	7.7	Surface	1.0	0.4	148	20.3	8.0	8.0	25.4	25.4	96.1	96.1	7.5	7.4	2.7	4.4	4	822241	809851		
						1.0	0.4	148	20.3	8.0	8.0	25.4	25.4	96.0	96.1	7.5								
					Middle	3.9	0.4	161	19.4	8.0	8.0	28.5	28.5	93.2	93.2	7.3								
						3.9	0.4	171	19.4	8.0	8.0	28.4	28.5	93.2	93.2	7.3								
					Bottom	6.7	0.3	181	19.1	8.0	8.0	29.0	29.0	93.2	93.2	7.3								
						6.7	0.3	198	19.1	8.0	8.0	29.0	29.0	93.2	93.2	7.3								
IM11	Cloudy	Moderate	14:21	8.3	Surface	1.0	0.5	171	20.5	8.0	8.0	25.3	25.3	96.2	96.2	7.5	7.4	1.6	3.0	3	821511	810540		
						1.0	0.6	179	20.5	8.0	8.0	25.3	25.3	96.2	96.2	7.5								
					Middle	4.2	0.5	164	19.5	8.0	8.0	27.9	27.9	93.7	93.7	7.3								
						4.2	0.6	167	19.5	8.0	8.0	27.9	27.9	93.7	93.7	7.3								
					Bottom	7.3	0.5	190	19.2	8.0	8.0	29.0	29.0	93.5	93.5	7.3								
						7.3	0.5	190	19.2	8.0	8.0	29.0	29.0	93.5	93.5	7.3								
IM12	Cloudy	Moderate	14:30	8.2	Surface	1.0	0.4	157	20.1	8.0	8.0	25.3	25.3	94.3	94.3	7.4	7.3	2.4	3.5	4	821165	811506		
						1.0	0.4	172	20.1	8.0	8.0	25.3	25.3	94.3	94.3	7.4								
					Middle	4.1	0.4	193	19.3	8.0	8.0	28.4	28.4	91.8	91.8	7.2								
						4.1	0.4	196	19.3	8.0	8.0	28.4	28.4	91.8	91.8	7.2								
					Bottom	7.2	0.5	228	19.1	8.0	8.0	29.9	29.9	89.2	89.2	6.9								
						7.2	0.5	233	19.1	8.0	8.0	29.8	29.9	89.5	89.9	7.0								
SR2	Cloudy	Moderate	14:55	5.3	Surface	1.0	0.2	166	20.0	8.0	8.0	26.2	26.2	94.8	94.8	7.4	7.4	2.2	2.3	4	821447	814156		
						1.0	0.3	167	20.0	8.0	8.0	26.2	26.2	94.8	94.8	7.4								
					Middle	2.7	-	-	-	-	-	-	-	-	-									
						2.7	-	-	-	-	-	-	-	-	-									
					Bottom	4.3	0.2	196	19.6	7.9	7.9	27.7	27.7	94.9	95.0	7.4								
						4.3	0.2	211	19.6	7.9	7.9	27.7	27.7	95.0	95.0	7.4								
SR3	Cloudy	Moderate	13:46	9.3	Surface	1.0	0.5	194	20.2	8.0	8.0	23.1	23.1	92.8	92.8	7.3	7.3	2.4	5.8	4	822138	807590		
						1.0	0.5	202	20.2	8.0	8.0	23.0	23.1	92.8	92.8	7.3								
					Middle	4.7	0.4	180	19.3	8.0	8.0	28.7	28.7	93.1	93.1	7.2								
						4.7	0.4	191	19.3	8.0	8.0	28.7	28.7	93.1	93.1	7.3								
					Bottom	8.3	0.5	140	18.8	8.0	8.0	30.2	30.2	93.1	93.1	7.2								
						8.3	0.5	147	18.8	8.0	8.0	30.2	30.2	93.1	93.1	7.2								
SR4A	Cloudy	Moderate	14:50	9.3	Surface	1.0	0.3	151	16.1	7.8	7.8	32.5	32.5	99.2	99.1	8.0	8.0	8.9	7.9	13	817175	807790		
						1.0	0.3	165	16.1	7.8	7.8	32.5	32.5	99.0	99.0	8.0								
					Middle	4.7	0.3	159	15.6	7.8	7.8	33.8	33.8	98.1	98.1	7.9								
						4.7	0.3	171	15.6	7.8	7.8	33.8	33.8	98.0	98.0	7.9								
					Bottom	8.3	0.3	157	15.3	7.8	7.8	34.7	34.7	97.3	97.3	7.9								
						8.3	0.3	168	15.3	7.8	7.8	34.7	34.7	97.3	97.3	7.9								
SR5A	Cloudy	Calm	15:07	4.8	Surface	1.0	0.1	166	17.5	7.8	7.8	31.7	31.7	102.4	102.4	8.1	8.1	4.3	4.7	7	816595	810699		
						1.0	0.1	167	17.5	7.8	7.8	31.7	31.7	102.3	102.3	8.1								
					Middle	2.4	-	-	-	-	-	-	-	-	-									
						2.4	-	-	-	-	-	-	-	-	-									
					Bottom	3.8	0.1	191	17.2	7.8	7.8	31.9	31.9	101.2	101.1	8.0								
						3.8	0.1	192	17.2	7.8	7.8	31.9	31.9	101.0	101.1	8.0								
SR6	Cloudy	Calm	15:31	4.4	Surface	1.0	0.2	252	16.8	7.7	7.7	31.2	31.3	98.9	98.9	7.9	8.0	5.1	5.4	9	817906	814659		
						1.0	0.2	270	16.8	7.7	7.7	31.3	31.3	98.8	98.8	7.9								
					Middle	2.2	-	-	-	-	-	-	-	-	-									
						2.2	-	-	-	-	-	-	-	-	-									
					Bottom	3.4	0.1	214	16.8	7.7	7.7	31.7	31.7	99.0	99.0	7.9								
						3.4	0.1	215	16.8	7.7	7.7	31.6	31.7	99.1	99.1	7.9								
SR7	Cloudy	Moderate	15:56	19.0	Surface	1.0	0.2	196	19.6	8.0	8.0	30.4	30.4	93.6	93.6	7.2	7.1	0.4	1.9	5	823649	823751		
						1.0	0.2	212	19.6	8.0	8.0	30.4	30.4	93.6	93.6	7.2								
					Middle	9.5	0.2	138	19.0	8.0	8.0	31.2	31.2	89.9	89.9	6.9								
						9.5	0.2	146	19.0	8.0	8.0	31.2	31.2	89.9	89.9	6.9								
					Bottom	18.0	0.2	125	18.9	8.0	8.0	31.3	31.3	90.5	90.5	7.0								
						18.0	0.2	126	18.9	8.0	8.0	31.3	31.3	90.5	90.5	7.0								
SR8	Cloudy	Moderate	14:38	5.6	Surface	1.0	0.2	227	20.4	8.0	8.0	24.7	24.7	96.8	96.8	7.6	7.6	1.9	2.5	7	820434	811592		
						1.0	0.3	244	20.4	8.0	8.0	24.7	24.7	96.7	96.7	7.6								
					Middle	2.8	-	-	-	-	-	-	-	-	-									
						2.8	-	-	-	-	-	-	-	-	-									
					Bottom	4.6	0.3	201	19.6	8.0	8.0	27.7	27.7	95.5	95.5	7.4								
						4.6	0.3	202	19.6	7.9	8.0	27.7	27.7	95.5	95.5	7.4								

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 23 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	09:56	8.8	Surface	1.0	0.3	121	15.9	15.9	7.7	7.7	29.4	29.4	99.2	99.2	8.2	8.1	2.0	2.5	3	5	815607	804255
						1.0	0.3	125	15.9	15.9	7.7	7.7	29.4	29.4	99.2	99.2	8.2	8.1	2.0	2.5	3			
					Middle	4.4	0.3	140	15.4	15.4	7.8	7.8	33.3	33.3	98.4	98.4	8.0	8.0	2.0	2.5	5			
						4.4	0.3	149	15.4	15.4	7.8	7.8	33.3	33.3	98.4	98.4	8.0	8.0	2.1	2.5	3			
					Bottom	7.8	0.2	167	15.1	15.1	7.7	7.7	34.0	34.0	96.5	96.5	7.9	7.9	3.3	7.9	7			
						7.8	0.3	178	15.1	15.1	7.7	7.7	34.0	34.0	96.4	96.5	7.9	7.9	3.3	7.9	6			
C2	Cloudy	Moderate	11:24	11.6	Surface	1.0	0.3	142	19.7	19.7	7.9	7.9	25.3	25.3	90.6	90.6	7.1	7.1	2.4	3.7	4	5	825674	806943
						1.0	0.3	155	19.7	19.7	7.9	7.9	25.3	25.3	90.6	90.6	7.1	7.1	2.6	3.7	5			
					Middle	5.8	0.2	165	19.3	19.3	8.0	8.0	29.0	29.0	90.4	90.4	7.0	7.0	2.8	7.0	4			
						5.8	0.2	175	19.3	19.3	8.0	8.0	29.0	29.0	90.4	90.4	7.0	7.0	2.8	7.0	6			
					Bottom	10.6	0.2	162	19.1	19.1	8.0	8.0	30.2	30.2	89.8	89.8	7.0	7.0	5.9	7.0	5			
						10.6	0.2	168	19.1	19.1	8.0	8.0	30.2	30.2	89.9	89.9	7.0	7.0	5.9	7.0	5			
C3	Cloudy	Moderate	09:31	12.1	Surface	1.0	0.2	169	19.2	19.2	8.0	8.0	30.1	30.1	92.3	92.3	7.1	7.0	1.0	1.8	6	6	822125	817813
						1.0	0.2	173	19.2	19.2	8.0	8.0	30.1	30.1	92.3	92.3	7.1	7.0	1.0	1.8	5			
					Middle	6.1	0.2	192	18.8	18.8	8.0	8.0	31.3	31.3	89.5	89.5	6.9	7.0	1.7	7.0	7			
						6.1	0.2	210	18.8	18.8	8.0	8.0	31.3	31.3	89.5	89.5	6.9	7.0	1.7	7.0	5			
					Bottom	11.1	0.2	199	18.8	18.8	7.9	7.9	31.3	31.3	90.9	90.9	7.0	7.0	2.6	7.0	6			
						11.1	0.2	214	18.8	18.8	7.9	7.9	31.3	31.3	90.9	90.9	7.0	7.0	2.6	7.0	5			
IM1	Cloudy	Moderate	10:18	7.6	Surface	1.0	0.3	180	16.0	16.0	7.7	7.7	30.3	30.3	97.6	97.7	8.0	8.0	2.6	3.6	5	5	818338	806452
						1.0	0.3	192	16.0	16.0	7.7	7.7	30.3	30.3	97.7	97.7	8.0	8.0	2.6	3.6	4			
					Middle	3.8	0.3	138	15.6	15.6	7.7	7.7	32.0	32.0	96.9	96.9	7.9	7.9	3.6	7.9	6			
						3.8	0.3	145	15.5	15.5	7.7	7.7	32.0	32.0	96.9	96.9	7.9	7.9	3.7	7.9	4			
					Bottom	6.6	0.2	184	15.2	15.2	7.7	7.7	33.9	33.9	96.0	96.0	7.8	7.8	4.6	7.8	5			
						6.6	0.3	193	15.2	15.2	7.7	7.7	33.9	33.9	96.0	96.0	7.8	7.8	4.5	7.8	7			
IM2	Cloudy	Moderate	10:25	8.6	Surface	1.0	0.3	210	16.4	16.4	7.7	7.7	28.4	28.4	97.7	97.7	8.1	8.1	2.3	3.5	2	5	818853	806209
						1.0	0.3	214	16.4	16.4	7.7	7.7	28.4	28.4	97.7	97.7	8.1	8.1	2.3	3.5	3			
					Middle	4.3	0.3	118	15.5	15.5	7.7	7.7	31.6	31.6	97.0	97.0	8.0	8.0	3.8	8.0	5			
						4.3	0.3	125	15.5	15.5	7.7	7.7	31.7	31.7	97.0	97.0	8.0	8.0	3.8	8.0	7			
					Bottom	7.6	0.3	161	15.2	15.2	7.7	7.7	34.0	34.0	96.1	96.1	7.8	7.8	4.5	7.8	7			
						7.6	0.3	176	15.2	15.2	7.7	7.7	34.0	34.0	96.1	96.1	7.8	7.8	4.5	7.8	6			
IM3	Cloudy	Moderate	10:33	8.8	Surface	1.0	0.4	217	16.3	16.3	7.7	7.7	29.0	29.1	97.7	97.7	8.0	8.0	2.3	3.2	5	5	819394	806006
						1.0	0.4	236	16.2	16.2	7.7	7.7	29.1	29.1	97.7	97.7	8.0	8.0	2.3	3.2	4			
					Middle	4.4	0.3	199	15.8	15.8	7.7	7.7	31.4	31.4	97.4	97.4	8.0	8.0	3.1	8.0	5			
						4.4	0.4	213	15.8	15.8	7.7	7.7	31.4	31.4	97.4	97.4	8.0	8.0	3.1	8.0	6			
					Bottom	7.8	0.4	193	15.3	15.4	7.7	7.7	33.9	33.9	96.5	96.5	7.8	7.8	4.2	7.8	4			
						7.8	0.4	198	15.4	15.4	7.7	7.7	33.9	33.9	96.5	96.5	7.8	7.8	4.1	7.8	6			
IM4	Cloudy	Moderate	10:40	8.2	Surface	1.0	0.4	217	16.5	16.5	7.7	7.7	28.4	28.4	98.3	98.3	8.1	8.1	2.1	3.0	2	4	819580	805023
						1.0	0.4	230	16.5	16.5	7.7	7.7	28.4	28.4	98.3	98.3	8.1	8.1	2.1	3.0	3			
					Middle	4.1	0.3	186	15.8	15.8	7.7	7.7	30.8	30.9	97.5	97.5	8.0	8.0	3.3	8.0	3			
						4.1	0.3	187	15.7	15.7	7.7	7.7	30.9	30.9	97.4	97.4	8.0	8.0	3.3	8.0	4			
					Bottom	7.2	0.3	197	15.4	15.4	7.7	7.7	34.0	34.0	96.4	96.4	7.8	7.8	3.7	7.8	5			
						7.2	0.3	199	15.4	15.4	7.7	7.7	34.0	34.0	96.4	96.4	7.8	7.8	3.6	7.8	6			
IM5	Cloudy	Moderate	10:49	7.1	Surface	1.0	0.4	189	16.5	16.5	7.7	7.7	26.1	26.2	97.6	97.6	8.1	8.0	3.5	6.0	2	6	820549	804942
						1.0	0.4	195	16.5	16.5	7.7	7.7	26.2	26.2	97.6	97.6	8.1	8.0	3.5	6.0	<2			
					Middle	3.6	0.4	161	15.7	15.7	7.7	7.7	31.2	31.2	96.6	96.6	7.9	7.9	5.7	7.9	5			
						3.6	0.4	163	15.7	15.7	7.7	7.7	31.2	31.2	96.6	96.6	7.9	7.9	5.8	7.9	4			
					Bottom	6.1	0.4	138	15.3	15.4	7.7	7.7	33.8	33.8	96.5	96.5	7.8	7.9	8.6	7.9	10			
						6.1	0.4	145	15.4	15.4	7.7	7.7	33.7	33.8	96.5	96.5	7.9	7.9	8.6	7.9	10			
IM6	Cloudy	Moderate	10:57	0.2	Surface	1.0	0.3	195	16.4	16.4	7.7	7.7	27.3	27.3	96.8	96.8	8.0	8.0	2.7	3.9	7	7	821076	805847
						1.0	0.3	207	16.4	16.4	7.7	7.7	27.3	27.3	96.8	96.8	8.0	8.0	2.7	3.9	6			
					Middle	0.1	0.3	162	15.8	15.8	7.7	7.7	30.7	30.7	96.4	96.4	7.9	7.9	4.2	7.9	6			
						0.1	0.3	170	15.7	15.7	7.7	7.7	30.7	30.7	96.4	96.4	7.9	7.9	4.2	7.9	6			
					Bottom	-0.8	0.3	154	15.5	15.5	7.7	7.7	33.5	33.5	96.0	96.0	7.8	7.8	4.8	7.8	9			
						-0.8	0.3	155	15.5	15.5	7.7	7.7	33.5	33.5	96.0	96.0	7.8	7.8	4.8	7.8	7			
IM7	Cloudy	Moderate	11:06	8.3	Surface	1.0	0.3	168	16.2	16.2	7.7	7.7	28.8	28.8	97.1	97.1	8.0	8.0	2.5	3.3	5	6	821358	806821
						1.0	0.3	179	16.2	16.2	7.7	7.7	28.8	28.8	97.1	97.1	8.0	8.0	2.5	3.3	5			
					Middle	4.2	0.3	131	15.7	15.7	7.7	7.7	31.6	31.6	96.5	96.5	7.9	7.9	3.5	7.9	6			
						4.2	0.3	140	15.7	15.7	7.7	7.7	31.7	31.7	96.5	96.5	7.9	7.9	3.5	7.9	7			
					Bottom	7.3	0.3	128	15.5	15.5	7.7	7.7	33.5	33.5	96.6	96.6	7.9	7.9	3.9	7.9	6			
						7.3	0.3	138	15.5	15.5	7.7	7.7	33.5	33.5	96.7	96.7	7.9	7.9	3.9	7.9	7			
IM8	Cloudy	Moderate	10:56	8.8	Surface	1.0	0.3	135	19.9	19.9	8.0	8.0	22.8	22.8	93.8	93.8	7.5	7.4	2.8	3.8	4	5	821703	807831
						1.0	0.3	140	19.9	19.9	8.0	8.0	22.8	22.8	93.8	93.8	7.5	7.4	2.8	3.8	5			
					Middle	4.4	0.3	126	19.1	19.1	8.1	8.1	29.0	29.0	93.8	93.8	7.3	7.3	3.6	7.3	6			
						4.4	0.3	136	19.1	19.1	8.1	8.1	29.0	29.0	93.8	93.8	7.3	7.3	3.7	7.3	6			
					Bottom	7.8	0.3	112	18.9	18.9	8.0	8.0	30.0	30.0	93.3	93.3	7.3	7.3	5.0	7.3	5			
						7.8	0.4	118	18.9	18.9	8.0	8.0	30.0	30.0	93.3	93.3	7.3	7.3	5.0	7.3	6			

DA: Depth-Averaged

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			
IM9	Cloudy	Moderate	10:43	7.5	Surface	1.0	0.5	152	20.2	20.2	8.0	8.0	22.7	22.7	92.8	92.8	7.4	7.3	2.3	3.4	4	822075	808817	3	
						1.0	0.5	152	20.2	8.0	8.0	22.7	22.7	92.8	92.8	7.4	4								
					Middle	3.8	0.6	134	19.5	19.5	8.0	8.0	27.9	27.9	92.7	92.7	7.2							5	
						3.8	0.6	137	19.5	8.0	8.0	27.9	27.9	92.7	92.7	7.2	4								
					Bottom	6.5	0.5	145	18.9	18.9	8.0	8.0	29.7	29.7	92.6	92.6	7.2							5	
						6.5	0.6	156	18.9	8.0	8.0	29.7	29.7	92.6	92.6	7.2	4								
IM10	Cloudy	Moderate	10:35	8.2	Surface	1.0	0.6	139	20.0	20.0	8.0	8.0	24.3	24.3	91.7	91.8	7.2	7.2	2.3	5.4	5	822226	809819	5	
						1.0	0.6	150	20.0	8.0	8.0	24.3	24.3	91.8	91.8	7.2	5								
					Middle	4.1	0.5	139	19.4	19.4	8.0	8.0	28.5	28.5	91.7	91.7	7.1							5	
						4.1	0.5	149	19.4	8.0	8.0	28.5	28.5	91.7	91.7	7.1	4								
					Bottom	7.2	0.5	180	19.2	19.2	8.0	8.0	29.6	29.6	90.9	90.9	7.0							5	
						7.2	0.5	192	19.2	8.0	8.0	29.6	29.6	90.9	90.9	7.1	6								
IM11	Cloudy	Moderate	10:25	8.8	Surface	1.0	0.4	118	20.0	20.0	8.0	8.0	25.0	25.3	95.0	94.5	7.5	7.3	1.6	3.0	4	821519	810533	4	
						1.0	0.4	121	19.9	8.0	8.0	25.5	25.3	93.9	94.5	7.4	4								
					Middle	4.4	0.4	125	19.4	19.4	8.0	8.0	29.0	29.0	91.3	91.3	7.1							4	
						4.4	0.4	131	19.4	8.0	8.0	29.0	29.0	91.3	91.3	7.1	3								
					Bottom	7.8	0.3	174	19.1	19.1	8.0	8.0	29.9	29.9	91.9	91.9	7.1							4	
						7.8	0.4	189	19.1	8.0	8.0	29.9	29.9	91.9	91.9	7.1	3								
IM12	Cloudy	Moderate	10:17	9.3	Surface	1.0	0.4	129	19.6	19.6	8.0	8.0	27.2	27.2	92.0	92.0	7.2	7.1	2.2	3.6	5	821167	811514	4	
						1.0	0.5	129	19.6	8.0	8.0	27.2	27.2	91.9	92.0	7.2	4								
					Middle	4.7	0.4	185	19.1	19.1	8.0	8.0	29.9	29.9	89.6	89.6	6.9							5	
						4.7	0.4	193	19.1	8.0	8.0	29.9	29.9	89.6	89.6	6.9	4								
					Bottom	8.3	0.4	136	19.1	19.1	8.0	8.0	30.1	30.1	90.4	90.4	7.0							5	
						8.3	0.5	136	19.1	8.0	8.0	30.1	30.1	90.4	90.4	7.0	5								
SR2	Cloudy	Moderate	09:53	5.2	Surface	1.0	0.4	134	19.7	19.7	8.0	8.0	27.9	27.9	93.7	93.7	7.3	7.3	2.1	2.7	3	821443	814149	4	
						1.0	0.4	144	19.7	8.0	8.0	27.9	27.9	93.7	93.7	7.3	3								
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-							-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-							-	
					Bottom	4.2	0.3	222	19.1	19.1	8.0	8.0	29.8	29.8	92.8	92.9	7.2							3	
						4.2	0.3	235	19.1	8.0	8.0	29.8	29.8	92.8	92.9	7.2	3								
SR3	Cloudy	Moderate	11:01	9.2	Surface	1.0	0.3	129	19.7	19.7	8.0	8.0	25.9	25.9	93.5	93.5	7.3	7.3	2.0	3.6	4	822130	807558	5	
						1.0	0.3	132	19.7	8.0	8.0	25.9	25.9	93.5	93.5	7.3	4								
					Middle	4.6	0.3	112	19.3	19.3	8.0	8.0	28.1	28.1	93.9	93.9	7.3							4	
						4.6	0.3	121	19.3	8.0	8.0	28.1	28.1	93.9	93.9	7.3	3								
					Bottom	8.2	0.3	137	18.9	18.9	8.0	8.0	30.0	30.0	93.7	93.7	7.3							4	
						8.2	0.3	150	18.9	8.0	8.0	30.0	30.0	93.7	93.7	7.3	4								
SR4A	Cloudy	Calm	09:33	9.7	Surface	1.0	0.3	129	16.3	16.3	7.7	7.7	29.9	29.9	96.6	96.6	7.9	7.9	2.7	4.5	7	817202	807792	5	
						1.0	0.3	137	16.3	7.7	7.7	29.9	29.9	96.6	96.6	7.9	4								
					Middle	4.9	0.4	90	15.9	15.9	7.7	7.7	30.8	30.8	96.4	96.4	7.9							6	
						4.9	0.4	98	15.9	7.7	7.7	30.8	30.8	96.4	96.4	7.9	7								
					Bottom	8.7	0.3	92	15.5	15.5	7.7	7.7	32.4	32.4	95.8	95.8	7.8							8	
						8.7	0.3	94	15.5	7.7	7.7	32.4	32.4	95.8	95.8	7.8	9								
SR5A	Cloudy	Calm	09:14	4.4	Surface	1.0	0.1	138	16.9	16.9	7.6	7.6	29.9	29.9	97.0	97.0	7.8	7.8	3.8	6.9	5	816579	810699	5	
						1.0	0.1	142	16.9	7.6	7.6	29.9	29.9	96.9	97.0	7.8	5								
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-							-	
						2.2	-	-	-	-	-	-	-	-	-	-	-								
					Bottom	3.4	0.2	138	16.6	16.6	7.6	7.6	30.4	30.4	96.9	96.9	7.8							9	
						3.4	0.2	140	16.6	7.6	7.6	30.4	30.4	96.9	96.9	7.8	4								
SR6	Cloudy	Calm	08:48	4.8	Surface	1.0	0.1	176	16.0	16.0	7.5	7.5	29.3	29.3	95.1	95.2	7.8	7.8	6.8	8.8	16	817916	814662	5	
						1.0	0.1	183	16.0	7.5	7.5	29.3	29.3	95.2	95.2	7.8	5								
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-								
						2.4	-	-	-	-	-	-	-	-	-	-	-								
					Bottom	3.8	0.1	157	16.0	16.0	7.5	7.5	29.4	29.4	96.9	97.0	8.0							10	
						3.8	0.1	161	16.0	7.5	7.5	29.3	29.4	97.0	97.0	8.0	26								
SR7	Cloudy	Moderate	08:48	20.7	Surface	1.0	0.4	151	18.8	18.8	7.9	7.9	31.4	31.4	88.5	88.5	6.8	6.9	2.4	2.2	5	823639	823736	3	
						1.0	0.4	159	18.8	7.9	7.9	31.4	31.4	88.5	88.5	6.8	5								
					Middle	10.4	0.3	141	18.8	18.8	7.9	7.9	31.6	31.6	89.2	89.2	6.9							2	
						10.4	0.3	141	18.8	7.9	7.9	31.6	31.6	89.2	89.2	6.9	5								
					Bottom	19.7	0.3	227	18.8	18.8	7.9	7.9	31.7	31.7	89.3	89.3	6.9							5	
						19.7	0.3	240	18.8	7.9	7.9	31.7	31.7	89.3	89.3	6.9	4								
SR8	Cloudy	Moderate	10:09	6.0	Surface	1.0	0.4	198	19.8	19.8	8.0	8.0	26.2	26.2	93.6	93.6	7.3	7.3	1.8	2.0	4	820431	811608	4	
						1.0	0.4	212	19.8	8.0	8.0	26.2	26.2	93.6	93.6	7.3	3								
					Middle	3.0	-	-	-	-	-	-	-	-	-	-	-								
						3.0	-	-	-	-	-	-	-	-	-	-	-								
					Bottom	5.0	0.4	160	19.3	19.3	8.0	8.0	29.3	29.3	93.3	93.3	7.2							4	
						5.0	0.4	167	19.3	8.0	8.0	29.3	29.3	93.3	93.3	7.2	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 25 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)		
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA				
C1	Cloudy	Rough	16:23	8.2	Surface	1.0	0.7	150	16.7	16.7	7.7	7.7	28.9	28.9	99.9	99.9	8.2	8.2	3.2	3.2	4	4	815626	804238		
						1.0	0.7	153	16.7	16.7	7.7	7.7	28.9	28.9	99.8	99.8	8.2	8.2	3.2	3.2						
					Middle	4.1	0.7	137	16.7	16.7	7.7	7.7	28.9	28.9	100.0	100.0	8.2	8.2	4.0	4.0					4.1	4
						4.1	0.8	142	16.7	16.7	7.7	7.7	28.9	28.9	100.0	100.0	8.2	8.2	4.0	4.0						
					Bottom	7.2	0.8	121	16.6	16.6	7.7	7.7	29.1	29.1	100.5	100.5	8.2	8.2	5.0	5.0						
						7.2	0.8	127	16.6	16.6	7.7	7.7	29.1	29.1	100.5	100.5	8.2	8.2	4.9	4.9						
C2	Cloudy	Rough	15:16	10.7	Surface	1.0	0.8	192	20.2	20.2	7.9	7.9	21.2	21.2	88.8	88.8	7.1	7.1	2.8	2.8	4	4	825679	806931		
						1.0	0.9	202	20.2	20.2	7.9	7.9	21.2	21.2	88.8	88.8	7.1	7.1	2.8	2.8						
					Middle	5.4	0.5	240	19.9	19.9	7.9	7.9	26.7	26.7	89.6	89.6	7.0	7.0	2.5	2.5					2.6	4
						5.4	0.5	245	19.9	19.9	7.9	7.9	26.7	26.7	89.6	89.6	7.0	7.0	2.6	2.6						
					Bottom	9.7	0.6	176	19.9	19.9	7.9	7.9	27.3	27.3	89.5	89.5	6.9	6.9	2.4	2.4						
						9.7	0.6	190	19.9	19.9	7.9	7.9	27.3	27.3	89.5	89.5	6.9	6.9	2.5	2.5						
C3	Cloudy	Rough	17:10	13.4	Surface	1.0	0.5	239	20.0	20.0	8.0	8.0	27.2	27.2	95.7	95.7	7.4	7.4	2.8	2.8	4	4	822122	817800		
						1.0	0.5	240	20.0	20.0	8.0	8.0	27.2	27.2	95.7	95.7	7.4	7.4	2.9	2.9						
					Middle	6.7	0.6	257	20.0	20.0	8.0	8.0	27.5	27.5	95.1	95.1	7.4	7.4	1.8	1.8					2.3	4
						6.7	0.6	259	20.0	20.0	8.0	8.0	27.5	27.5	95.1	95.1	7.4	7.4	1.8	1.8						
					Bottom	12.4	0.7	283	19.8	19.8	8.0	8.0	29.7	29.7	95.6	95.6	7.3	7.3	2.2	2.2						
						12.4	0.8	309	19.8	19.8	8.0	8.0	29.7	29.7	95.7	95.7	7.3	7.3	2.3	2.3						
IM1	Cloudy	Rough	16:03	7.1	Surface	1.0	0.7	191	16.8	16.8	7.7	7.7	28.4	28.4	99.2	99.2	8.1	8.1	4.8	4.8	6	6	818342	806457		
						1.0	0.7	199	16.8	16.8	7.7	7.7	28.4	28.4	99.2	99.2	8.1	8.1	4.7	4.7						
					Middle	3.6	0.6	164	16.5	16.5	7.8	7.8	30.1	30.1	99.5	99.5	8.1	8.1	4.5	4.5					4.5	6
						3.6	0.7	173	16.5	16.5	7.8	7.8	30.1	30.1	99.5	99.5	8.1	8.1	4.5	4.5						
					Bottom	6.1	0.6	161	16.4	16.5	7.7	7.7	31.5	31.5	99.7	99.7	8.0	8.0	4.4	4.4						
						6.1	0.7	165	16.5	16.5	7.7	7.7	31.4	31.4	99.7	99.7	8.1	8.1	4.1	4.1						
IM2	Cloudy	Rough	15:57	8.3	Surface	1.0	0.6	220	16.9	16.9	7.7	7.7	27.5	27.5	97.7	97.7	8.0	8.0	4.0	4.0	6	6	818851	806181		
						1.0	0.6	236	16.9	16.9	7.7	7.7	27.5	27.5	97.8	97.8	8.0	8.0	4.0	4.0						
					Middle	4.2	0.3	183	16.7	16.7	7.7	7.7	28.4	28.4	97.7	97.7	8.0	8.0	5.3	5.3					5.2	6
						4.2	0.4	195	16.7	16.7	7.7	7.7	28.3	28.3	97.7	97.7	8.0	8.0	5.3	5.3						
					Bottom	7.3	0.4	146	16.3	16.3	7.7	7.7	31.4	31.4	98.6	98.6	8.0	8.0	6.2	6.2						
						7.3	0.4	155	16.3	16.3	7.7	7.7	31.3	31.3	98.6	98.6	8.0	8.0	6.1	6.1						
IM3	Cloudy	Rough	15:49	8.1	Surface	1.0	0.7	215	16.7	16.7	7.7	7.7	27.4	27.4	95.8	95.8	7.9	7.9	3.3	3.3	6	6	819406	806033		
						1.0	0.7	225	16.7	16.7	7.7	7.7	27.4	27.4	95.8	95.8	7.9	7.9	3.3	3.3						
					Middle	4.1	0.7	216	16.7	16.7	7.7	7.7	27.4	27.4	97.4	97.4	8.0	8.0	3.8	3.8					3.9	6
						4.1	0.7	224	16.7	16.7	7.7	7.7	27.4	27.4	97.4	97.4	8.0	8.0	3.8	3.8						
					Bottom	7.1	0.8	207	16.7	16.7	7.7	7.7	29.3	29.3	98.9	98.9	8.1	8.1	4.6	4.6						
						7.1	0.8	225	16.7	16.7	7.7	7.7	29.4	29.4	99.0	99.0	8.1	8.1	4.7	4.7						
IM4	Cloudy	Rough	15:41	7.7	Surface	1.0	0.6	198	16.6	16.6	7.7	7.7	27.5	27.5	95.7	95.7	7.9	7.9	4.6	4.6	7	7	819555	805044		
						1.0	0.7	206	16.6	16.6	7.7	7.7	27.5	27.5	95.7	95.7	7.9	7.9	4.6	4.6						
					Middle	3.9	0.5	203	16.6	16.6	7.7	7.7	27.7	27.7	96.9	96.9	8.0	8.0	5.1	5.1					5.3	7
						3.9	0.6	213	16.6	16.6	7.7	7.7	27.7	27.7	96.9	96.9	8.0	8.0	5.1	5.1						
					Bottom	6.7	0.4	210	16.4	16.4	7.7	7.7	30.7	30.7	97.8	97.8	7.9	7.9	6.2	6.2						
						6.7	0.4	224	16.4	16.4	7.7	7.7	30.6	30.6	98.0	98.0	8.0	8.0	6.0	6.0						
IM5	Cloudy	Rough	15:33	6.6	Surface	1.0	0.7	199	16.6	16.6	7.6	7.6	27.0	27.0	94.4	94.4	7.8	7.8	7.0	7.0	11	11	820569	804904		
						1.0	0.7	218	16.6	16.6	7.6	7.6	27.0	27.0	94.4	94.4	7.8	7.8	7.0	7.0						
					Middle	3.3	0.6	213	16.6	16.6	7.7	7.7	27.2	27.2	95.4	95.4	7.9	7.9	8.0	8.0					8.1	11
						3.3	0.6	232	16.6	16.6	7.7	7.7	27.2	27.2	95.4	95.4	7.9	7.9	8.1	8.1						
					Bottom	5.6	0.5	233	16.4	16.4	7.7	7.7	30.1	30.1	96.5	96.5	7.9	7.9	9.2	9.2						
						5.6	0.5	235	16.4	16.4	7.7	7.7	30.1	30.1	96.6	96.6	7.9	7.9	9.3	9.3						
IM6	Cloudy	Rough	15:25	6.4	Surface	1.0	0.8	188	16.7	16.7	7.6	7.6	26.0	26.0	94.6	94.6	7.9	7.9	8.7	8.7	14	14	821066	805841		
						1.0	0.8	205	16.7	16.7	7.6	7.6	26.0	26.0	94.6	94.6	7.9	7.9	8.8	8.8						
					Middle	3.2	0.7	206	16.6	16.6	7.7	7.7	26.4	26.4	96.2	96.2	8.0	8.0	15.3	15.3					13.3	14
						3.2	0.7	224	16.6	16.6	7.7	7.7	26.5	26.5	96.3	96.3	8.0	8.0	15.6	15.6						
					Bottom	5.4	0.7	225	16.6	16.6	7.7	7.7	29.3	29.3	97.5	97.5	8.0	8.0	16.1	16.1						
						5.4	0.7	236	16.6	16.6	7.7	7.7	29.4	29.4	97.5	97.5	8.0	8.0	15.2	15.2						
IM7	Cloudy	Rough	15:16	7.6	Surface	1.0	0.4	228	16.8	16.8	7.7	7.7	27.1	27.1	95.4	95.4	7.9	7.9	3.5	3.5	6	6	821349	806849		
						1.0	0.5	240	16.8	16.8	7.7	7.7	27.1	27.1	95.4	95.4	7.9	7.9	3.5	3.5						
					Middle	3.8	0.5	253	16.7	16.7	7.7	7.7	27.9	27.9	96.6	96.6	7.9	7.9	3.8	3.8					3.8	6
						3.8	0.5	260	16.6	16.6	7.7	7.7	28.0	28.0	96.6	96.6	7.9	7.9	3.8	3.8						
					Bottom	6.6	0.4	239	16.5	16.5	7.7	7.7	30.1	30.1	97.6	97.6	7.9	7.9	4.1	4.1						
						6.6	0.4	253	16.5	16.5	7.7	7.7	30.1	30.1	97.7	97.7	7.9	7.9	4.1	4.1						
IM8	Cloudy	Rough	15:38	8.2	Surface	1.0	2.4	195	20.1	20.1	7.9	7.9	23.1	23.1	90.4	90.4	7.2	7.2	4.4	4.4	4	4	821699	807843		
						1.0	2.6	211	20.1	20.1	7.9	7.9	23.1	23.1	90.4	90.4	7.2	7.2	4.5	4.5						
					Middle	4.1	0.6	205	20.1	20.1	7.9	7.9	23.6	23.6	90.3	90.3	7.1	7.1	3.9	3.9					4.1	4
						4.1	0.7	224	20.1	20.1	7.9	7.9	23.6	23.6	90.3	90.3	7.1	7.1	3.7	3.7						
					Bottom	7.2	0.6	216	20.1	20.1	7.9	7.9	23.7	23.7	90.4	90.4	7.1	7.1	4.1	4.1						
						7.2	0.6	221	20.1	20.1	7.9	7.9	23.7	23.7	90.5	90.5	7.1	7.1	4.0	4.0						

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 25 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA				
IM9	Cloudy	Rough	15:52	6.9	Surface	1.0	0.7	204	20.2	7.9	7.9	23.5	23.5	91.0	91.0	7.2	3.8	4	4	822104	808812			
						1.0	0.7	212	20.2	7.9	7.9	23.5	23.5	91.0	7.2	3.7	4							
					Middle	3.5	0.7	202	20.2	7.9	7.9	23.5	23.5	91.4	91.4	7.2	4.5	4						
						3.5	0.7	218	20.2	7.9	7.9	23.5	23.5	91.4	7.2	4.5	3							
					Bottom	5.9	0.6	190	20.2	7.9	7.9	23.6	23.6	92.8	92.9	7.3	4.3	4						
						5.9	0.6	195	20.2	7.9	7.9	23.6	23.6	93.0	7.3	4.5	4							
IM10	Cloudy	Rough	16:03	6.9	Surface	1.0	0.6	220	20.3	8.0	8.0	26.6	25.2	93.0	93.0	7.2	3.0	3	4	822251	809819			
						1.0	0.7	240	20.3	7.9	8.0	23.8	23.8	93.0	7.3	3.1	4							
					Middle	3.5	0.7	246	20.3	7.9	8.0	23.8	24.2	93.0	7.3	3.2	4							
						3.5	0.7	256	20.2	8.0	8.0	24.5	24.2	93.0	7.3	3.2	4							
					Bottom	5.9	0.7	235	20.2	8.0	8.0	24.5	24.7	93.0	7.3	5.5	3							
						5.9	0.7	239	20.2	8.0	8.0	24.9	24.7	93.3	93.2	7.3	5.6	5						
IM11	Cloudy	Rough	16:11	8.1	Surface	1.0	0.7	238	20.3	7.9	7.9	24.2	24.2	93.5	93.5	7.3	3.0	5	4	821516	810557			
						1.0	0.8	250	20.3	7.9	7.9	24.2	24.2	93.5	7.3	3.1	4							
					Middle	4.1	0.7	249	20.3	8.0	8.0	24.3	24.3	93.3	93.3	7.3	4.6	4						
						4.1	0.7	263	20.3	8.0	8.0	24.3	24.3	93.3	7.3	4.6	4							
					Bottom	7.1	0.7	247	20.1	8.0	8.0	27.0	27.0	92.7	92.7	7.2	18.8	4						
						7.1	0.7	262	20.1	8.0	8.0	27.0	27.0	92.7	7.2	18.8	3							
IM12	Cloudy	Rough	16:20	8.1	Surface	1.0	0.7	270	20.3	8.0	8.0	24.3	24.3	94.9	94.9	7.4	4.1	3	4	821172	811516			
						1.0	0.8	278	20.3	8.0	8.0	24.3	24.3	94.9	7.4	3.9	4							
					Middle	4.1	0.7	279	20.3	8.0	8.0	24.4	24.4	94.7	94.7	7.4	5.0	4						
						4.1	0.8	280	20.3	8.0	8.0	24.4	24.4	94.7	7.4	5.1	4							
					Bottom	7.1	0.7	262	20.0	8.0	8.0	28.2	28.2	94.5	94.5	7.3	10.0	4						
						7.1	0.7	286	20.0	8.0	8.0	28.2	28.2	94.5	7.3	9.9	5							
SR2	Cloudy	Rough	16:46	5.0	Surface	1.0	0.2	204	19.9	8.0	8.0	27.4	27.4	92.8	92.8	7.2	9.5	11	11	821481	814162			
						1.0	0.2	204	19.9	8.0	8.0	27.4	27.4	92.8	7.2	9.5	10							
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-				-		
						2.5	-	-	-	-	-	-	-	-	-	-	-	-				-		
					Bottom	4.0	0.2	172	19.9	8.0	8.0	27.6	27.6	92.8	92.8	7.2	10.2	11						
						4.0	0.2	185	19.9	8.0	8.0	27.6	27.6	92.8	7.2	10.3	11							
SR3	Cloudy	Rough	15:32	8.9	Surface	1.0	0.9	177	20.1	7.9	7.9	22.5	22.5	90.0	90.0	7.2	4.2	4	4	822129	807571			
						1.0	0.9	185	20.1	7.9	7.9	22.5	22.5	90.0	7.2	4.2	4							
					Middle	4.5	0.6	192	20.1	7.9	7.9	23.4	23.4	90.0	90.0	7.1	4.1	5						
						4.5	0.6	195	20.1	7.9	7.9	23.3	23.3	90.0	7.1	4.3	4							
					Bottom	7.9	0.6	221	20.0	7.9	7.9	25.1	25.1	90.4	90.4	7.1	4.3	4						
						7.9	0.6	237	20.0	7.9	7.9	25.1	25.1	90.4	7.1	4.1	4							
SR4A	Cloudy	Moderate	16:50	8.0	Surface	1.0	0.5	235	16.8	7.7	7.7	30.2	30.2	99.5	99.5	8.1	13.1	13	16	817203	807799			
						1.0	0.6	235	16.8	7.7	7.7	30.2	30.2	99.5	8.1	13.2	13							
					Middle	4.0	0.5	239	16.7	7.7	7.7	30.2	30.2	99.9	99.9	8.1	14.0	16						
						4.0	0.5	254	16.7	7.7	7.7	30.2	30.2	99.9	8.1	14.1	16							
					Bottom	7.0	0.5	234	16.7	7.7	7.7	30.2	30.2	100.5	100.5	8.1	12.8	19						
						7.0	0.5	238	16.7	7.7	7.7	30.2	30.2	100.5	8.1	12.5	20							
SR5A	Cloudy	Calm	17:10	4.5	Surface	1.0	0.3	298	16.9	7.7	7.7	31.1	31.1	100.1	100.1	8.0	8.8	9	10	816597	810708			
						1.0	0.4	322	16.9	7.7	7.7	31.1	31.1	100.1	8.0	8.8	11							
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-						
						2.3	-	-	-	-	-	-	-	-	-	-	-	-						
					Bottom	3.5	0.3	297	16.9	7.7	7.7	31.1	31.1	100.3	100.3	8.1	8.6	11						
						3.5	0.3	324	16.8	7.7	7.7	31.1	31.1	100.2	100.3	8.0	8.7	10						
SR6	Cloudy	Calm	17:39	4.6	Surface	1.0	0.2	238	16.9	7.7	7.7	28.9	28.9	98.9	98.9	8.0	8.3	11	11	817891	814669			
						1.0	0.2	249	16.9	7.7	7.7	28.9	28.9	98.9	8.0	8.4	9							
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-							
						2.3	-	-	-	-	-	-	-	-	-	-	-							
					Bottom	3.6	0.2	231	16.9	7.7	7.7	29.0	29.0	100.1	100.1	8.1	8.2	12						
						3.6	0.2	251	16.9	7.7	7.7	29.0	29.0	100.1	100.1	8.1	8.0	12						
SR7	Cloudy	Rough	17:49	25.9	Surface	1.0	0.2	152	19.6	8.0	8.0	29.5	29.5	91.8	91.8	7.1	3.5	4	4	823632	823752			
						1.0	0.2	156	19.6	8.0	8.0	29.5	29.5	91.8	7.1	3.6	4							
					Middle	13.0	0.3	83	19.4	8.0	8.0	31.1	31.1	91.0	91.0	7.0	6.3	5						
						13.0	0.3	84	19.4	8.0	8.0	31.1	31.1	91.1	91.1	7.0	6.2	4						
					Bottom	24.9	0.2	85	19.4	8.0	8.0	31.2	31.2	91.9	92.0	7.0	6.7	4						
						24.9	0.2	90	19.4	8.0	8.0	31.2	31.2	92.0	7.0	6.6	4							
SR8	Cloudy	Rough	16:29	5.1	Surface	1.0	0.3	256	20.5	8.0	8.0	24.0	24.0	98.3	98.3	7.7	4.9	6	6	820421	811607			
						1.0	0.3	258	20.5	8.0	8.0	24.0	24.0	98.3	7.7	4.7	6							
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-							
						2.6	-	-	-	-	-	-	-	-	-	-	-							
					Bottom	4.1	0.3	281	20.5	8.0	8.0	24.0	24.0	99.9	100.0	7.8	5.3	7						
						4.1	0.3	292	20.5	8.0	8.0	24.0	24.0	100.0	7.8	5.3	5							

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)										
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA												
C1	Cloudy	Rough	11:30	8.8	Surface	1.0	0.5	183	16.5	7.7	7.7	28.9	28.9	100.3	100.3	8.2	8.2	8.0	3.2	6	815618	804245	1.0	0.6	186	16.5	7.7	7.7	28.9	28.9	100.2	8.2	2.6	3
						4.4	0.5	182	16.1	7.8	7.8	31.4	31.4	99.0	99.0	8.1							2.7	3										
						4.4	0.5	188	16.1	7.8	7.8	31.4	31.4	99.0	99.0	8.1							3.5	7										
					Middle	7.8	0.6	199	16.1	7.7	7.7	32.7	32.7	98.8	98.8	8.0							3.5	3										
						7.8	0.6	218	16.2	7.7	7.7	32.6	32.7	98.8	98.8	8.0							3.5	6										
						7.8	0.6	218	16.2	7.7	7.7	32.6	32.7	98.8	98.8	8.0							3.4	7										
C2	Cloudy	Rough	12:50	11.3	Surface	1.0	0.9	167	20.3	8.0	8.0	24.4	23.7	90.4	90.5	7.1	7.1	6.9	4.4	6	825694	806945	1.0	1.0	171	20.3	8.0	8.0	22.9	23.7	90.5	7.2	3.1	4
						5.7	0.6	149	19.7	8.0	8.0	28.8	28.8	90.3	90.3	7.0							3.1	6										
						5.7	0.7	157	19.7	8.0	8.0	28.8	28.8	90.3	90.3	7.0							4.0	5										
					Middle	10.3	0.6	170	19.5	8.0	8.0	29.6	29.6	90.1	90.1	6.9							4.1	5										
						10.3	0.7	178	19.5	8.0	8.0	29.6	29.6	90.1	90.1	6.9							4.1	5										
						10.3	0.7	178	19.5	8.0	8.0	29.6	29.6	90.1	90.1	6.9							4.1	5										
C3	Cloudy	Rough	10:40	13.3	Surface	1.0	0.3	96	19.8	8.0	8.0	29.3	29.3	92.5	92.5	7.1	7.1	7.0	2.2	4	822107	817800	1.0	0.3	104	19.8	8.0	8.0	29.3	29.3	92.5	7.1	1.5	4
						6.7	0.3	116	19.4	8.0	8.0	30.9	30.9	91.1	91.1	7.0							1.6	3										
						6.7	0.3	120	19.4	8.0	8.0	30.9	30.9	91.1	91.1	7.0							2.5	5										
					Middle	12.3	0.2	163	19.4	8.0	8.0	31.1	31.1	91.7	91.7	7.0							2.5	3										
						12.3	0.2	174	19.4	8.0	8.0	31.1	31.1	91.7	91.7	7.0							2.5	4										
						12.3	0.2	174	19.4	8.0	8.0	31.1	31.1	91.7	91.7	7.0							2.5	4										
IM1	Cloudy	Rough	11:54	7.3	Surface	1.0	0.7	161	16.7	7.7	7.7	28.7	28.7	100.3	100.3	8.2	8.2	8.0	3.4	7	818351	806470	1.0	0.8	174	16.7	7.7	7.7	28.7	28.7	100.3	8.2	2.0	4
						3.7	0.7	159	16.5	7.7	7.7	29.0	29.0	99.4	99.4	8.1							2.1	5										
						3.7	0.7	166	16.5	7.7	7.7	29.0	29.0	99.4	99.4	8.1							3.4	8										
					Middle	6.3	1.0	138	16.3	7.7	7.7	31.3	31.3	98.8	98.8	8.0							3.5	8										
						6.3	1.1	151	16.3	7.7	7.7	31.3	31.3	98.8	98.8	8.0							3.5	8										
						6.3	1.1	151	16.3	7.7	7.7	31.3	31.3	98.8	98.8	8.0							4.6	10										
IM2	Cloudy	Rough	12:02	8.2	Surface	1.0	0.8	164	16.8	7.7	7.7	28.3	28.3	100.5	100.5	8.2	8.2	8.1	3.9	6	818861	806191	1.0	0.8	169	16.8	7.7	7.7	28.3	28.3	100.5	8.2	6.4	4
						4.1	0.7	167	16.4	7.7	7.7	30.0	30.0	100.0	100.0	8.1							6.6	5										
						4.1	0.7	183	16.4	7.7	7.7	30.0	30.0	100.0	100.0	8.1							2.3	8										
					Middle	7.2	0.7	164	16.2	7.8	7.8	31.1	31.1	99.4	99.4	8.1							2.4	7										
						7.2	0.7	172	16.2	7.8	7.8	31.1	31.1	99.3	99.3	8.1							2.8	7										
						7.2	0.7	172	16.2	7.8	7.8	31.1	31.1	99.3	99.3	8.1							2.8	7										
IM3	Cloudy	Rough	12:11	8.4	Surface	1.0	0.8	186	17.1	7.7	7.7	26.6	26.6	100.0	100.1	8.2	8.2	8.0	2.8	7	819415	806007	1.0	0.8	199	17.0	7.7	7.7	26.6	26.6	100.1	8.2	2.3	5
						4.2	0.8	193	16.4	7.7	7.7	29.9	29.9	99.5	99.5	8.1							2.3	6										
						4.2	0.8	202	16.4	7.7	7.7	29.9	29.9	99.5	99.5	8.1							3.0	7										
					Middle	7.4	0.7	179	16.3	7.7	7.7	31.7	31.7	99.0	99.0	8.0							3.0	6										
						7.4	0.7	194	16.4	7.7	7.7	31.6	31.6	99.0	99.0	8.0							3.0	8										
						7.4	0.7	194	16.4	7.7	7.7	31.6	31.6	99.0	99.0	8.0							2.9	8										
IM4	Cloudy	Rough	12:21	7.8	Surface	1.0	0.5	184	17.2	7.7	7.7	25.9	25.9	98.8	98.8	8.1	8.1	7.8	2.7	6	819559	805048	1.0	0.6	200	17.2	7.7	7.7	25.9	25.9	98.8	8.1	2.3	5
						3.9	0.5	187	16.7	7.7	7.7	27.8	27.8	98.6	98.6	8.1							2.3	5										
						3.9	0.5	194	16.7	7.7	7.7	27.8	27.8	98.6	98.6	8.1							2.7	7										
					Middle	6.8	0.5	183	16.3	7.7	7.7	31.9	31.8	97.1	97.2	7.8							2.8	6										
						6.8	0.5	194	16.6	7.7	7.7	31.7	31.8	97.2	97.2	7.8							3.0	8										
						6.8	0.5	194	16.6	7.7	7.7	31.7	31.8	97.2	97.2	7.8							3.0	6										
IM5	Cloudy	Rough	12:34	6.8	Surface	1.0	1.0	169	17.2	7.6	7.6	25.3	25.3	97.3	97.3	8.0	8.0	7.9	5.6	5	820550	804910	1.0	1.1	184	17.2	7.6	7.6	25.3	25.3	97.3	8.0	2.9	3
						3.4	1.0	184	16.4	7.7	7.7	30.2	30.2	97.8	97.8	8.0							3.0	3										
						3.4	1.0	195	16.4	7.7	7.7	30.2	30.2	97.9	97.9	8.0							6.1	4										
					Middle	5.8	0.9	198	16.3	7.7	7.7	31.7	31.7	99.0	99.0	7.9							6.2	4										
						5.8	0.9	198	16.3	7.7	7.7	31.7	31.7	99.0	99.0	7.9							6.2	4										
						5.8	0.9	206	16.3	7.7	7.7	31.7	31.7	98.0	98.0	7.9							7.7	6										
IM6	Cloudy	Rough	12:47	7.0	Surface	1.0	1.0	169	17.0	7.7	7.7	25.8	25.8	96.6	96.6	8.0	8.1	7.9	6.6	4	821059	805836	1.0	1.1	177	17.0	7.7	7.7	25.8	25.8	96.6	8.0	3.5	4
						3.5	0.9	180	16.8	7.7	7.7	26.1	26.1	97.7	97.7	8.1							3.5	3										
						3.5	0.9	187	16.7	7.7	7.7	26.1	26.1	97.7	97.7	8.1							7.0	3										
					Middle	6.0	0.9	170	16.4	7.7	7.7	30.9	30.9	97.6	97.6	7.9							7.2	3										
						6.0	0.9	170	16.4	7.7	7.7	30.9	30.9	97.6	97.6	7.9							9.2	6										
						6.0	0.9	181	16.4	7.7	7.7	30.9	30.9	97.7	97.7	7.9							9.0	7										
IM7	Cloudy	Rough	12:56	8.0	Surface	1.0	0.8	169	17.0	7.7	7.7	25.4	25.4	96.8	96.8	8.0	8.0	7.9	5.4	7	821367	806840	1.0	0.8	172	17.0	7.7	7.7	25.4	25.4	96.8	8.0	4.3	4
						4.0	0.6	174	16.6	7.7	7.7	28.4	28.4	97.3	97.3	8.0							4.4	4										
						4.0	0.6	182	16.6	7.7	7.7	28.4	28.4	97.4	97.4	8.0							5.9	4										
					Middle	7.0	0.6	179	16.5	7.7	7.7	31.1	31.1	97.6	97.6	7.9							5.9	4										
						7.0	0.6	183	16.5	7.7	7.7	31.1	31.1	97.6	97.6	7.9							6.0	12										
						7.0	0.6	183	16.5	7.7	7.7	31.1	31.1	97.7	97.7	7.9							6.0	11										
IM8	Cloudy	Rough	12:13	8.4	Surface	1.0	0.6	140	20.3	8.0	8.0	23.6	23.4	97.8	97.8	7.7	7.6	7.5	4.2	4	821682	807841	1.0	0.6	150	20.3	8.0	8.0	23.2	23.4	97.8	7.7	3.0	3
						4.2	0.5	138	20.0	8.0	8.0	26.4	26.4	96.6	96.6	7.5							3.8	3										
						4.2	0.5	140	20.0	8.0	8.0	26.4	26.4	96.5	96.5	7.5							3.9	4										
					Middle	7.4	0.5	134	19.8	8.0	8.0	27.9	27.9	96.3	96.3	7.5							5.7	4										
						7.4	0.5	141	19.8	8.0	8.0	27.9	27.9	96.3	96.3	7.5							5.7	4										
						7.4	0.5	141	19.8	8.0	8.0	27.9	27.9	96.3	96.3	7.5							5.8	4										

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)				
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA								
IM9	Cloudy	Rough	12:02	7.4	Surface	1.0	0.6	112	20.8	20.8	8.0	8.0	21.9	21.9	95.8	95.8	7.5	7.5	3.0	4	4	822076	808820					
						1.0	0.6	114	20.8	20.8	8.0	8.0	21.9	21.9	95.8	95.8	7.6	7.6	3.0	5								
					Middle	3.7	0.7	98	20.0	20.0	8.0	8.0	26.4	26.4	94.5	94.5	7.4	7.4	4.9	3								
						3.7	0.7	103	20.0	20.0	8.0	8.0	26.4	26.4	94.5	94.5	7.4	7.4	5.0	4								
					Bottom	6.4	0.5	94	19.8	19.8	8.0	8.0	27.5	27.5	94.1	94.1	7.3	7.3	7.1	3								
						6.4	0.6	101	19.8	19.8	8.0	8.0	27.5	27.5	94.1	94.1	7.3	7.3	7.2	3								
IM10	Cloudy	Rough	11:53	7.7	Surface	1.0	0.7	98	20.4	20.4	8.0	8.0	24.2	24.2	96.4	96.4	7.6	7.6	2.9	4	3	822244	809854					
						1.0	0.7	105	20.4	20.4	8.0	8.0	24.2	24.2	96.4	96.4	7.6	7.6	3.0	3								
					Middle	3.9	0.6	110	19.9	19.9	8.0	8.0	27.3	27.3	94.8	94.8	7.4	7.4	3.9	4								
						3.9	0.6	110	19.9	19.9	8.0	8.0	27.3	27.3	94.7	94.7	7.4	7.4	3.9	3								
					Bottom	6.7	0.5	111	19.9	19.9	8.0	8.0	27.8	27.8	94.9	94.9	7.4	7.4	5.2	3								
						6.7	0.5	119	19.9	19.9	8.0	8.0	27.7	27.8	94.9	94.9	7.4	7.4	5.2	3								
IM11	Cloudy	Rough	11:42	8.0	Surface	1.0	0.5	122	20.4	20.4	8.0	8.0	25.4	25.4	95.2	95.2	7.4	7.4	4.6	4	4	821481	810555					
						1.0	0.5	125	20.4	20.4	8.0	8.0	25.4	25.4	95.2	95.2	7.4	7.4	4.7	4								
					Middle	4.0	0.4	96	20.1	20.1	8.0	8.0	27.3	27.3	94.0	94.0	7.3	7.3	7.3	3								
						4.0	0.4	102	20.1	20.1	8.0	8.0	27.3	27.3	94.0	94.0	7.3	7.3	7.1	4								
					Bottom	7.0	0.3	105	19.8	19.8	8.0	8.0	28.4	28.4	92.6	92.6	7.2	7.2	8.6	5								
						7.0	0.3	109	19.8	19.8	8.0	8.0	28.4	28.4	92.6	92.6	7.1	7.1	8.8	5								
IM12	Cloudy	Rough	11:31	9.3	Surface	1.0	0.6	89	20.5	20.5	8.0	8.0	23.6	23.6	94.3	94.3	7.4	7.4	4.3	3	3	821169	811536					
						1.0	0.6	89	20.5	20.5	8.0	8.0	23.5	23.6	94.3	94.3	7.4	7.4	4.1	3								
					Middle	4.7	0.4	102	19.7	19.7	8.0	8.0	28.7	28.8	91.0	91.0	7.0	7.0	5.0	3								
						4.7	0.5	110	19.7	19.7	8.0	8.0	28.8	28.8	90.9	91.0	7.0	7.0	5.0	4								
					Bottom	8.3	0.3	124	19.6	19.6	8.0	8.0	29.2	29.2	89.0	89.0	6.9	6.9	7.4	4								
						8.3	0.4	135	19.6	19.6	8.0	8.0	29.2	29.2	89.0	89.0	6.9	6.9	7.4	3								
SR2	Cloudy	Rough	11:04	4.9	Surface	1.0	0.2	108	20.3	20.3	8.0	8.0	25.6	25.6	95.6	95.6	7.4	7.4	3.7	4	4	821456	814175					
						1.0	0.2	111	20.3	20.3	8.0	8.0	25.6	25.6	95.6	95.6	7.4	7.4	3.7	4								
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-
					Bottom	3.9	0.2	128	20.1	20.1	8.0	8.0	26.7	26.7	96.3	96.3	7.5	7.5	3.3	4								
						3.9	0.2	133	20.1	20.1	8.0	8.0	26.7	26.7	96.3	96.3	7.5	7.5	3.4	3								
SR3	Cloudy	Rough	12:20	8.9	Surface	1.0	0.5	145	20.7	20.7	7.9	7.9	21.6	21.6	91.6	91.6	7.2	7.2	3.4	5	4	822133	807572					
						1.0	0.5	147	20.7	20.7	7.9	7.9	21.6	21.6	91.6	91.6	7.2	7.2	3.5	4								
					Middle	4.5	0.4	158	19.9	19.9	7.9	7.9	26.4	26.4	89.0	89.0	6.9	6.9	4.9	4								
						4.5	0.4	171	19.9	19.9	7.9	7.9	26.4	26.4	89.0	89.0	6.9	6.9	5.1	3								
					Bottom	7.9	0.5	127	19.8	19.8	8.0	8.0	27.5	27.5	92.4	92.4	7.2	7.2	7.2	3								
						7.9	0.5	132	19.8	19.8	8.0	8.0	27.5	27.5	92.4	92.4	7.2	7.2	7.4	3								
SR4A	Cloudy	Calm	11:07	9.4	Surface	1.0	0.4	83	16.8	16.8	7.7	7.7	28.3	28.3	99.9	99.9	8.2	8.2	3.7	3	5	817196	807805					
						1.0	0.5	86	16.8	16.8	7.7	7.7	28.3	28.3	99.9	99.9	8.2	8.2	3.7	4								
					Middle	4.7	0.4	81	16.7	16.7	7.7	7.7	28.5	28.5	99.4	99.4	8.1	8.1	4.7	4								
						4.7	0.4	85	16.7	16.7	7.7	7.7	28.5	28.5	99.3	99.3	8.1	8.1	4.8	4								
					Bottom	8.4	0.4	100	16.6	16.6	7.7	7.7	29.0	29.0	99.0	99.0	8.1	8.1	6.4	6								
						8.4	0.4	109	16.6	16.6	7.7	7.7	29.0	29.0	99.0	99.0	8.1	8.1	6.4	7								
SR5A	Cloudy	Calm	10:47	4.5	Surface	1.0	0.2	110	17.1	17.1	7.7	7.7	29.3	29.3	99.1	99.1	8.0	8.0	7.0	9	9	816592	810714					
						1.0	0.2	115	17.1	17.1	7.7	7.7	29.3	29.3	99.1	99.1	8.0	8.0	6.9	9								
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	
					Bottom	3.5	0.1	76	17.2	17.2	7.7	7.7	29.4	29.4	99.5	99.5	8.0	8.0	7.4	8								
						3.5	0.1	76	17.2	17.2	7.7	7.7	29.4	29.4	99.5	99.5	8.0	8.0	7.4	10								
SR6	Cloudy	Calm	10:23	4.3	Surface	1.0	0.1	102	16.7	16.7	7.6	7.6	28.6	28.6	97.3	97.3	8.0	8.0	3.9	3	7	817912	814665					
						1.0	0.2	102	16.7	16.7	7.6	7.6	28.6	28.6	97.3	97.3	8.0	8.0	4.0	5								
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	
					Bottom	3.3	0.2	117	16.8	16.8	7.6	7.6	28.8	28.8	98.2	98.2	8.0	8.0	4.9	10								
						3.3	0.2	123	16.8	16.8	7.6	7.6	28.8	28.8	98.2	98.2	8.0	8.0	4.9	9								
SR7	Cloudy	Rough	09:57	18.3	Surface	1.0	0.2	215	19.4	19.4	7.9	7.9	31.1	31.1	90.1	90.1	6.9	6.9	2.6	4	3	823632	823730					
						1.0	0.2	223	19.4	19.4	7.9	7.9	31.1	31.1	90.1	90.1	6.9	6.9	2.6	4								
					Middle	9.2	0.2	139	19.3	19.3	7.9	7.9	31.5	31.5	90.1	90.1	6.9	6.9	2.7	3								
						9.2	0.2	147	19.3	19.3	7.9	7.9	31.5	31.5	90.1	90.1	6.9	6.9	2.7	2								
					Bottom	17.3	0.2	174	19.3	19.3	7.8	7.8	31.6	31.6	91.5	91.5	7.0	7.0	3.4	3								
						17.3	0.2	174	19.3	19.3	7.8	7.8	31.6	31.6	91.5	91.5	7.0	7.0	3.5	3								
SR8	Cloudy	Rough	11:23	5.8	Surface	1.0	0.3	147	20.4	20.4	8.0	8.0	26.1	26.1	95.0	95.0	7.4	7.4	4.3	4	5	820410	811574					
						1.0	0.3	155	20.4	20.4	8.0	8.0	26.1	26.1	95.0	95.0	7.4	7.4	4.3	5								
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	
						2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	
					Bottom	4.8	0.3	138	19.7	19.7	8.0	8.0	29.0	29.0	94.4	94.4	7.3	7.3	4.3	5								
						4.8	0.3	146	19.7	19.7	8.0	8.0	29.0	29.0	94.4	94.4	7.3	7.3	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

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 March 17 during Mid-Flood Tide

	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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA		
C1	Sunny	Moderate	07:15	8.9	Surface	1.0	0.8	58	15.8	15.8	7.8	7.8	33.4	33.4	98.5	98.5	8.0	8.0	9.9	17.4	13	815625	804227	
						1.0	0.9	60	15.8	7.8	7.8	33.4	33.4	98.5	98.5	8.0								
						4.5	0.8	68	15.7	7.8	7.8	34.5	34.5	98.1	98.1	7.9								
					4.5	0.9	72	15.7	7.8	7.8	34.5	34.5	98.1	98.1	7.9									
					7.9	0.9	56	15.7	7.8	7.8	34.9	34.9	97.9	97.9	7.9									
					7.9	0.9	57	15.7	7.8	7.8	34.9	34.9	97.9	97.9	7.9									
C2	Fine	Moderate	08:17	12.6	Surface	1.0	0.4	269	19.5	19.5	7.9	7.9	27.0	27.0	89.3	89.3	7.0	7.0	10.3	14.6	11	825663	806960	
						1.0	0.4	290	19.5	7.9	7.9	27.0	27.0	89.3	89.3	7.0								
						6.3	0.3	146	19.4	7.9	7.9	27.9	27.9	90.3	90.3	7.0								
					6.3	0.3	155	19.4	7.9	7.9	27.9	27.9	90.3	90.3	7.0									
					11.6	0.3	73	19.3	8.0	8.0	28.8	28.8	91.4	91.4	7.1									
					11.6	0.3	74	19.3	7.9	8.0	28.8	28.8	91.4	91.4	7.1									
C3	Fine	Calm	06:10	11.5	Surface	1.0	0.6	269	19.3	19.3	8.0	8.0	30.8	30.8	91.1	91.1	7.0	7.0	7.5	11.2	9	822093	817804	
						1.0	0.6	271	19.3	8.0	8.0	30.8	30.8	91.1	91.1	7.0								
						5.8	0.5	270	19.2	7.9	7.9	30.8	30.8	90.7	90.7	7.0								
					5.8	0.6	289	19.2	7.9	7.9	30.8	30.8	90.7	90.7	7.0									
					10.5	0.5	271	19.2	7.9	7.9	30.9	30.9	90.7	90.7	7.0									
					10.5	0.5	276	19.2	7.9	7.9	30.9	30.9	90.8	90.8	7.0									
IM1	Sunny	Moderate	07:31	8.1	Surface	1.0	0.5	139	15.8	15.8	7.8	7.8	33.8	33.9	97.8	97.9	7.9	7.9	15.1	18.9	19	818361	806474	
						1.0	0.5	145	15.8	7.8	7.8	33.9	33.9	97.9	97.9	7.9								
						4.1	0.5	53	15.8	7.8	7.8	34.0	34.0	97.9	98.0	7.9								
					4.1	0.6	56	15.8	7.8	7.8	34.0	34.0	98.0	98.0	7.9									
					7.1	0.5	54	15.7	7.8	7.8	34.5	34.5	97.9	97.9	7.9									
					7.1	0.5	56	15.7	7.8	7.8	34.5	34.5	97.9	97.9	7.9									
IM2	Sunny	Moderate	07:37	8.9	Surface	1.0	0.7	200	15.8	15.8	7.8	7.8	34.4	34.4	98.9	98.9	7.9	7.9	11.0	16.2	16	818842	806176	
						1.0	0.7	201	15.8	7.8	7.8	34.4	34.4	98.9	98.9	7.9								
						4.5	0.7	115	15.8	7.8	7.8	34.4	34.4	98.6	98.7	7.9								
					4.5	0.8	121	15.8	7.8	7.8	34.4	34.4	98.7	98.7	7.9									
					7.9	0.7	105	15.7	7.8	7.8	34.8	34.8	98.4	98.4	7.9									
					7.9	0.7	109	15.7	7.8	7.8	34.8	34.8	98.4	98.4	7.9									
IM3	Sunny	Moderate	07:44	9.1	Surface	1.0	0.8	119	15.8	15.8	7.8	7.8	34.8	34.8	99.1	99.1	7.9	7.9	14.1	17.2	19	819394	806035	
						1.0	0.8	125	15.8	7.8	7.8	34.8	34.8	99.1	99.1	7.9								
						4.6	0.8	100	15.8	7.8	7.8	34.9	34.9	98.9	98.9	7.9								
					4.6	0.8	107	15.8	7.8	7.8	34.9	34.9	98.8	98.8	7.9									
					8.1	0.7	110	15.8	7.8	7.8	34.9	34.9	98.8	98.8	7.9									
					8.1	0.8	118	15.8	7.8	7.8	34.9	34.9	98.8	98.8	7.9									
IM4	Sunny	Moderate	07:54	8.6	Surface	1.0	0.7	116	15.9	15.9	7.8	7.8	34.3	34.3	99.1	99.1	7.9	7.9	11.5	20.6	20	819559	805048	
						1.0	0.8	123	15.9	7.8	7.8	34.3	34.3	99.0	99.0	7.9								
						4.3	0.8	126	15.7	7.8	7.8	35.2	35.2	98.5	98.5	7.9								
					4.3	0.9	134	15.7	7.8	7.8	35.2	35.2	98.5	98.5	7.9									
					7.6	1.0	157	15.7	7.8	7.8	35.3	35.3	98.1	98.1	7.9									
					7.6	1.1	170	15.7	7.8	7.8	35.3	35.3	98.1	98.1	7.9									
IM5	Sunny	Moderate	08:01	7.5	Surface	1.0	0.7	149	15.9	15.9	7.8	7.8	34.8	34.8	99.5	99.5	7.9	7.9	11.4	16.6	18	820569	804917	
						1.0	0.7	153	15.9	7.8	7.8	34.8	34.8	99.4	99.4	7.9								
						3.8	0.7	117	15.9	7.8	7.8	34.9	34.9	99.1	99.1	7.9								
					3.8	0.8	118	15.9	7.8	7.8	34.9	34.9	99.1	99.1	7.9									
					6.5	0.8	134	15.7	7.8	7.8	35.5	35.5	98.7	98.7	7.9									
					6.5	0.8	139	15.7	7.8	7.8	35.5	35.5	98.7	98.7	7.9									
IM6	Sunny	Moderate	08:10	7.2	Surface	1.0	0.5	80	15.9	15.9	7.8	7.8	35.0	35.0	99.2	99.2	7.9	7.9	11.1	20.4	25	821076	805820	
						1.0	0.5	84	15.9	7.8	7.8	35.0	35.0	99.2	99.2	7.9								
						3.6	0.5	78	15.8	7.8	7.8	35.1	35.1	99.0	99.0	7.9								
					3.6	0.5	78	15.8	7.8	7.8	35.1	35.1	99.0	99.0	7.9									
					6.2	0.4	105	15.8	7.9	7.9	35.2	35.2	98.6	98.6	7.9									
					6.2	0.4	112	15.8	7.9	7.9	35.2	35.2	98.6	98.6	7.9									
IM7	Sunny	Moderate	08:20	8.6	Surface	1.0	0.7	129	15.9	15.9	7.8	7.8	34.8	34.8	98.9	98.9	7.9	7.9	15.2	21.2	21	821350	806850	
						1.0	0.8	133	15.9	7.8	7.8	34.8	34.8	98.9	98.9	7.9								
						4.3	0.8	102	15.9	7.8	7.8	34.8	34.8	98.7	98.8	7.9								
					4.3	0.9	105	15.9	7.8	7.8	34.8	34.8	98.7	98.7	7.9									
					7.6	0.7	103	15.8	7.8	7.8	35.0	35.0	98.7	98.7	7.9									
					7.6	0.7	110	15.8	7.8	7.8	35.0	35.0	98.7	98.7	7.9									
IM8	Fine	Moderate	07:34	9.1	Surface	1.0	0.4	140	19.3	19.3	8.0	8.0	29.6	29.6	93.7	93.7	7.3	7.3	14.8	18.3	19	821678	807840	
						1.0	0.4	141	19.3	8.0	8.0	29.6	29.6	93.6	93.6	7.3								
						4.6	0.5	78	19.2	8.0	8.0	29.8	29.8	93.7	93.7	7.3								
					4.6	0.5	80	19.2	8.0	8.0	29.8	29.8	93.7	93.7	7.3									
					8.1	0.5	67	19.2	8.0	8.0	29.9	29.9	94.0	94.0	7.3									
					8.1	0.5	68	19.2	8.0	8.0	29.9	29.9	94.0	94.0	7.3									

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)				
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA						
IM9	Fine	Moderate	07:25	7.9	Surface	1.0	0.5	251	19.5	19.5	8.0	8.0	27.9	27.9	91.0	91.1	7.1	7.1	9.8	7.1	12	15	822077	808822				
						1.0	0.5	252	19.4	19.5	8.0	8.0	27.9	27.9	91.1	91.1	7.1	7.1	9.6	7.1	13							
					Middle	4.0	0.4	254	19.3	19.3	8.0	8.0	28.3	28.3	91.1	91.1	7.1	7.1	14.8	7.1	14				7.1	14.5		
						4.0	0.5	258	19.3	19.3	8.0	8.0	28.3	28.3	91.0	91.1	7.1	7.1	14.9	7.1	16							
					Bottom	6.9	0.4	244	19.3	19.3	8.0	8.0	28.7	28.7	92.4	92.5	7.2	7.2	19.0	7.2	16				7.2	19.0		
						6.9	0.4	248	19.3	19.3	8.0	8.0	28.7	28.7	92.5	92.5	7.2	7.2	19.0	7.2	16							
IM10	Fine	Moderate	07:16	7.7	Surface	1.0	0.5	268	19.3	19.3	8.0	8.0	29.6	29.6	93.2	93.2	7.2	7.2	12.1	7.2	15	18	822248	809857				
						1.0	0.5	292	19.3	19.3	8.0	8.0	29.6	29.6	93.2	93.2	7.2	7.2	12.1	7.2	15							
					Middle	3.9	0.4	264	19.3	19.3	8.0	8.0	29.7	29.7	93.2	93.2	7.2	7.2	14.2	7.2	18				7.2	13.5		
						3.9	0.4	267	19.3	19.3	8.0	8.0	29.7	29.7	93.2	93.2	7.2	7.2	14.2	7.2	17							
					Bottom	6.7	0.4	233	19.3	19.3	7.9	7.9	29.7	29.7	94.0	94.0	7.3	7.3	14.2	7.3	21				7.3	14.2		
						6.7	0.4	240	19.3	19.3	7.9	7.9	29.7	29.7	94.0	94.0	7.3	7.3	14.2	7.3	21							
IM11	Fine	Moderate	07:07	9.4	Surface	1.0	0.5	249	19.3	19.3	8.0	8.0	30.0	30.0	94.3	94.3	7.3	7.3	12.4	7.3	19	20	821516	810560				
						1.0	0.5	268	19.3	19.3	8.0	8.0	30.0	30.0	94.3	94.3	7.3	7.3	12.6	7.3	18							
					Middle	4.7	0.4	256	19.3	19.3	8.0	8.0	30.0	30.0	94.2	94.2	7.3	7.3	13.4	7.3	18				7.3	13.9		
						4.7	0.5	271	19.3	19.3	8.0	8.0	30.0	30.0	94.2	94.2	7.3	7.3	13.4	7.3	18							
					Bottom	8.4	0.4	246	19.3	19.3	7.9	7.9	30.0	30.0	95.6	95.7	7.4	7.4	15.7	7.4	24				7.4	15.7		
						8.4	0.4	258	19.2	19.3	7.9	7.9	30.0	30.0	95.7	95.7	7.4	7.4	15.7	7.4	24							
IM12	Fine	Moderate	06:59	8.5	Surface	1.0	0.7	265	19.3	19.3	8.0	8.0	29.8	29.8	93.5	93.6	7.2	7.2	10.8	7.2	14	16	821167	811502				
						1.0	0.8	282	19.3	19.3	8.0	8.0	29.8	29.8	93.6	93.6	7.2	7.2	11.2	7.2	14							
					Middle	4.3	0.7	261	19.2	19.2	8.0	8.0	30.0	30.0	93.4	93.4	7.2	7.2	18.4	7.2	14				7.2	16.1		
						4.3	0.7	271	19.2	19.2	8.0	8.0	30.0	30.0	93.4	93.4	7.2	7.2	18.4	7.2	15							
					Bottom	7.5	0.7	269	19.2	19.2	8.0	8.0	30.0	30.0	93.8	93.8	7.2	7.2	19.0	7.2	19				7.2	19.0		
						7.5	0.7	276	19.2	19.2	8.0	8.0	30.0	30.0	93.7	93.7	7.2	7.2	18.9	7.2	17							
SR2	Fine	Moderate	06:32	5.1	Surface	1.0	0.2	239	19.2	19.2	7.9	7.9	29.9	29.9	93.6	93.6	7.2	7.2	11.6	7.2	15	15	821478	814179				
						1.0	0.2	247	19.2	19.2	7.9	7.9	29.9	29.9	93.6	93.6	7.2	7.2	11.7	7.2	14							
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	7.2	11.9
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Bottom	4.1	0.2	209	19.2	19.2	7.9	7.9	30.0	30.0	93.7	93.8	7.3	7.3	12.1	7.3	16				7.3	12.1		
						4.1	0.2	229	19.2	19.2	7.9	7.9	30.0	30.0	93.8	93.8	7.3	7.3	12.0	7.3	15							
SR3	Fine	Moderate	07:55	9.9	Surface	1.0	0.6	65	19.3	19.3	8.0	8.0	29.8	29.8	95.1	95.1	7.4	7.4	20.3	7.4	19	23	822161	807578				
						1.0	0.6	68	19.3	19.3	8.0	8.0	29.8	29.8	95.1	95.1	7.4	7.4	20.4	7.4	20							
					Middle	5.0	0.5	71	19.2	19.2	8.0	8.0	29.9	29.9	95.7	95.7	7.4	7.4	21.3	7.4	23				7.4	18.3		
						5.0	0.5	71	19.2	19.2	8.0	8.0	29.9	29.9	95.7	95.7	7.4	7.4	20.6	7.4	24							
					Bottom	8.9	0.4	110	19.3	19.3	7.7	7.7	29.9	29.9	98.1	98.2	7.6	7.6	14.0	7.6	25				7.6	14.0		
						8.9	0.5	120	19.3	19.3	7.7	7.7	29.8	29.8	98.2	98.2	7.6	7.6	13.4	7.6	24							
SR4A	Sunny	Calm	06:50	9.7	Surface	1.0	0.3	105	15.7	15.7	7.7	7.7	32.2	32.2	96.3	96.3	7.9	7.9	8.4	7.9	12	13	817193	807822				
						1.0	0.3	112	15.7	15.7	7.7	7.7	32.2	32.2	96.3	96.3	7.9	7.9	8.3	7.9	11							
					Middle	4.9	0.3	106	15.7	15.7	7.7	7.7	32.2	32.2	96.4	96.4	7.9	7.9	8.5	7.9	12				7.9	8.6		
						4.9	0.4	107	15.7	15.7	7.7	7.7	32.2	32.2	96.4	96.4	7.9	7.9	8.5	7.9	12							
					Bottom	8.7	0.3	92	15.6	15.7	7.7	7.7	32.3	32.3	96.7	96.7	7.9	7.9	9.0	7.9	16				7.9	9.0		
						8.7	0.3	99	15.7	15.7	7.7	7.7	32.3	32.3	96.7	96.7	7.9	7.9	9.0	7.9	14							
SR5A	Fine	Calm	06:31	5.2	Surface	1.0	0.1	215	15.7	15.7	7.7	7.7	31.0	31.0	95.0	95.1	7.8	7.8	7.1	7.8	14	15	816580	810688				
						1.0	0.2	230	15.7	15.7	7.7	7.7	31.0	31.0	95.1	95.1	7.8	7.8	7.2	7.8	14							
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	7.8	7.1
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Bottom	4.2	0.1	177	15.7	15.7	7.7	7.7	31.0	31.0	96.0	96.0	7.9	7.9	7.1	7.9	17				7.9	7.1		
						4.2	0.1	177	15.7	15.7	7.7	7.7	31.0	31.0	96.0	96.0	7.9	7.9	7.1	7.9	16							
SR6	Fine	Calm	06:08	4.3	Surface	1.0	0.2	175	15.7	15.7	7.6	7.6	28.6	28.6	96.4	96.4	8.0	8.0	8.4	8.0	12	13	817903	814669				
						1.0	0.2	176	15.7	15.7	7.6	7.6	28.6	28.6	96.4	96.4	8.0	8.0	8.4	8.0	12							
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	8.0	9.4
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Bottom	3.3	0.2	164	15.7	15.7	7.5	7.5	27.5	27.5	99.4	99.5	8.4	8.4	10.3	8.4	8.4				8.4	13	8.4	10.3
						3.3	0.2	171	15.6	15.7	7.5	7.5	27.5	27.5	99.5	99.5	8.4	8.4	10.3	8.4	8.4				8.4	14		
SR7	Fine	Calm	05:34	20.0	Surface	1.0	0.2	271	19.2	19.2	7.9	7.9	30.5	30.5	90.8	90.8	7.0	7.0	4.1	7.0	6	8	823622	823735				
						1.0	0.2	287	19.2	19.2	7.9	7.9	30.5	30.5	90.8	90.8	7.0	7.0	4.2	7.0	7							
					Middle	10.0	0.2	105	19.2	19.2	7.9	7.9	30.9	30.9	90.6	90.6	7.0	7.0	7.1	7.0	7				7.0	6.0		
						10.0	0.2	112	19.2	19.2	7.9	7.9	30.9	30.9	90.6	90.6	7.0	7.0	7.2	7.0	8							
					Bottom	19.0	0.3	107	19.2	19.2	7.9	7.9	31.0	31.0	90.7	90.7	7.0	7.0	6.7	7.0	11				7.0	6.7		
						19.0	0.3	111	19.2	19.2	7.9	7.9	31.0	31.0	90.7	90.7	7.0	7.0	6.7	7.0	9							
SR8	Fine	Moderate	06:50	5.7	Surface	1.0	0.2	139	19.3	19.3	7.9	7.9	29.4	29.4	93.8	93.8	7.3	7.3	9.5	7.3	13	13	820428	811611				
						1.0	0.2	144	19.3	19.3	7.9	7.9	29.4	29.4	93.8	93.8	7.3	7.3	9.6	7.3	12							
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	7.3	9.8
						2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Bottom	4.7	0.2	148	19.2	19.2	7.9	7.9	29.8	29.8	94.5	94.5	7.3	7.3	10.1	7.3	13							

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			
C1	Sunny	Moderate	12:38	8.9	Surface	1.0	0.6	229	16.3	16.3	7.8	7.8	34.8	34.8	101.4	101.4	8.0	8.0	5.7	5.9	10	815631	804259		
						1.0	0.6				231	16.3	7.8	7.8	34.8	34.8	101.4		101.4					8.0	5.7
						4.5	0.4				195	16.3	7.8	7.8	34.9	34.9	100.7		100.7					8.0	5.8
					Middle	4.5	0.4	198	16.3	7.8	7.8	34.9	34.9	100.7	100.7	8.0	5.8	8.0	5.8						
						7.9	0.5	204	15.9	7.9	7.9	35.8	35.8	99.6	99.6	7.9	6.1								
						7.9	0.5	207	15.9	7.9	7.9	35.8	35.8	99.7	99.7	7.9	6.0								
C2	Fine	Moderate	11:33	12.3	Surface	1.0	0.2	111	19.8	19.8	8.0	8.0	27.2	27.2	92.7	92.7	7.2	7.2	7.7	14.5	13	825686	806960		
						1.0	0.3				118	19.8	8.0	8.0	27.2	27.2	92.7		92.7					7.2	7.8
						6.2	0.2				116	19.5	8.0	8.0	28.1	28.1	92.2		92.2					7.2	13.9
					Middle	6.2	0.2	117	19.5	8.0	8.0	28.1	28.1	92.2	92.2	7.2	14.0								
						11.3	0.2	200	19.3	8.0	8.0	29.7	29.7	92.2	92.2	7.1	21.7								
						11.3	0.2	212	19.3	8.0	8.0	29.7	29.7	92.2	92.2	7.1	21.7								
C3	Fine	Moderate	13:35	12.5	Surface	1.0	0.4	61	19.7	19.7	8.0	8.0	30.3	30.3	93.5	93.5	7.2	7.2	5.9	9	822127	817786			
						1.0	0.5				64	19.7	8.0	8.0	30.3	30.3	93.5		93.5				7.2	6.0	
						6.3	0.3				76	19.4	8.0	8.0	30.8	30.8	91.9		91.9				7.1	8.5	
					Middle	6.3	0.3	82	19.4	8.0	8.0	30.8	30.8	91.9	91.9	7.1	8.6								
						11.5	0.4	114	19.3	7.9	7.9	31.0	31.0	92.1	92.1	7.1	11.1								
						11.5	0.4	121	19.3	7.9	7.9	31.0	31.0	92.2	92.2	7.1	11.3								
IM1	Sunny	Moderate	12:20	7.7	Surface	1.0	0.5	202	16.1	16.1	7.8	7.8	34.7	34.7	99.6	99.6	7.9	7.9	8.2	13	818357	806442			
						1.0	0.5				217	16.1	7.8	7.8	34.7	34.7	99.5		99.5				7.9	8.1	
						3.9	0.3				194	16.1	7.8	7.8	34.7	34.7	99.4		99.4				7.9	8.3	
					Middle	3.9	0.4	204	16.1	7.8	7.8	34.7	34.7	99.4	99.4	7.9	8.3								
						6.7	0.4	157	16.0	7.8	7.8	35.1	35.1	99.2	99.2	7.9	8.4								
						6.7	0.4	170	16.0	7.8	7.8	35.0	35.0	99.3	99.3	7.9	8.3								
IM2	Sunny	Moderate	12:14	8.7	Surface	1.0	0.5	226	16.1	16.1	7.8	7.8	34.7	34.7	99.6	99.6	7.9	7.9	9.1	9.4	14	818847	806183		
						1.0	0.5				240	16.1	7.8	7.8	34.7	34.7	99.6		99.6					7.9	9.1
						4.4	0.4				200	16.0	7.8	7.8	34.8	34.8	99.3		99.3					7.9	9.6
					Middle	4.4	0.4	202	16.0	7.8	7.8	34.9	34.9	99.3	99.3	7.9	9.6								
						7.7	0.4	174	15.9	7.8	7.8	35.5	35.5	99.3	99.3	7.9	9.6								
						7.7	0.4	182	15.9	7.8	7.8	35.5	35.5	99.2	99.2	7.9	9.6								
IM3	Sunny	Moderate	12:06	8.8	Surface	1.0	0.6	194	16.3	16.3	7.8	7.8	34.7	34.7	100.6	100.6	8.0	8.0	7.6	11	819401	806006			
						1.0	0.6				210	16.3	7.8	7.8	34.7	34.7	100.6		100.6				8.0	7.6	
						4.4	0.5				158	16.2	7.8	7.8	34.8	34.8	99.8		99.8				7.9	9.5	
					Middle	4.4	0.5	161	16.2	7.8	7.8	34.9	34.9	99.8	99.8	7.9	9.6								
						7.8	0.5	140	15.8	7.8	7.8	35.8	35.8	99.0	99.0	7.9	11.6								
						7.8	0.5	152	15.8	7.8	7.8	35.8	35.8	99.0	99.0	7.9	11.4								
IM4	Sunny	Moderate	11:58	8.5	Surface	1.0	0.5	195	16.1	16.1	7.8	7.8	35.3	35.3	99.6	99.6	7.9	7.9	10.4	14	819570	805021			
						1.0	0.6				214	16.1	7.8	7.8	35.3	35.3	99.6		99.6				7.9	10.5	
						4.3	0.5				171	16.1	7.8	7.8	35.3	35.3	99.2		99.2				7.9	13.9	
					Middle	4.3	0.5	184	16.1	7.8	7.8	35.3	35.3	99.2	99.2	7.9	14.1								
						7.5	0.4	201	15.7	7.8	7.8	35.8	35.8	98.7	98.7	7.9	21.8								
						7.5	0.4	219	15.7	7.8	7.8	35.8	35.8	98.8	98.8	7.9	21.7								
IM5	Sunny	Moderate	11:51	7.4	Surface	1.0	0.5	181	16.1	16.1	7.8	7.8	35.4	35.4	99.6	99.6	7.9	7.9	11.0	17	820565	804932			
						1.0	0.5				182	16.1	7.8	7.8	35.4	35.4	99.6		99.6				7.9	10.6	
						3.7	0.5				163	16.0	7.8	7.8	35.5	35.5	99.2		99.2				7.9	12.0	
					Middle	3.7	0.5	163	16.0	7.8	7.8	35.5	35.5	99.2	99.2	7.9	12.1								
						6.4	0.5	173	15.9	7.8	7.8	35.6	35.6	99.0	99.0	7.9	11.8								
						6.4	0.5	181	15.9	7.8	7.8	35.6	35.6	99.1	99.1	7.9	11.7								
IM6	Sunny	Moderate	11:43	7.3	Surface	1.0	0.4	190	16.0	16.0	7.8	7.8	35.1	35.1	99.6	99.6	7.9	7.9	12.1	20	821073	805821			
						1.0	0.5				201	16.0	7.8	7.8	35.1	35.1	99.6		99.6				7.9	12.2	
						3.7	0.5				145	15.8	7.8	7.8	35.4	35.4	98.6		98.6				7.9	16.8	
					Middle	3.7	0.6	146	15.8	7.8	7.8	35.4	35.4	98.6	98.6	7.9	16.9								
						6.3	0.5	143	15.7	7.8	7.8	35.7	35.7	98.3	98.3	7.9	25.6								
						6.3	0.5	153	15.7	7.8	7.8	35.7	35.7	98.3	98.3	7.9	25.4								
IM7	Sunny	Moderate	11:34	8.8	Surface	1.0	0.5	165	16.1	16.1	7.8	7.8	34.6	34.6	99.6	99.6	7.9	7.9	10.1	18	821332	806845			
						1.0	0.5				167	16.1	7.8	7.8	34.6	34.6	99.6		99.6				7.9	10.1	
						4.4	0.6				92	16.0	7.8	7.8	34.7	34.7	99.1		99.1				7.9	12.6	
					Middle	4.4	0.6	99	16.0	7.8	7.8	34.7	34.7	99.1	99.1	7.9	12.7								
						7.8	0.5	112	15.8	7.8	7.8	35.2	35.2	98.8	98.8	7.9	20.1								
						7.8	0.5	119	15.8	7.8	7.8	35.2	35.2	98.8	98.8	7.9	20.6								
IM8	Fine	Rough	12:04	8.7	Surface	1.0	0.5	97	19.6	19.6	8.0	8.0	30.3	30.3	98.1	98.1	7.5	7.5	11.0	14	821704	807825			
						1.0	0.6				106	19.6	8.0	8.0	30.3	30.3	98.1		98.1				7.5	11.1	
						4.4	0.5				93	19.3	8.0	8.0	31.3	31.3	97.7		97.7				7.5	12.9	
					Middle	4.4	0.5	102	19.3	8.0	8.0	31.3	31.3	97.7	97.7	7.5	13.1								
						7.7	0.4	87	19.3	8.0	8.0	31.6	31.6	97.5	97.5	7.5	17.9								
						7.7	0.5	94	19.3	8.0	8.0	31.6	31.6	97.5	97.5	7.5	18.1								

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)			
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA					
IM9	Fine	Moderate	12:16	7.6	Surface	1.0	0.5	94	19.6	19.6	8.0	8.0	29.8	29.8	97.5	97.5	7.5	7.5	6.9	7.5	11	13	822096	808803			
						1.0	0.5	97	19.6	19.6	8.0	8.0	29.8	29.8	97.5	97.5	7.5	7.5	7.0	7.5	10						
					Middle	3.8	0.6	94	19.3	19.3	8.0	8.0	31.4	31.4	97.9	97.9	7.5	7.5	13.1	7.5	11.9				13		
						3.8	0.6	102	19.3	19.3	8.0	8.0	31.4	31.4	97.8	97.8	7.5	7.5	13.3	7.5	13						
					Bottom	6.6	0.5	95	19.3	19.3	8.0	8.0	31.6	31.6	97.6	97.6	7.5	7.5	15.6	7.5	13						
						6.6	0.6	100	19.3	19.3	8.0	8.0	31.6	31.6	97.6	97.6	7.5	7.5	15.6	7.5	14						
IM10	Fine	Moderate	12:28	7.9	Surface	1.0	0.5	114	19.8	19.8	8.0	8.0	29.4	29.4	96.4	96.4	7.4	7.4	11.3	7.4	11	12	822242	809832			
						1.0	0.6	114	19.8	19.8	8.0	8.0	29.4	29.4	96.4	96.4	7.4	7.4	11.6	7.4	12						
					Middle	4.0	0.6	96	19.6	19.6	8.0	8.0	30.5	30.5	95.7	95.7	7.3	7.3	11.9	7.3	11.9						
						4.0	0.6	98	19.6	19.6	8.0	8.0	30.5	30.5	95.7	95.7	7.3	7.3	11.9	7.3	12						
					Bottom	6.9	0.5	97	19.5	19.5	8.0	8.0	30.7	30.7	95.3	95.3	7.3	7.3	17.4	7.3	13						
						6.9	0.5	101	19.5	19.5	8.0	8.0	30.7	30.7	95.3	95.3	7.3	7.3	17.4	7.3	13						
IM11	Fine	Moderate	12:37	7.6	Surface	1.0	0.5	111	19.7	19.7	8.0	8.0	29.2	29.2	95.1	95.1	7.3	7.3	9.1	7.3	12	12	821494	810527			
						1.0	0.5	116	19.7	19.7	8.0	8.0	29.2	29.2	95.1	95.1	7.3	7.3	9.2	7.3	12						
					Middle	3.8	0.5	105	19.5	19.5	8.0	8.0	29.5	29.5	94.8	94.8	7.3	7.3	11.9	7.3	11						
						3.8	0.5	105	19.5	19.5	8.0	8.0	29.5	29.5	94.8	94.8	7.3	7.3	12.1	7.3	11						
					Bottom	6.6	0.4	95	19.3	19.3	8.0	8.0	30.1	30.1	95.0	95.0	7.3	7.3	23.9	7.3	13						
						6.6	0.4	100	19.3	19.3	8.0	8.0	30.1	30.1	95.0	95.0	7.3	7.3	23.7	7.3	15						
IM12	Fine	Moderate	12:47	9.6	Surface	1.0	0.6	98	19.6	19.6	8.0	8.0	29.1	29.1	94.7	94.7	7.3	7.3	7.3	7.3	11	10	821162	811530			
						1.0	0.6	100	19.6	19.6	8.0	8.0	29.1	29.1	94.7	94.7	7.3	7.3	7.3	7.3	10						
					Middle	4.8	0.5	114	19.3	19.3	8.0	8.0	29.7	29.7	93.8	93.8	7.3	7.3	11.5	7.3	10						
						4.8	0.5	121	19.3	19.3	8.0	8.0	29.7	29.7	93.8	93.8	7.3	7.3	11.6	7.3	10						
					Bottom	8.6	0.4	109	19.3	19.3	7.9	7.9	29.8	29.8	95.0	95.0	7.3	7.3	14.3	7.3	9						
						8.6	0.5	112	19.3	19.3	7.8	7.8	29.8	29.8	95.1	95.1	7.3	7.3	14.3	7.3	9						
SR2	Fine	Moderate	13:13	4.7	Surface	1.0	0.4	79	20.0	20.0	8.0	8.0	29.5	29.5	96.7	96.7	7.4	7.4	6.4	7.4	9	8	821468	814170			
						1.0	0.4	83	20.0	20.0	8.0	8.0	29.5	29.5	96.7	96.7	7.4	7.4	6.5	7.4	8						
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	3.7	0.3	65	19.6	19.6	7.9	7.9	29.9	29.9	96.5	96.5	7.4	7.4	4.7	7.4	4.7				7.4	8	
						3.7	0.4	67	19.6	19.6	7.9	7.9	29.9	29.9	96.5	96.5	7.4	7.4	4.7	7.4	4.7				7.4	7	
SR3	Fine	Moderate	11:56	9.7	Surface	1.0	0.5	130	19.8	19.8	8.0	8.0	27.7	27.7	95.3	95.4	7.4	7.4	7.7	7.4	9	10	822154	807573			
						1.0	0.5	142	19.8	19.8	8.0	8.0	27.7	27.7	95.4	95.4	7.4	7.4	7.8	7.4	8						
					Middle	4.9	0.5	105	19.6	19.6	8.0	8.0	30.4	30.4	97.6	97.6	7.5	7.5	9.9	7.5	9						
						4.9	0.5	106	19.6	19.6	8.0	8.0	30.3	30.3	97.6	97.6	7.5	7.5	10.0	7.5	9						
					Bottom	8.7	0.4	111	19.4	19.4	8.0	8.0	31.3	31.3	97.3	97.3	7.4	7.4	11.3	7.4	10						
						8.7	0.5	119	19.4	19.4	8.0	8.0	31.2	31.2	97.3	97.3	7.4	7.4	11.3	7.4	12						
SR4A	Sunny	Moderate	13:03	8.5	Surface	1.0	0.3	157	16.3	16.3	7.8	7.8	34.6	34.6	99.7	99.7	7.9	7.9	8.3	7.9	11	11	817185	807814			
						1.0	0.3	169	16.3	16.3	7.8	7.8	34.6	34.6	99.7	99.7	7.9	7.9	8.2	7.9	11						
					Middle	4.3	0.4	124	16.0	16.0	7.8	7.8	34.8	34.8	98.5	98.5	7.9	7.9	10.2	7.9	10						
						4.3	0.4	132	16.0	16.0	7.8	7.8	34.8	34.8	98.5	98.5	7.9	7.9	10.3	7.9	10						
					Bottom	7.5	0.3	136	15.8	15.8	7.8	7.8	35.0	35.0	98.7	98.7	7.9	7.9	10.8	7.9	11						
						7.5	0.3	143	15.8	15.8	7.8	7.8	35.0	35.0	98.8	98.8	7.9	7.9	10.7	7.9	12						
SR5A	Sunny	Calm	13:22	5.5	Surface	1.0	0.2	172	16.3	16.3	7.8	7.8	33.6	33.6	98.9	98.9	7.9	7.9	12.5	7.9	13	13	816573	810713			
						1.0	0.2	179	16.3	16.3	7.8	7.8	33.6	33.6	98.8	98.8	7.9	7.9	12.6	7.9	12						
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	4.5	0.2	136	16.1	16.1	7.8	7.8	34.3	34.3	101.6	101.6	8.1	8.1	14.3	8.1	13						
						4.5	0.2	139	16.1	16.1	7.8	7.8	34.2	34.3	101.9	101.8	8.1	8.1	13.7	8.1	15						
SR6	Sunny	Calm	13:44	4.3	Surface	1.0	0.2	122	16.5	16.5	7.8	7.8	33.3	33.3	97.3	97.3	7.8	7.8	9.4	7.8	10	10	817913	814681			
						1.0	0.2	125	16.5	16.5	7.8	7.8	33.3	33.3	97.3	97.3	7.8	7.8	9.5	7.8	10						
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	3.3	0.2	148	16.0	16.0	7.8	7.8	33.7	33.7	100.6	100.6	8.1	8.1	11.1	8.1	10						
						3.3	0.2	150	16.0	16.0	7.8	7.8	33.7	33.7	101.1	100.9	8.1	8.1	10.8	8.1	9						
SR7	Fine	Moderate	14:09	18.8	Surface	1.0	0.6	67	19.5	19.5	8.0	8.0	31.0	31.0	92.2	92.2	7.1	7.1	3.0	7.1	4	5	823629	823740			
						1.0	0.6	71	19.5	19.5	8.0	8.0	31.0	31.0	92.2	92.2	7.1	7.1	3.0	7.1	5						
					Middle	9.4	0.4	69	19.5	19.5	8.0	8.0	31.0	31.0	92.5	92.5	7.1	7.1	3.5	7.1	5						
						9.4	0.5	71	19.5	19.5	8.0	8.0	31.0	31.0	92.5	92.5	7.1	7.1	3.5	7.1	5						
					Bottom	17.8	0.3	80	19.4	19.4	7.9	7.9	31.1	31.1	93.4	93.5	7.2	7.2	3.7	7.2	7						
						17.8	0.3	86	19.4	19.4	7.9	7.9	31.1	31.1	93.5	93.5	7.2	7.2	3.8	7.2	5						
SR8	Fine	Moderate	12:55	5.6	Surface	1.0	0.3	145	19.5	19.5	8.0	8.0	29.7	29.7	94.3	94.4	7.3	7.3	9.6	7.3	14	15	820412	811607			
						1.0	0.3	156	19.5	19.5	8.0	8.0	29.7	29.7	94.4	94.4	7.3	7.3	9.6	7.3	16						
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	4.6	0.3	154	19.4	19.4	7.9	7.9	29.8	29.8	94.8	94.8	7.3	7.3	13.2	7.3	14						
						4.6	0.3	159	19.4	19.4	7.9	7.9	29.8	29.8	94.8	94.8	7.3	7.3	13.2	7.3	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 30 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA				
C1	Cloudy	Moderate	08:08	8.9	Surface	1.0	0.7	83	16.3	16.3	7.8	7.8	35.1	35.1	98.4	98.5	7.8	7.8	69.7	84.1	66	132	815620	804232
						1.0	0.7				85	16.3	7.8	7.8	35.1	35.1	98.5							
					Middle	4.5	0.7	50	16.3	16.3	7.8	7.8	35.1	35.1	98.4	98.4	7.8	7.8	70.8	61				
						4.5	0.8	54	16.3	16.3	7.8	7.8	35.1	35.1	98.3	98.4	7.8							
					Bottom	7.9	0.7	54	16.3	16.3	7.8	7.8	35.1	35.1	98.0	98.0	7.8	7.8	70.8	168				
						7.9	0.7	59	16.3	16.3	7.8	7.8	35.1	35.1	98.0	98.0	7.8							
C2	Cloudy	Rough	09:02	13.4	Surface	1.0	0.7	142	20.3	20.3	7.9	7.9	25.7	25.7	90.5	90.5	7.0	7.0	9.3	19.4	16	15	825682	806933
						1.0	0.7				144	20.3	7.9	7.9	25.7	25.7	90.5							
					Middle	6.7	0.6	109	20.2	20.2	7.9	7.9	25.9	25.9	89.3	89.3	7.0	7.0	20.2	15				
						6.7	0.7	118	20.2	20.2	7.9	7.9	25.9	25.9	89.3	89.3	7.0							
					Bottom	12.4	0.6	245	20.1	20.1	7.9	7.9	26.6	26.6	87.9	87.9	6.8	6.8	28.7	15				
						12.4	0.6	260	20.1	20.1	7.9	7.9	26.6	26.6	87.9	87.9	6.8							
C3	Cloudy	Moderate	07:02	11.5	Surface	1.0	0.8	258	20.0	20.0	8.0	8.0	29.7	29.7	93.3	93.3	7.1	7.1	5.6	13.5	6	9	822093	817807
						1.0	0.9				264	20.0	8.0	8.0	29.7	29.7	93.3							
					Middle	5.8	0.8	258	19.8	19.8	8.0	8.0	30.0	30.0	91.8	91.8	7.0	7.0	16.7	8				
						5.8	0.8	271	19.8	19.8	8.0	8.0	30.0	30.0	91.8	91.8	7.0							
					Bottom	10.5	0.6	270	19.8	19.8	8.0	8.0	30.1	30.1	91.8	91.8	7.0	7.0	18.5	14				
						10.5	0.6	288	19.8	19.8	8.0	8.0	30.1	30.1	91.8	91.8	7.0							
IM1	Cloudy	Moderate	08:27	8.4	Surface	1.0	0.7	57	16.5	16.5	7.8	7.8	34.4	34.4	98.4	98.4	7.8	7.8	20.3	34.9	51	818349	806443	
						1.0	0.7				57	16.5	16.5	7.8	7.8	34.4	34.4							98.4
					Middle	4.2	0.6	55	16.4	16.4	7.8	7.8	34.4	34.4	98.0	98.0	7.8	7.8	29.4	32				
						4.2	0.6	56	16.4	16.4	7.8	7.8	34.4	34.4	98.0	98.0	7.8							
					Bottom	7.4	0.5	63	16.4	16.4	7.8	7.8	34.4	34.4	97.7	97.7	7.8	7.8	54.5	66				
						7.4	0.5	68	16.4	16.4	7.8	7.8	34.4	34.4	97.7	97.7	7.8							
IM2	Cloudy	Moderate	08:33	9.1	Surface	1.0	0.8	37	16.4	16.4	7.8	7.8	35.1	35.1	98.9	98.9	7.8	7.8	29.1	40.1	42	70	818857	806195
						1.0	0.8				40	16.4	16.4	7.8	7.8	35.1	35.1							
					Middle	4.6	0.8	38	16.4	16.4	7.8	7.8	35.1	35.1	98.6	98.6	7.8	7.8	38.0	83				
						4.6	0.8	40	16.4	16.4	7.8	7.8	35.1	35.1	98.6	98.6	7.8							
					Bottom	8.1	0.6	50	16.3	16.3	7.8	7.8	35.1	35.1	98.2	98.2	7.8	7.8	53.5	91				
						8.1	0.7	50	16.3	16.3	7.8	7.8	35.1	35.1	98.2	98.2	7.8							
IM3	Cloudy	Moderate	08:41	9.2	Surface	1.0	0.7	93	16.4	16.4	7.8	7.8	35.1	35.1	98.4	98.4	7.8	7.8	51.8	73.1	85	90	819392	806013
						1.0	0.7				93	16.4	16.4	7.8	7.8	35.1	35.1							
					Middle	4.6	0.7	91	16.3	16.3	7.8	7.8	35.1	35.1	98.2	98.2	7.8	7.8	75.4	89				
						4.6	0.8	91	16.3	16.3	7.8	7.8	35.1	35.1	98.2	98.2	7.8							
					Bottom	8.2	0.8	67	16.3	16.3	7.8	7.8	35.1	35.1	97.9	97.9	7.8	7.8	91.9	97				
						8.2	0.9	68	16.3	16.3	7.8	7.8	35.1	35.1	97.9	97.9	7.8							
IM4	Cloudy	Moderate	08:53	8.6	Surface	1.0	0.7	46	16.4	16.4	7.8	7.8	35.1	35.1	98.6	98.6	7.8	7.8	37.7	52.9	64	819552	805025	
						1.0	0.7				47	16.4	16.4	7.8	7.8	35.1	35.1							98.6
					Middle	4.3	0.7	42	16.4	16.4	7.8	7.8	35.1	35.1	98.4	98.4	7.8	7.8	53.1	67				
						4.3	0.7	42	16.4	16.4	7.8	7.8	35.1	35.1	98.3	98.3	7.8							
					Bottom	7.6	0.6	51	16.4	16.4	7.8	7.8	35.1	35.1	98.1	98.1	7.8	7.8	67.7	71				
						7.6	0.7	52	16.4	16.4	7.8	7.8	35.1	35.1	98.1	98.1	7.8							
IM5	Cloudy	Rough	09:04	7.5	Surface	1.0	0.6	131	16.5	16.5	7.8	7.8	34.7	34.7	98.4	98.4	7.8	7.8	27.7	47.3	80	820573	804905	
						1.0	0.6				142	16.5	16.5	7.8	7.8	34.7	34.7							98.4
					Middle	3.8	0.6	98	16.4	16.4	7.8	7.8	34.7	34.7	98.0	98.0	7.8	7.8	34.8	52				
						3.8	0.6	105	16.4	16.4	7.8	7.8	34.7	34.7	98.0	98.0	7.8							
					Bottom	6.5	0.5	100	16.4	16.4	7.8	7.8	34.7	34.7	97.6	97.6	7.7	7.7	79.3	139				
						6.5	0.6	102	16.4	16.4	7.8	7.8	34.7	34.7	97.6	97.6	7.7							
IM6	Cloudy	Rough	09:14	7.2	Surface	1.0	0.7	171	16.4	16.4	7.8	7.8	35.0	35.0	98.5	98.5	7.8	7.8	36.7	44.7	68	821063	805808	
						1.0	0.7				183	16.4	16.4	7.8	7.8	35.0	35.0							98.5
					Middle	3.6	0.7	121	16.4	16.4	7.8	7.8	35.0	35.0	98.2	98.2	7.8	7.8	41.8	70				
						3.6	0.7	124	16.4	16.4	7.8	7.8	35.0	35.0	98.3	98.3	7.8							
					Bottom	6.2	0.6	99	16.4	16.4	7.8	7.8	35.0	35.0	97.9	97.9	7.8	7.8	55.2	84				
						6.2	0.7	104	16.4	16.4	7.8	7.8	35.0	35.0	97.9	97.9	7.8							
IM7	Cloudy	Rough	09:24	8.9	Surface	1.0	0.6	126	16.5	16.5	7.8	7.8	34.9	34.9	98.1	98.1	7.8	7.8	37.9	56.0	95	821360	806833	
						1.0	0.6				127	16.5	16.5	7.8	7.8	34.9	34.9							98.1
					Middle	4.5	0.6	94	16.4	16.4	7.8	7.8	34.9	34.9	98.0	98.0	7.8	7.8	47.2	100				
						4.5	0.7	94	16.4	16.4	7.8	7.8	34.9	34.9	98.0	98.0	7.8							
					Bottom	7.9	0.6	77	16.4	16.4	7.8	7.8	34.9	34.9	97.6	97.6	7.7	7.7	82.9	128				
						7.9	0.7	80	16.4	16.4	7.8	7.8	34.9	34.9	97.6	97.6	7.7							
IM8	Cloudy	Rough	08:29	9.0	Surface	1.0	0.9	96	20.1	20.1	8.0	8.0	28.7	28.7	94.9	95.0	7.3	7.3	16.6	20.3	19	821700	807832	
						1.0	1.0				98	20.1	20.1	8.0	8.0	28.7	28.7							95.0
					Middle	4.5	0.9	100	20.1	20.1	8.0	8.0	28.8	28.8	94.5	94.6	7.2	7.2	21.1	18				
						4.5	0.9	103	20.1	20.1	8.0	8.0	28.8	28.8	94.6	94.6	7.2							
					Bottom	8.0	0.8	102	20.1	20.1	8.0	8.0	29.0	29.0	94.4	94.4	7.2	7.2	23.2	21				
						8.0	0.9	106	20.0	20.0	8.0	8.0	29.0	29.0	94.4	94.4	7.2							

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 30 March 17 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)		
					Value	Average			Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA						
IM9	Cloudy	Rough	08:18	7.9	Surface	1.0	0.6	147	20.2	8.0	8.0	26.8	26.8	92.0	92.0	7.1	7.1	10.5	14	16	822107	808826				
						1.0	0.6	157	20.2	8.0	8.0	26.8	26.8	92.0	92.0	7.1	7.1	10.5	16							
					Middle	4.0	0.6	146	20.2	20.2	8.0	8.0	26.9	26.9	92.2	92.2	7.1	7.1	11.7				16			
						4.0	0.6	149	20.2	20.2	8.0	8.0	26.9	26.9	92.2	92.2	7.1	7.1	11.7				16			
					Bottom	6.9	0.5	144	20.2	20.2	8.0	8.0	26.9	26.9	93.0	93.0	7.2	7.2	12.1				16			
						6.9	0.5	150	20.2	20.2	8.0	8.0	26.9	26.9	93.0	93.0	7.2	7.2	12.1				16			
IM10	Cloudy	Moderate	08:10	8.8	Surface	1.0	0.6	294	20.2	8.0	8.0	28.7	28.7	93.8	93.9	7.2	7.2	15.4	15	16	822254	809827				
						1.0	0.6	314	20.2	8.0	8.0	28.7	28.7	93.9	93.9	7.2	7.2	15.4	16							
					Middle	4.4	0.5	272	20.1	20.1	8.0	8.0	28.8	28.8	93.5	93.5	7.2	7.2	20.2				16			
						4.4	0.5	290	20.1	20.1	8.0	8.0	28.8	28.8	93.5	93.5	7.2	7.2	20.3				16			
					Bottom	7.8	0.4	203	20.1	20.1	8.0	8.0	29.0	29.0	93.5	93.5	7.2	7.2	30.8				16			
						7.8	0.5	209	20.1	20.1	8.0	8.0	29.0	29.0	93.5	93.5	7.2	7.2	30.9				15			
IM11	Cloudy	Moderate	08:00	8.8	Surface	1.0	0.5	262	20.1	20.1	8.0	8.0	28.9	28.9	94.0	94.1	7.2	7.2	18.5	21	24	821482	810556			
						1.0	0.5	271	20.1	20.1	8.0	8.0	28.9	28.9	94.1	94.1	7.2	7.2	18.6	21						
					Middle	4.4	0.5	273	20.1	20.1	8.0	8.0	28.9	28.9	94.0	94.0	7.2	7.2	20.2	23						
						4.4	0.6	291	20.1	20.1	8.0	8.0	28.9	28.9	94.0	94.0	7.2	7.2	20.5	25						
					Bottom	7.8	0.4	257	20.1	20.1	8.0	8.0	29.0	29.0	93.7	93.7	7.2	7.2	35.6	25						
						7.8	0.4	263	20.1	20.1	8.0	8.0	29.0	29.0	93.7	93.7	7.2	7.2	35.7	27						
IM12	Cloudy	Moderate	07:51	8.5	Surface	1.0	0.6	268	20.1	20.1	8.0	8.0	29.2	29.2	94.3	94.3	7.2	7.2	21.6	22	24	821152	811514			
						1.0	0.6	294	20.1	20.1	8.0	8.0	29.2	29.2	94.3	94.3	7.2	7.2	21.8	24						
					Middle	4.3	0.6	274	20.1	20.1	8.0	8.0	29.2	29.2	94.1	94.1	7.2	7.2	24.5	24						
						4.3	0.6	276	20.1	20.1	8.0	8.0	29.2	29.2	94.1	94.1	7.2	7.2	24.7	25						
					Bottom	7.5	0.5	268	20.1	20.1	8.0	8.0	29.2	29.2	94.0	94.0	7.2	7.2	26.0	25						
						7.5	0.5	278	20.1	20.1	8.0	8.0	29.2	29.2	94.0	94.0	7.2	7.2	26.1	24						
SR2	Cloudy	Moderate	07:23	5.2	Surface	1.0	0.6	150	20.1	20.1	8.0	8.0	29.3	29.3	94.3	94.3	7.2	7.2	20.9	24	24	821482	814177			
						1.0	0.6	156	20.1	20.1	8.0	8.0	29.3	29.3	94.3	94.3	7.2	7.2	21.0	24						
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	4.2	0.6	155	20.1	20.1	8.0	8.0	29.3	29.3	94.4	94.4	7.2	7.2	22.7	23						
						4.2	0.6	163	20.1	20.1	8.0	8.0	29.3	29.3	94.4	94.4	7.2	7.2	22.8	24						
SR3	Cloudy	Rough	08:37	9.9	Surface	1.0	0.9	121	20.1	20.1	8.0	8.0	28.4	28.4	93.9	93.9	7.2	7.2	21.9	16	18	822146	807556			
						1.0	1.0	130	20.1	20.1	8.0	8.0	28.4	28.4	93.9	93.9	7.2	7.2	21.9	16						
					Middle	5.0	0.9	93	20.1	20.1	8.0	8.0	28.6	28.6	93.5	93.5	7.2	7.2	36.3	16						
						5.0	0.9	96	20.1	20.1	8.0	8.0	28.6	28.6	93.5	93.5	7.2	7.2	36.3	17						
					Bottom	8.9	0.8	108	20.1	20.1	8.0	8.0	28.7	28.7	93.6	93.6	7.2	7.2	36.9	20						
						8.9	0.8	115	20.1	20.1	8.0	8.0	28.7	28.7	93.6	93.6	7.2	7.2	36.9	22						
SR4A	Cloudy	Moderate	07:43	9.8	Surface	1.0	0.3	197	16.9	16.9	7.7	7.7	32.9	32.9	96.5	96.5	7.7	7.7	12.1	14	15	817204	807820			
						1.0	0.3	203	16.9	16.9	7.7	7.7	32.9	32.9	96.5	96.5	7.7	7.7	12.2	15						
					Middle	4.9	0.2	171	16.9	16.9	7.7	7.7	32.9	32.9	96.6	96.6	7.7	7.7	12.5	16						
						4.9	0.3	173	16.9	16.9	7.7	7.7	32.9	32.9	96.6	96.6	7.7	7.7	12.5	15						
					Bottom	8.8	0.3	180	16.9	16.9	7.7	7.7	32.9	32.9	97.2	97.2	7.7	7.7	12.2	14						
						8.8	0.3	180	16.9	16.9	7.7	7.7	32.9	32.9	97.2	97.2	7.7	7.7	12.0	15						
SR5A	Cloudy	Calm	07:25	4.4	Surface	1.0	0.2	246	16.9	16.9	7.7	7.7	32.2	32.2	96.7	96.8	7.7	7.7	16.5	23	24	816605	810715			
						1.0	0.2	259	16.9	16.9	7.7	7.7	32.2	32.2	96.8	96.8	7.7	7.7	16.6	23						
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.4	0.2	255	16.9	16.9	7.7	7.7	32.2	32.2	97.2	97.2	7.8	7.8	17.8	24						
						3.4	0.2	278	16.9	16.9	7.7	7.7	32.2	32.2	97.2	97.2	7.8	7.8	17.9	24						
SR6	Cloudy	Calm	07:02	4.5	Surface	1.0	0.2	222	16.6	16.6	7.6	7.6	30.9	30.9	94.9	95.0	7.7	7.7	10.1	13	14	817895	814682			
						1.0	0.2	234	16.6	16.6	7.6	7.6	30.9	30.9	95.0	95.0	7.7	7.7	10.2	12						
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	3.5	0.2	215	16.6	16.6	7.6	7.6	30.7	30.6	95.6	96.1	7.7	7.8	9.7	16						
						3.5	0.2	223	16.6	16.6	7.6	7.6	30.4	30.6	96.5	96.1	7.8	7.8	9.6	16						
SR7	Cloudy	Moderate	06:30	19.2	Surface	1.0	0.3	280	20.0	20.0	8.0	8.0	29.5	29.5	92.1	92.1	7.0	7.0	5.4	7	8	823636	823730			
						1.0	0.3	286	20.0	20.0	8.0	8.0	29.5	29.5	92.1	92.1	7.0	7.0	5.3	8						
					Middle	9.6	0.2	104	19.9	19.9	8.0	8.0	29.9	29.9	91.6	91.6	7.0	7.0	5.4	9						
						9.6	0.3	110	19.9	19.9	8.0	8.0	29.9	29.9	91.6	91.6	7.0	7.0	5.3	8						
					Bottom	18.2	0.3	86	19.8	19.8	8.0	8.0	30.3	30.3	91.1	91.1	7.0	7.0	5.3	7						
						18.2	0.3	88	19.8	19.8	8.0	8.0	30.3	30.3	91.1	91.1	7.0	7.0	5.3	9						
SR8	Cloudy	Moderate	07:41	5.8	Surface	1.0	0.4	214	20.3	20.3	8.0	8.0	28.2	28.2	94.3	94.3	7.2	7.2	12.2	15	16	820415	811599			
						1.0	0.4	219	20.3	20.3	8.0	8.0	28.2	28.2	94.3	94.3	7.2	7.2	12.2	15						
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
						2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	4.8	0.4	233	20.2	20.2	8.0	8.0	28.6	28.6	94.7	94.7	7.3	7.3	14.1	15						
						4.8	0.4	249	20.2	20.2	8.0	8.0	28.6	28.6	94.7	94.7	7.3	7.3	14.2	17						

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 30 March 17 during Mid-Ebb tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Rough	13:52	8.7	Surface	1.0	0.7	226	16.6	16.6	7.8	7.8	34.7	34.7	100.5	100.5	7.9	7.9	7.3	7.5	11	815611	804259	
						1.0	0.7		233		16.6	7.8	7.8	34.7	34.7	100.4	100.5		7.9					7.4
					Middle	4.4	0.7	211	16.5	16.5	7.9	7.9	34.7	34.7	99.8	99.8	7.8	7.3						
						4.4	0.7	213	16.5	16.5	7.9	7.9	34.7	34.7	99.7	99.8	7.8	7.3						
					Bottom	7.7	0.7	218	16.5	16.5	7.9	7.9	34.8	34.8	98.2	98.1	7.7	7.7						
						7.7	0.7	237	16.5	16.5	7.9	7.9	34.8	34.8	98.0	98.1	7.7	7.8						
C2	Fine	Rough	12:47	12.4	Surface	1.0	0.7	165	20.6	20.6	8.0	8.0	26.6	26.6	93.2	93.2	7.2	7.2	9.4	13.3	825692	806942		
						1.0	0.7	174	20.6		8.0	8.0	26.6	26.6	93.2	93.2	7.2		9.4					
					Middle	6.2	0.7	172	20.1	20.1	8.0	8.0	28.3	28.3	92.2	92.2	7.1	11.3						
						6.2	0.7	177	20.1	20.1	8.0	8.0	28.3	28.3	92.2	92.2	7.1	11.1						
					Bottom	11.4	0.7	182	20.0	20.0	8.0	8.0	29.3	29.3	92.3	92.3	7.1	19.4						
						11.4	0.8	191	20.0	20.0	8.0	8.0	29.2	29.3	92.3	92.3	7.1	19.1						
C3	Cloudy	Moderate	14:54	12.3	Surface	1.0	0.6	107	20.1	20.1	8.0	8.0	29.6	29.6	93.6	93.6	7.1	7.1	7.8	11	822115	817811		
						1.0	0.6	117	20.1		8.0	8.0	29.6	29.6	93.5	93.6	7.1		7.9					
					Middle	6.2	0.4	103	20.0	20.0	8.0	8.0	29.8	29.8	93.2	93.2	7.1	8.7						
						6.2	0.4	109	20.0	20.0	8.0	8.0	29.8	29.8	93.2	93.2	7.1	8.7						
					Bottom	11.3	0.4	83	20.1	20.1	8.0	8.0	29.8	29.8	94.2	94.3	7.2	9.9						
						11.3	0.4	91	20.1	20.1	8.0	8.0	29.8	29.8	94.3	94.3	7.2	9.3						
IM1	Cloudy	Rough	13:35	8.2	Surface	1.0	0.4	197	16.8	16.8	7.8	7.8	34.5	34.5	100.0	100.0	7.8	7.8	9.1	13	818364	806450		
						1.0	0.4	210	16.8		7.8	7.8	34.5	34.5	99.9	100.0	7.8		9.0					
					Middle	4.1	0.4	178	16.7	16.6	7.8	7.8	34.6	34.7	99.4	99.1	7.8	8.9						
						4.1	0.4	181	16.5	16.6	7.8	7.8	34.8	34.7	99.7	99.1	7.8	9.3						
					Bottom	7.2	0.4	166	16.3	16.3	7.8	7.8	35.3	35.3	97.8	97.7	7.7	9.6						
						7.2	0.4	171	16.3	16.3	7.8	7.8	35.3	35.3	97.6	97.7	7.7	9.4						
IM2	Cloudy	Rough	13:29	8.9	Surface	1.0	0.5	215	16.8	16.8	7.8	7.8	34.1	34.1	99.6	99.6	7.8	7.8	8.4	13	818844	806196		
						1.0	0.5	232	16.8		7.8	7.8	34.1	34.1	99.6	99.6	7.8		8.4					
					Middle	4.5	0.4	169	16.7	16.7	7.8	7.8	34.5	34.5	99.3	99.3	7.8	8.4						
						4.5	0.4	174	16.6	16.7	7.8	7.8	34.5	34.5	99.2	99.3	7.8	8.2						
					Bottom	7.9	0.4	151	16.5	16.5	7.9	7.9	35.1	35.1	98.1	98.0	7.7	7.2						
						7.9	0.4	163	16.5	16.5	7.9	7.9	35.0	35.1	97.8	98.0	7.7	7.0						
IM3	Cloudy	Rough	13:21	9.0	Surface	1.0	0.5	196	16.9	16.9	7.8	7.8	33.7	33.7	100.5	100.5	7.9	7.9	8.5	13	819415	806004		
						1.0	0.5	205	16.9		7.8	7.8	33.7	33.7	100.5	100.5	7.9		8.5					
					Middle	4.5	0.5	182	16.8	16.8	7.8	7.8	34.4	34.4	100.7	100.7	7.9	8.4						
						4.5	0.5	198	16.8	16.8	7.8	7.8	34.3	34.4	100.7	100.7	7.9	8.4						
					Bottom	8.0	0.5	145	16.7	16.8	7.8	7.8	34.7	34.7	100.2	100.2	7.8	7.9						
						8.0	0.5	154	16.8	16.8	7.8	7.8	34.6	34.7	100.2	100.2	7.8	7.9						
IM4	Cloudy	Moderate	13:13	8.5	Surface	1.0	0.5	190	16.9	16.9	7.8	7.8	33.7	33.7	99.7	99.7	7.8	7.8	11.8	17	819587	805027		
						1.0	0.6	191	16.9		7.8	7.8	33.7	33.7	99.7	99.7	7.8		11.8					
					Middle	4.3	0.5	177	16.8	16.8	7.8	7.8	33.9	33.9	99.0	99.0	7.8	12.0						
						4.3	0.5	194	16.7	16.8	7.8	7.8	33.9	33.9	99.0	99.0	7.8	12.1						
					Bottom	7.5	0.5	184	16.2	16.2	7.9	7.9	35.1	35.1	97.6	97.5	7.7	12.0						
						7.5	0.5	189	16.2	16.2	7.9	7.9	35.1	35.1	97.3	97.5	7.7	11.9						
IM5	Cloudy	Moderate	13:05	7.4	Surface	1.0	0.4	162	16.9	16.9	7.8	7.8	33.3	33.3	99.2	99.3	7.8	7.8	13.6	18	820570	804911		
						1.0	0.4	174	16.9		7.8	7.8	33.3	33.3	99.3	99.3	7.8		13.5					
					Middle	3.7	0.4	148	16.6	16.6	7.8	7.8	33.4	33.5	98.1	98.0	7.8	14.7						
						3.7	0.4	160	16.6	16.6	7.8	7.8	33.5	33.5	97.9	98.0	7.8	15.1						
					Bottom	6.4	0.4	159	16.4	16.4	7.8	7.8	34.6	34.6	97.0	97.0	7.7	17.2						
						6.4	0.4	165	16.4	16.4	7.8	7.8	34.5	34.6	96.9	97.0	7.6	17.2						
IM6	Cloudy	Rough	12:57	7.3	Surface	1.0	0.5	195	17.0	17.0	7.8	7.8	33.1	33.1	99.7	99.7	7.8	7.8	11.5	17	821076	805845		
						1.0	0.6	204	17.0		7.8	7.8	33.1	33.1	99.6	99.7	7.8		11.5					
					Middle	3.7	0.6	169	16.8	16.8	7.8	7.8	33.3	33.3	98.8	98.8	7.8	13.4						
						3.7	0.6	179	16.8	16.8	7.8	7.8	33.3	33.3	98.8	98.8	7.8	13.4						
					Bottom	6.3	0.6	160	16.3	16.3	7.8	7.8	34.7	34.7	97.7	97.7	7.7	17.0						
						6.3	0.6	175	16.3	16.3	7.8	7.8	34.7	34.7	97.6	97.7	7.7	17.0						
IM7	Cloudy	Rough	12:48	8.7	Surface	1.0	0.4	175	16.7	16.7	7.8	7.8	34.1	34.1	100.2	100.2	7.9	7.9	14.4	22	821348	806830		
						1.0	0.4	186	16.7		7.8	7.8	34.1	34.1	100.2	100.2	7.9		14.7					
					Middle	4.4	0.4	103	16.7	16.7	7.8	7.8	34.0	34.0	99.6	99.5	7.8	15.9						
						4.4	0.4	109	16.7	16.7	7.8	7.8	34.0	34.0	99.4	99.5	7.8	16.2						
					Bottom	7.7	0.3	113	16.4	16.4	7.8	7.8	34.0	34.0	98.1	98.1	7.8	33.7						
						7.7	0.3	119	16.4	16.4	7.8	7.8	34.0	34.0	98.0	98.1	7.8	33.5						
IM8	Fine	Rough	13:21	8.8	Surface	1.0	0.4	166	20.5	20.5	8.0	8.0	28.6	28.6	96.6	96.6	7.4	7.4	11.7	15	821691	807833		
						1.0	0.4	175	20.5		8.0	8.0	28.6	28.6	96.6	96.6	7.4		11.9					
					Middle	4.4	0.4	114	20.1	20.1	8.0	8.0	30.3	30.3	96.8	96.8	7.4	14.4						
						4.4	0.4	123	20.1	20.1	8.0	8.0	30.3	30.3	96.8	96.8	7.4	14.5						
					Bottom	7.8	0.4	90	19.9	19.9	8.1	8.1	31.3	31.3	97.0	97.0	7.4	18.9						
						7.8	0.4	96	19.9	19.9	8.1	8.1	31.3	31.3	97.0	97.0	7.4	19.0						

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

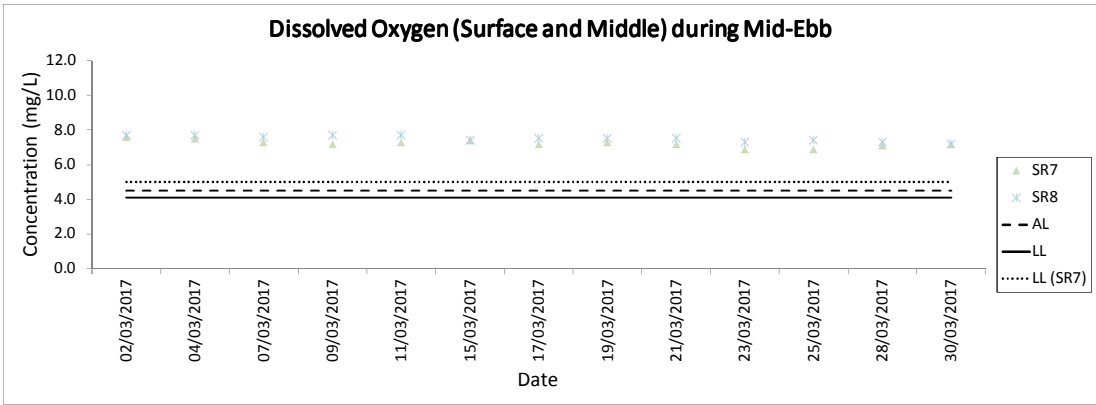
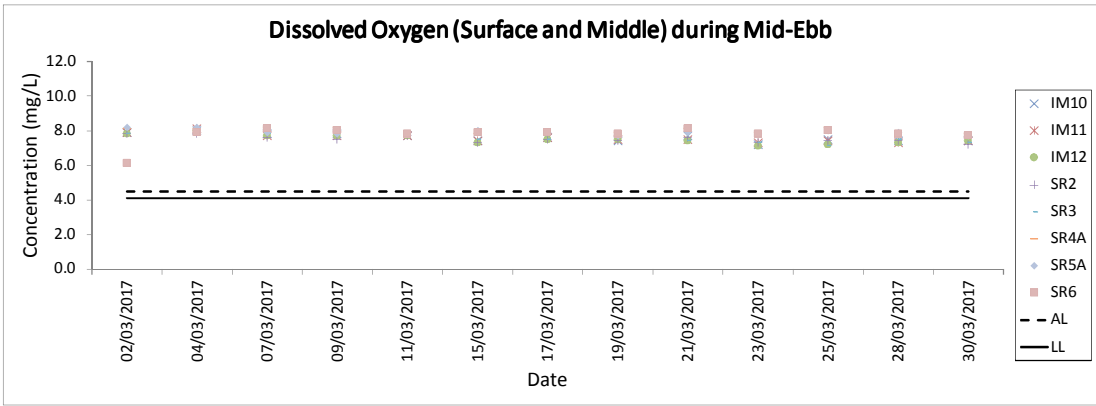
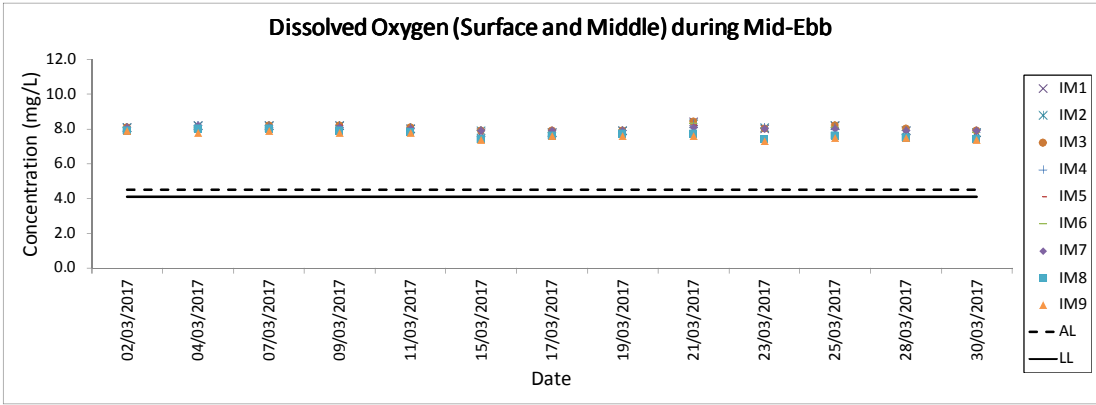
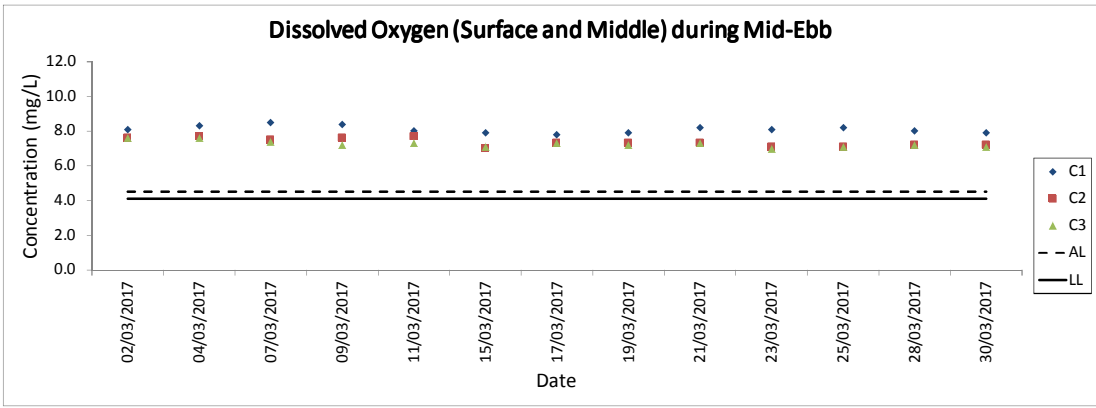
Water Quality Monitoring Results on 30 March 17 during Mid-Ebb tide

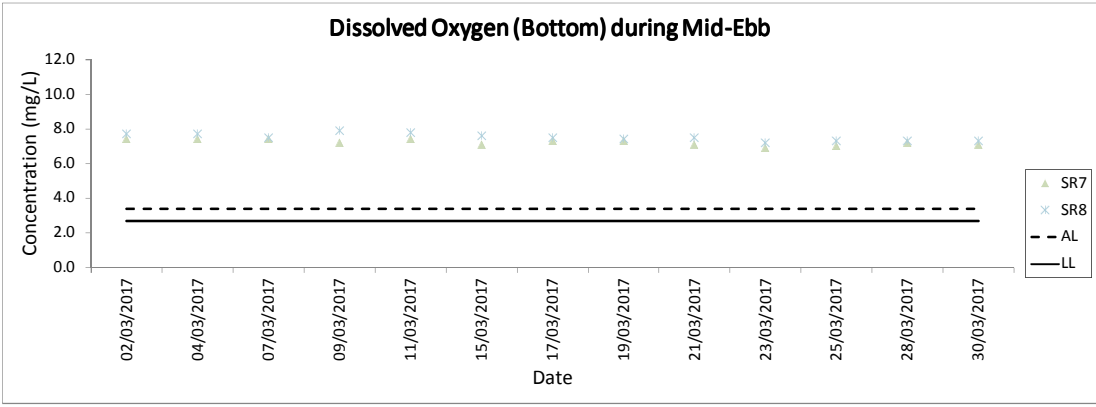
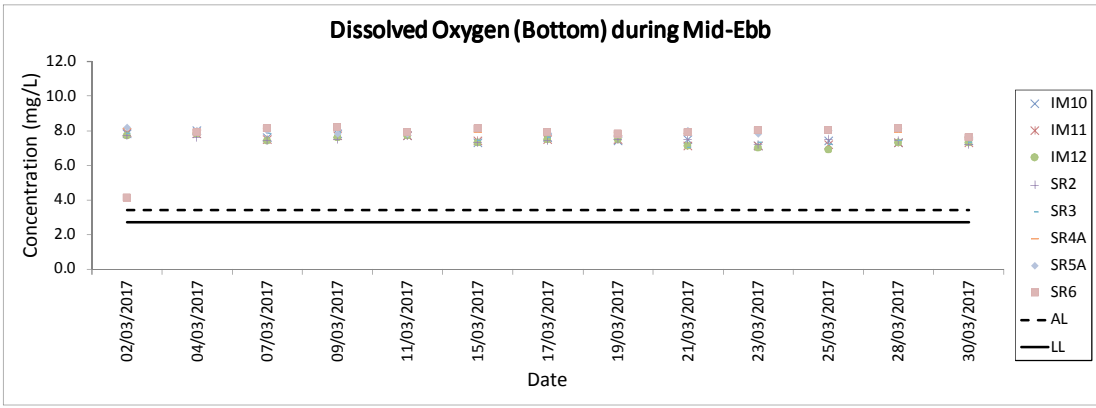
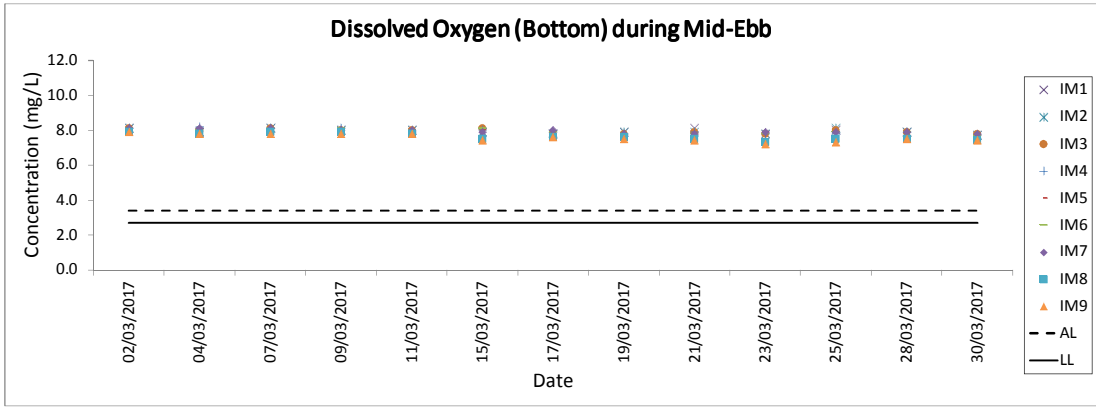
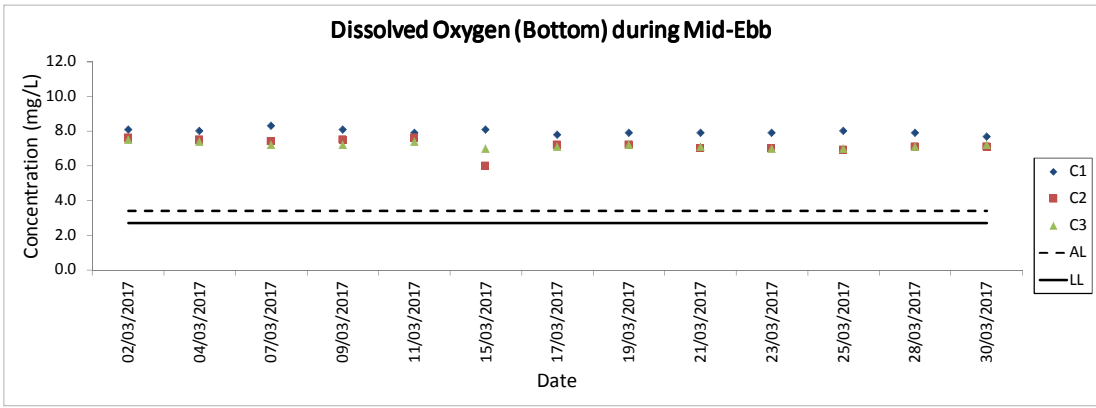
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)			
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA					
IM9	Fine	Rough	13:35	7.5	Surface	1.0	0.7	148	20.6	20.6	8.0	8.0	28.5	28.5	96.7	96.7	7.4	7.4	7.4	14.2	13	822081	808794				
						1.0	0.7	154	20.6		8.0	8.0	28.5	28.5	96.7	96.7	7.4										
					Middle	3.8	0.7	120	20.2	20.2	8.0	8.0	29.5	29.5	97.3	97.3	7.4	7.4	7.4	7.4	13.9	13	822081	808794			
						3.8	0.7	120	20.2		8.0	8.0	29.5	29.5	97.3	97.3	7.4										
					Bottom	6.5	0.8	109	20.1	20.1	8.1	8.1	31.1	31.1	97.7	97.7	7.4	7.4	7.4	7.4	17.8	13	822081	808794			
						6.5	0.8	113	20.1		8.1	8.1	31.1	31.1	97.7	97.7	7.4										
IM10	Fine	Moderate	13:46	7.9	Surface	1.0	0.8	128	20.6	20.6	8.0	8.0	28.2	28.2	96.7	96.7	7.4	7.4	7.4	15.8	14	822227	809853				
						1.0	0.8	131	20.6		8.0	8.0	28.2	28.2	96.7	96.7	7.4										
					Middle	4.0	0.7	109	20.2	20.2	8.0	8.0	29.8	29.8	96.6	96.6	7.3	7.3	7.3	7.3	15.1	13	822227	809853			
						4.0	0.7	111	20.2		8.0	8.0	29.8	29.8	96.6	96.6	7.3										
					Bottom	6.9	0.7	119	20.1	20.1	8.1	8.1	30.4	30.4	97.2	97.2	7.4	7.4	7.4	7.4	21.6	14	822227	809853			
						6.9	0.7	127	20.1		8.1	8.1	30.5	30.5	97.2	97.2	7.4										
IM11	Fine	Moderate	13:56	8.9	Surface	1.0	0.6	108	20.5	20.5	8.1	8.1	28.9	28.9	97.5	97.5	7.4	7.4	7.4	19.2	11	821486	810530				
						1.0	0.6	112	20.5		8.1	8.1	28.9	28.9	97.5	97.5	7.4										
					Middle	4.5	0.6	110	20.3	20.3	8.1	8.1	29.4	29.4	97.2	97.2	7.4	7.4	7.4	7.4	11.8	10	821486	810530			
						4.5	0.6	111	20.3		8.1	8.1	29.4	29.4	97.2	97.2	7.4										
					Bottom	7.9	0.5	108	20.0	20.0	8.2	8.2	30.8	30.8	96.7	96.7	7.3	7.3	7.3	7.3	37.2	14	821486	810530			
						7.9	0.6	117	20.0		8.2	8.2	30.8	30.8	96.7	96.7	7.3										
IM12	Cloudy	Moderate	14:06	8.6	Surface	1.0	0.9	120	20.5	20.5	8.1	8.1	28.6	28.6	96.8	96.8	7.4	7.4	7.4	18.7	14	821177	811501				
						1.0	0.9	125	20.5		8.1	8.1	28.6	28.6	96.8	96.8	7.4										
					Middle	4.3	0.8	115	20.1	20.1	8.1	8.1	29.9	29.9	95.8	95.8	7.3	7.3	7.3	7.3	18.5	13	821177	811501			
						4.3	0.9	118	20.1		8.1	8.1	29.9	29.9	95.7	95.7	7.3										
					Bottom	7.6	0.9	130	20.0	20.0	8.2	8.2	30.3	30.3	95.5	95.5	7.3	7.3	7.3	7.3	26.3	13	821177	811501			
						7.6	1.0	136	20.0		8.2	8.2	30.3	30.3	95.5	95.5	7.3										
SR2	Cloudy	Moderate	14:32	4.8	Surface	1.0	0.5	68	20.3	20.3	8.0	8.0	28.9	28.9	94.2	94.3	7.2	7.2	7.2	13.6	12	821465	814175				
						1.0	0.5	68	20.3		8.0	8.0	28.9	28.9	94.3	94.3	7.2										
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.4	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.8	0.4	65	20.2	20.2	8.0	8.0	29.2	29.2	93.6	93.6	7.1	7.2	7.2	7.2	14.9	13	821465	814175			
						3.8	0.4	67	20.2		8.0	8.0	29.2	29.2	93.6	93.6	7.2										
SR3	Fine	Rough	13:11	9.8	Surface	1.0	0.8	175	20.5	20.5	8.0	8.0	28.5	28.5	95.9	95.9	7.3	7.3	7.3	15.8	17	822127	807589				
						1.0	0.8	186	20.5		8.0	8.0	28.5	28.5	95.9	95.9	7.3										
					Middle	4.9	0.7	145	20.2	20.2	8.0	8.0	29.4	29.4	96.1	96.2	7.3	7.3	7.3	7.3	15.9	15	822127	807589			
						4.9	0.7	155	20.2		8.0	8.0	29.4	29.4	96.2	96.2	7.3										
					Bottom	8.8	0.7	117	20.2	20.2	8.1	8.1	30.1	30.1	96.4	96.4	7.3	7.3	7.3	7.3	18.6	16	822127	807589			
						8.8	0.8	118	20.2		8.1	8.1	30.1	30.1	96.4	96.4	7.3										
SR4A	Cloudy	Moderate	14:19	9.2	Surface	1.0	0.3	196	17.1	17.1	7.8	7.8	34.7	34.7	99.9	99.9	7.8	7.8	7.8	12.3	18	817170	807819				
						1.0	0.3	205	17.1		7.8	7.8	34.7	34.7	99.9	99.9	7.8										
					Middle	4.6	0.3	139	16.9	16.9	7.8	7.8	34.9	34.9	99.0	99.0	7.7	7.7	7.7	7.7	11.5	17	817170	807819			
						4.6	0.3	140	16.9		7.8	7.8	34.8	34.8	98.9	98.9	7.7										
					Bottom	8.2	0.3	105	16.5	16.5	7.8	7.8	35.1	35.2	97.4	97.2	7.6	7.6	7.6	7.6	13.3	18	817170	807819			
						8.2	0.4	109	16.4		7.8	7.8	35.2	35.2	97.0	97.0	7.6										
SR5A	Cloudy	Calm	14:36	4.3	Surface	1.0	0.1	147	17.4	17.5	7.8	7.8	33.1	33.1	98.1	98.1	7.7	7.7	7.7	9.6	14	816586	810701				
						1.0	0.1	148	17.5		7.8	7.8	33.1	33.1	98.0	98.0	7.6										
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.2	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.3	0.1	117	17.3	17.3	7.8	7.8	33.1	33.2	97.1	97.0	7.6	7.6	7.6	7.6	10.0	16	816586	810701			
						3.3	0.1	123	17.3		7.8	7.8	33.2	33.2	97.0	97.0	7.6										
SR6	Cloudy	Calm	15:22	4.2	Surface	1.0	0.2	105	17.4	17.4	7.8	7.8	32.9	32.9	98.0	98.0	7.7	7.7	7.7	15.1	20	817897	814656				
						1.0	0.2	105	17.4		7.8	7.8	32.9	32.9	98.0	98.0	7.7										
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.1	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.2	0.2	131	17.4	17.4	7.8	7.8	32.8	32.8	97.3	97.3	7.6	7.6	7.6	7.6	16.0	20	817897	814656			
						3.2	0.2	132	17.4		7.8	7.8	32.8	32.8	97.2	97.2	7.6										
SR7	Cloudy	Moderate	15:23	20.0	Surface	1.0	0.5	59	20.2	20.2	8.0	8.0	30.0	30.0	94.3	94.3	7.2	7.2	7.2	6.0	8	823623	823736				
						1.0	0.6	59	20.2		8.0	8.0	30.0	30.0	94.2	94.2	7.2										
					Middle	10.0	0.3	96	20.0	20.0	8.0	8.0	30.2	30.2	92.6	92.6	7.1	7.1	7.1	7.1	6.2	9	823623	823736			
						10.0	0.3	104	20.0		8.0	8.0	30.2	30.2	92.6	92.6	7.1										
					Bottom	19.0	0.3	174	20.0	20.0	8.0	8.0	30.3	30.3	92.7	92.7	7.1	7.1	7.1	7.1	6.4	6	823623	823736			
						19.0	0.3	189	20.0		8.0	8.0	30.3	30.3	92.7	92.7	7.1										
SR8	Cloudy	Moderate	14:15	5.4	Surface	1.0	0.3	185.0	20.4	20.4	8.0	8.0	28.7	28.7	94.5	94.6	7.2	7.2	7.2	13.5	14	820428	811582				
						1.0	0.3	201.0	20.4		8.0	8.0	28.7	28.7	94.6	94.6	7.2										
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.7	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.4	0.4	137.0	20.3	20.3	8.0	8.0	29.1	29.1	95.6	95.6	7.3	7.3	7.3	7.3	15.4	14	820428	811582			
						4.4	0.4	147.0	20.3		8.0	8.0	29.1	29.1	95.6	95.6	7.3										

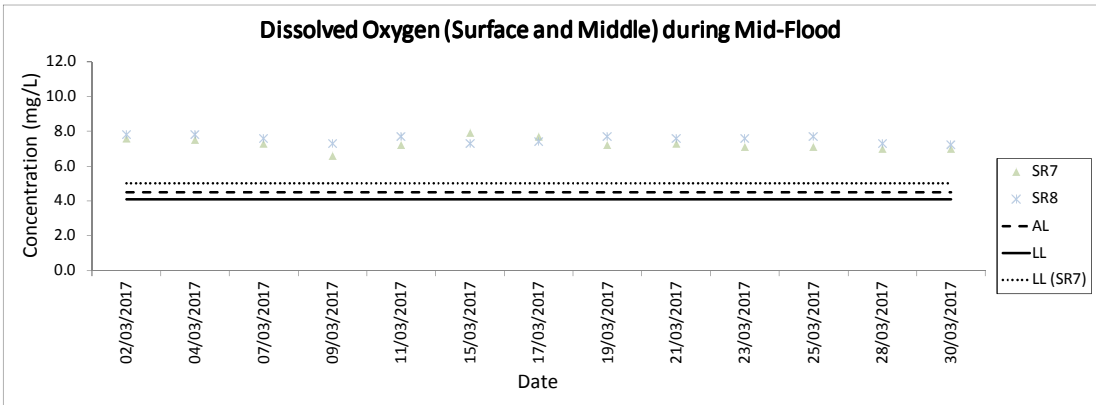
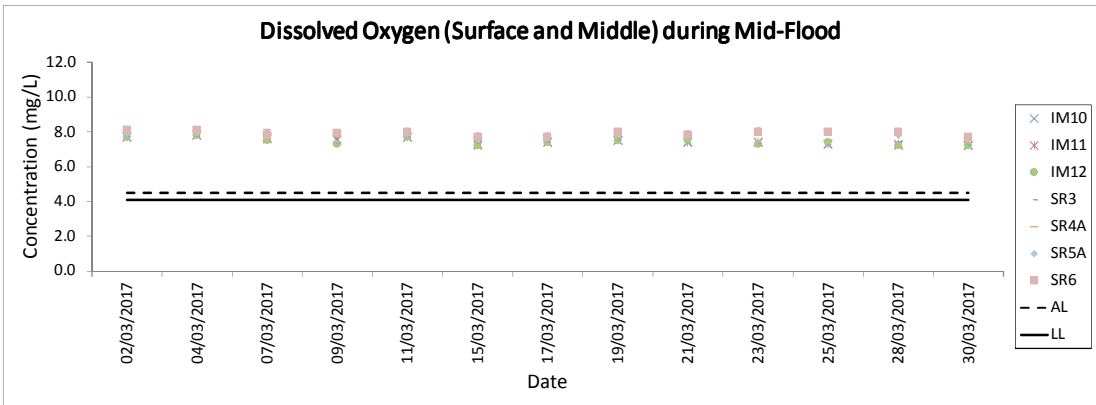
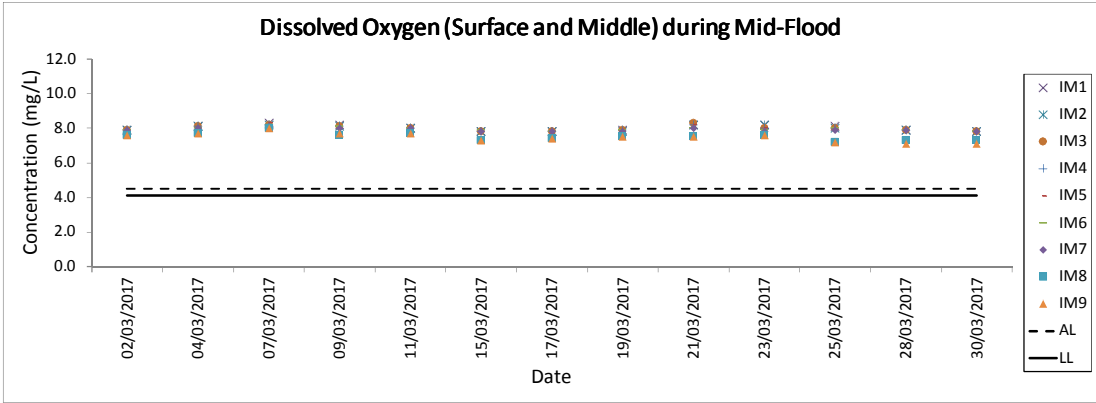
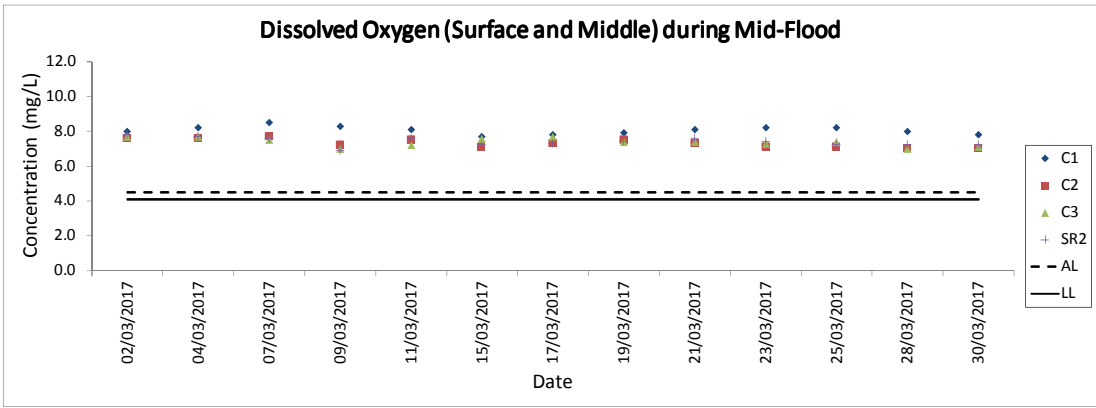
DA: Depth-Averaged

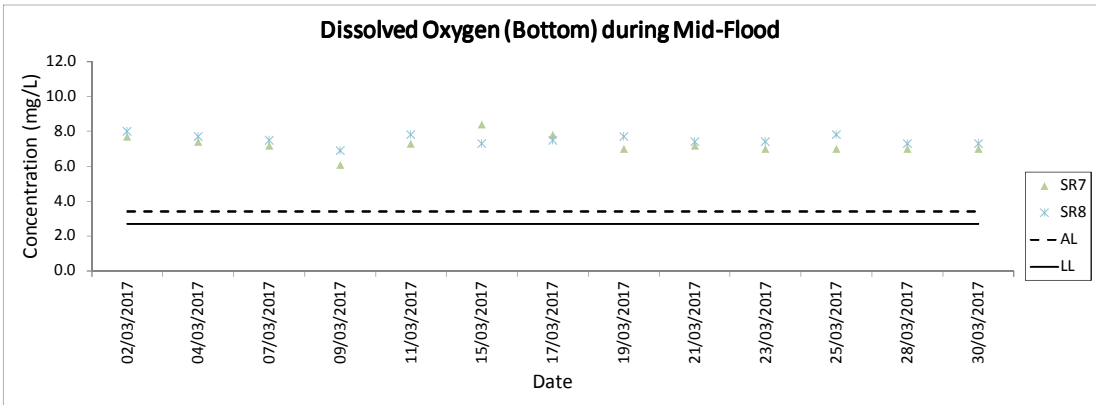
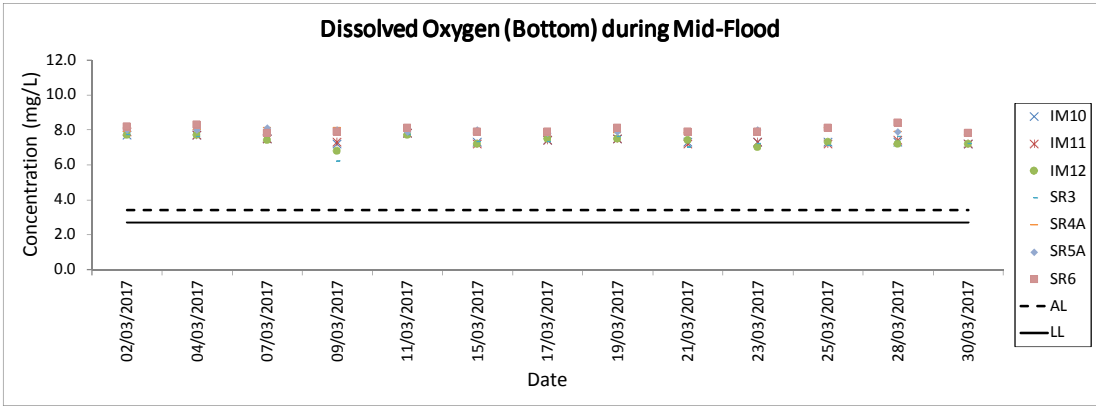
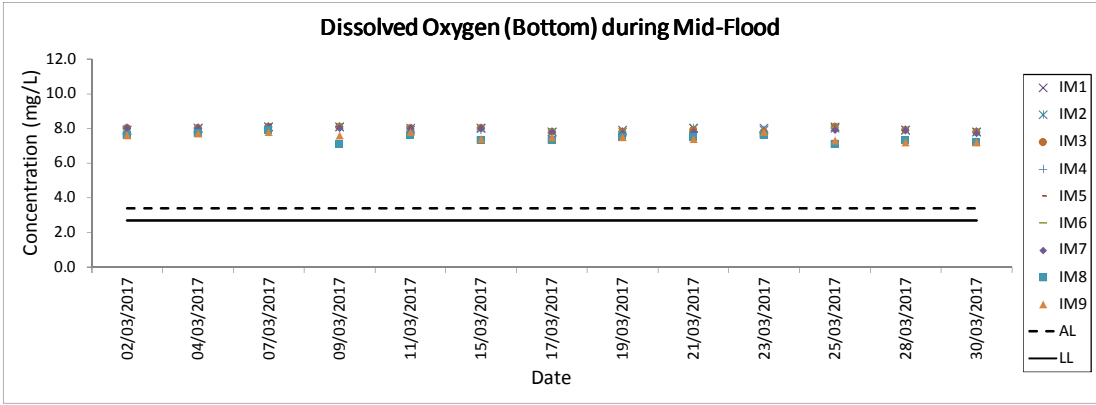
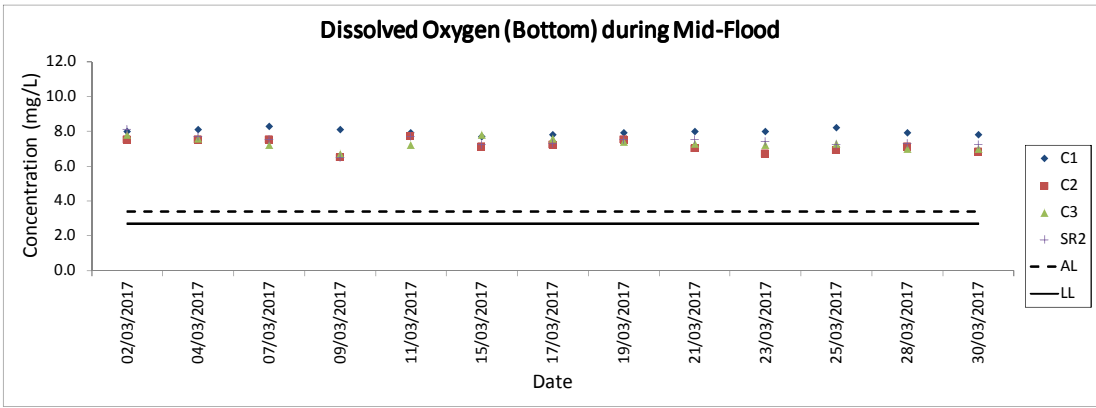
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

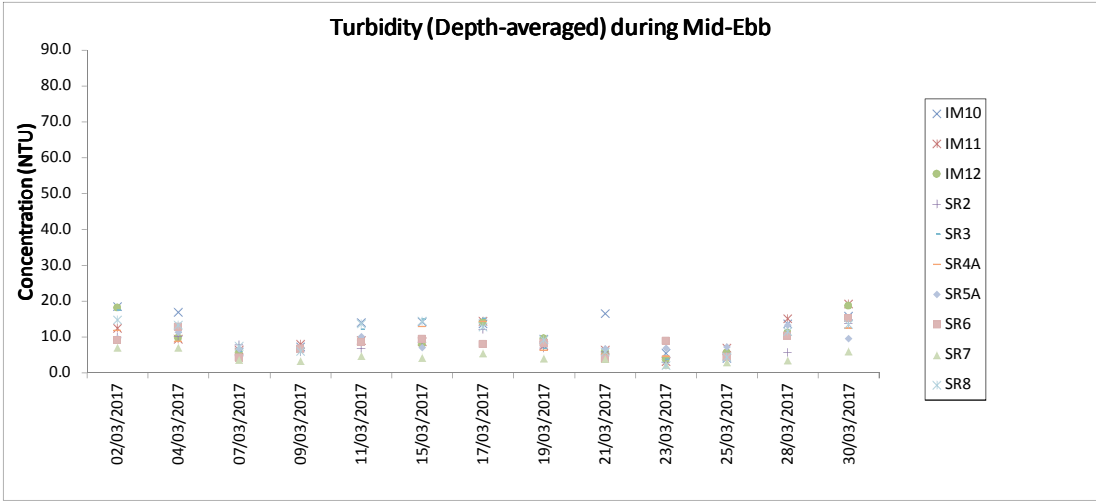
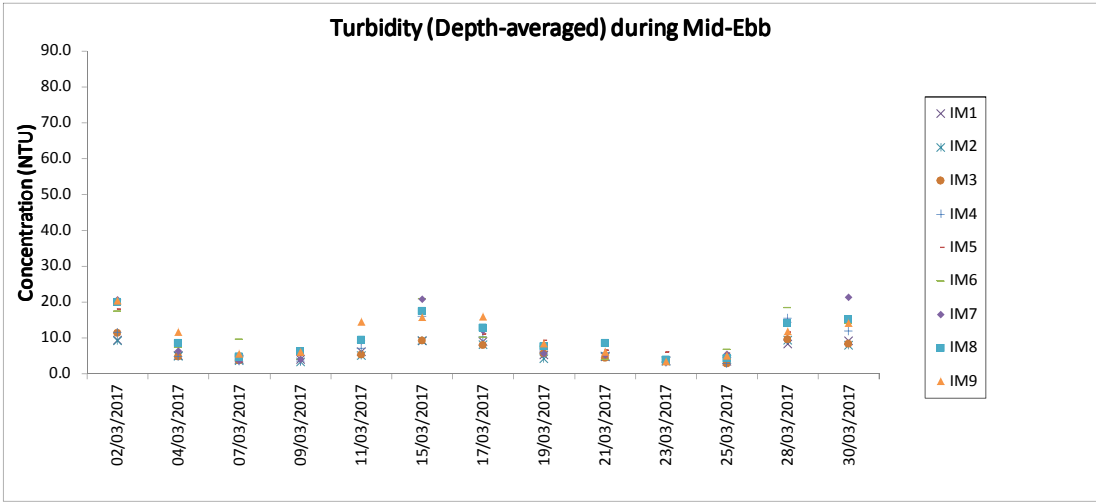
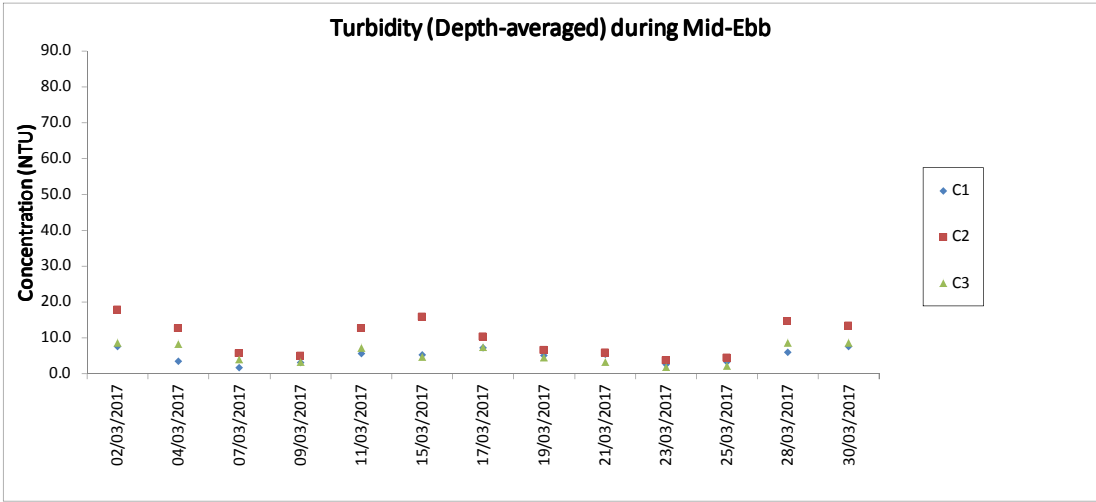
Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined



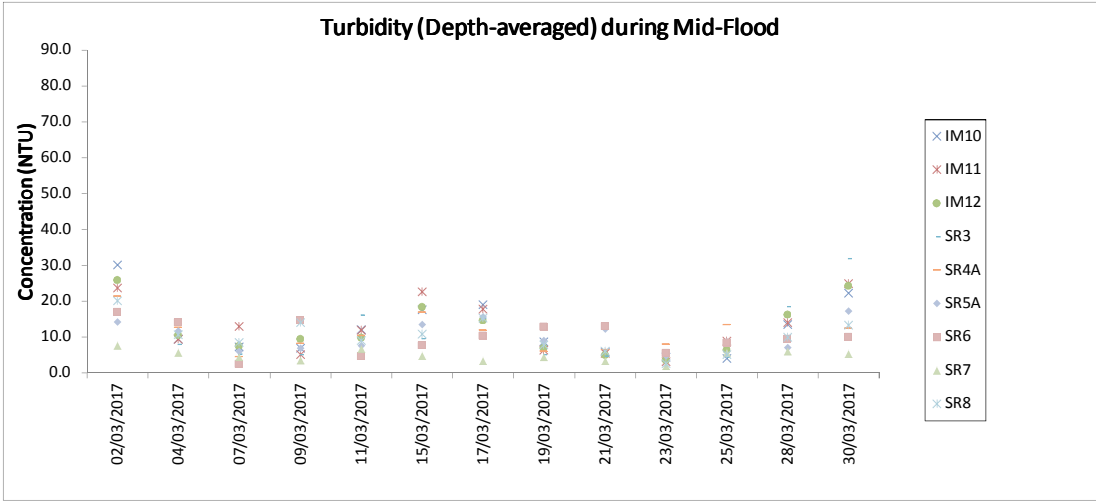
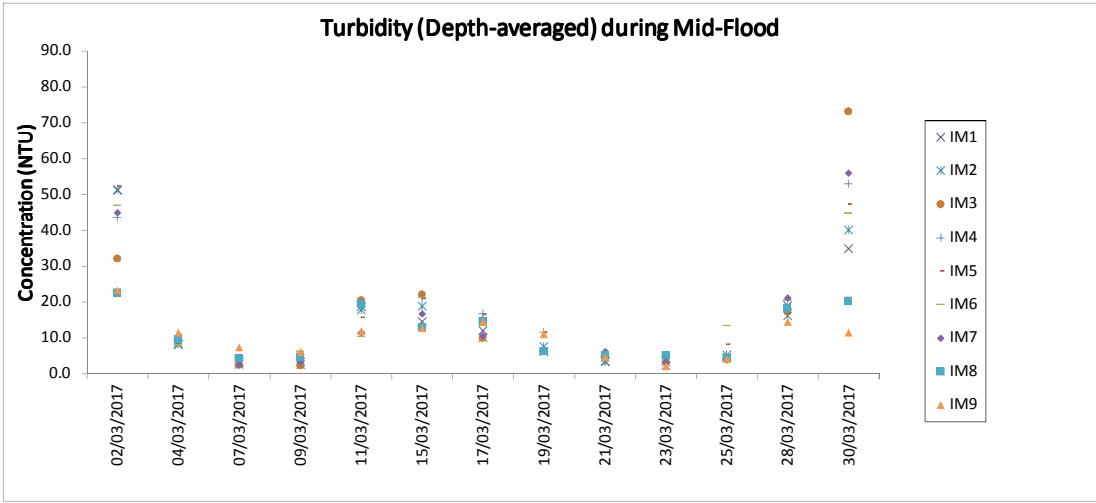
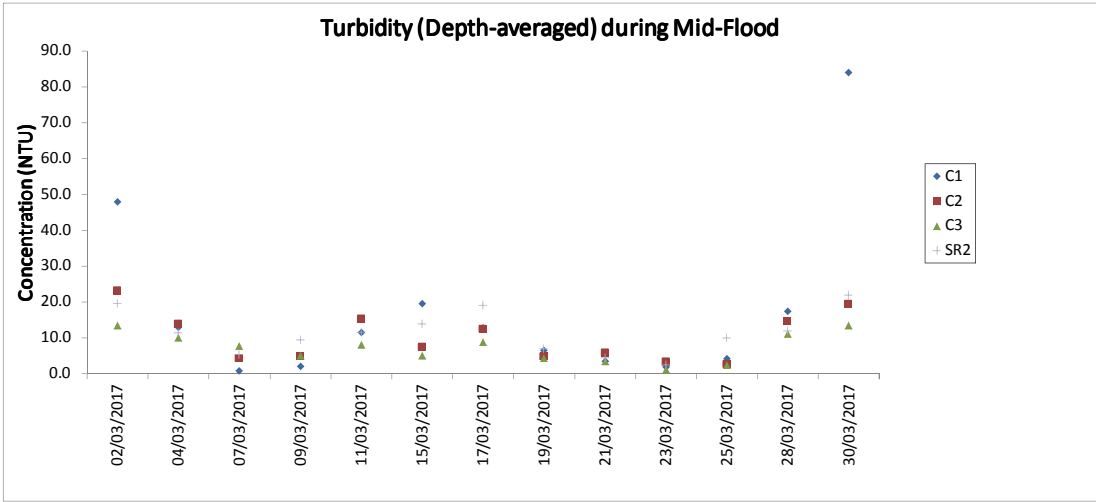




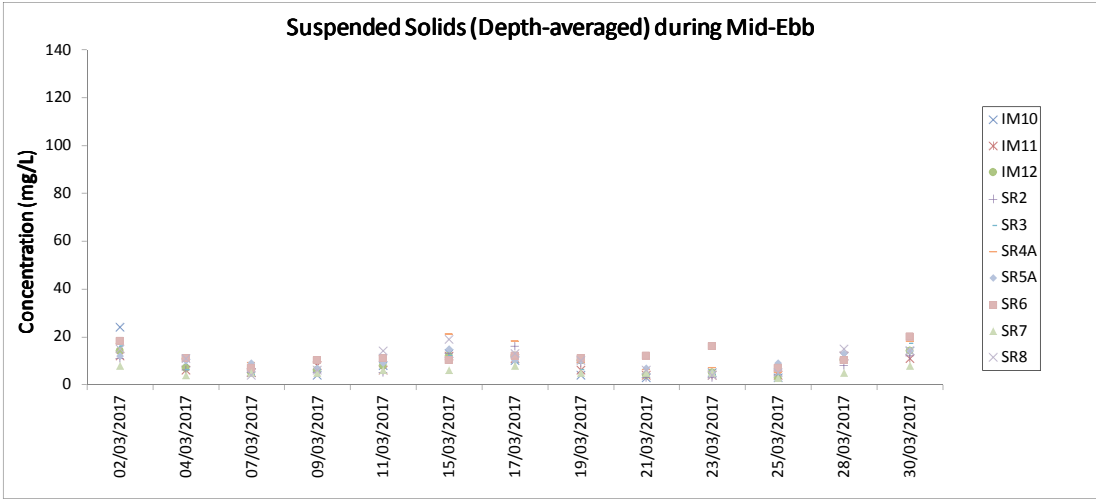
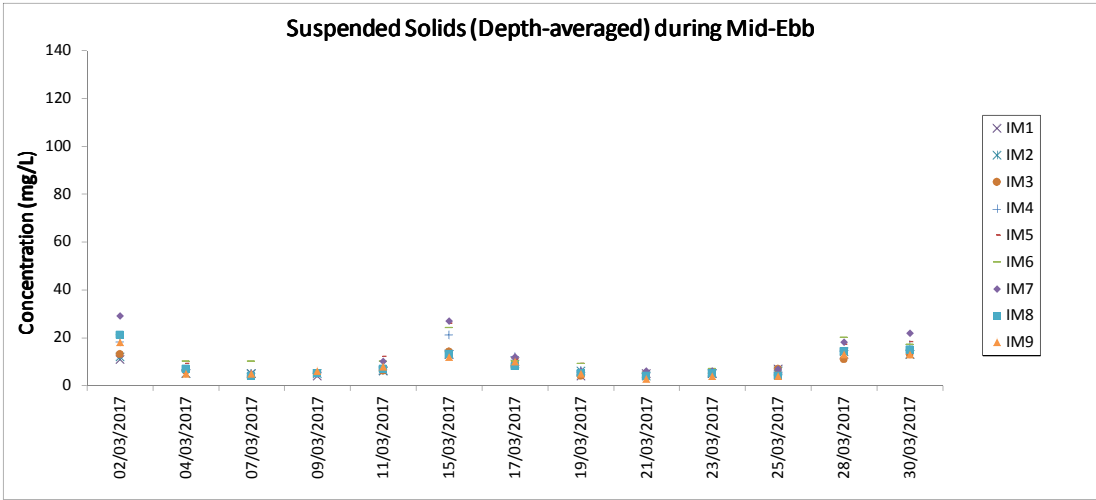
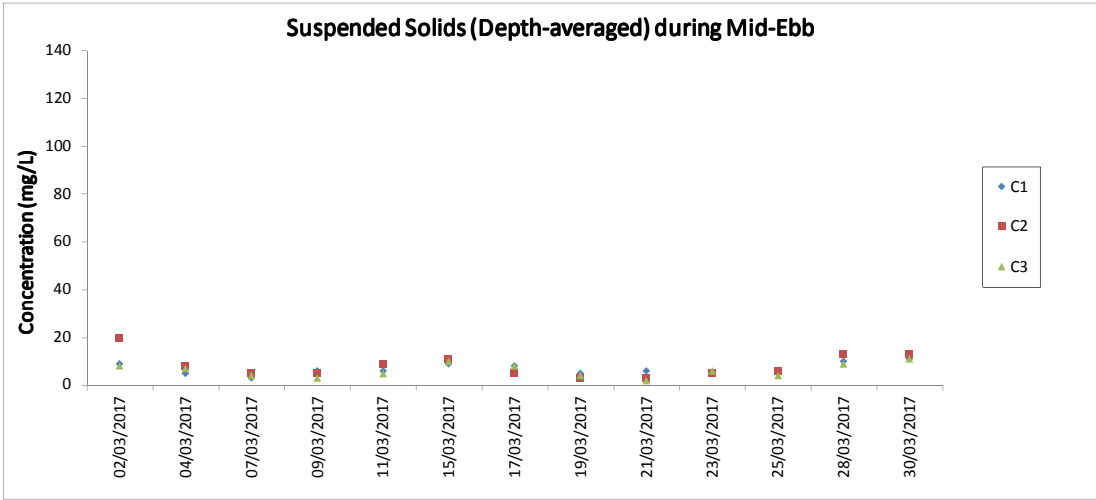




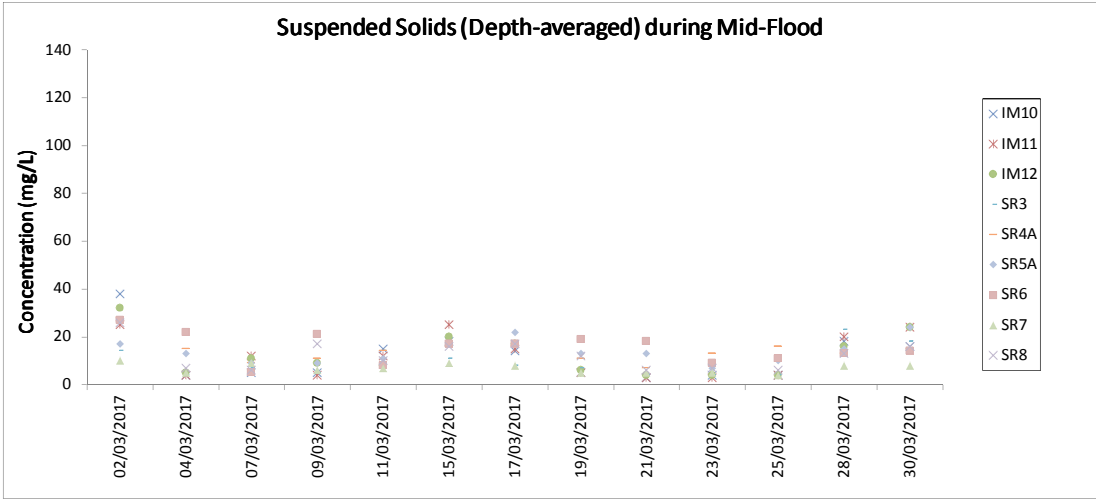
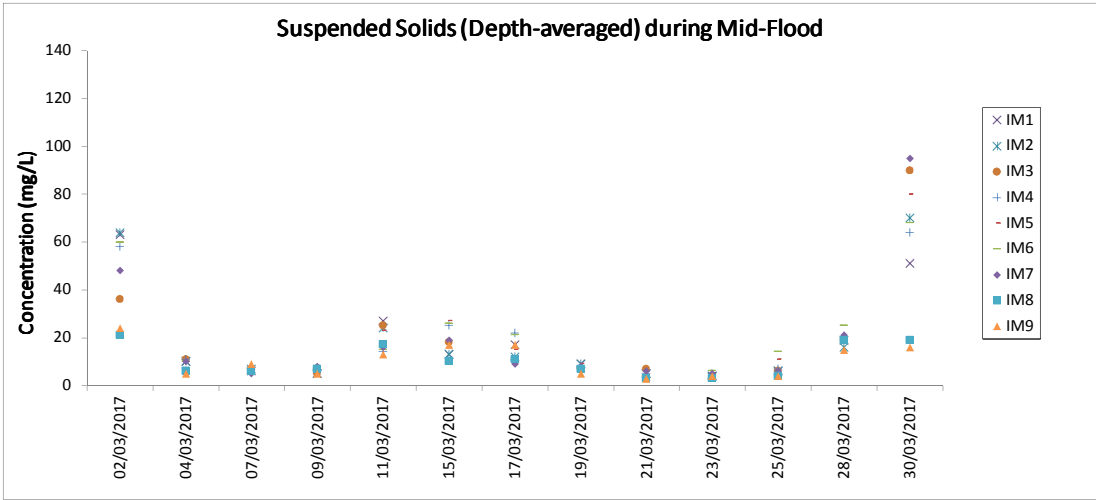
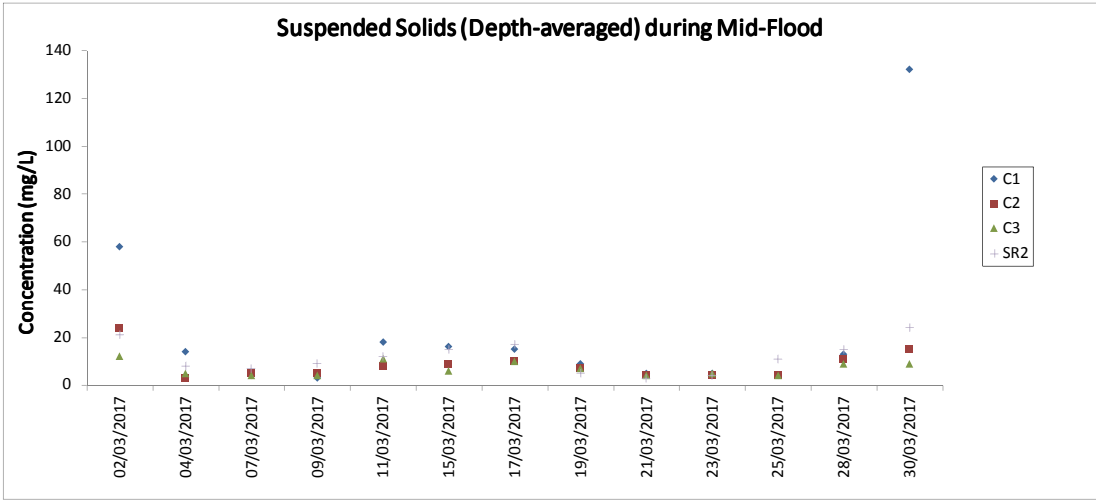
Note: The action and limit level of Turbidity can be referred to Table 4.2 of the monthly EM&A report.



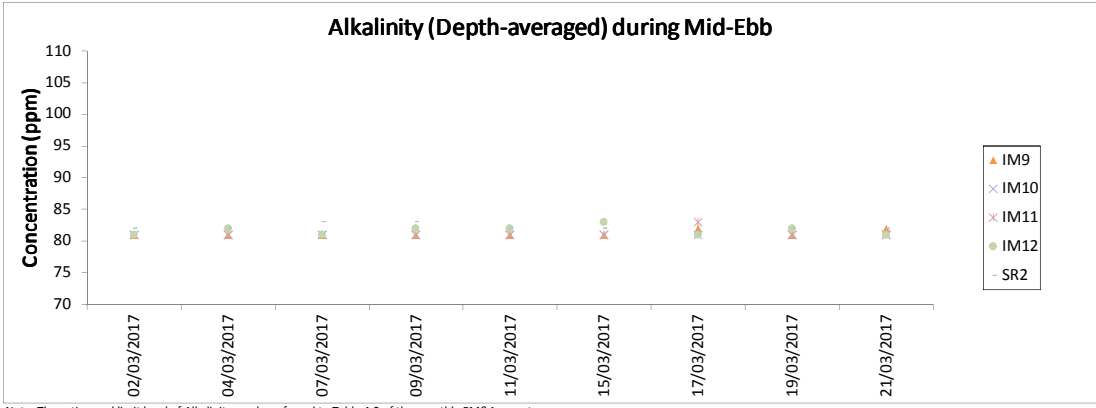
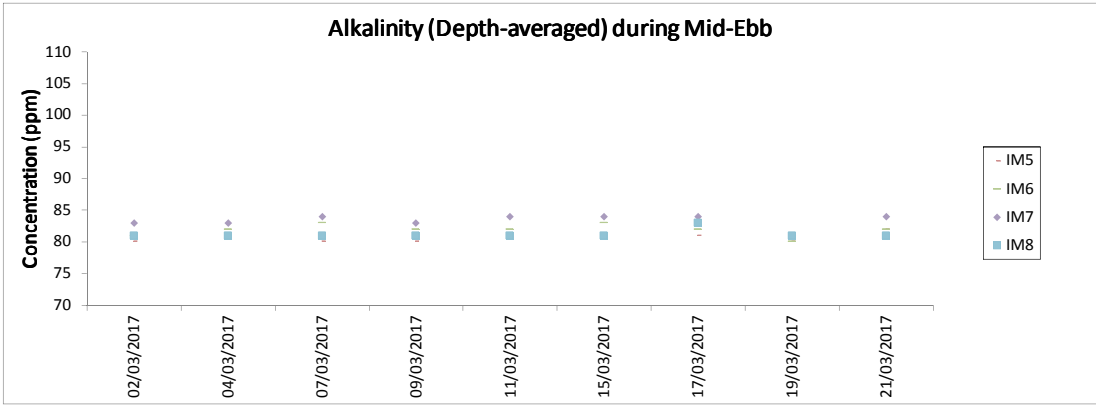
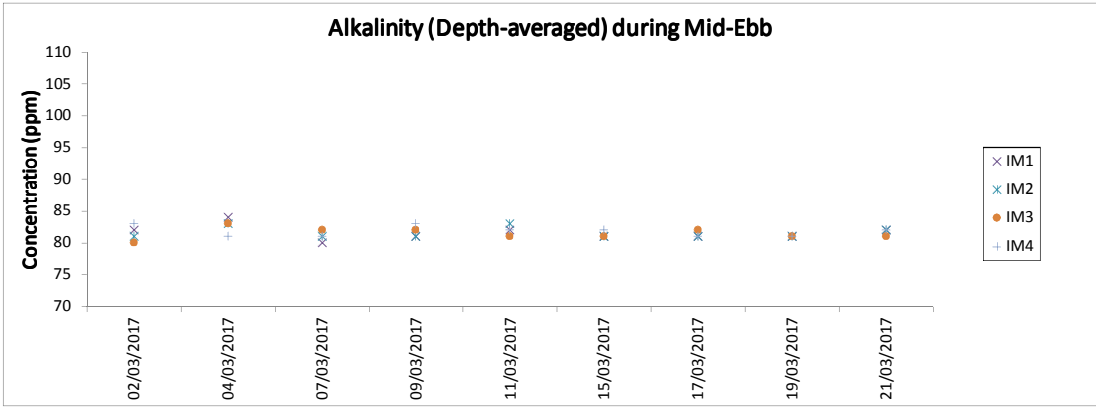
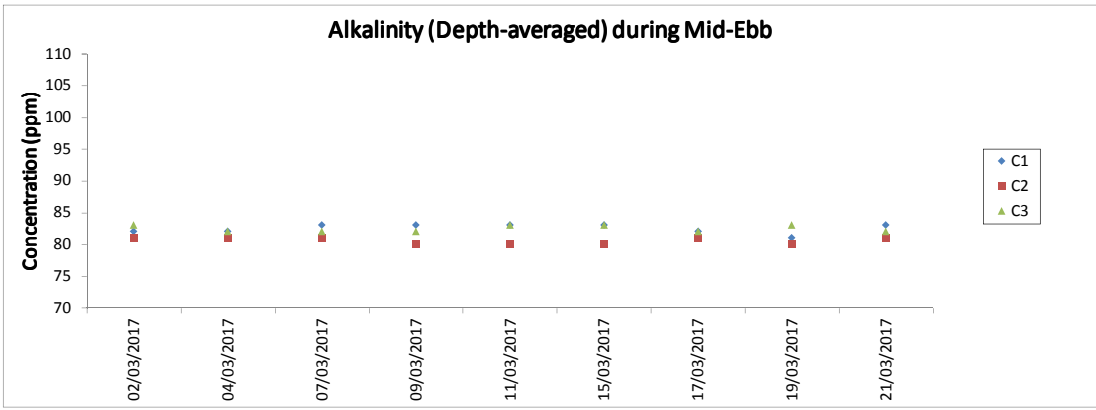
Note: The action and limit level of Turbidity can be referred to Table 4.2 of the monthly EM&A report.



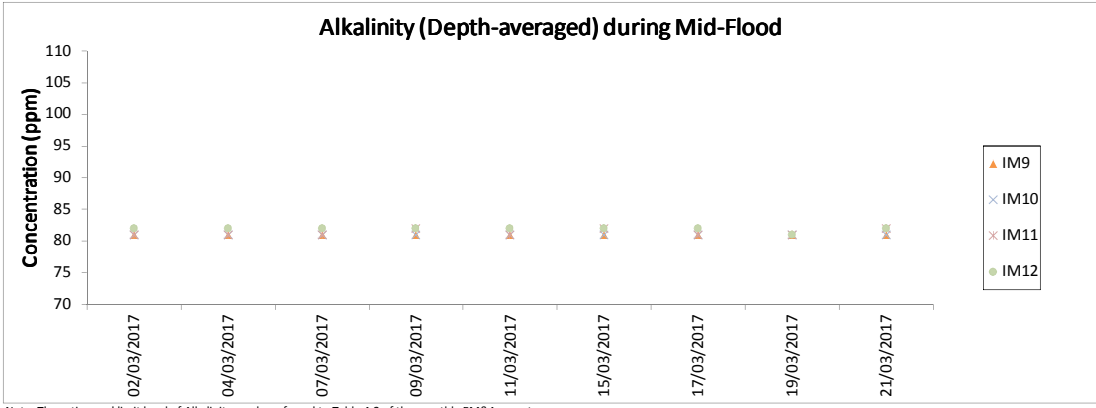
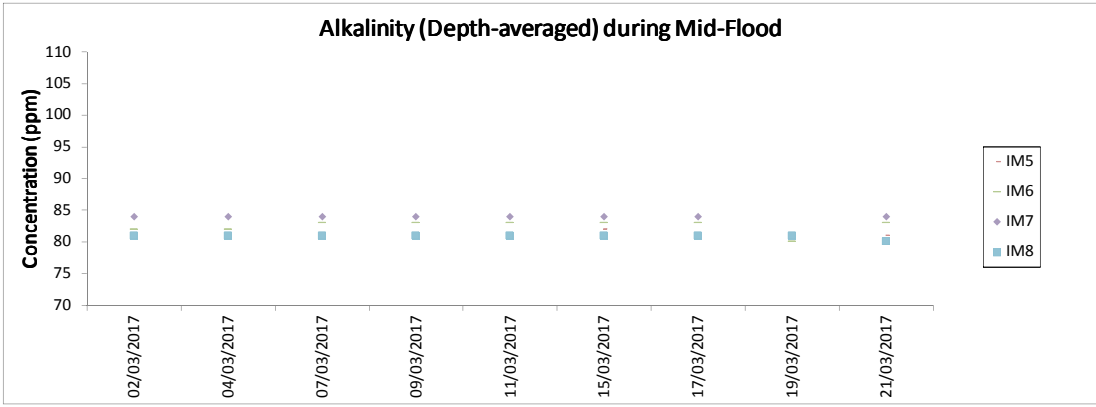
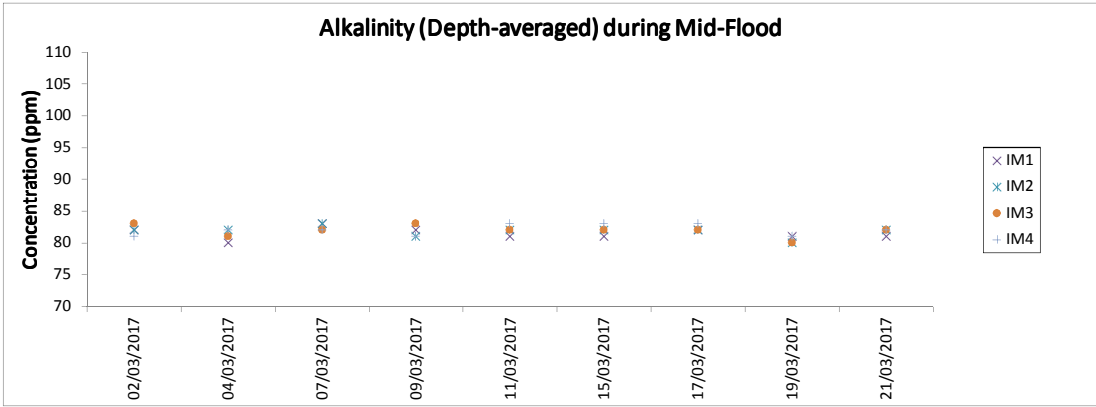
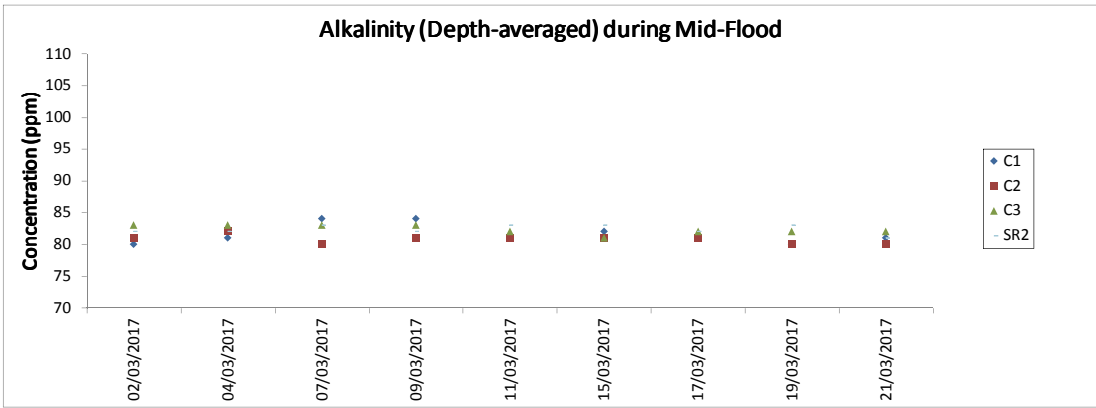
Note: The action and limit level of Suspended Solids can be referred to Table 4.2 of the monthly EM&A report.



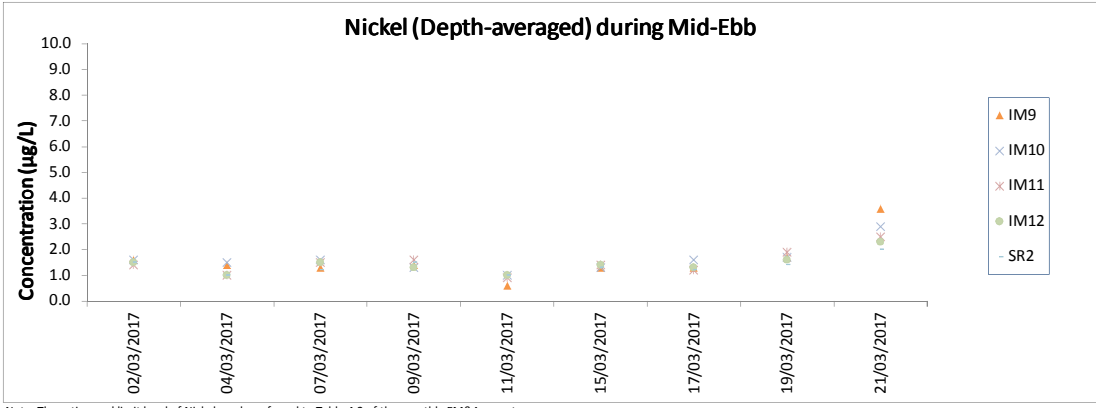
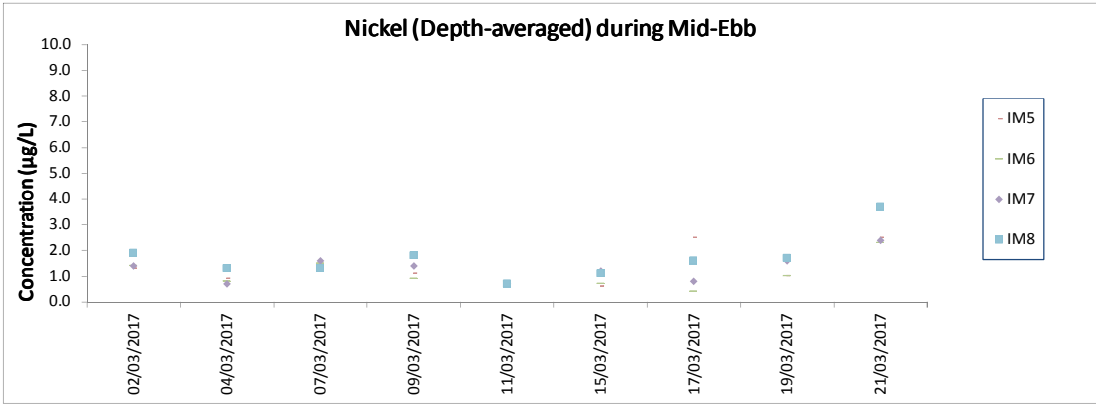
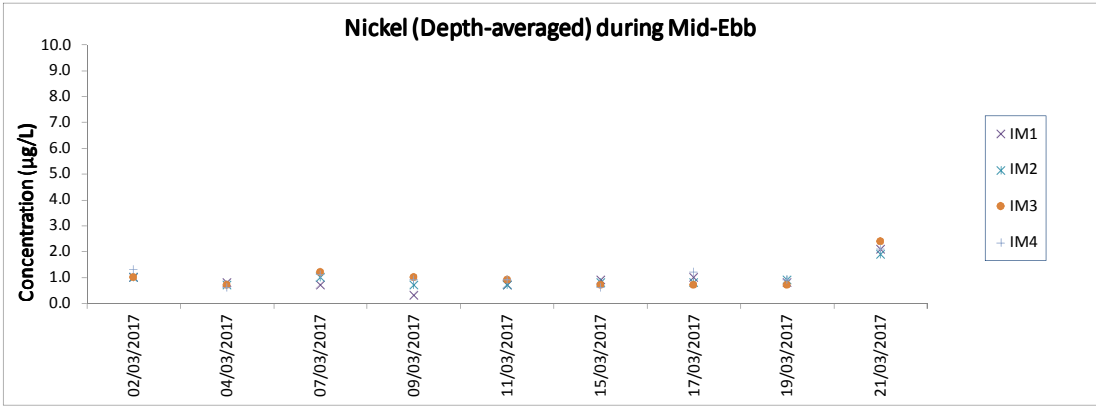
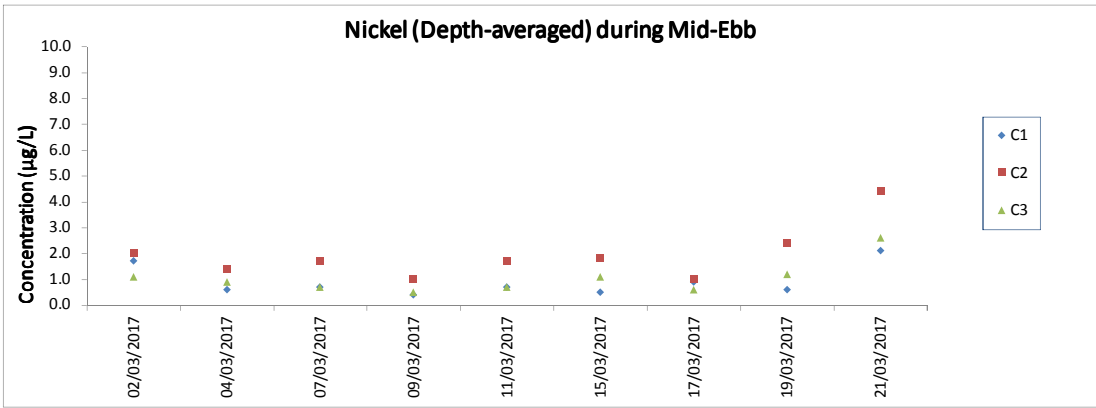
Note: The action and limit level of Suspended Solids can be referred to Table 4.2 of the monthly EM&A report.



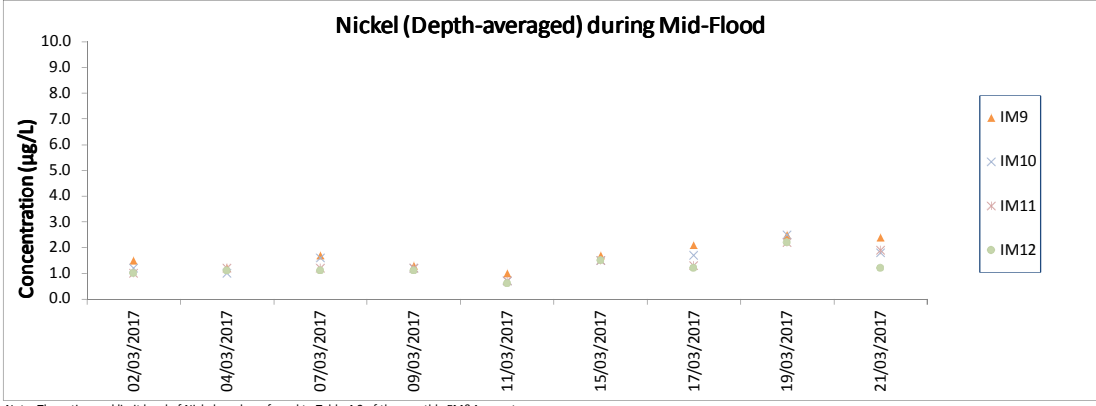
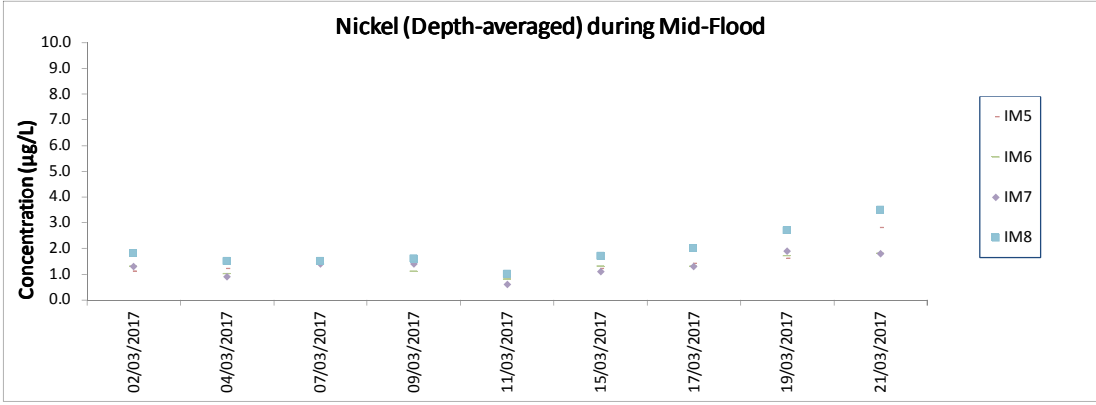
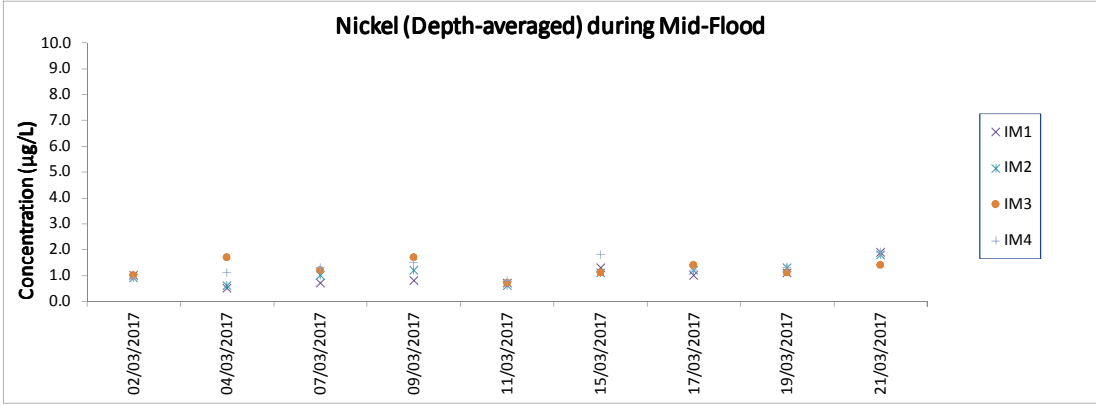
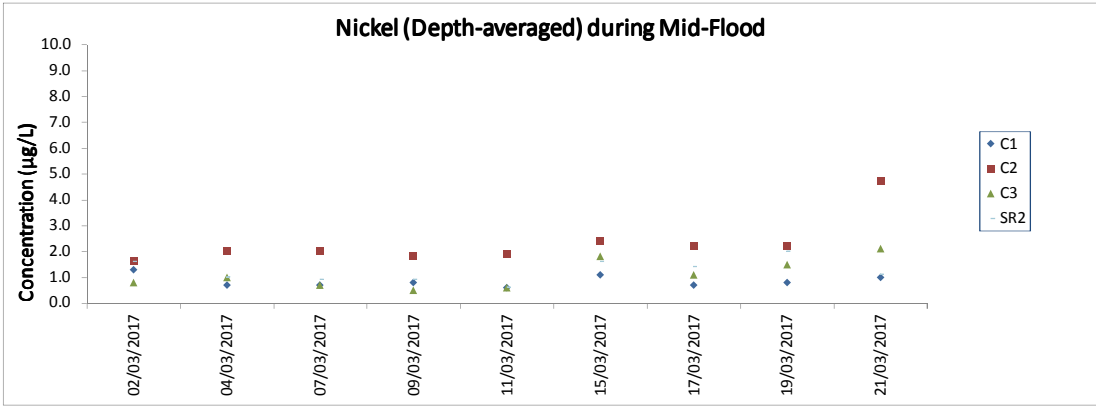
Note: The action and limit level of Alkalinity can be referred to Table 4.2 of the monthly EM&A report.



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



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



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

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
05-Jan-17	AW	2	4.86	WINTER	32166	3RS ET
05-Jan-17	WL	1	12.53	WINTER	32166	3RS ET
05-Jan-17	WL	2	14.38	WINTER	32166	3RS ET
05-Jan-17	SWL	2	6.01	WINTER	32166	3RS ET
06-Jan-17	SWL	1	1.30	WINTER	32166	3RS ET
06-Jan-17	SWL	2	61.20	WINTER	32166	3RS ET
06-Jan-17	SWL	3	1.80	WINTER	32166	3RS ET
09-Jan-17	NWL	1	6.90	WINTER	32166	3RS ET
09-Jan-17	NWL	2	60.46	WINTER	32166	3RS ET
09-Jan-17	NWL	3	15.64	WINTER	32166	3RS ET
10-Jan-17	NEL	2	2.10	WINTER	32166	3RS ET
10-Jan-17	NEL	3	29.22	WINTER	32166	3RS ET
10-Jan-17	NEL	4	16.68	WINTER	32166	3RS ET
12-Jan-17	NWL	2	20.09	WINTER	32166	3RS ET
12-Jan-17	NWL	3	61.01	WINTER	32166	3RS ET
12-Jan-17	NWL	4	0.70	WINTER	32166	3RS ET
13-Jan-17	SWL	2	27.52	WINTER	32166	3RS ET
13-Jan-17	SWL	3	28.90	WINTER	32166	3RS ET
13-Jan-17	SWL	4	5.33	WINTER	32166	3RS ET
19-Jan-17	AW	1	4.59	WINTER	32166	3RS ET
19-Jan-17	WL	2	7.20	WINTER	32166	3RS ET
19-Jan-17	WL	3	14.13	WINTER	32166	3RS ET
19-Jan-17	WL	4	11.03	WINTER	32166	3RS ET
19-Jan-17	SWL	3	5.88	WINTER	32166	3RS ET
19-Jan-17	SWL	4	1.00	WINTER	32166	3RS ET
20-Jan-17	NEL	2	23.30	WINTER	32166	3RS ET
20-Jan-17	NEL	3	22.00	WINTER	32166	3RS ET
20-Jan-17	NEL	4	1.60	WINTER	32166	3RS ET
06-Feb-17	AW	2	2.94	WINTER	32166	3RS ET
06-Feb-17	AW	3	1.93	WINTER	32166	3RS ET
06-Feb-17	WL	2	17.00	WINTER	32166	3RS ET
06-Feb-17	WL	3	9.79	WINTER	32166	3RS ET
06-Feb-17	WL	4	3.53	WINTER	32166	3RS ET
06-Feb-17	SWL	4	2.54	WINTER	32166	3RS ET
06-Feb-17	SWL	5	4.35	WINTER	32166	3RS ET
07-Feb-17	NEL	2	5.80	WINTER	32166	3RS ET
07-Feb-17	NEL	3	25.76	WINTER	32166	3RS ET
07-Feb-17	NEL	4	11.47	WINTER	32166	3RS ET
07-Feb-17	NEL	5	4.27	WINTER	32166	3RS ET
09-Feb-17	SWL	2	0.90	WINTER	32166	3RS ET
09-Feb-17	SWL	3	14.17	WINTER	32166	3RS ET
09-Feb-17	SWL	4	15.23	WINTER	32166	3RS ET
09-Feb-17	SWL	5	32.40	WINTER	32166	3RS ET
10-Feb-17	NEL	1	3.30	WINTER	32166	3RS ET
10-Feb-17	NEL	2	8.03	WINTER	32166	3RS ET
10-Feb-17	NEL	3	34.17	WINTER	32166	3RS ET

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
10-Feb-17	NEL	4	2.00	WINTER	32166	3RS ET
16-Feb-17	AW	1	4.73	WINTER	32166	3RS ET
16-Feb-17	WL	1	18.36	WINTER	32166	3RS ET
16-Feb-17	WL	2	3.10	WINTER	32166	3RS ET
16-Feb-17	WL	3	6.07	WINTER	32166	3RS ET
17-Feb-17	SWL	1	37.70	WINTER	32166	3RS ET
17-Feb-17	SWL	2	29.26	WINTER	32166	3RS ET
20-Feb-17	NWL	1	27.20	WINTER	32166	3RS ET
20-Feb-17	NWL	2	48.10	WINTER	32166	3RS ET
21-Feb-17	NWL	3	14.17	WINTER	32166	3RS ET
21-Feb-17	NWL	4	38.72	WINTER	32166	3RS ET
21-Feb-17	NWL	5	21.81	WINTER	32166	3RS ET
06-Mar-17	NWL	1	5.00	SPRING	32166	3RS ET
06-Mar-17	NWL	2	17.10	SPRING	32166	3RS ET
06-Mar-17	NWL	3	50.10	SPRING	32166	3RS ET
06-Mar-17	NWL	4	3.70	SPRING	32166	3RS ET
10-Mar-17	NEL	1	1.00	SPRING	32166	3RS ET
10-Mar-17	NEL	2	11.75	SPRING	32166	3RS ET
10-Mar-17	NEL	3	34.25	SPRING	32166	3RS ET
13-Mar-17	AW	2	4.72	SPRING	32166	3RS ET
13-Mar-17	WL	2	12.18	SPRING	32166	3RS ET
13-Mar-17	WL	3	20.82	SPRING	32166	3RS ET
13-Mar-17	SWL	2	12.50	SPRING	32166	3RS ET
14-Mar-17	SWL	3	22.60	SPRING	32166	3RS ET
14-Mar-17	SWL	4	18.78	SPRING	32166	3RS ET
14-Mar-17	SWL	5	16.02	SPRING	32166	3RS ET
20-Mar-17	SWL	2	36.22	SPRING	32166	3RS ET
20-Mar-17	SWL	3	26.04	SPRING	32166	3RS ET
21-Mar-17	AW	1	4.85	SPRING	32166	3RS ET
21-Mar-17	WL	1	9.95	SPRING	32166	3RS ET
21-Mar-17	WL	2	19.08	SPRING	32166	3RS ET
21-Mar-17	WL	3	2.33	SPRING	32166	3RS ET
21-Mar-17	SWL	2	0.38	SPRING	32166	3RS ET
21-Mar-17	SWL	3	6.43	SPRING	32166	3RS ET
23-Mar-17	NWL	1	32.61	SPRING	32166	3RS ET
23-Mar-17	NWL	2	43.77	SPRING	32166	3RS ET
24-Mar-17	NEL	3	27.72	SPRING	32166	3RS ET
24-Mar-17	NEL	4	18.88	SPRING	32166	3RS ET

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. January and February 2017) 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.
05-Jan-17	1	1010	CWD	9	WL	2	822	ON	3RS ET	22.2934	113.8612	WINTER	NONE
05-Jan-17	2	1051	CWD	2	WL	2	1361	ON	3RS ET	22.2738	113.8482	WINTER	NONE
05-Jan-17	3	1118	CWD	2	WL	2	118	ON	3RS ET	22.2584	113.8381	WINTER	NONE
05-Jan-17	4	1150	CWD	1	WL	2	65	ON	3RS ET	22.2413	113.8339	WINTER	NONE
05-Jan-17	5	1208	CWD	1	WL	2	86	ON	3RS ET	22.2321	113.8316	WINTER	NONE
05-Jan-17	6	1223	CWD	1	WL	1	115	ON	3RS ET	22.2248	113.8374	WINTER	NONE
05-Jan-17	7	1315	CWD	11	WL	1	84	ON	3RS ET	22.2049	113.8249	WINTER	PAIR TRAWLER
05-Jan-17	8	1347	CWD	1	WL	1	49	ON	3RS ET	22.1961	113.8317	WINTER	NONE
05-Jan-17	9	1356	CWD	1	WL	1	59	ON	3RS ET	22.1960	113.8416	WINTER	NONE
05-Jan-17	10	1436	CWD	5	SWL	2	190	ON	3RS ET	22.1726	113.8527	WINTER	PAIR TRAWLER
06-Jan-17	1	1006	CWD	2	SWL	2	N/A	OFF	3RS ET	22.1938	113.8471	WINTER	NONE
06-Jan-17	2	1453	CWD	1	SWL	1	N/A	OFF	3RS ET	22.2230	113.9451	WINTER	NONE
12-Jan-17	1	1121	CWD	5	NWL	2	260	ON	3RS ET	22.3739	113.8775	WINTER	NONE
13-Jan-17	1	1016	CWD	3	SWL	3	N/A	OFF	3RS ET	22.1948	113.8538	WINTER	NONE
13-Jan-17	2	1036	CWD	11	SWL	3	435	ON	3RS ET	22.1998	113.8688	WINTER	NONE
13-Jan-17	3	1334	CWD	2	SWL	2	41	ON	3RS ET	22.1547	113.9030	WINTER	NONE
13-Jan-17	4	1434	CWD	1	SWL	3	44	ON	3RS ET	22.1847	113.9278	WINTER	NONE
19-Jan-17	1	0926	CWD	3	AW	1	23	ON	3RS ET	22.3010	113.8864	WINTER	NONE
19-Jan-17	2	1022	CWD	1	WL	3	383	ON	3RS ET	22.2791	113.8613	WINTER	NONE
19-Jan-17	3	1107	CWD	6	WL	2	690	ON	3RS ET	22.2594	113.8430	WINTER	GILLNET
19-Jan-17	4	1131	CWD	1	WL	3	950	ON	3RS ET	22.2504	113.8413	WINTER	NONE
19-Jan-17	5	1217	CWD	2	WL	3	N/A	OFF	3RS ET	22.2234	113.8320	WINTER	NONE
19-Jan-17	6	1403	CWD	4	SWL	3	69	ON	3RS ET	22.1951	113.8587	WINTER	NONE
19-Jan-17	7	1436	CWD	2	WL	3	N/A	OFF	3RS ET	22.2198	113.8341	WINTER	NONE
19-Jan-17	8	1439	CWD	3	WL	3	N/A	OFF	3RS ET	22.2218	113.8351	WINTER	NONE
06-Feb-17	1	1013	CWD	3	WL	3	854	ON	3RS ET	22.2826	113.8613	WINTER	NONE
06-Feb-17	2	1140	CWD	3	WL	2	243	ON	3RS ET	22.2237	113.8323	WINTER	NONE
06-Feb-17	3	1218	CWD	3	WL	3	23	ON	3RS ET	22.2147	113.8300	WINTER	NONE
16-Feb-17	1	0957	CWD	2	AW	1	16	ON	3RS ET	22.2920	113.8749	WINTER	GILLNET
16-Feb-17	2	1037	CWD	5	WL	1	220	ON	3RS ET	22.2953	113.8612	WINTER	NONE
16-Feb-17	3	1121	CWD	4	WL	1	58	ON	3RS ET	22.2628	113.8564	WINTER	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
16-Feb-17	4	1147	CWD	3	WL	1	244	ON	3RS ET	22.2602	113.8470	WINTER	NONE
16-Feb-17	5	1206	CWD	2	WL	1	53	ON	3RS ET	22.2535	113.8348	WINTER	NONE
16-Feb-17	6	1215	CWD	3	WL	1	20	ON	3RS ET	22.2504	113.8378	WINTER	NONE
16-Feb-17	7	1231	CWD	7	WL	1	173	ON	3RS ET	22.2418	113.8473	WINTER	NONE
16-Feb-17	8	1304	CWD	2	WL	1	19	ON	3RS ET	22.2414	113.8428	WINTER	NONE
16-Feb-17	9	1315	CWD	2	WL	1	31	ON	3RS ET	22.2382	113.8266	WINTER	NONE
16-Feb-17	10	1333	CWD	14	WL	1	226	ON	3RS ET	22.2308	113.8381	WINTER	PURSE SEINE
16-Feb-17	11	1420	CWD	2	WL	2	452	ON	3RS ET	22.2139	113.8244	WINTER	NONE
16-Feb-17	12	1449	CWD	1	WL	2	29	ON	3RS ET	22.2051	113.8191	WINTER	NONE
17-Feb-17	1	1048	FP	2	SWL	2	174	ON	3RS ET	22.1586	113.9356	WINTER	NONE
17-Feb-17	2	1238	CWD	3	SWL	1	1380	ON	3RS ET	22.2005	113.9079	WINTER	PURSE SEINE
17-Feb-17	3	1349	CWD	2	SWL	1	50	ON	3RS ET	22.1889	113.8879	WINTER	NONE
17-Feb-17	4	1551	CWD	1	SWL	1	N/A	OFF	3RS ET	22.2009	113.8934	WINTER	NONE
17-Feb-17	5	1559	CWD	1	SWL	1	N/A	OFF	3RS ET	22.2025	113.9121	WINTER	NONE
20-Feb-17	1	1137	CWD	1	NWL	2	259	ON	3RS ET	22.3819	113.8760	WINTER	NONE
21-Feb-17	1	1137	CWD	4	NWL	3	64	ON	3RS ET	22.3866	113.8776	WINTER	NONE
13-Mar-17	1	1130	CWD	4	WL	2	374	ON	3RS ET	22.2229	113.8269	SPRING	NONE
14-Mar-17	1	1045	FP	1	SWL	4	N/A	OFF	3RS ET	22.1827	113.9356	SPRING	NONE
14-Mar-17	2	1214	FP	1	SWL	5	N/A	ON	3RS ET	22.1461	113.9081	SPRING	NONE
20-Mar-17	1	1025	CWD	1	SWL	2	209	ON	3RS ET	22.2001	113.8688	SPRING	GILLNET
20-Mar-17	2	1211	FP	1	SWL	2	100	ON	3RS ET	22.1622	113.8978	SPRING	NONE
20-Mar-17	3	1257	CWD	1	SWL	2	36	ON	3RS ET	22.1846	113.9041	SPRING	NONE
20-Mar-17	4	1432	FP	3	SWL	3	108	ON	3RS ET	22.1470	113.9278	SPRING	NONE
20-Mar-17	5	1439	FP	2	SWL	3	63	ON	3RS ET	22.1472	113.9326	SPRING	NONE
20-Mar-17	6	1457	FP	2	SWL	3	24	ON	3RS ET	22.1816	113.9359	SPRING	NONE
21-Mar-17	1	1025	CWD	4	WL	1	202	ON	3RS ET	22.2603	113.8533	SPRING	PURSE SEINE
21-Mar-17	2	1214	CWD	13	WL	3	397	ON	3RS ET	22.1980	113.8262	SPRING	PURSE SEINE
21-Mar-17	3	1242	CWD	7	WL	2	1163	ON	3RS ET	22.1870	113.8386	SPRING	PURSE SEINE
23-Mar-17	1	1128	CWD	3	NWL	1	123	ON	3RS ET	22.3779	113.8767	SPRING	NONE
23-Mar-17	2	1222	CWD	3	NWL	1	19	ON	3RS ET	22.3733	113.8881	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. January and February 2017) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report.

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

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

A total of 401.40 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 8 on-effort sightings and total number of 36 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in March 2017 are shown as below:

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

$$STG = \frac{8}{401.40} \times 100 = 1.99$$

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

$$ANI = \frac{36}{401.40} \times 100 = 8.97$$

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

A total of 1144.90 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 46 on-effort sightings and total number of 170 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)









$$STG = \frac{46}{1144.90} \times 100 = 4.02$$

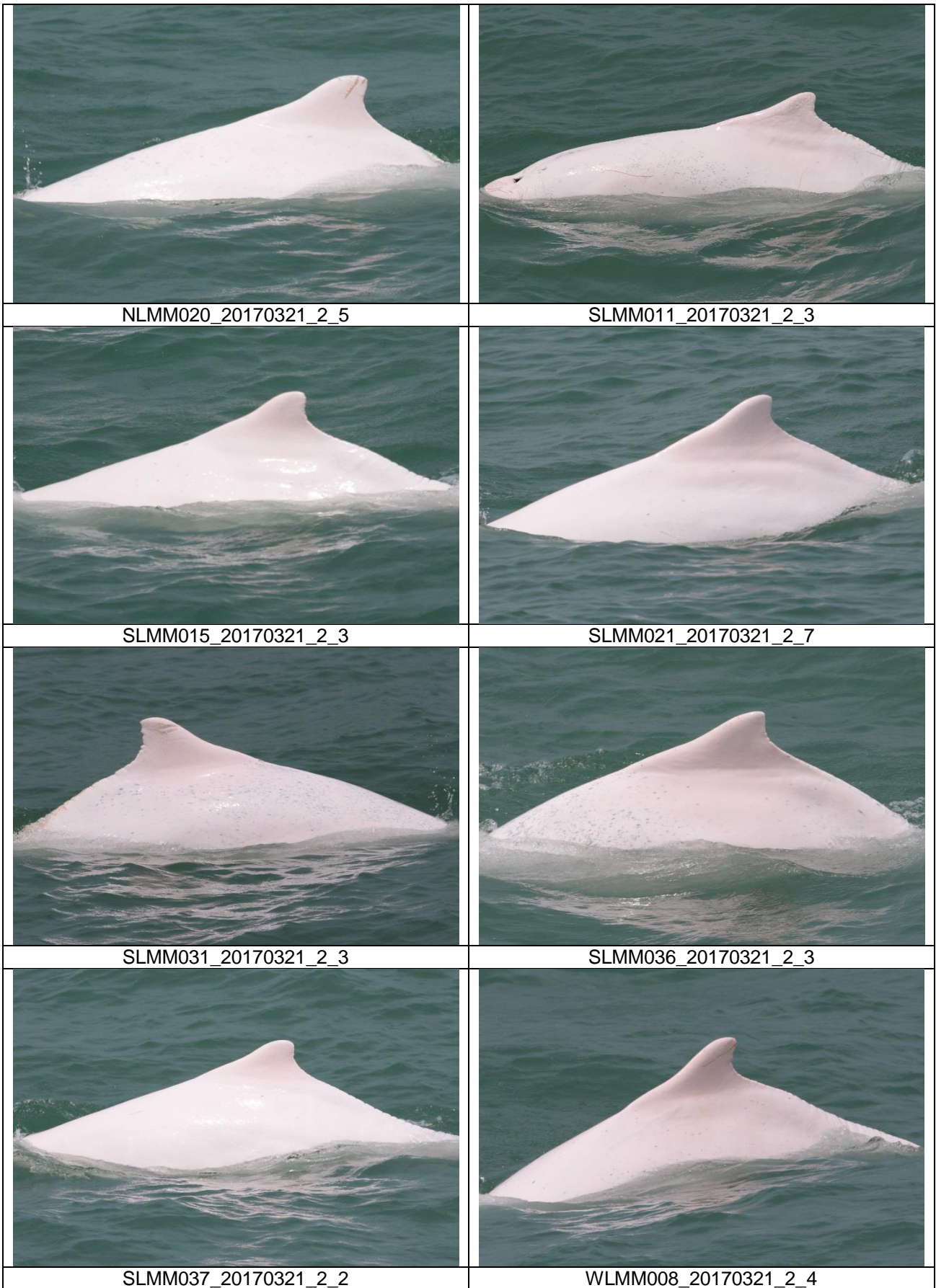
Running Quarterly Encounter Rate by Number of Dolphins (ANI)

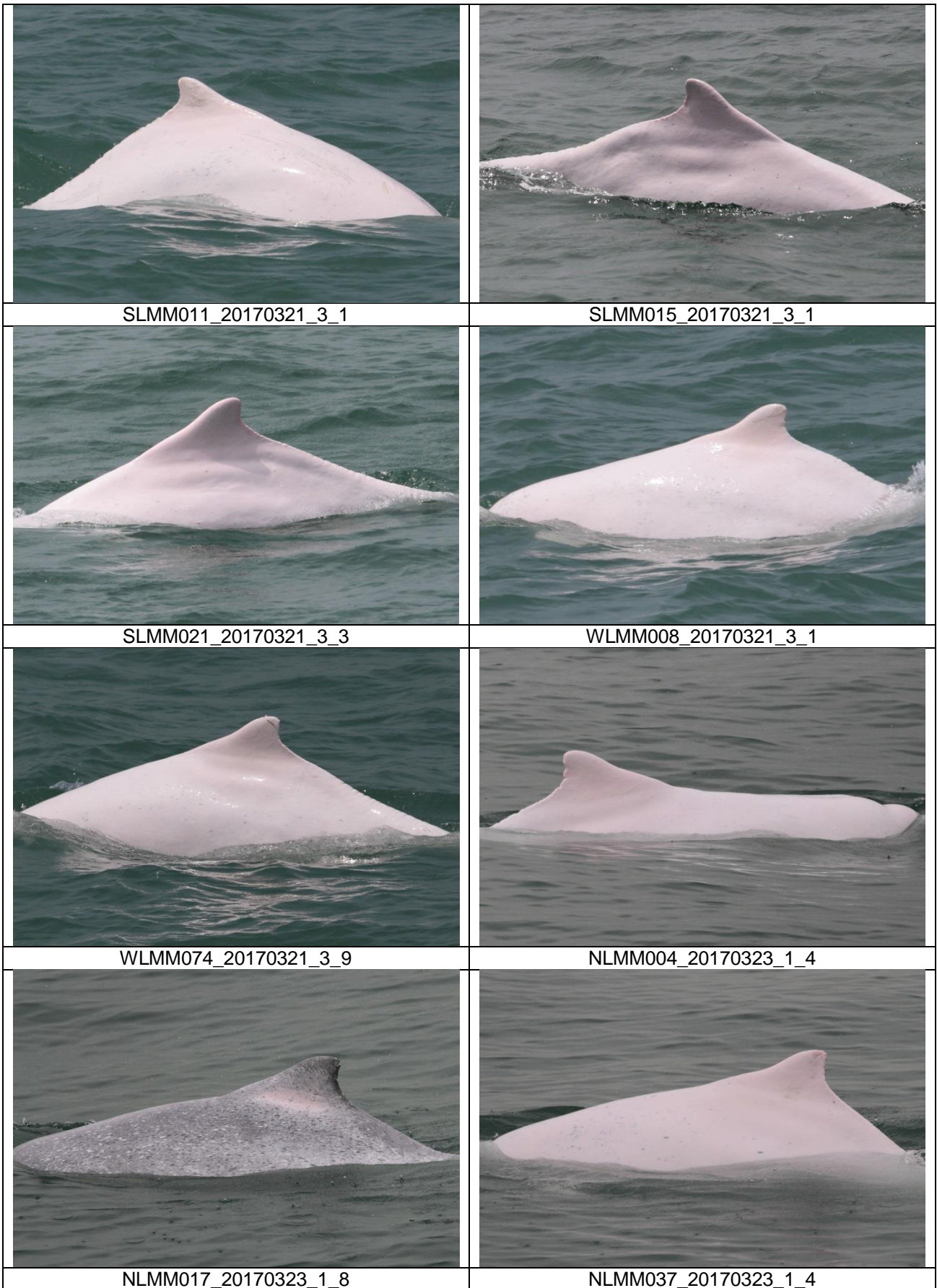
$$ANI = \frac{170}{1144.90} \times 100 = 14.85$$




CWD Small Vessel Line-transect Survey

Photo Identification

	
SLMM014_20170320_1_2	SLMM014_20170320_3_5
	
SLMM028_20170321_1_3	SLMM030_20170321_1_5
	
WLMM011_20170321_1_5	WLMM043_20170321_1_8
	
NLMM015_20170321_2_1	NLMM019_20170321_2_4





	
<p>NLMM004_20170323_2_8</p>	<p>NLMM017_20170323_2_3</p>
	
<p>NLMM037_20170323_2_3</p>	

CWD Land-based Theodolite Tracking**CWD Groups by Survey Date**

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
20/Mar/17	Lung Kwu Chau	8:50	14:50	6:00	2	3	1	2
21/Mar/17	Lung Kwu Chau	8:47	14:47	6:00	2	3	0	N/A
24/Mar/17	Sha Chau	8:48	14:48	6:00	4	2	0	N/A
28/Mar/17	Lung Kwu Chau	8:41	14:41	6:00	2-3	2	5	1-4
29/Mar/17	Sha Chau	8:38	14:38	6:00	2-4	3	0	N/A

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

Ecological Monitoring

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



Photo record of View 1



Photo record of View 2



Appendix E. 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	397150	Receipt acknowledged by EPD on 15 Jan 2016
		Site Office	397151	
		Stockpiling Area	398015	Receipt acknowledged by EPD on 18 Jan 2016
		Sheung Sha Chau	405860	Receipt acknowledged by EPD on 5 Aug 2016
Construction Noise Permit (General Works)	Launching Site	Launching Site	GW-RS0968-16	Valid from 21 Sep 2016 to 20 Mar 2017 (Superseded by GW-RS0243-17 on 21 Mar 2017)
			GW-RS0243-17	Valid from 21 Mar 2017 to 20 Sep 2017
		Stockpiling Area	GW-RS0974-16	Valid from 23 Sep 2016 to 22 Mar 2017 (Superseded by GW-RS0242-17 on 23 Mar 2017)
			GW-RS0242-17	Valid from 23 Mar 2017 to 22 Sep 2017
Discharge License under WPCO	Launching Site	Stockpiling Area	GW-RW0642-16	Valid from 13 Nov 2016 to 26 Mar 2017
			WT00024249-2016	Approved on 25 Apr 2016
Registration as Chemical Waste Producer	Launching Site	Stockpiling Area	WT00024250-2016	Approved on 25 Apr 2016
			WPN 5213-951-L2902-01	Update the Registration on 3 Oct 2016
			WPN 5213-951-L2902-02	Update the Registration on 3 Oct 2016

	Description		Permit/ Reference No.	Status
	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-RS0123-17	Valid from 12 Feb 2017 to 11 Aug 2017 (Superseded by GW-RS0247-17 on 20 Mar 2017)
	Construction Noise Permit (General Works)	Works area of 3201	GW-RS0247-17	Valid from 20 Mar 2017 to 19 Sep 2017
	Registration as Chemical Waste Producer	Works area of 3201	WPN 5213-951-P3231-01	Completion of Registration on 9 Sep 2016
	Bill Account for disposal		A/C 7025760	Approval granted from EPD on 31 Aug 2016
3202	Notification of Construction Work under APCO	Works area of 3202	407624	Receipt acknowledged by EPD on 15 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3202	GW-RS155-17	Valid from 24 Feb 2017 to 23 Aug 2017
	Construction Noise Permit (General Works)	Site Office of 3202	GW-RS145-17	Valid from 21 Feb 2017 to 20 Aug 2017
	Registration as Chemical Waste Producer	Works area of 3202	WPN 5213-951-P3967-01	Completion of Registration on 24 Oct 2016
	Bill Account for disposal		A/C 7025739	Approval granted from EPD on 31 August 2016
3203	Notification of Construction Work under APCO	Works area of 3203	407053	Receipt acknowledged by EPD on 2 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3203	GW-RS0014-17	Valid from 12 Jan 2017 to 11 Jun 2017
	Registration as Chemical Waste Producer	Works area of 3203	WPN 5213-951-S3954-01	Update the Registration on 12 Dec 2016
	Bill Account for disposal		7025846	Approval granted from EPD on 9 Sep 2016
3204	Notification of Construction Work under APCO	Works area of 3204	406446	Receipt acknowledged by EPD on 19 Aug 2016
		Site Office of 3204	407726	Receipt acknowledged by EPD on 19 Sep 2016

	Description		Permit/ Reference No.	Status
		Site Office of 3204	413046	Receipt acknowledged by EPD on 3 Feb 2017
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS135-17	Valid from 17 Feb 2017 to 16 Aug 2017 (Superseded by GW-RS213-17 on 13 Mar 2017)
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS213-17	Valid from 14 Mar 2017 to 13 Sep 2017
	Construction Noise Permit (General Works)	Site Office of 3204	GW-RS136-17	Valid from 17 Feb 2017 to 16 Aug 2017
	Registration as Chemical Waste Producer	Site office of 3204	WPN 5213-951-C4102-01	Completion of Registration on 15 Sep 2016
	Registration as Chemical Waste Producer	Works Area of 3204	WPN 5213-951-C4102-02	Completion of Registration on 17 Mar 2017
	Bill Account for disposal		A/C 7025969	Approval granted from EPD on 21 Sep 2016
3205	Notification of Construction Work under APCO	Works area of 3205	409041	Receipt acknowledged by EPD on 19 Oct 2016
	Registration as Chemical Waste Producer	Works Area of 3205	WPN 5213-951-B2502-01	Completion of Registration on 13 Jan 2017
	Registration as Chemical Waste Producer	Works Area of 3205	WPN 5111-421-B2509-01	Completion of Registration on 22 Feb 2017
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0152-17	Valid from 23 Feb 2017 to 22 Aug 2017
	Bill Account for disposal	Works area of 3205	A/C 7026295	Approval granted from EPD on 9 Nov 2016
3206	Notification of Construction Work under APCO	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oct 2016
	Registration as Chemical Waste Producer	Site office of 3206	WPN 5213-951-Z4035-01	Completion of Registration on 18 Nov 2016
	Registration as Chemical Waste Producer	Works area of 3206	WPN 5213-951-Z4035-02	Completion of Registration on 18 Nov 2016
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0119-17	Valid from 10 Feb 2017 to 10 Jun 2017
	Construction Noise Permit (General Works)	Site Office of 3206	GW-RS0148-17	Valid from 27 Feb 2017 to 10 Jun 2017
	Bill Account for disposal	Works area of 3206	70263986	Approval granted from EPD on 16 Nov 2016

	Description		Permit/ Reference No.	Status
3212	Construction Noise Permit (General Works)	Works Area of 3212	GW-RS0151-17	Valid from 1 Mar 2017 to 1 Jun 2017

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

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

Statistics for Complaints, Notifications of Summons and Prosecution

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

Appendix G. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 31 March 2017)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 31 March 2017)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
01-Mar	08:17	3A061	YFT	Arrival	12.4	-	-
01-Mar	08:35	8S210	MFM	Arrival	11.6	-	-
01-Mar	09:59	3A071	MFM	Arrival	12.1	-	-
01-Mar	10:39	3A081	ZUI	Arrival	13.4	-	-
01-Mar	10:49	8S212	MFM	Arrival	10.8	-	-
01-Mar	11:13	8S121	MFM	Departure	12.4	-	-
01-Mar	11:21	3A063	YFT	Arrival	12.4	-	-
01-Mar	12:08	3A168	YFT	Departure	10.7	-	-
01-Mar	12:21	3A181	ZUI	Departure	13.1	-	-
01-Mar	12:53	8S215	MFM	Arrival	11.8	-	-
01-Mar	13:03	3A064	YFT	Arrival	12.6	-	-
01-Mar	13:17	8S123	MFM	Departure	12.0	-	-
01-Mar	14:01	3A082	ZUI	Arrival	12.5	-	-
01-Mar	14:16	3A164	YFT	Departure	12.6	-	-
01-Mar	14:17	3A182	ZUI	Departure	12.7	-	-
01-Mar	15:02	3A065	YFT	Arrival	12.2	-	-
01-Mar	16:28	3A167	YFT	Departure	12.5	-	-
01-Mar	16:37	8S218	MFM	Arrival	11.8	-	-
01-Mar	16:43	3A083	ZUI	Arrival	13.6	-	-
01-Mar	16:58	8S126	MFM	Departure	11.6	-	-
01-Mar	17:02	3A067	YFT	Arrival	12.6	-	-
01-Mar	17:02	3A183	ZUI	Departure	13.1	-	-
01-Mar	19:00	3A166	YFT	Departure	12.3	-	-
01-Mar	19:41	3A084	ZUI	Arrival	13.3	-	-
01-Mar	20:04	3A185	ZUI	Departure	13.0	-	-
01-Mar	20:59	3A169	YFT	Departure	12.9	-	-
01-Mar	21:05	8S2113	MFM	Arrival	11.8	-	-
01-Mar	21:56	8S522	MFM	Departure	12.1	-	-
02-Mar	08:20	3A061	YFT	Arrival	11.6	-	-
02-Mar	08:34	8S210	MFM	Arrival	9.8	-	-
02-Mar	09:58	3A071	MFM	Arrival	11.1	-	-
02-Mar	10:40	3A081	ZUI	Arrival	13.6	-	-
02-Mar	10:58	8S212	MFM	Arrival	11.6	-	-
02-Mar	11:20	3A063	YFT	Arrival	11.1	-	-
02-Mar	11:29	8S121	MFM	Departure	12.1	-	-
02-Mar	12:15	3A181	ZUI	Departure	13.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
02-Mar	12:25	3A168	YFT	Departure	11.2	-	-
02-Mar	12:57	8S215	MFM	Arrival	11.3	-	-
02-Mar	13:03	3A064	YFT	Arrival	12.6	-	-
02-Mar	13:18	8S123	MFM	Departure	13.0	-	-
02-Mar	14:02	3A082	ZUI	Arrival	10.8	-	-
02-Mar	14:14	3A164	YFT	Departure	12.8	-	-
02-Mar	14:18	3A182	ZUI	Departure	12.4	-	-
02-Mar	14:57	3A065	YFT	Arrival	11.9	-	-
02-Mar	16:22	3A167	YFT	Departure	11.6	-	-
02-Mar	16:34	3A083	ZUI	Arrival	13.8	-	-
02-Mar	16:40	8S218	MFM	Arrival	11.7	-	-
02-Mar	17:00	3A183	ZUI	Departure	12.6	-	-
02-Mar	17:04	3A067	YFT	Arrival	12.6	-	-
02-Mar	17:16	8S126	MFM	Departure	13.1	-	-
02-Mar	19:03	3A166	YFT	Departure	13.0	-	-
02-Mar	19:42	3A084	ZUI	Arrival	13.6	-	-
02-Mar	20:04	3A185	ZUI	Departure	13.7	-	-
02-Mar	20:44	8S2113	MFM	Arrival	12.5	-	-
02-Mar	21:00	3A169	YFT	Departure	12.0	-	-
03-Mar	08:16	3A061	YFT	Arrival	11.6	-	-
03-Mar	08:35	8S210	MFM	Arrival	11.0	-	-
03-Mar	09:56	3A071	MFM	Arrival	11.8	-	-
03-Mar	10:46	8S212	MFM	Arrival	12.0	-	-
03-Mar	10:47	3A081	ZUI	Arrival	13.6	-	-
03-Mar	11:13	8S121	MFM	Departure	11.7	-	-
03-Mar	11:24	3A063	YFT	Arrival	12.0	-	-
03-Mar	12:15	3A168	YFT	Departure	12.7	-	-
03-Mar	12:15	3A181	ZUI	Departure	13.1	-	-
03-Mar	12:39	8S215	MFM	Arrival	13.1	-	-
03-Mar	12:59	3A064	YFT	Arrival	10.7	-	-
03-Mar	13:14	8S123	MFM	Departure	12.7	-	-
03-Mar	13:47	3A082	ZUI	Arrival	13.0	-	-
03-Mar	14:13	3A182	ZUI	Departure	13.7	-	-
03-Mar	14:22	3A164	YFT	Departure	11.7	-	-
03-Mar	14:57	3A065	YFT	Arrival	13.0	-	-
03-Mar	16:13	3A167	YFT	Departure	12.8	-	-
03-Mar	16:37	8S218	MFM	Arrival	12.0	-	-
03-Mar	16:39	3A083	ZUI	Arrival	13.6	-	-
03-Mar	17:03	8S126	MFM	Departure	13.0	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
03-Mar	17:04	3A183	ZUI	Departure	13.4	-	-
03-Mar	17:06	3A067	YFT	Arrival	11.4	-	-
03-Mar	19:00	3A166	YFT	Departure	13.0	-	-
03-Mar	19:46	3A084	ZUI	Arrival	13.3	-	-
03-Mar	20:06	3A185	ZUI	Departure	13.4	-	-
03-Mar	20:53	8S2113	MFM	Arrival	11.8	-	-
03-Mar	21:06	3A169	YFT	Departure	12.7	-	-
03-Mar	22:00	8S522	MFM	Departure	12.9	-	-
04-Mar	08:17	3A061	YFT	Arrival	12.0	-	-
04-Mar	08:27	8S210	MFM	Arrival	11.5	-	-
04-Mar	09:54	3A071	MFM	Arrival	11.6	-	-
04-Mar	10:37	8S212	MFM	Arrival	12.1	-	-
04-Mar	10:48	3A081	ZUI	Arrival	13.4	-	-
04-Mar	11:05	8S121	MFM	Departure	11.2	-	-
04-Mar	11:15	3A063	YFT	Arrival	12.8	-	-
04-Mar	12:15	3A181	ZUI	Departure	12.9	-	-
04-Mar	12:20	3A168	YFT	Departure	13.6	-	-
04-Mar	12:47	8S215	MFM	Arrival	12.0	-	-
04-Mar	12:57	3A064	YFT	Arrival	8.7	-	-
04-Mar	13:17	8S123	MFM	Departure	12.2	-	-
04-Mar	13:44	3A082	ZUI	Arrival	10.9	-	-
04-Mar	14:22	3A164	YFT	Departure	13.2	-	-
04-Mar	14:25	3A182	ZUI	Departure	13.9	-	-
04-Mar	14:49	3A065	YFT	Arrival	13.4	-	-
04-Mar	16:14	3A167	YFT	Departure	13.6	-	-
04-Mar	16:36	3A083	ZUI	Arrival	12.9	-	-
04-Mar	16:39	8S218	MFM	Arrival	10.8	-	-
04-Mar	16:55	3A067	YFT	Arrival	12.3	-	-
04-Mar	17:05	3A183	ZUI	Departure	13.8	-	-
04-Mar	17:11	8S126	MFM	Departure	11.6	-	-
04-Mar	19:01	3A166	YFT	Departure	12.1	-	-
04-Mar	19:46	3A084	ZUI	Arrival	13.1	-	-
04-Mar	20:08	3A185	ZUI	Departure	12.7	-	-
04-Mar	20:58	8S2113	MFM	Arrival	11.4	-	-
04-Mar	21:02	3A169	YFT	Departure	11.9	-	-
04-Mar	21:59	8S522	MFM	Departure	12.0	-	-
05-Mar	08:13	3A061	YFT	Arrival	13.1	-	-
05-Mar	08:33	8S210	MFM	Arrival	11.6	-	-
05-Mar	09:53	3A071	MFM	Arrival	11.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
05-Mar	10:39	3A081	ZUI	Arrival	13.4	-	-
05-Mar	10:45	8S212	MFM	Arrival	10.5	-	-
05-Mar	11:13	8S121	MFM	Departure	11.6	-	-
05-Mar	11:23	3A063	YFT	Arrival	12.5	-	-
05-Mar	12:17	3A181	ZUI	Departure	13.4	-	-
05-Mar	12:18	3A168	YFT	Departure	12.9	-	-
05-Mar	12:48	8S215	MFM	Arrival	11.9	-	-
05-Mar	12:55	3A064	YFT	Arrival	13.1	-	-
05-Mar	13:13	8S123	MFM	Departure	11.4	-	-
05-Mar	13:44	3A082	ZUI	Arrival	13.3	-	-
05-Mar	14:19	3A182	ZUI	Departure	12.8	-	-
05-Mar	14:22	3A164	YFT	Departure	13.4	-	-
05-Mar	14:50	3A065	YFT	Arrival	12.7	-	-
05-Mar	16:21	3A167	YFT	Departure	13.0	-	-
05-Mar	16:31	3A083	ZUI	Arrival	13.6	-	-
05-Mar	16:45	8S218	MFM	Arrival	12.5	-	-
05-Mar	16:57	3A067	YFT	Arrival	13.4	-	-
05-Mar	17:04	3A183	ZUI	Departure	13.1	-	-
05-Mar	17:07	8S126	MFM	Departure	12.4	-	-
05-Mar	19:01	3A166	YFT	Departure	12.1	-	-
05-Mar	19:42	3A084	ZUI	Arrival	13.5	-	-
05-Mar	20:12	3A185	ZUI	Departure	13.4	-	-
05-Mar	20:55	8S2113	MFM	Arrival	12.8	-	-
05-Mar	21:01	3A169	YFT	Departure	9.5	-	-
05-Mar	21:52	8S522	MFM	Departure	12.4	-	-
06-Mar	08:15	3A061	YFT	Arrival	12.5	-	-
06-Mar	08:35	8S210	MFM	Arrival	12.8	-	-
06-Mar	09:51	3A071	MFM	Arrival	12.5	-	-
06-Mar	10:42	8S212	MFM	Arrival	12.7	-	-
06-Mar	10:48	3A081	ZUI	Arrival	13.2	-	-
06-Mar	11:04	8S121	MFM	Departure	13.0	-	-
06-Mar	11:23	3A063	YFT	Arrival	12.7	-	-
06-Mar	12:15	3A168	YFT	Departure	13.8	-	-
06-Mar	12:21	3A181	ZUI	Departure	12.9	-	-
06-Mar	12:49	8S215	MFM	Arrival	12.2	-	-
06-Mar	12:53	3A064	YFT	Arrival	12.6	-	-
06-Mar	13:15	8S123	MFM	Departure	11.9	-	-
06-Mar	13:49	3A082	ZUI	Arrival	12.2	-	-
06-Mar	14:19	3A164	YFT	Departure	12.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
06-Mar	14:19	3A182	ZUI	Departure	13.7	-	-
06-Mar	15:08	3A065	YFT	Arrival	13.3	-	-
06-Mar	16:18	3A167	YFT	Departure	13.8	-	-
06-Mar	16:33	3A083	ZUI	Arrival	13.8	-	-
06-Mar	16:48	3A067	YFT	Arrival	12.7	-	-
06-Mar	16:49	8S218	MFM	Arrival	12.4	-	-
06-Mar	16:58	3A183	ZUI	Departure	13.4	-	-
06-Mar	17:08	8S126	MFM	Departure	12.9	-	-
06-Mar	18:53	3A166	YFT	Departure	9.7	-	-
06-Mar	19:43	3A084	ZUI	Arrival	13.6	-	-
06-Mar	20:05	3A185	ZUI	Departure	13.6	-	-
06-Mar	20:51	8S2113	MFM	Arrival	13.0	-	-
06-Mar	21:13	3A169	YFT	Departure	12.4	-	-
06-Mar	22:01	8S522	MFM	Departure	13.3	-	-
07-Mar	08:14	3A061	YFT	Arrival	13.2	-	-
07-Mar	08:29	8S210	MFM	Arrival	12.8	-	-
07-Mar	09:44	3A071	MFM	Arrival	13.0	-	-
07-Mar	10:34	8S212	MFM	Arrival	12.8	-	-
07-Mar	10:44	3A081	ZUI	Arrival	13.9	-	-
07-Mar	11:04	8S121	MFM	Departure	13.1	-	-
07-Mar	11:20	3A063	YFT	Arrival	12.5	-	-
07-Mar	12:13	3A168	YFT	Departure	12.0	-	-
07-Mar	12:14	3A181	ZUI	Departure	13.3	-	-
07-Mar	12:50	8S215	MFM	Arrival	11.5	-	-
07-Mar	13:01	3A064	YFT	Arrival	13.1	-	-
07-Mar	13:11	8S123	MFM	Departure	11.2	-	-
07-Mar	13:59	3A082	ZUI	Arrival	11.7	-	-
07-Mar	14:15	3A182	ZUI	Departure	12.9	-	-
07-Mar	14:16	3A164	YFT	Departure	13.4	-	-
07-Mar	14:55	3A065	YFT	Arrival	12.5	-	-
07-Mar	16:19	3A167	YFT	Departure	13.1	-	-
07-Mar	16:33	3A083	ZUI	Arrival	13.3	-	-
07-Mar	16:48	8S218	MFM	Arrival	12.5	-	-
07-Mar	17:04	8S126	MFM	Departure	12.0	-	-
07-Mar	17:05	3A183	ZUI	Departure	13.3	-	-
07-Mar	17:07	3A067	YFT	Arrival	10.0	-	-
07-Mar	18:59	3A166	YFT	Departure	10.7	-	-
07-Mar	19:43	3A084	ZUI	Arrival	13.9	-	-
07-Mar	20:09	3A185	ZUI	Departure	13.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
07-Mar	20:53	8S2113	MFM	Arrival	12.7	-	-
07-Mar	20:56	3A169	YFT	Departure	12.6	-	-
07-Mar	21:57	8S522	MFM	Departure	12.8	-	-
08-Mar	08:15	3A061	YFT	Arrival	11.6	-	-
08-Mar	08:29	8S210	MFM	Arrival	12.3	-	-
08-Mar	09:45	3A071	MFM	Arrival	12.9	-	-
08-Mar	10:41	8S212	MFM	Arrival	12.5	-	-
08-Mar	10:47	3A081	ZUI	Arrival	12.7	-	-
08-Mar	11:18	8S121	MFM	Departure	12.4	-	-
08-Mar	11:23	3A063	YFT	Arrival	12.7	-	-
08-Mar	12:14	3A181	ZUI	Departure	13.9	-	-
08-Mar	12:14	3A168	YFT	Departure	11.9	-	-
08-Mar	12:47	8S215	MFM	Arrival	11.2	-	-
08-Mar	13:02	3A064	YFT	Arrival	12.2	-	-
08-Mar	13:17	8S123	MFM	Departure	13.3	-	-
08-Mar	13:18	3A082	ZUI	Arrival	12.0	-	-
08-Mar	14:11	3A182	ZUI	Departure	12.1	-	-
08-Mar	14:15	3A164	YFT	Departure	12.1	-	-
08-Mar	14:57	3A065	YFT	Arrival	11.8	-	-
08-Mar	16:17	3A167	YFT	Departure	12.8	-	-
08-Mar	16:39	3A083	ZUI	Arrival	11.6	-	-
08-Mar	16:39	8S218	MFM	Arrival	11.5	-	-
08-Mar	17:00	3A067	YFT	Arrival	12.5	-	-
08-Mar	17:02	8S126	MFM	Departure	14.0	-	-
08-Mar	17:05	3A183	ZUI	Departure	13.2	-	-
08-Mar	18:58	3A166	YFT	Departure	13.4	-	-
08-Mar	19:43	3A084	ZUI	Arrival	12.9	-	-
08-Mar	20:01	3A185	ZUI	Departure	13.1	-	-
08-Mar	21:03	3A169	YFT	Departure	13.4	-	-
08-Mar	21:11	8S2113	MFM	Arrival	12.2	-	-
08-Mar	21:52	8S522	MFM	Departure	12.5	-	-
09-Mar	08:18	3A061	YFT	Arrival	11.8	-	-
09-Mar	08:28	8S210	MFM	Arrival	7.7	-	-
09-Mar	09:48	3A071	MFM	Arrival	13.2	-	-
09-Mar	10:36	8S212	MFM	Arrival	12.3	-	-
09-Mar	10:42	3A081	ZUI	Arrival	13.0	-	-
09-Mar	11:00	8S121	MFM	Departure	12.8	-	-
09-Mar	11:21	3A063	YFT	Arrival	12.1	-	-
09-Mar	12:13	3A168	YFT	Departure	13.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
09-Mar	12:15	3A181	ZUI	Departure	13.1	-	-
09-Mar	12:46	3A064	YFT	Arrival	12.8	-	-
09-Mar	12:47	8S215	MFM	Arrival	11.6	-	-
09-Mar	13:19	8S123	MFM	Departure	12.3	-	-
09-Mar	13:59	3A082	ZUI	Arrival	12.3	-	-
09-Mar	14:15	3A182	ZUI	Departure	13.4	-	-
09-Mar	14:18	3A164	YFT	Departure	12.1	-	-
09-Mar	14:59	3A065	YFT	Arrival	11.9	-	-
09-Mar	16:15	3A167	YFT	Departure	12.7	-	-
09-Mar	16:40	8S218	MFM	Arrival	13.1	-	-
09-Mar	16:42	3A083	ZUI	Arrival	12.6	-	-
09-Mar	17:02	3A067	YFT	Arrival	11.9	-	-
09-Mar	17:03	3A183	ZUI	Departure	12.9	-	-
09-Mar	17:06	8S126	MFM	Departure	12.5	-	-
09-Mar	18:55	3A166	YFT	Departure	12.8	-	-
09-Mar	19:45	3A084	ZUI	Arrival	12.9	-	-
09-Mar	20:05	3A185	ZUI	Departure	13.3	-	-
09-Mar	20:59	8S2113	MFM	Arrival	11.8	-	-
09-Mar	20:59	3A169	YFT	Departure	12.2	-	-
10-Mar	08:16	3A061	YFT	Arrival	11.8	-	-
10-Mar	08:34	8S210	MFM	Arrival	12.5	-	-
10-Mar	09:48	3A071	MFM	Arrival	11.8	-	-
10-Mar	10:35	8S212	MFM	Arrival	10.4	-	-
10-Mar	10:48	3A081	ZUI	Arrival	12.9	-	-
10-Mar	11:01	8S121	MFM	Departure	11.6	-	-
10-Mar	11:29	3A063	YFT	Arrival	12.0	-	-
10-Mar	12:12	3A181	ZUI	Departure	13.5	-	-
10-Mar	12:13	3A168	YFT	Departure	11.7	-	-
10-Mar	12:46	8S215	MFM	Arrival	12.4	-	-
10-Mar	13:00	3A064	YFT	Arrival	12.7	-	-
10-Mar	13:12	8S123	MFM	Departure	12.6	-	-
10-Mar	13:59	3A082	ZUI	Arrival	11.1	-	-
10-Mar	14:18	3A182	ZUI	Departure	12.6	-	-
10-Mar	14:31	3A164	YFT	Departure	12.0	-	-
10-Mar	14:54	3A065	YFT	Arrival	11.7	-	-
10-Mar	16:19	3A167	YFT	Departure	11.7	-	-
10-Mar	16:35	3A083	ZUI	Arrival	12.9	-	-
10-Mar	16:38	8S218	MFM	Arrival	11.6	-	-
10-Mar	17:04	3A183	ZUI	Departure	13.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
10-Mar	17:05	3A067	YFT	Arrival	11.7	-	-
10-Mar	17:10	8S126	MFM	Departure	11.9	-	-
10-Mar	18:59	3A166	YFT	Departure	12.3	-	-
10-Mar	19:48	3A084	ZUI	Arrival	11.9	-	-
10-Mar	20:09	3A185	ZUI	Departure	13.5	-	-
10-Mar	20:53	8S2113	MFM	Arrival	13.0	-	-
10-Mar	21:01	3A169	YFT	Departure	12.2	-	-
10-Mar	21:55	8S522	MFM	Departure	13.2	-	-
11-Mar	08:15	3A061	YFT	Arrival	11.7	-	-
11-Mar	08:32	8S210	MFM	Arrival	11.4	-	-
11-Mar	09:56	3A071	MFM	Arrival	12.2	-	-
11-Mar	10:36	8S212	MFM	Arrival	10.6	-	-
11-Mar	10:46	3A081	ZUI	Arrival	11.8	-	-
11-Mar	11:00	8S121	MFM	Departure	11.6	-	-
11-Mar	11:18	3A063	YFT	Arrival	12.7	-	-
11-Mar	12:15	3A181	ZUI	Departure	12.9	-	-
11-Mar	12:18	3A168	YFT	Departure	12.2	-	-
11-Mar	12:54	8S215	MFM	Arrival	13.0	-	-
11-Mar	13:11	3A064	YFT	Arrival	11.7	-	-
11-Mar	13:19	8S123	MFM	Departure	12.2	-	-
11-Mar	14:02	3A082	ZUI	Arrival	11.4	-	-
11-Mar	14:15	3A182	ZUI	Departure	12.4	-	-
11-Mar	14:16	3A164	YFT	Departure	11.7	-	-
11-Mar	15:01	3A065	YFT	Arrival	12.7	-	-
11-Mar	16:15	3A167	YFT	Departure	12.4	-	-
11-Mar	16:43	8S218	MFM	Arrival	13.3	-	-
11-Mar	16:46	3A083	ZUI	Arrival	12.8	-	-
11-Mar	16:59	3A067	YFT	Arrival	11.9	-	-
11-Mar	17:10	8S126	MFM	Departure	12.6	-	-
11-Mar	17:16	3A183	ZUI	Departure	13.0	-	-
11-Mar	19:10	3A166	YFT	Departure	11.9	-	-
11-Mar	19:49	3A084	ZUI	Arrival	12.4	-	-
11-Mar	20:15	3A185	ZUI	Departure	13.0	-	-
11-Mar	20:51	8S2113	MFM	Arrival	12.5	-	-
11-Mar	20:52	3A169	YFT	Departure	13.2	-	-
11-Mar	21:58	8S522	MFM	Departure	13.4	-	-
12-Mar	08:17	3A061	YFT	Arrival	11.2	-	-
12-Mar	08:34	8S210	MFM	Arrival	12.7	-	-
12-Mar	10:07	3A071	MFM	Arrival	11.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
12-Mar	10:41	8S212	MFM	Arrival	12.5	-	-
12-Mar	10:42	3A081	ZUI	Arrival	12.4	-	-
12-Mar	11:11	8S121	MFM	Departure	13.0	-	-
12-Mar	11:16	3A063	YFT	Arrival	13.4	-	-
12-Mar	12:22	3A181	ZUI	Departure	13.1	-	-
12-Mar	12:24	3A168	YFT	Departure	13.5	-	-
12-Mar	12:44	8S215	MFM	Arrival	12.5	-	-
12-Mar	12:59	3A064	YFT	Arrival	11.6	-	-
12-Mar	13:20	8S123	MFM	Departure	10.6	-	-
12-Mar	13:27	3A082	ZUI	Arrival	13.8	-	-
12-Mar	14:12	3A182	ZUI	Departure	13.3	-	-
12-Mar	14:14	3A164	YFT	Departure	11.5	-	-
12-Mar	14:52	3A065	YFT	Arrival	13.1	-	-
12-Mar	16:15	3A167	YFT	Departure	13.4	-	-
12-Mar	16:36	3A083	ZUI	Arrival	12.6	-	-
12-Mar	16:39	8S218	MFM	Arrival	12.2	-	-
12-Mar	17:04	8S126	MFM	Departure	13.3	-	-
12-Mar	17:05	3A067	YFT	Arrival	11.6	-	-
12-Mar	17:07	3A183	ZUI	Departure	13.2	-	-
12-Mar	18:58	3A166	YFT	Departure	10.8	-	-
12-Mar	19:48	3A084	ZUI	Arrival	12.6	-	-
12-Mar	20:09	3A185	ZUI	Departure	12.9	-	-
12-Mar	20:53	8S2113	MFM	Arrival	12.6	-	-
12-Mar	20:59	3A169	YFT	Departure	13.4	-	-
12-Mar	21:53	8S522	MFM	Departure	12.6	-	-
13-Mar	08:27	3A061	YFT	Arrival	12.7	-	-
13-Mar	08:57	8S210	MFM	Arrival	11.5	-	-
13-Mar	10:27	3A071	MFM	Arrival	11.4	-	-
13-Mar	10:54	8S212	MFM	Arrival	11.4	-	-
13-Mar	11:12	8S121	MFM	Departure	11.6	-	-
13-Mar	11:26	3A063	YFT	Arrival	12.7	-	-
13-Mar	12:14	3A168	YFT	Departure	12.9	-	-
13-Mar	12:51	8S215	MFM	Arrival	10.4	-	-
13-Mar	12:53	3A064	YFT	Arrival	12.8	-	-
13-Mar	13:20	8S123	MFM	Departure	11.0	-	-
13-Mar	13:47	3A082	ZUI	Arrival	13.1	-	-
13-Mar	14:19	3A164	YFT	Departure	12.8	-	-
13-Mar	14:20	3A182	ZUI	Departure	13.0	-	-
13-Mar	14:58	3A065	YFT	Arrival	12.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
13-Mar	16:14	3A167	YFT	Departure	11.4	-	-
13-Mar	16:35	3A067	YFT	Arrival	12.0	≤5	<1
13-Mar	16:36	3A083	ZUI	Arrival	13.2	-	-
13-Mar	16:44	8S218	MFM	Arrival	10.8	-	-
13-Mar	17:00	3A183	ZUI	Departure	12.9	-	-
13-Mar	17:04	8S126	MFM	Departure	11.3	-	-
13-Mar	19:00	3A166	YFT	Departure	13.1	-	-
13-Mar	19:42	3A084	ZUI	Arrival	12.5	-	-
13-Mar	20:11	3A185	ZUI	Departure	13.4	-	-
13-Mar	20:54	8S2113	MFM	Arrival	11.9	-	-
13-Mar	20:59	3A169	YFT	Departure	13.0	-	-
13-Mar	21:55	8S522	MFM	Departure	11.9	-	-
14-Mar	08:27	3A061	YFT	Arrival	12.7	-	-
14-Mar	08:40	8S210	MFM	Arrival	11.4	-	-
14-Mar	10:18	3A071	MFM	Arrival	12.1	-	-
14-Mar	10:51	3A081	ZUI	Arrival	12.7	-	-
14-Mar	11:07	8S212	MFM	Arrival	12.2	-	-
14-Mar	11:13	3A063	YFT	Arrival	12.3	-	-
14-Mar	11:27	8S121	MFM	Departure	12.3	-	-
14-Mar	12:14	3A181	ZUI	Departure	13.2	-	-
14-Mar	12:15	3A168	YFT	Departure	11.3	-	-
14-Mar	12:48	8S215	MFM	Arrival	12.1	-	-
14-Mar	12:58	3A064	YFT	Arrival	12.8	-	-
14-Mar	13:11	8S123	MFM	Departure	12.5	-	-
14-Mar	13:54	3A082	ZUI	Arrival	13.3	-	-
14-Mar	14:19	3A164	YFT	Departure	13.0	-	-
14-Mar	14:19	3A182	ZUI	Departure	13.3	-	-
14-Mar	14:58	3A065	YFT	Arrival	12.4	-	-
14-Mar	16:13	3A167	YFT	Departure	12.3	-	-
14-Mar	16:37	3A083	ZUI	Arrival	12.3	-	-
14-Mar	16:44	8S218	MFM	Arrival	12.9	-	-
14-Mar	16:55	3A183	ZUI	Departure	13.0	-	-
14-Mar	16:59	3A067	YFT	Arrival	12.6	-	-
14-Mar	17:06	8S126	MFM	Departure	12.7	-	-
14-Mar	19:03	3A166	YFT	Departure	11.6	-	-
14-Mar	19:45	3A084	ZUI	Arrival	12.9	-	-
14-Mar	20:06	3A185	ZUI	Departure	13.0	-	-
14-Mar	20:47	8S2113	MFM	Arrival	13.0	-	-
14-Mar	21:07	3A169	YFT	Departure	12.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
15-Mar	08:15	3A061	YFT	Arrival	12.0	-	-
15-Mar	08:32	8S210	MFM	Arrival	12.8	-	-
15-Mar	09:48	3A071	MFM	Arrival	12.7	-	-
15-Mar	10:48	3A081	ZUI	Arrival	11.9	-	-
15-Mar	10:51	8S212	MFM	Arrival	12.3	-	-
15-Mar	11:27	3A063	YFT	Arrival	12.8	-	-
15-Mar	11:31	8S121	MFM	Departure	13.6	-	-
15-Mar	12:19	3A181	ZUI	Departure	13.7	-	-
15-Mar	12:22	3A168	YFT	Departure	12.9	-	-
15-Mar	12:45	8S215	MFM	Arrival	12.6	-	-
15-Mar	13:03	3A064	YFT	Arrival	11.8	-	-
15-Mar	13:18	8S123	MFM	Departure	12.7	-	-
15-Mar	13:48	3A082	ZUI	Arrival	11.4	-	-
15-Mar	14:17	3A164	YFT	Departure	11.2	-	-
15-Mar	14:20	3A182	ZUI	Departure	12.7	-	-
15-Mar	15:02	3A065	YFT	Arrival	12.7	-	-
15-Mar	16:15	3A167	YFT	Departure	12.8	-	-
15-Mar	16:38	3A083	ZUI	Arrival	12.7	-	-
15-Mar	16:40	8S218	MFM	Arrival	11.5	-	-
15-Mar	17:00	3A067	YFT	Arrival	11.6	-	-
15-Mar	17:04	3A183	ZUI	Departure	12.8	-	-
15-Mar	17:08	8S126	MFM	Departure	12.2	-	-
15-Mar	18:58	3A166	YFT	Departure	12.2	-	-
15-Mar	19:45	3A084	ZUI	Arrival	12.9	-	-
15-Mar	20:08	3A185	ZUI	Departure	13.4	-	-
15-Mar	20:56	8S2113	MFM	Arrival	11.4	-	-
15-Mar	20:57	3A169	YFT	Departure	12.1	-	-
15-Mar	22:09	8S522	MFM	Departure	12.8	-	-
16-Mar	08:16	3A061	YFT	Arrival	12.3	-	-
16-Mar	08:32	8S210	MFM	Arrival	10.0	-	-
16-Mar	09:47	3A071	MFM	Arrival	12.7	-	-
16-Mar	10:35	8S212	MFM	Arrival	12.0	-	-
16-Mar	10:49	3A081	ZUI	Arrival	13.9	-	-
16-Mar	11:08	8S121	MFM	Departure	13.7	-	-
16-Mar	11:23	3A063	YFT	Arrival	13.1	-	-
16-Mar	12:17	3A168	YFT	Departure	13.7	-	-
16-Mar	12:18	3A181	ZUI	Departure	13.2	-	-
16-Mar	12:46	8S215	MFM	Arrival	11.5	-	-
16-Mar	12:57	3A064	YFT	Arrival	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
16-Mar	13:13	8S123	MFM	Departure	11.9	-	-
16-Mar	13:49	3A082	ZUI	Arrival	13.4	-	-
16-Mar	14:12	3A182	ZUI	Departure	13.3	-	-
16-Mar	14:13	3A164	YFT	Departure	12.7	-	-
16-Mar	14:52	3A065	YFT	Arrival	13.4	-	-
16-Mar	16:19	3A167	YFT	Departure	13.9	-	-
16-Mar	16:33	3A083	ZUI	Arrival	13.8	-	-
16-Mar	16:41	8S218	MFM	Arrival	11.6	-	-
16-Mar	16:56	3A067	YFT	Arrival	12.5	-	-
16-Mar	17:03	3A183	ZUI	Departure	12.9	-	-
16-Mar	17:05	8S126	MFM	Departure	12.8	-	-
16-Mar	19:24	3A166	YFT	Departure	12.6	≤5	<1
16-Mar	19:48	3A084	ZUI	Arrival	13.6	-	-
16-Mar	20:07	3A185	ZUI	Departure	13.1	-	-
16-Mar	21:10	8S2113	MFM	Arrival	10.8	-	-
16-Mar	21:10	3A169	YFT	Departure	13.2	-	-
16-Mar	22:05	8S522	MFM	Departure	11.5	-	-
17-Mar	08:20	3A061	YFT	Arrival	10.7	-	-
17-Mar	08:30	8S210	MFM	Arrival	11.0	-	-
17-Mar	09:58	3A071	MFM	Arrival	11.5	-	-
17-Mar	10:35	8S212	MFM	Arrival	8.9	-	-
17-Mar	10:52	3A081	ZUI	Arrival	13.1	-	-
17-Mar	11:10	8S121	MFM	Departure	12.4	-	-
17-Mar	11:15	3A063	YFT	Arrival	11.5	-	-
17-Mar	12:21	3A181	ZUI	Departure	13.3	-	-
17-Mar	12:50	8S215	MFM	Arrival	12.8	-	-
17-Mar	12:53	3A168	YFT	Departure	11.8	-	-
17-Mar	13:01	3A064	YFT	Arrival	12.2	-	-
17-Mar	13:20	8S123	MFM	Departure	12.9	-	-
17-Mar	13:51	3A082	ZUI	Arrival	13.6	-	-
17-Mar	14:15	3A182	ZUI	Departure	13.1	-	-
17-Mar	14:30	3A164	YFT	Departure	12.5	-	-
17-Mar	14:57	3A065	YFT	Arrival	13.1	-	-
17-Mar	16:16	3A167	YFT	Departure	12.9	-	-
17-Mar	16:19	3A083	ZUI	Arrival	14.0	≤5	<1
17-Mar	16:41	8S218	MFM	Arrival	11.9	-	-
17-Mar	16:57	3A183	ZUI	Departure	13.4	-	-
17-Mar	17:11	8S126	MFM	Departure	12.9	-	-
17-Mar	17:13	3A067	YFT	Arrival	12.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
17-Mar	19:00	3A166	YFT	Departure	12.1	-	-
17-Mar	19:44	3A084	ZUI	Arrival	13.6	-	-
17-Mar	20:05	3A185	ZUI	Departure	13.1	-	-
17-Mar	20:53	8S2113	MFM	Arrival	12.0	-	-
17-Mar	21:11	3A169	YFT	Departure	12.7	-	-
17-Mar	21:55	8S522	MFM	Departure	13.5	-	-
18-Mar	08:12	3A061	YFT	Arrival	11.7	-	-
18-Mar	08:29	8S210	MFM	Arrival	13.2	-	-
18-Mar	09:53	3A071	MFM	Arrival	12.0	-	-
18-Mar	10:37	3A081	ZUI	Arrival	13.3	-	-
18-Mar	10:38	8S212	MFM	Arrival	10.3	-	-
18-Mar	11:01	8S121	MFM	Departure	12.6	-	-
18-Mar	11:15	3A063	YFT	Arrival	13.2	-	-
18-Mar	12:18	3A181	ZUI	Departure	13.2	-	-
18-Mar	12:22	3A168	YFT	Departure	12.4	-	-
18-Mar	12:56	8S215	MFM	Arrival	6.1	-	-
18-Mar	12:58	3A064	YFT	Arrival	11.5	-	-
18-Mar	13:22	8S123	MFM	Departure	13.4	-	-
18-Mar	13:44	3A082	ZUI	Arrival	11.9	-	-
18-Mar	14:16	3A164	YFT	Departure	11.5	-	-
18-Mar	14:23	3A182	ZUI	Departure	13.7	-	-
18-Mar	14:59	3A065	YFT	Arrival	13.3	-	-
18-Mar	16:19	3A167	YFT	Departure	13.7	-	-
18-Mar	16:39	3A083	ZUI	Arrival	12.8	-	-
18-Mar	16:44	8S218	MFM	Arrival	13.2	-	-
18-Mar	16:56	3A067	YFT	Arrival	10.8	-	-
18-Mar	16:58	3A183	ZUI	Departure	13.8	-	-
18-Mar	17:03	8S126	MFM	Departure	13.2	-	-
18-Mar	19:03	3A166	YFT	Departure	12.3	-	-
18-Mar	19:48	3A084	ZUI	Arrival	12.5	-	-
18-Mar	20:07	3A185	ZUI	Departure	13.4	-	-
18-Mar	20:52	8S2113	MFM	Arrival	12.8	-	-
18-Mar	21:02	3A169	YFT	Departure	11.6	-	-
18-Mar	22:04	8S522	MFM	Departure	13.9	-	-
19-Mar	08:29	3A061	YFT	Arrival	11.9	-	-
19-Mar	08:32	8S210	MFM	Arrival	12.6	-	-
19-Mar	09:58	3A071	MFM	Arrival	12.5	-	-
19-Mar	10:39	8S212	MFM	Arrival	12.3	-	-
19-Mar	10:42	3A081	ZUI	Arrival	13.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
19-Mar	11:07	8S121	MFM	Departure	13.0	-	-
19-Mar	11:27	3A063	YFT	Arrival	12.2	-	-
19-Mar	12:08	3A168	YFT	Departure	12.9	-	-
19-Mar	12:16	3A181	ZUI	Departure	13.5	-	-
19-Mar	12:43	8S215	MFM	Arrival	12.1	-	-
19-Mar	13:06	3A064	YFT	Arrival	12.2	-	-
19-Mar	13:20	8S123	MFM	Departure	12.9	-	-
19-Mar	13:49	3A082	ZUI	Arrival	12.9	-	-
19-Mar	14:22	3A164	YFT	Departure	12.6	-	-
19-Mar	14:23	3A182	ZUI	Departure	13.1	-	-
19-Mar	15:02	3A065	YFT	Arrival	12.5	-	-
19-Mar	16:30	3A083	ZUI	Arrival	13.7	-	-
19-Mar	16:45	3A167	YFT	Departure	12.3	-	-
19-Mar	16:51	8S218	MFM	Arrival	11.8	-	-
19-Mar	16:58	3A067	YFT	Arrival	9.8	-	-
19-Mar	17:13	3A183	ZUI	Departure	14.2	-	-
19-Mar	17:13	8S126	MFM	Departure	13.4	-	-
19-Mar	19:02	3A166	YFT	Departure	11.9	-	-
19-Mar	19:27	3A084	ZUI	Arrival	13.8	≤5	<1
19-Mar	20:12	3A185	ZUI	Departure	12.9	-	-
19-Mar	20:51	8S2113	MFM	Arrival	12.2	-	-
19-Mar	21:06	3A169	YFT	Departure	12.8	-	-
19-Mar	21:54	8S522	MFM	Departure	12.9	-	-
20-Mar	08:33	8S210	MFM	Arrival	12.5	-	-
20-Mar	08:36	3A061	YFT	Arrival	12.9	-	-
20-Mar	09:49	3A071	MFM	Arrival	11.2	-	-
20-Mar	10:40	8S212	MFM	Arrival	12.1	-	-
20-Mar	10:44	3A081	ZUI	Arrival	13.6	-	-
20-Mar	11:12	8S121	MFM	Departure	11.7	-	-
20-Mar	11:21	3A063	YFT	Arrival	11.9	-	-
20-Mar	12:14	3A181	ZUI	Departure	13.0	-	-
20-Mar	12:15	3A168	YFT	Departure	12.6	-	-
20-Mar	12:55	8S215	MFM	Arrival	10.3	-	-
20-Mar	13:00	3A064	YFT	Arrival	13.2	-	-
20-Mar	13:21	8S123	MFM	Departure	10.9	-	-
20-Mar	13:46	3A082	ZUI	Arrival	13.1	-	-
20-Mar	14:16	3A164	YFT	Departure	13.8	-	-
20-Mar	14:16	3A182	ZUI	Departure	12.7	-	-
20-Mar	14:58	3A065	YFT	Arrival	11.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
20-Mar	16:20	3A167	YFT	Departure	12.5	-	-
20-Mar	16:36	3A083	ZUI	Arrival	13.3	-	-
20-Mar	16:43	8S218	MFM	Arrival	11.4	-	-
20-Mar	16:54	3A067	YFT	Arrival	13.5	-	-
20-Mar	17:01	8S126	MFM	Departure	10.1	-	-
20-Mar	17:03	3A183	ZUI	Departure	13.9	-	-
20-Mar	19:12	3A166	YFT	Departure	11.8	-	-
20-Mar	19:50	3A084	ZUI	Arrival	12.9	-	-
20-Mar	20:14	3A185	ZUI	Departure	13.3	-	-
20-Mar	20:58	3A169	YFT	Departure	12.9	-	-
20-Mar	21:08	8S2113	MFM	Arrival	12.1	-	-
21-Mar	08:14	3A061	YFT	Arrival	11.2	-	-
21-Mar	08:36	8S210	MFM	Arrival	10.5	-	-
21-Mar	09:49	3A071	MFM	Arrival	12.0	-	-
21-Mar	10:40	3A081	ZUI	Arrival	13.3	-	-
21-Mar	10:42	8S212	MFM	Arrival	11.8	-	-
21-Mar	11:07	8S121	MFM	Departure	10.8	-	-
21-Mar	11:31	3A063	YFT	Arrival	12.5	-	-
21-Mar	12:14	3A168	YFT	Departure	11.8	-	-
21-Mar	12:14	3A181	ZUI	Departure	12.6	-	-
21-Mar	12:47	8S215	MFM	Arrival	13.3	-	-
21-Mar	12:57	3A064	YFT	Arrival	11.6	-	-
21-Mar	13:12	8S123	MFM	Departure	12.0	-	-
21-Mar	13:52	3A082	ZUI	Arrival	12.8	-	-
21-Mar	14:16	3A164	YFT	Departure	11.1	-	-
21-Mar	14:21	3A182	ZUI	Departure	13.3	-	-
21-Mar	14:57	3A065	YFT	Arrival	12.8	-	-
21-Mar	16:18	3A167	YFT	Departure	12.0	-	-
21-Mar	16:33	3A083	ZUI	Arrival	11.4	-	-
21-Mar	16:41	8S218	MFM	Arrival	10.6	-	-
21-Mar	16:54	3A067	YFT	Arrival	11.7	-	-
21-Mar	16:58	3A183	ZUI	Departure	13.1	-	-
21-Mar	17:07	8S126	MFM	Departure	13.2	-	-
21-Mar	19:05	3A166	YFT	Departure	10.8	-	-
21-Mar	19:44	3A084	ZUI	Arrival	13.6	-	-
21-Mar	20:06	3A185	ZUI	Departure	13.5	-	-
21-Mar	20:54	8S2113	MFM	Arrival	12.2	-	-
21-Mar	20:58	3A169	YFT	Departure	12.8	-	-
22-Mar	08:23	3A061	YFT	Arrival	13.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
22-Mar	08:25	8S210	MFM	Arrival	12.6	-	-
22-Mar	09:51	3A071	MFM	Arrival	13.2	-	-
22-Mar	10:40	8S212	MFM	Arrival	12.1	-	-
22-Mar	10:53	3A081	ZUI	Arrival	13.0	-	-
22-Mar	11:02	8S121	MFM	Departure	11.7	-	-
22-Mar	11:27	3A063	YFT	Arrival	10.6	-	-
22-Mar	12:19	3A168	YFT	Departure	12.5	-	-
22-Mar	12:23	3A181	ZUI	Departure	13.6	-	-
22-Mar	12:52	8S215	MFM	Arrival	12.8	-	-
22-Mar	13:06	3A064	YFT	Arrival	13.0	-	-
22-Mar	13:16	8S123	MFM	Departure	12.9	-	-
22-Mar	13:48	3A082	ZUI	Arrival	12.9	-	-
22-Mar	14:20	3A164	YFT	Departure	13.3	-	-
22-Mar	14:20	3A182	ZUI	Departure	14.0	-	-
22-Mar	14:55	3A065	YFT	Arrival	11.7	-	-
22-Mar	16:16	3A167	YFT	Departure	11.9	-	-
22-Mar	16:37	3A083	ZUI	Arrival	13.8	-	-
22-Mar	16:46	8S218	MFM	Arrival	11.9	-	-
22-Mar	17:02	3A067	YFT	Arrival	13.4	-	-
22-Mar	17:02	3A183	ZUI	Departure	13.4	-	-
22-Mar	17:05	8S126	MFM	Departure	12.9	-	-
22-Mar	19:04	3A166	YFT	Departure	12.6	-	-
22-Mar	19:42	3A084	ZUI	Arrival	14.0	-	-
22-Mar	20:07	3A185	ZUI	Departure	12.3	-	-
22-Mar	20:51	8S2113	MFM	Arrival	9.7	-	-
22-Mar	21:11	3A169	YFT	Departure	12.2	≤5	<1
22-Mar	22:07	8S522	MFM	Departure	13.1	-	-
23-Mar	08:13	3A061	YFT	Arrival	12.2	-	-
23-Mar	08:30	8S210	MFM	Arrival	12.5	-	-
23-Mar	09:42	3A071	MFM	Arrival	12.7	-	-
23-Mar	10:36	3A081	ZUI	Arrival	13.6	-	-
23-Mar	10:36	8S212	MFM	Arrival	12.2	-	-
23-Mar	11:07	8S121	MFM	Departure	13.0	-	-
23-Mar	11:28	3A063	YFT	Arrival	12.2	-	-
23-Mar	12:09	3A181	ZUI	Departure	12.5	-	-
23-Mar	12:15	3A168	YFT	Departure	12.3	-	-
23-Mar	12:37	8S215	MFM	Arrival	12.0	-	-
23-Mar	12:54	3A064	YFT	Arrival	12.3	-	-
23-Mar	13:15	8S123	MFM	Departure	12.0	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
23-Mar	13:48	3A082	ZUI	Arrival	12.4	-	-
23-Mar	14:21	3A182	ZUI	Departure	13.2	-	-
23-Mar	14:22	3A164	YFT	Departure	12.4	-	-
23-Mar	14:57	3A065	YFT	Arrival	11.6	-	-
23-Mar	16:10	3A167	YFT	Departure	12.2	-	-
23-Mar	16:34	3A083	ZUI	Arrival	11.3	-	-
23-Mar	16:37	8S218	MFM	Arrival	11.2	-	-
23-Mar	16:54	3A183	ZUI	Departure	12.6	-	-
23-Mar	16:56	3A067	YFT	Arrival	11.6	-	-
23-Mar	17:00	8S126	MFM	Departure	10.6	-	-
23-Mar	19:10	3A166	YFT	Departure	12.7	-	-
23-Mar	19:44	3A084	ZUI	Arrival	14.0	-	-
23-Mar	20:04	3A185	ZUI	Departure	13.4	-	-
23-Mar	20:54	3A169	YFT	Departure	12.5	-	-
23-Mar	21:05	8S2113	MFM	Arrival	11.4	-	-
23-Mar	21:53	8S522	MFM	Departure	11.7	-	-
24-Mar	08:16	3A061	YFT	Arrival	11.2	-	-
24-Mar	08:31	8S210	MFM	Arrival	10.4	-	-
24-Mar	09:55	3A071	MFM	Arrival	12.5	-	-
24-Mar	10:40	3A081	ZUI	Arrival	13.6	-	-
24-Mar	10:43	8S212	MFM	Arrival	10.9	-	-
24-Mar	11:11	8S121	MFM	Departure	12.6	-	-
24-Mar	11:21	3A063	YFT	Arrival	12.3	-	-
24-Mar	12:18	3A181	ZUI	Departure	13.1	-	-
24-Mar	12:21	3A168	YFT	Departure	12.4	-	-
24-Mar	12:51	8S215	MFM	Arrival	11.8	-	-
24-Mar	12:58	3A064	YFT	Arrival	12.0	-	-
24-Mar	13:15	8S123	MFM	Departure	11.6	-	-
24-Mar	13:56	3A082	ZUI	Arrival	12.7	-	-
24-Mar	14:17	3A182	ZUI	Departure	13.5	-	-
24-Mar	14:26	3A164	YFT	Departure	13.0	-	-
24-Mar	15:00	3A065	YFT	Arrival	10.8	-	-
24-Mar	16:17	3A167	YFT	Departure	12.8	-	-
24-Mar	16:33	3A083	ZUI	Arrival	14.0	-	-
24-Mar	16:42	8S218	MFM	Arrival	11.5	-	-
24-Mar	16:58	3A067	YFT	Arrival	11.6	-	-
24-Mar	16:58	3A183	ZUI	Departure	13.1	-	-
24-Mar	17:00	8S126	MFM	Departure	12.5	-	-
24-Mar	19:00	3A166	YFT	Departure	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
24-Mar	19:40	3A084	ZUI	Arrival	14.0	-	-
24-Mar	20:01	3A185	ZUI	Departure	13.5	-	-
24-Mar	20:50	8S2113	MFM	Arrival	9.4	-	-
24-Mar	20:58	3A169	YFT	Departure	12.9	-	-
24-Mar	21:58	8S522	MFM	Departure	13.2	-	-
25-Mar	08:17	3A061	YFT	Arrival	12.4	-	-
25-Mar	08:35	8S210	MFM	Arrival	11.7	-	-
25-Mar	09:47	3A071	MFM	Arrival	11.4	-	-
25-Mar	10:38	3A081	ZUI	Arrival	13.9	-	-
25-Mar	10:43	8S212	MFM	Arrival	12.0	-	-
25-Mar	11:02	8S121	MFM	Departure	12.8	-	-
25-Mar	11:18	3A063	YFT	Arrival	12.7	-	-
25-Mar	12:11	3A168	YFT	Departure	12.9	-	-
25-Mar	12:17	3A181	ZUI	Departure	12.5	-	-
25-Mar	12:48	8S215	MFM	Arrival	12.3	-	-
25-Mar	13:09	3A064	YFT	Arrival	12.1	-	-
25-Mar	13:20	8S123	MFM	Departure	10.0	-	-
25-Mar	13:48	3A082	ZUI	Arrival	12.8	-	-
25-Mar	14:18	3A164	YFT	Departure	12.7	-	-
25-Mar	14:21	3A182	ZUI	Departure	13.0	-	-
25-Mar	14:57	3A065	YFT	Arrival	12.2	-	-
25-Mar	16:11	3A167	YFT	Departure	12.9	-	-
25-Mar	16:40	3A083	ZUI	Arrival	13.2	-	-
25-Mar	16:41	8S218	MFM	Arrival	11.7	-	-
25-Mar	16:59	3A183	ZUI	Departure	13.2	-	-
25-Mar	17:01	8S126	MFM	Departure	10.9	-	-
25-Mar	17:06	3A067	YFT	Arrival	12.1	-	-
25-Mar	19:02	3A166	YFT	Departure	13.0	-	-
25-Mar	19:54	3A084	ZUI	Arrival	12.4	-	-
25-Mar	20:16	3A185	ZUI	Departure	13.8	-	-
25-Mar	21:02	8S2113	MFM	Arrival	11.7	-	-
25-Mar	21:19	3A169	YFT	Departure	13.0	≤5	<1
25-Mar	21:58	8S522	MFM	Departure	12.1	-	-
26-Mar	08:22	3A061	YFT	Arrival	11.8	-	-
26-Mar	08:33	8S210	MFM	Arrival	10.7	-	-
26-Mar	09:56	3A071	MFM	Arrival	12.1	-	-
26-Mar	10:40	8S212	MFM	Arrival	11.9	-	-
26-Mar	10:46	3A081	ZUI	Arrival	13.8	-	-
26-Mar	11:12	8S121	MFM	Departure	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
26-Mar	11:27	3A063	YFT	Arrival	11.7	-	-
26-Mar	12:16	3A181	ZUI	Departure	13.3	-	-
26-Mar	12:24	3A168	YFT	Departure	11.5	-	-
26-Mar	12:46	8S215	MFM	Arrival	12.1	-	-
26-Mar	13:02	3A064	YFT	Arrival	11.9	-	-
26-Mar	13:23	8S123	MFM	Departure	13.2	-	-
26-Mar	13:45	3A082	ZUI	Arrival	12.3	-	-
26-Mar	14:25	3A164	YFT	Departure	11.5	-	-
26-Mar	14:32	3A182	ZUI	Departure	13.1	-	-
26-Mar	14:55	3A065	YFT	Arrival	12.2	-	-
26-Mar	16:19	3A167	YFT	Departure	12.3	-	-
26-Mar	16:39	8S218	MFM	Arrival	11.0	-	-
26-Mar	16:42	3A083	ZUI	Arrival	12.3	-	-
26-Mar	17:07	3A067	YFT	Arrival	11.4	-	-
26-Mar	17:12	3A183	ZUI	Departure	12.8	-	-
26-Mar	17:16	8S126	MFM	Departure	13.7	-	-
26-Mar	19:14	3A166	YFT	Departure	12.0	-	-
26-Mar	19:51	3A084	ZUI	Arrival	13.3	-	-
26-Mar	20:18	3A185	ZUI	Departure	13.2	-	-
26-Mar	20:53	8S2113	MFM	Arrival	13.0	-	-
26-Mar	21:03	3A169	YFT	Departure	12.1	-	-
26-Mar	21:52	8S522	MFM	Departure	13.2	-	-
27-Mar	08:21	3A061	YFT	Arrival	11.8	-	-
27-Mar	08:28	8S210	MFM	Arrival	13.1	-	-
27-Mar	10:01	3A071	MFM	Arrival	12.3	-	-
27-Mar	10:38	8S212	MFM	Arrival	12.8	-	-
27-Mar	10:48	3A081	ZUI	Arrival	13.1	-	-
27-Mar	11:06	8S121	MFM	Departure	12.5	-	-
27-Mar	11:31	3A063	YFT	Arrival	12.7	-	-
27-Mar	12:17	3A168	YFT	Departure	12.8	-	-
27-Mar	12:19	3A181	ZUI	Departure	13.0	-	-
27-Mar	12:50	8S215	MFM	Arrival	13.1	-	-
27-Mar	13:00	3A064	YFT	Arrival	11.9	-	-
27-Mar	13:19	8S123	MFM	Departure	12.7	-	-
27-Mar	13:49	3A082	ZUI	Arrival	12.4	-	-
27-Mar	14:13	3A182	ZUI	Departure	13.2	-	-
27-Mar	14:22	3A164	YFT	Departure	12.1	-	-
27-Mar	15:00	3A065	YFT	Arrival	13.1	-	-
27-Mar	16:21	3A167	YFT	Departure	13.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
27-Mar	16:33	3A083	ZUI	Arrival	12.8	-	-
27-Mar	16:40	8S218	MFM	Arrival	13.4	-	-
27-Mar	17:03	3A067	YFT	Arrival	11.8	-	-
27-Mar	17:04	8S126	MFM	Departure	13.1	-	-
27-Mar	17:05	3A183	ZUI	Departure	13.4	-	-
27-Mar	19:03	3A166	YFT	Departure	12.8	-	-
27-Mar	19:47	3A084	ZUI	Arrival	13.0	-	-
27-Mar	20:12	3A185	ZUI	Departure	12.4	-	-
27-Mar	20:49	8S2113	MFM	Arrival	12.2	-	-
27-Mar	20:55	3A169	YFT	Departure	12.9	-	-
27-Mar	22:03	8S522	MFM	Departure	12.7	-	-
28-Mar	08:19	3A061	YFT	Arrival	12.4	-	-
28-Mar	08:30	8S210	MFM	Arrival	12.7	-	-
28-Mar	09:50	3A071	MFM	Arrival	10.5	-	-
28-Mar	10:38	3A081	ZUI	Arrival	13.4	-	-
28-Mar	10:42	8S212	MFM	Arrival	11.8	-	-
28-Mar	11:10	8S121	MFM	Departure	12.6	-	-
28-Mar	11:21	3A063	YFT	Arrival	12.5	-	-
28-Mar	12:17	3A168	YFT	Departure	13.3	-	-
28-Mar	12:18	3A181	ZUI	Departure	13.5	-	-
28-Mar	13:01	3A064	YFT	Arrival	12.3	-	-
28-Mar	13:01	8S215	MFM	Arrival	11.6	-	-
28-Mar	13:21	8S123	MFM	Departure	10.9	-	-
28-Mar	13:45	3A082	ZUI	Arrival	13.1	-	-
28-Mar	14:12	3A164	YFT	Departure	12.3	-	-
28-Mar	14:17	3A182	ZUI	Departure	12.8	-	-
28-Mar	15:07	3A065	YFT	Arrival	12.4	-	-
28-Mar	16:16	3A167	YFT	Departure	12.5	-	-
28-Mar	16:33	3A083	ZUI	Arrival	13.2	-	-
28-Mar	16:42	8S218	MFM	Arrival	11.4	-	-
28-Mar	17:01	3A067	YFT	Arrival	12.0	-	-
28-Mar	17:07	3A183	ZUI	Departure	12.7	-	-
28-Mar	17:09	8S126	MFM	Departure	12.1	-	-
28-Mar	19:03	3A166	YFT	Departure	13.0	-	-
28-Mar	19:58	3A084	ZUI	Arrival	13.0	-	-
28-Mar	20:17	3A185	ZUI	Departure	12.9	-	-
28-Mar	20:53	3A169	YFT	Departure	12.8	-	-
28-Mar	21:03	8S2113	MFM	Arrival	11.9	-	-
29-Mar	08:15	3A061	YFT	Arrival	12.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
29-Mar	08:36	8S210	MFM	Arrival	11.6	-	-
29-Mar	10:04	3A071	MFM	Arrival	11.3	-	-
29-Mar	10:36	8S212	MFM	Arrival	11.4	-	-
29-Mar	10:38	3A081	ZUI	Arrival	13.7	-	-
29-Mar	10:57	3A063	YFT	Arrival	10.7	-	-
29-Mar	11:00	8S121	MFM	Departure	11.9	-	-
29-Mar	12:10	3A168	YFT	Departure	11.5	-	-
29-Mar	12:17	3A181	ZUI	Departure	13.0	-	-
29-Mar	12:43	8S215	MFM	Arrival	11.2	-	-
29-Mar	12:56	3A064	YFT	Arrival	12.8	-	-
29-Mar	13:16	8S123	MFM	Departure	11.4	-	-
29-Mar	13:45	3A082	ZUI	Arrival	12.8	-	-
29-Mar	14:20	3A182	ZUI	Departure	13.0	-	-
29-Mar	14:23	3A164	YFT	Departure	13.3	-	-
29-Mar	14:59	3A065	YFT	Arrival	11.8	-	-
29-Mar	16:15	3A083	ZUI	Arrival	13.9	≤5	<1
29-Mar	16:20	3A167	YFT	Departure	11.6	-	-
29-Mar	16:39	8S218	MFM	Arrival	12.2	-	-
29-Mar	16:57	3A067	YFT	Arrival	12.7	-	-
29-Mar	17:02	3A183	ZUI	Departure	12.6	-	-
29-Mar	17:21	8S126	MFM	Departure	12.3	-	-
29-Mar	19:08	3A166	YFT	Departure	13.0	-	-
29-Mar	19:45	3A084	ZUI	Arrival	13.3	-	-
29-Mar	20:09	3A185	ZUI	Departure	13.4	-	-
29-Mar	20:56	8S2113	MFM	Arrival	12.2	-	-
29-Mar	21:03	3A169	YFT	Departure	12.2	-	-
29-Mar	22:00	8S522	MFM	Departure	13.6	-	-
30-Mar	08:12	3A061	YFT	Arrival	11.7	-	-
30-Mar	08:24	8S210	MFM	Arrival	12.0	-	-
30-Mar	09:50	3A071	MFM	Arrival	12.9	-	-
30-Mar	10:37	8S212	MFM	Arrival	12.2	-	-
30-Mar	10:49	3A081	ZUI	Arrival	11.7	-	-
30-Mar	11:11	8S121	MFM	Departure	12.6	-	-
30-Mar	11:22	3A063	YFT	Arrival	11.9	-	-
30-Mar	12:17	3A181	ZUI	Departure	12.9	-	-
30-Mar	12:17	3A168	YFT	Departure	13.3	-	-
30-Mar	12:44	8S215	MFM	Arrival	12.7	-	-
30-Mar	12:58	3A064	YFT	Arrival	12.6	-	-
30-Mar	13:13	8S123	MFM	Departure	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
30-Mar	13:47	3A082	ZUI	Arrival	12.6	-	-
30-Mar	14:11	3A182	ZUI	Departure	13.7	-	-
30-Mar	14:13	3A164	YFT	Departure	12.4	-	-
30-Mar	15:11	3A065	YFT	Arrival	11.5	-	-
30-Mar	16:11	3A167	YFT	Departure	12.4	-	-
30-Mar	16:37	3A083	ZUI	Arrival	12.5	-	-
30-Mar	16:45	8S218	MFM	Arrival	12.3	-	-
30-Mar	17:04	8S126	MFM	Departure	13.4	-	-
30-Mar	17:05	3A183	ZUI	Departure	12.5	-	-
30-Mar	17:06	3A067	YFT	Arrival	12.0	-	-
30-Mar	19:15	3A166	YFT	Departure	12.9	>5 and ≤15	<1
30-Mar	19:46	3A084	ZUI	Arrival	13.1	-	-
30-Mar	20:10	3A185	ZUI	Departure	13.1	-	-
30-Mar	21:02	8S2113	MFM	Arrival	11.7	-	-
30-Mar	21:02	3A169	YFT	Departure	11.4	-	-
30-Mar	21:56	8S522	MFM	Departure	12.0	-	-
31-Mar	08:30	3A061	YFT	Arrival	12.6	-	-
31-Mar	08:54	8S210	MFM	Arrival	13.5	-	-
31-Mar	10:05	3A071	MFM	Arrival	13.0	-	-
31-Mar	10:49	3A081	ZUI	Arrival	13.3	-	-
31-Mar	10:53	8S212	MFM	Arrival	13.0	-	-
31-Mar	11:13	8S121	MFM	Departure	11.2	-	-
31-Mar	11:19	3A063	YFT	Arrival	13.2	-	-
31-Mar	12:17	3A181	ZUI	Departure	13.2	-	-
31-Mar	12:20	3A168	YFT	Departure	13.7	-	-
31-Mar	12:55	8S215	MFM	Arrival	12.4	-	-
31-Mar	13:00	3A064	YFT	Arrival	13.0	-	-
31-Mar	13:15	8S123	MFM	Departure	11.9	-	-
31-Mar	13:46	3A082	ZUI	Arrival	13.4	-	-
31-Mar	14:17	3A182	ZUI	Departure	13.2	-	-
31-Mar	14:22	3A164	YFT	Departure	12.5	≤5	<1
31-Mar	14:53	3A065	YFT	Arrival	14.1	-	-
31-Mar	16:13	3A167	YFT	Departure	13.5	-	-
31-Mar	16:28	3A083	ZUI	Arrival	13.0	≤5	<1
31-Mar	16:49	8S218	MFM	Arrival	12.4	-	-
31-Mar	16:59	3A067	YFT	Arrival	12.7	-	-
31-Mar	17:08	3A183	ZUI	Departure	12.4	-	-
31-Mar	17:13	8S126	MFM	Departure	12.0	-	-
31-Mar	19:20	3A166	YFT	Departure	10.8	>5 and ≤15	<1

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
31-Mar	19:48	3A084	ZUI	Arrival	13.0	-	-
31-Mar	20:11	3A185	ZUI	Departure	13.3	-	-
31-Mar	21:04	8S2113	MFM	Arrival	11.3	-	-
31-Mar	21:05	3A169	YFT	Departure	12.5	-	-
31-Mar	21:59	8S522	MFM	Departure	12.0	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in March 2017, instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded from 11 HSF movements. The duration of instantaneous speeding of all the movements were less than one minute. After investigation, the AIS data and ferry operators' responses showed the cases were due to local strong water currents / giving way to other vessels, which are public safety / emergency reasons. The captain had reduced speed and maintained the speed at less than 15 knots after the public safety / emergency incidents.

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