



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

Construction Phase Quarterly EM&A Report
No.32 (1 October to 31 December 2023)

February 2024

Mott MacDonald
3/F Manulife Place
348 Kwun Tong Road
Kwun Tong
Kowloon
Hong Kong

T +852 2828 5757
mottmac.hk

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**This Construction Phase Quarterly EM&A Report No. 32 has been
reviewed and certified by**

the Environmental Team Leader (ETL) in accordance with

Section 15.4 of the Updated EM&A Manual

Certified by:

A handwritten signature in black ink, appearing to read 'Terence Kong', is positioned above a horizontal line.

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

Date

28 February 2024

Our Ref : 60440482/C/RMKY20240228

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, Environmental Compliance

28 February 2024

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Quarterly EM&A Report No. 32 (For 1 October 2023 to 31 December 2023)

Reference is made to the Environmental Team's submission of Quarterly EM&A Report No.32 (For 1 October 2023 to 31 December 2023) under section 15.4 of the Updated EM&A Manual, this quarterly EM&A report was certified by the ET leader on 28 February 2024.

We would like to inform you that we have no adverse comment and verify the captioned submission.

Should you have any query, please feel free to contact the undersigned at 3729 0380.

Yours faithfully,
AECOM Asia Co. Ltd.



Roy Man
Independent Environmental Checker

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Abbreviations

3RS	Three-Runway System
AAHK	Airport Authority Hong Kong
AECOM	AECOM Asia Company Limited
AFCD	Agriculture, Fisheries and Conservation Department
AIS	Automatic Information System
ANI	Encounter Rate of Number of Dolphins
APM	Automated People Mover
AW	Airport West
BHS	Baggage Handling System
C&D	Construction and Demolition
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
CTCC	Construction Traffic Control Centre
CWD	Chinese White Dolphin
DCM	Deep Cement Mixing
DEZ	Dolphin Exclusion Zone
DO	Dissolved Oxygen
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring & Audit
EMIS	Environmental Mitigation Implementation Schedule
EP	Environmental Permit
EPD	Environmental Protection Department
EPSS	Emergency Power Supply Systems
ET	Environmental Team
FCZ	Fish Culture Zone
HKBCF	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities
HKIA	Hong Kong International Airport
HSF	High Speed Ferry
IEC	Independent Environmental Checker
LKC	Lung Kwu Chau
MMHK	Mott MacDonald Hong Kong Limited
MMWP	Marine Mammal Watching Plan
MSS	Maritime Surveillance System
MTRMP-CAV	Updated Marine Travel Routes and Management Plan for Construction and Associated Vessel
NEL	Northeast Lantau
NWL	Northwest Lantau
PAM	Passive Acoustic Monitoring
SC	Sha Chau
SCZ	Speed Control Zone
SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park
SS	Suspended Solids
STG	Encounter Rate of Number of Dolphin Sightings
SWL	Southwest Lantau
T2	Terminal 2
The Manual	The Updated EM&A Manual

The Project	The Expansion of Hong Kong International Airport into a Three-Runway System
The SkyPier Plan	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier
TSP	Total Suspended Particulates
WL	West Lantau
WMP	Waste Management Plan

Executive summary

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

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

This is the 32nd Construction Phase Quarterly EM&A Report for the Project which summarises the monitoring results and audit findings of the EM&A programme during the reporting period from 1 October 2023 to 31 December 2023.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included reclamation areas and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works and 132kV cable laying works.

EM&A Activities Conducted in the Reporting Period

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




Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	96
Noise monitoring	50
Water quality monitoring	12
Post-construction phase water quality monitoring	12
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	6
Land-based theodolite tracking survey effort for CWD monitoring	6

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

The general impact water quality monitoring was terminated after 31 October 2023 and the post-construction phase water quality monitoring was conducted from 14 November 2023 to 9 December 2023. The construction phase CWD monitoring was continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD

abundance on an annual basis. The post-construction phase CWD monitoring would be commenced in January 2024.

Snapshots of Good Environmental Practices in the Reporting Period

		
Installed speed cameras at the main haul road to monitor the speed of vehicle	Bunds were provided along temporary drains	Dust screen was erected next to the public road

Key examples of good site practices implemented in the Project are highlighted as below:

1. Speed cameras were installed at the main haul road by the contractor to monitor the speed of vehicles in order to reduce generation of fugitive dust during vehicle travelling.
2. Bunds were provided along the temporary drains to prevent site runoff.
3. Dust screen was erected next to the piling works to prevent dust nuisance on nearby public road.

Summary Findings of the EM&A Programme

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

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

The general impact water quality monitoring results for all parameters, except suspended solids (SS), obtained in October 2023 were within the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to EM&A programme if the corresponding Action and Limit Levels are triggered. For SS, one testing result triggered the relevant Action Level, an investigation was conducted accordingly. The investigation findings concluded that the case was not related to the Project. To conclude, the construction activities during the reporting period did not introduce adverse impact to all water quality sensitive receivers.

The detailed post-construction phase water quality monitoring results are presented in **Appendix C**. The comparison between the baseline, construction phase and post-construction phase monitoring results will be presented in Annual EM&A report for 2023 and Final EM&A report.

The key findings of the EM&A programme during the reporting period are summarised as below:

Yes	No	Details	Analysis / Recommendation / Remedial Actions
	√	No breach of Limit Level was recorded.	Nil
	√	No breach of Action Level was recorded.	Nil
Complaint received in	√	A complaint regarding dust nuisance at 3RS reclaimed	ET requested the relevant contractors to provide information regarding the complaint. During the ET's site inspection, water spraying was provided

Yes	No	Details	Analysis / Recommendation / Remedial Actions
		area was received on 4 October 2023.	on the related haul road, yet part of the road was observed dry with fugitive dust. The concerned contractor updated their dust suppression plan and an additional water truck was provided plus two sets of water sprinkler systems were installed as mitigation enhancements. Hence, the case was considered closed.
		A complaint regarding dust nuisance at Northeast Quay (NE Quay) was received on 9 October 2023.	ET requested the relevant contractors to provide information regarding the complaint and the replies indicated dust suppression measures such as water spraying and wheel washing were provided at NE Quay. During the ET's site inspections, no dust nuisance was observed. Having said that, the relevant contractors were reminded to properly implement and enhance dust measures at NE Quay. Hence, the case was considered closed.
		A complaint regarding noise and dust nuisance at Sky Plaza Road was received on 16 October 2023.	ET requested the relevant contractor to provide information regarding the complaint and reply indicated dust suppression measures and noise control measures were implemented at the related works area. Although no dust and noise nuisance issues were recorded during ET's site inspection, as an enhanced mitigation measure, the relevant contractor erected an additional layer of noise insulation materials to enclose the boundary of the works area and also adjusted the works schedule to start later in the morning to minimize noise and dust nuisance to the public. The relevant contractor was reminded to keep on review and continuously implement their enhanced dust and noise mitigation measures. Hence, the case was considered closed.
		A complaint regarding sand and gravel at South Perimeter Road was received on 20 October 2023.	ET requested the relevant contractors to provide information regarding the complaint and replies indicated the automatic wheel washing facility and provision of water spraying on vehicle wheels were both operating in normal condition. Despite no sand and gravel issue was recorded during ET's site inspections, the relevant contractors deployed water trucks to spray the ground at the concerned area, reminded all drivers to go through the wheel washing arrangement before exiting to public road and provided refresher training on manual wheel washing for their frontline workers. The relevant contractors were reminded to keep review and continuously provide proper wheel washing efforts and implement their enhanced mitigation measures. Hence, the case was considered closed.
		A complaint regarding dust nuisance from sand barge near Castle Peak Bay was received on 30 October 2023.	ET requested the relevant contractors to provide information regarding the complaint and replies indicated they had delivery barges moored at Marine Department's Designated Tuen Mun Immigration Anchorage Area during this period in which dust mitigation measures including water spraying were implemented on the barges. ET's checking in the Maritime Surveillance System indicated no barges under 3RS were moored near the Castle Peak Bay during the period of the

Yes	No	Details	Analysis / Recommendation / Remedial Actions
			complaint. Having said that, the relevant contractors were reminded to continuously and properly implement dust mitigation measures on their delivery barges. Hence, the case was considered closed.
		A complaint regarding dust nuisance at South Perimeter Road was received on 21 November 2023.	ET requested the relevant contractor to provide information regarding the complaints and replies indicated both the wheel washing and road washing arrangements were enhanced by the contractor. During the ET's inspections, manual and automatic wheel washing, and road sweeping and washing were observed in operation at the concerned area. Having said that, the relevant contractor was reminded to ensure vehicles are properly washed before leaving works areas and ensure no sand and gravel would be deposited outside works areas. Hence, the case was considered closed.
		Another complaint regarding dust nuisance at South Perimeter Road was received on 21 November 2023.	
		A complaint regarding sand and gravel issue at South Perimeter Road was received on 21 November 2023.	
		A complaint regarding sand and gravel issue at South Perimeter Road was received on 27 November 2023.	
		A complaint regarding alleged environmental nuisance at Cheong Yip Road was received on 12 December 2023.	The complaint was under investigation. Findings would be reported in the next Quarterly EM&A Report.
		A complaint regarding alleged dust nuisance at South Perimeter Road was received on 18 December 2023.	The complaint was under investigation. Findings would be reported in the next Quarterly EM&A Report.
Notification of any summons and status of prosecutions	√	No notification of summons nor prosecution was received.	Nil
Changes that affect the EM&A	√	There was no change to the construction works that may affect the EM&A.	Nil

Remarks:

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

In accordance with Condition 2.6 of EP, AAHK has assisted Agriculture, Fisheries and Conservation Department (AFCD) in taking forward the statutory procedures for the designation of the North Lantau Marine Park (NLMP). A gazette notice regarding the approved map was published by the Government on 29 September 2023 with a Draft Designation Order and a relevant Executive Council paper now under preparation. The designation date (i.e. effective date of the NLMP) shall tie in with the commissioning of the 3RS.

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 3.1¹. AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

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

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

The summary of construction works programme can be referred to the corresponding Monthly EM&A Reports. Description of relevant contracts in the reporting period was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 94.

1.2 Scope of this Report

This is the 32nd Construction Phase Quarterly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 October 2023 to 31 December 2023.

1.3 Project Organisation

The Project’s organisation structure is provided in **Appendix A**. Contact details of the key personnel have been updated and provided in **Table 1.1**.

¹ The Manual is available on the Project’s dedicated website (accessible at: <http://env.threerunwaysystem.com/en/index.html>)

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environmental Compliance, Sustainability	Lawrence Tsui	2183 2734
Environmental Team (ET) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919
	Deputy Environmental Team Leaders	Heidi Yu	2828 5704
		Ken Wong	2828 5817
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Roy Man	3729 0380
	Deputy Independent Environmental Checker	Jackel Law	3856 5312

Reclamation Works:

Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works (ZHEC-CCCC-CDC Joint Venture)	Project Manager	Alan Mong	3763 1352
	Environmental Officer	Zhang Bin Wang	3763 1525

Airfield Works:

Party	Position	Name	Telephone
Contract 3302 Eastern Vehicular Tunnel Advance Works (China Road and Bridge Corporation)	Project Manager	Dickey Yau	5699 4503
	Environmental Officer	Dennis Ho	5645 0563
Contract 3305 Airfield Ground Lighting System (ADB Safegate Hong Kong Limited)	Project Manager	Allam Al-Turk	2944 9725
	Environmental Officer	Ivan Ting	9222 9490
Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS (Chinney Alliance Engineering Limited)	Project Director	Dennis Yam	9551 9920
	Environmental Officer	Richard Liu	9216 8990
Contract 3307 Fire Training Facility (Paul Y. Construction Company Limited)	Project Manager	Ken Tang	9640 5397
	Environmental Officer	Ferddy Leung	5585 6746
Contract 3308 Foreign Object Debris Detection System (DAS Aviation Services Group)	Project Manager	Jeffrey Yau	9873 7422
Contract 3310	Project Manager	Kingsley Chiang	9424 8437

Party	Position	Name	Telephone
North Runway Modification Works (China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Federick Wong	9842 2703

Third Runway Concourse:

Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres Enabling Works (Wing Hing Construction Co., Ltd.)	Project Manager	Wyman Lau	6112 9753
	Health Safety Environmental Manager	Mike Leung	6625 2550
Contract 3403 New Integrated Airport Centres Building and Civil Works (Sun Fook Kong Construction Limited)	Project Manager	Alice Leung	9220 3162
	Environmental Officer	Ray Cheung	9785 1566
Contract 3404 Integrated Airport Control System (Shun Hing Systems Integration Co., Ltd.)	Project Manager	Andy Ng	9102 2739
	Safety and Environmental Manager	Josephine Chang	9383 7705
Contract 3405 Third Runway Concourse Foundation and Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Project Manager	Francis Choi	9423 3469
	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture)	Senior HSE Manager	Qian Zhang	5377 7976
	Environmental Officer	Malcolm Leung	7073 7559

Terminal 2 (T2) Expansion:

Party	Position	Name	Telephone
Contract 3508 Terminal 2 Expansion Works (Gammon Engineering & Construction Company Limited)	Project Director	Richard Ellis	6201 5637
	Environmental Officer	Endy Tse	6228 7768

Automated People Mover (APM) and Baggage Handling System (BHS):

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line) (CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Project Manager	Hongdan Wei	158 6180 9450
	Environmental Officer	H Y Yue	9185 8186

Party	Position	Name	Telephone
Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.)	Project Manager	Xia Bo	6586 4950
	Environmental Officer	Y M Tong	5316 9801
Contract 3603 3RS Baggage Handling System (VISH Consortium)	Project Manager	K C Ho	9272 9626
	Environmental Officer	Richard Ng	9802 9577

Construction Support (Facilities):

Party	Position	Name	Telephone
Contract 3721 Construction Support Infrastructure Works (China State Construction Engineering (Hong Kong) Ltd.)	Senior Project Manager	Thomas Lui	9011 5340
	Environmental Officer	John Mak	6273 8703
Contract 3728 Minor Site Works (Shun Yuen Construction Company Limited)	Contract Manager	C K Liu	9194 8739
	Environmental Officer	Dan Leung	6856 5899
Contract 3733 Emergency Repair Service (Wing Hing Construction Co., Ltd.)	Project Manager	Michael Kan	9206 0550
	Safety Health Environmental Manager	Mike Leung	6625 2550

Airport Support Infrastructure:

Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Kingsley Chiang	9424 8437
	Environmental Officer	Eunice Kwok	9243 1331
Contract 3802 APM and BHS Tunnels and Related Works (Gammon Engineering & Construction Company Limited)	Project Director	John Adams	6111 6989
	Environmental Officer	Yan Ng	5345 8555
Contract 3804 East and Landside Fire Stations (Beijing Urban Construction Group Company Limited - Beijing Urban Construction International Company Limited - Kin Shing (Leung's) General Contractors Ltd Joint Venture)	Project Manager	Mr. Zhang Xianda	4661 6818
	Environmental Officer	Ms. Kimberly Wong	5542 1669
Contract 3805 New Airport District Police Operational Base (Chinney Construction Co., Ltd.)	Project Manager	Cheuk Wing Wai	9339 8321
	Environmental Officer	Mike Li	6306 8547

Construction Support (Services / Licences):

Party	Position	Name	Telephone
Contract 3901A Concrete Batching Facility (K. Wah Concrete Company Limited)	Project Manager	Benedict Wong	9553 2806
	Environmental Officer	C P Fung	9874 2872
Contract 3901B Concrete Batching Facility (Gammon Construction Limited)	General Manager	Gabriel Chan	2435 3260
	Environmental Officer	Rex Wong	2695 6319
Contract 3908 Quay Management Services (Gitanes – Crown Asia Joint Venture)	Project Manager	Mr. Ian Li	9750 6438
	Environmental Officer	Mr. Tang Kai Fun	9406 3526
Contract 3913 Asphalt Batching Plant (SPR Joint Venture)	Project Manager	Xie Yi Sheng	6580 6005
	Environmental Officer	Kenneth Chan	9300 2182

Utilities:

Party	Position	Name	Telephone
132kV Cable (CLP Power Hong Kong Limited / Kum Shing (K.F.) Construction Company Limited)	Engineer	Ken Fung	6391 9087
	Project Engineer	Ivan Shek	9822 5836

1.4 Contact information for the Project

The contact information for the Project is provided in **Table 1.2**. The public can contact us through the following channels if they have any queries and comments on the environmental monitoring data and project related information.

Table 1.2: Contact Information of the Project

Channels	Contact Information
Hotline	3908 0354
Email	env@3rsproject.com
Fax	3747 6050
Postal Address	Airport Authority Hong Kong HKIA Tower 1 Sky Plaza Road Hong Kong International Airport Lantau Hong Kong Attn: Environmental Team Leader Mr Terence Kong c/o Mr Lawrence Tsui (TRD)

1.5 Summary of Construction Works

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for APM and BHS and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works and 132kV cable laying. The locations of the key construction activities are presented in **Figure 1.1**.

1.6 Summary of EM&A Programme Requirements

The status for all environmental aspects are presented in **Table 1.3**. The EM&A requirements remained unchanged during the reporting period.

Table 1.3: Summary of Status for All Environmental Aspects under the Updated EM&A Manual

Parameters	EM&A Requirements	Status
Air Quality		
Baseline Monitoring	At least 14 consecutive days before commencement of construction work	The baseline air quality monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	At least 3 times every 6 days	On-going
Noise		
Baseline Monitoring	Daily for a period of at least two weeks prior to the commencement of construction works	The baseline noise monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Water Quality		
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides, for at least four weeks prior to the commencement of marine works.	The baseline water quality monitoring result was 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	Three days per week, at mid-flood and mid-ebb tides.	General impact water quality monitoring for water jetting works was completed on 23 May 2017. The general impact water quality monitoring was terminated after 31 October 2023.
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Three times per week until completion of DCM works.	Due to the completion of all marine-based DCM works within April 2022, regular DCM monitoring was ceased at all monitoring stations starting from 28 April 2022.
Post-construction Phase Water Quality Monitoring	Three days per week, at mid-flood and mid-ebb tides for four weeks	The four-week post-construction phase water quality monitoring exercise was commenced on 14 November 2023 and completed on 9 December 2023.
Sewerage and Sewage Treatment		
Methodology for carrying out annual sewage flow monitoring for concerned gravity sewer	Methodology to be prepared and submitted to EPD one year before the scheduled commencement of operation of the proposed third runway.	The proposed methodology of the annual sewage flow monitoring was approved by EPD. The annual flow monitoring was started from June 2021 and completed in 2022.
Details of the routine H ₂ S monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS.	The H ₂ S monitoring proposal was accepted by EPD in June 2023.
Waste Management		

Parameters	EM&A Requirements	Status
Waste Monitoring	At least weekly	On-going
Land Contamination		
Supplementary Contamination Assessment Plan (CAP)	At least 3 months before commencement of any soil remediation works.	The Supplementary CAP was submitted and approved by EPD under EP condition 2.20.
Site Re-appraisal Summary Report for Fire Training Facility	Site Re-appraisal Summary Report for Fire Training Facility	Site Re-appraisal Summary Report for Fire Training Facility was accepted by EPD.
Contamination Assessment Report (CAR) for Golf Course	CAR to be submitted for golf course	The CAR for Golf Course was submitted and accepted by EPD.
CAR for Terminal 2 Emergency Power Supply System	CAR to be submitted for Terminal 2 Emergency Power Supply Systems	The CARs for Terminal 2 Emergency Power Supply Systems were submitted and accepted by EPD.
Terrestrial Ecology		
Pre-construction Egret Survey Plan	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The Egret Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Monthly monitoring during the HDD construction works period from August to March.	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	-	The coral translocation was completed on 5 January 2017.
Post-translocation Monitoring	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)		
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works. Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and	The construction phase CWD monitoring was completed in December 2023.

Parameters	EM&A Requirements	Status
	PAM: For the whole duration for land formation related construction works.	
Post-construction Phase Monitoring	12 months of post monitoring upon the completion of marine construction works; and Vessel line transect surveys: Two full surveys per month.	Post-construction phase monitoring will be commenced from January 2024.
Landscape and Visual		
Landscape and Visual Plan	At least 3 months before the commencement of construction works on the formed land of the Project.	The Landscape & Visual Plan was submitted and approved by EPD under EP Condition 2.18
Baseline Monitoring	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Establishment Works Monitoring	Bi-monthly	On-going
Long Term Management (10 years) Monitoring	Annually	On-going
Environmental Auditing		
Regular site inspection	Weekly	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	Monitor and check	No Marine Mammal Watching Plan (MMWP) implementation measures during this reporting period.
Dolphin Exclusion Zone (DEZ) Plan implementation measures	Monitor and check	On-going
SkyPier High Speed Ferries (HSF) implementation measures	Monitor and check	On-going
Construction and Associated Vessels implementation measures	Monitor and check	On-going
Silt Curtain Deployment Plan implementation measures	Monitor and check	No Silt Curtain Deployment Plan implementation measures during this reporting period.
Spill Response Plan implementation measures	Monitor and check	On-going
Complaint Hotline and Email Channel	Construction phase	On-going
Environmental Log Book	Construction phase	On-going

Taking into account the construction works in the reporting period, impact monitoring of air quality, noise, water quality, waste management, landscape & visual, and CWD were carried out in the reporting period.

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

- Fifty-one environmental management meetings for EM&A review with works contracts.

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**.

In accordance with Condition 2.6 of EP, AAHK has assisted AFCD in taking forward the statutory procedures for the designation of the NLMP. A gazette notice regarding the approved map was published by the Government on 29 September 2023 with a Draft Designation Order and a relevant Executive Council paper now under preparation. The designation date (i.e. effective date of the NLMP) shall tie in with the commissioning of the 3RS.

2 Environmental Monitoring and Auditing

2.1 Air Quality Monitoring

Impact 1-hour Total Suspended Particulates (TSP) monitoring was conducted three times every six days at two representative monitoring stations during the reporting period. The locations of monitoring stations are described in **Table 2.1** and presented in **Figure 2.1**.

2.1.1 Action and Limit Levels

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 2.1** for reference.

Table 2.1: Impact Air Quality Monitoring Stations

Monitoring Station	Location	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	Man Tung Road Park	306	500
AR2	Village House at Tin Sum	298	

2.1.2 Summary of Monitoring Results

The air quality monitoring results in the reporting period are summarised in **Table 2.2** and the graphical plot is presented in **Appendix C**.

Table 2.2: Percentage of Air Quality Monitoring Results within Action and Limit Levels

	AR1A	AR2
Oct 2023	100%	100%
Nov 2023	100%	100%
Dec 2023	100%	100%
Overall	100%	100%

Note: The percentages are calculated by dividing the number of monitoring results within their corresponding Action and Limit Levels by the total number of monitoring results.

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

General meteorological conditions in the last month of the previous quarter and this reporting period were recorded and summarised in **Table 2.3**.

Table 2.3: General Meteorological Condition during Impact Air Quality Monitoring

	Weather	Dominant Wind Direction
Sep 2023	Sunny to Drizzle	Northwest to East
Oct 2023	Sunny	Northwest to East
Nov 2023	Sunny to Cloudy	North to East
Dec 2023	Sunny	Northwest to East

2.1.3 Conclusion

No dust emission source was observed at the monitoring stations during the monitoring sessions. As the sensitive receivers were far away from the construction activities, with the implementation of dust control measures, there was no adverse impact at the sensitive receivers attributable to the works of the Project.

2.2 Noise Monitoring

Impact noise monitoring was conducted at four representative monitoring stations once per week during 0700 and 1900 in the reporting period. The locations of monitoring stations are described in **Table 2.4** and presented in **Figure 2.1**.

2.2.1 Action and Limit Levels

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 2.4** for reference.

Table 2.4: Impact Noise Monitoring Stations

Monitoring Station	Location	Action Level	Limit Level
NM1A	Man Tung Road Park	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
NM4	Ching Chung Hau Po Woon Primary School		65dB(A) / 70 dB(A) ⁽ⁱ⁾
NM5	Village House in Tin Sum		75 dB(A)
NM6	House No. 1, Sha Lo Wan		75 dB(A)

Note:

⁽ⁱ⁾ The Limit Level for NM4 is reduced to 70 dB(A) for being an educational institution. During school examination period, the Limit Level is further reduced to 65 dB(A).

2.2.2 Summary of Monitoring Results

The noise monitoring results in the reporting period are summarised in **Table 2.5** and the graphical plot is presented in **Appendix C**.

Table 2.5: Percentage of Noise Monitoring Results within Action and Limit Levels

	NM1A	NM4	NM5	NM6
Oct 2023	100%	100%	100%	100%
Nov 2023	100%	100%	100%	100%
Dec 2023	100%	100%	100%	100%
Overall	100%	100%	100%	100%

Note: The percentages are calculated by dividing the number of monitoring results within their corresponding Action and Limit Levels by the total number of monitoring results.

No complaints were received from any sensitive receiver that triggered the Action Level.

General meteorological conditions in the last month of the previous quarter and this reporting period were recorded and summarised in **Table 2.6**.

Table 2.6: General Meteorological Condition during Impact Noise Monitoring

Weather	
Sep 2023	Sunny to Drizzle
Oct 2023	Sunny to Overcast
Nov 2023	Sunny to Cloudy
Dec 2023	Sunny to Cloudy

2.2.3 Conclusion

Major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were traffic noise near NM1A, school activities near NM4, and aircraft noise near NM6. As the sensitive receivers were far away from the construction activities, with the implementation of noise control measures, there was no adverse impact at the sensitive receivers attributable to the works of the Project.

2.3 Water Quality Monitoring

With the completion of land formation works in the first quarter of 2023, termination of the construction phase water quality impact monitoring was proposed to EPD with approval granted on 30 October 2023 and the water quality impact monitoring was terminated after 31 October 2023.

During October 2023, the general impact water quality monitoring was conducted three days per week, at mid-flood and mid-ebb tides at a total of 14 water quality monitoring stations, comprising 6 impact (IM) stations, 5 sensitive receiver (SR) stations, and 3 control (C) stations in the vicinity of the water quality sensitive receivers around the existing airport island in accordance with the Manual.

The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impacts from the Project before the impacts could become apparent at sensitive receivers (represented by the SR stations). **Table 2.7** describes the details of the monitoring stations and **Figure 2.2** shows the locations of the water quality monitoring stations.

Table 2.7: Monitoring Locations and Parameters for General Impact Water Quality Monitoring

Monitoring Station	Description	Coordinates		Parameters
		Easting	Northing	
C1	Control Station	804247	815620	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
C2	Control Station	806945	825682	
C3 ⁽²⁾	Control Station	817803	822109	
IM1 ⁽⁴⁾	Impact Station	806458	818351	
IM2 ⁽⁴⁾	Impact Station	806236	819183	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
IM7 ⁽⁴⁾	Impact Station	806835	821349	
IM10 ⁽⁴⁾	Impact Station	809838	822240	
IM11 ⁽⁴⁾	Impact Station	810545	821501	
IM12 ⁽⁴⁾	Impact Station	811519	821162	
SR1A ⁽¹⁾	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	812660	819977	

Monitoring Station	Description	Coordinates		Parameters
	(HKBCF) Seawater Intake for cooling			
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
SR4A	Sha Lo Wan	807810	817189	
SR8 ⁽³⁾	Seawater Intake for cooling at Hong Kong International Airport (East)	811623	820390	

Notes:

- (1) With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A has been shifted closer to the intake starting from 5 January 2019.
- (2) 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.
- (3) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.
- (4) With the seawall completion and removal of enhanced open sea silt curtains, these monitoring stations were relocated back to their original locations. For IM2, there was minor adjustment of the monitoring location.

2.3.1 Action and Limit Levels

The Action and Limit Levels for general impact water quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are presented in **Table 2.8**. The control and IM stations during flood tide and ebb tide for general impact water quality monitoring are presented in **Table 2.9**.

Table 2.8: Action and Limit Levels for General Impact Water Quality Monitoring

Parameters		Action Level (AL)		Limit Level (LL)	
Action and Limit Levels for general impact water quality monitoring (excluding SR1A & SR8)					
General Water Quality Monitoring	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle		Surface and Middle	
		4.5mg/l		4.1mg/l	
	Suspended Solids (SS) in mg/l	Bottom		Bottom	
		3.4mg/l		2.7mg/l	
		23	or 120% of upstream control station at the same tide of the same day, whichever is higher	37	or 130% of upstream control station at the same tide of the same day, whichever is higher
	Turbidity in NTU	22.6		36.1	
Action and Limit Levels SR1A					
SS (mg/l))		33		42	
Action and Limit Levels SR8					

Parameters	Action Level (AL)	Limit Level (LL)
SS (mg/l)	52	60

Notes:

1. For DO measurement, Action or Limit Level is triggered when monitoring result is lower than the limits.
2. For parameters other than DO, Action or Limit Level of water quality results is triggered when monitoring results is higher than the limits.
3. Depth-averaged results are used unless specified otherwise.

Table 2.9: The Control and Impact Stations during Flood Tide and Ebb Tide for General Impact Water Quality Monitoring

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM7, SR3
SR2 ⁽¹⁾	IM7, IM10, IM11, IM12, SR1A, SR3, SR4A, SR8
Ebb Tide	
C1	SR4A
C2	IM1, IM2, IM7, IM10, IM11, IM12, SR1A, SR2, SR3, SR8

Note:

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

2.3.2 Summary of Monitoring Results

The summary of general impact water quality results within their corresponding Action and Limit Levels in October 2023 are presented in **Table 2.10**. The weather and sea conditions in the last month of the previous quarter and October 2023 were recorded and summarised in **Table 2.11**.

Table 2.10: Percentage of General Impact Water Quality Monitoring Results within Action and Limit Levels

General Impact Water Quality Monitoring				
	DO (Surface and Middle)	DO (Bottom)	SS	Turbidity
Oct 2023	100% (204/204)	100% (204/204)	99.6% (251/252)	100% (204/204)
Overall	100%	100%	99.6%	100%

Notes:

1. The percentages are calculated by dividing the number of depth-averaged results complying with their corresponding Action and Limit Levels by the total number of depth-averaged results.
2. The number in the bracket under the percentage represents the total number of depth-averaged results complying with their corresponding Action and Limit Levels over the total number of depth-averaged results.

Table 2.11: General Weather Condition and Sea Condition during General Impact Water Quality Monitoring

	Weather	Sea Condition
Sep 2023	Sunny to Rainy	Moderate to Rough
Oct 2023	Sunny to Rainy	Calm to Rough

The general impact water quality monitoring results for all parameters, except suspended solids (SS), obtained in October 2023 were within their corresponding Action and Limit Levels stipulated in the EM&A programme. The detailed monitoring results are presented in **Appendix C**.

For SS, one testing result triggered the Action Level in October 2023, and an investigation was conducted accordingly. Summaries of results triggering Action Level for SS are presented in **Table 2.12**.

Details of the investigation findings were presented in Construction Phase Monthly EM&A Report No. 94, which concluded that the result triggering the Action Level was not related to the Project.

Table 2.12: Summary of SS Compliance Status (Mid-Ebb Tide)

	IM1	IM2	IM7	IM10	IM11	IM12	SR2	SR3	SR4A
17/10/2023	D								
No. of result triggering Action or Limit Level	1	0	0	0	0	0	0	0	0

Note: The monitoring results compiled with their corresponding Action or Limit Levels are presented in **Appendix C**.

Legend:	
	Result within corresponding Action and Limit Levels
	Result triggered the Action Level at monitoring station located upstream of the Project based on dominant tidal flow
D	Result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow
	Downstream station with respect to the Project during the respective tide based on dominant tidal flow

2.3.3 Conclusion

In October 2023, it is noted that most of the monitoring results were within their corresponding Action and Limit Levels while one testing result triggered the corresponding Action Level of SS. An investigation was conducted accordingly. Based on the findings presented in Construction Phase Monthly EM&A Report No. 94, the case that triggered the corresponding Action Level was not related to the Project. Hence, the Project did not introduce adverse impact to all water quality sensitive receivers. All required actions under the Event and Action Plan were followed.

2.4 Post-construction Phase Water Quality Monitoring

A post-construction phase water quality monitoring exercise was carried out for four weeks according to Section 5.1.10.1 of the Updated EM&A Manual, in the same manner as the impact monitoring at all monitoring stations during construction phase, from 14 November 2023 to 9 December 2023.

Post-construction phase water quality monitoring of DO, pH, temperature, salinity, turbidity, and suspended solids (SS), total alkalinity, Chromium, and Nickel has been conducted three days per week, at mid-ebb and mid-flood tides, at a total of 23 water quality monitoring stations, comprising 12 impact (IM) stations, 8 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. The details of the monitoring stations are shown in **Table 2.13** and the control and impact stations during ebb tide and flood tide for post-construction phase water quality monitoring are presented in **Table 2.14**. **Figure 2.2a** shows the locations of the monitoring stations for post-construction phase water quality monitoring.

Table 2.13: Monitoring Locations for Post-construction Phase Water Quality Monitoring

Monitoring Station	Description	Coordinates		Parameters
		Easting	Northing	
C1	Control Station	804247	815620	General Parameters
C2	Control Station	806945	825682	DO, pH, Temperature, Salinity, Turbidity, SS
C3 ⁽²⁾	Control Station	817803	822109	

Monitoring Station	Description	Coordinates		Parameters
IM1	Impact Station	806458	818351	<u>DCM Parameters</u> Total Alkalinity, Heavy Metals
IM2	Impact Station	806193	818852	
IM3	Impact Station	806019	819411	
IM4	Impact Station	805039	819570	
IM5	Impact Station	804924	820564	
IM6	Impact Station	805828	821060	
IM7	Impact Station	806835	821349	
IM8	Impact Station	807838	821695	
IM9	Impact Station	808811	822094	
IM10	Impact Station	809838	822240	
IM11	Impact Station	810545	821501	
IM12	Impact Station	811519	821162	
SR1A ⁽¹⁾	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS <u>DCM Parameters</u> Total Alkalinity, Heavy Metals
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
SR4A	Sha Lo Wan	807810	817189	
SR5A	San Tau Beach SSSI	810696	816593	
SR6 ⁽³⁾	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)	811623	820390	

Notes:

- (1) With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A has been shifted closer to the intake starting from 5 January 2019.
- (2) 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.
- (3) Since construction activities and temporary structures for Tung Chung New Town Extension no longer exist, SR6 is adopted according to the Baseline Water Quality Monitoring Report.

Table 2.14: The Control and Impact Stations during Flood Tide and Ebb Tide for Post-construction Phase Water Quality Monitoring

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

Note:

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

2.4.1 Summary of Monitoring Results

The four-week post-construction phase water quality monitoring was conducted from 14 November 2023 to 9 December 2023. The detailed monitoring results and summary table are presented in **Appendix C**.

2.4.2 Conclusion

The four-week post-construction phase water quality monitoring was conducted from 14 November 2023 to 9 December 2023. The comparison between the baseline, construction phase and post-construction phase monitoring results will be presented in the Annual EM&A report for 2023 and Final EM&A report.

2.5 Waste Monitoring

In accordance with the Manual, waste generated from construction activities was audited once per week to determine if wastes were 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.

2.5.1 Action and Limit Levels

The Action and Limit Levels of the construction waste are provided in **Table 2.15**.

Table 2.15: 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

2.5.2 Summary of Monitoring Results

Weekly monitoring of the Project construction works was carried out by the ET in the reporting period to check and monitor the implementation of proper waste management practices.

Recommendations made by the ET included provision and maintenance of proper chemical waste storage area, as well as handling, segregation, and regular disposal of general refuse. The contractors took actions to implement the recommended measures. Waste management audits were carried out by ET according to the requirements of the Waste Management Plan, updated

EM&A Manual and the implementation schedule of the waste management mitigation measures in **Appendix B**.

Based on updated contractors' information, summary of construction waste generated in the reporting period is presented in **Table 2.16**. ET and IEC carried out site audits regularly and reviewed the trip ticket system.

The contractors established the recycling strategy for C&D materials with proper planning and design to maximize recycling and reuse. Dedicated recyclers were employed for different kinds of recyclable materials by the contractors. Dedicated areas for sorting of materials are established on site. Recyclable materials such as steel bar, metal strip, aluminium, paper and plastic are sorted on-site and transported off-site for recycling during this reporting period.

Table 2.16: Construction Waste Statistics

	C&D⁽¹⁾ Material Stockpiled for Reuse or Recycle (m³)	C&D Material Reused in the Project (m³)	C&D Material Reused in other Projects (m³)	C&D Material Transferred to Public Fill⁽²⁾ (m³)	Chemical Waste (kg)	Chemical Waste (l)	General Refuse (tonne)
Oct 2023 ⁽³⁾	0	2,440	64	6,902	0	0	3,958
Nov 2023 ⁽³⁾	0	4,170	0	7,731	1,200	7,200	5,029
Dec 2023 ⁽³⁾	0	3,498	0	4,467	450	940	4,135
Total	0	10,108	64	19,100	1,650	8,140	13,122

Notes:

1. C&D refers to Construction and Demolition.
2. C&D materials not suitable for reuse on-site, including asphalt waste and sediment slurry, were transferred to public fill during the reporting period.
3. Updated figures were provided by contractors.

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

2.5.3 Marine Sediment Management

Marine sediment is managed according to the EIA Report, Updated EM&A Manual and Waste Management Plan and the proposal of Further Development on Treatment Level / Details and the Reuse Mode for Marine Sediment (hereinafter referred to as "Further Development Proposal") of the Project. The, storage conditions of the excavated marine sediment, treatment process, final backfilling location as well as associated records were inspected and checked by ET and verified by IEC to ensure they were in compliance with the requirements as stipulated in the Waste Management Plan and Further Development Proposal.

Treatment and backfilling works for marine sediment generated from the reclaimed land area were conducted during the reporting period. The details of the marine sediment sampling, treatment and backfilling can be referred to Annual EM&A Report No.7.

2.6 Chinese White Dolphin Monitoring

CWD monitoring was conducted by vessel line transect survey at a frequency of two full surveys per month, supplemented by land-based theodolite tracking survey and PAM. The frequency of the land-based theodolite tracking survey during the construction phase was one day per month at both Sha Chau (SC) and Lung Kwu Chau (LKC) stations, as stipulated in the Manual. The vessel survey transects followed the transect lines proposed in the Manual and are consistent with those used in the Agriculture, Fisheries and Conservation Department (AFCD) long-term CWD monitoring programme. The transect locations of CWD monitoring by vessel line transect

survey are shown in **Figure 2.3**, whilst the land-based theodolite tracking survey stations are described in **Table 2.17** and depicted in **Figure 2.4**. The location of the PAM device is shown in **Figure 2.10**.

Table 2.17: Land-based Theodolite Tracking 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

Although the 3RS land formation works were completed in the first quarter of 2023, the construction phase CWD monitoring was continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD abundance on an annual basis. The post-construction phase CWD monitoring will be commenced in January 2024. The post-construction phase CWD monitoring will be conducted by vessel line transect survey at a frequency of two full surveys per month.

2.6.1 Action and Limit Levels

The Action Level and Limit Level for CWD monitoring were formulated by an action response approach using the running quarterly dolphin encounter rates (STG and ANI) derived from baseline monitoring data, as presented in the CWD Baseline Monitoring Report. The derived values of Action and Limit Levels for CWD monitoring are shown in **Table 2.18**.

Table 2.18: Derived Values of Action Level and Limit Level 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

2.6.2 Summary of Monitoring Results

2.6.2.1 Vessel Line Transect Survey

Survey Effort

During the reporting period from October to December 2023, a total of six sets of vessel line transect survey covering all transects in Northeast Lantau (NEL), Northwest Lantau (NWL), Airport West (AW), West Lantau (WL) and Southwest Lantau (SWL) survey areas were conducted at a frequency of twice per month, in each survey area.

A total of around 1,351 km of survey effort was collected from these surveys, with around 97.1% 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 data are presented in **Appendix C**.

CWD Sighting

From October to December 2023, there were a total of 33 sightings of CWD, with 99 dolphins sighted (**Table 2.19**). All these sightings were recorded during on-effort searches under favourable weather condition.

When breaking down the sightings by survey areas, 24 sightings with a total of 67 dolphins and 8 sightings with a total of 29 dolphins were recorded in, WL and SWL respectively during the current reporting period. One sighting of three dolphins was recorded on AW transect within NWL survey area. No CWD was sighted in NEL survey area.

Compared with the previous quarter (i.e. July to September 2023), the total number of CWD sightings and the total number of the dolphins have decreased by 25% and 26% respectively. There was a notable reduction in dolphin sightings and the number of dolphins in both WL and SWL survey area in the current reporting quarter.

Compared with the same quarter of last year (i.e., October to December 2022), there were slight increases in both the total number of sightings and the total number of dolphins by 3% and 10% respectively. In WL, there was a slight decrease in both the number of sightings and number of dolphins by 4% and 9% respectively. On the other hand, there were notable increase in both number of sightings and number of dolphins in SWL by 60% and 123% respectively.

Table 2.19 below shows the comparison of the numbers of sightings and dolphins amongst the current reporting period, last quarter, and the same quarter of last year.

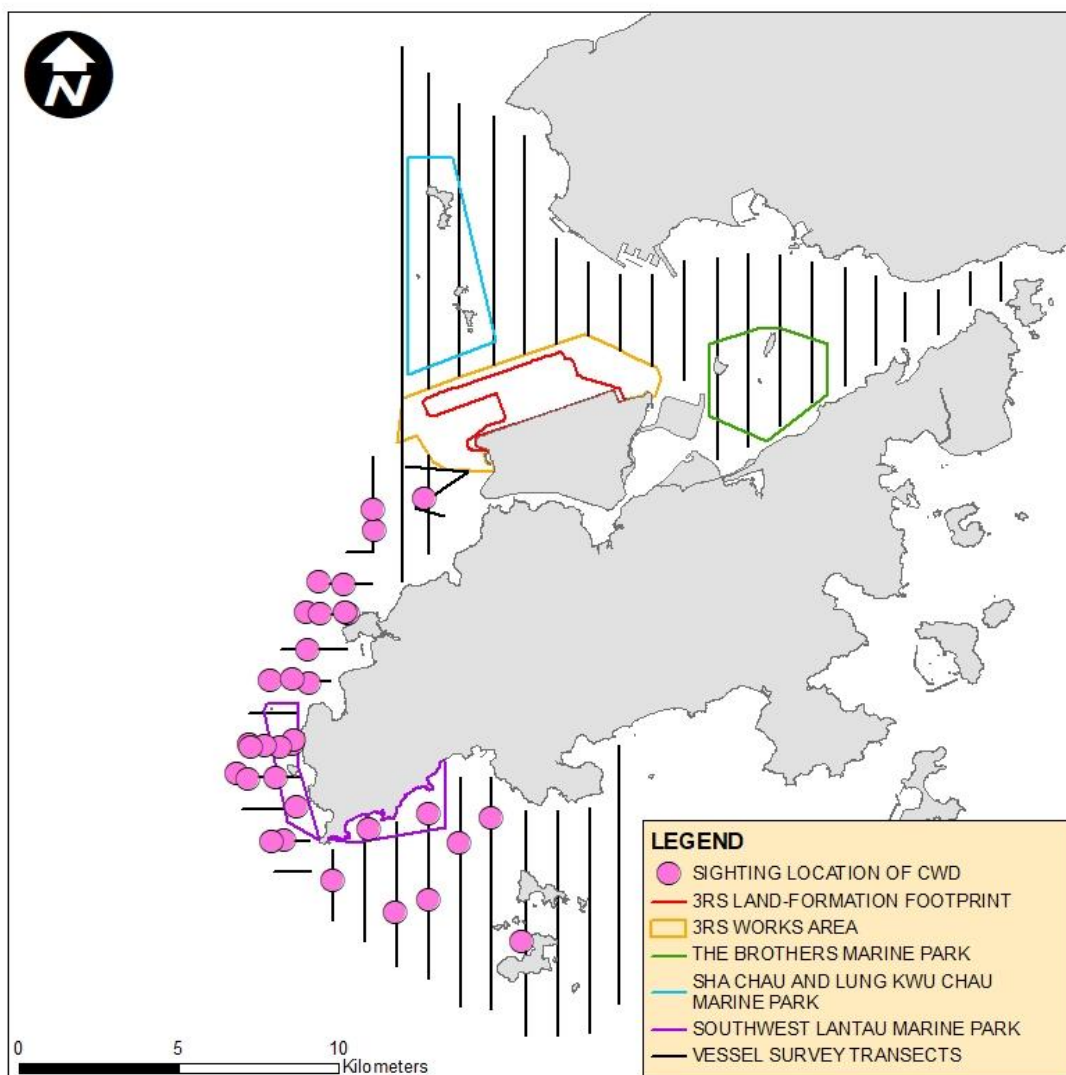
Table 2.19: Summary of Number of CWD Sightings and Number of Dolphins for the Same Quarter Last Year, Previous Quarter, and Current Reporting Period

	Same Quarter of Last Year	Previous Reporting Period	Current Reporting Period
	October to December 2022	July to September 2023	October to December 2023
NEL	0 (0)	0 (0)	0 (0)
NWL	2 (3)	0 (0)	0 (0)
AW	0 (0)	0 (0)	1 (3)
WL	25 (74)	30 (87)	24 (67)
SWL	5 (13)	14 (46)	8 (29)
Total	32 (90)	44 (133)	33 (99)

Note: Values in () represent number of dolphins

The distribution of CWD sightings recorded from October to December 2023 is illustrated in **Figure 2.5**. In WL, CWD sightings were clustered at the waters between Tai O and Fan Lau. In SWL, CWD sightings mostly scattered in waters between Fan Lau and Shek Pik. In NWL including the AW transects, the only sighting was recorded in waters west to the Airport. No CWD sightings were recorded in NEL survey area during the reporting period. Details of the sighting data are presented in **Appendix C**.

Figure 2.5: Sightings Distribution of Chinese White Dolphins from October to December 2023



Remarks: (1) Please note that there are 33 pink circles on the map indicating the sighting locations of CWD. Some of them were very close to each other and therefore appear overlapped on this sighting distribution map. (2) Marine Park excludes land area and the landward boundary generally follows the high water mark along the coastline.

Encounter Rate

The dolphin encounter rates for the number of on-effort dolphin sightings per 100 km survey effort (STG) and for the total on-effort number of dolphins per 100 km survey effort (ANI) in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) for October, November and December 2023 are summarised in **Table 2.20**.

In this reporting period, the monthly STG increased significantly from October to December (STG: from 1.54 to 2.56 and reach 3.50). Meanwhile, the monthly ANI increased significantly from October to November, followed by a decrease in December (ANI: increased from 4.41 to 11.17 and dropped to 7.22). For running quarterly encounter rates, the running quarterly STG has decreased from October to November and rebounded slightly in December. The running quarterly ANI decreased gradually from October to December. No Action Level for CWD monitoring was triggered during the reporting period.

Compared with the previous reporting period (i.e. July to September 2023), overall both the running quarterly STG and ANI decreased from August 2023 to December 2023 (STG: from 3.76 to 2.51; ANI from 11.90 to 7.54). While comparing with the same quarter of last year (i.e. October to December 2022), the running quarterly STG remained at similar levels while the running quarterly ANI was slightly higher (i.e. 7.54 in Dec 2023 versus 6.73 in Dec 2022). Encounter rates for these periods are summarised in **Table 2.20** and graphical presentation is provided in **Appendix C**.

Table 2.20: Summary of Monthly and Running Quarterly STG and ANI of Chinese White Dolphin for the Same Quarter Last Year, Previous Quarter, and Current Reporting Period

	Same Quarter of Last Year			Previous Reporting Period			Current Reporting Period		
	Oct 22	Nov 22	Dec 22	Jul 23	Aug 23	Sep 23	Oct 23	Nov 23	Dec 23
Monthly STG	3.46	2.68	1.47	2.67	4.23	3.02	1.54	2.56	3.50
Monthly ANI	10.66	5.59	4.65	8.91	13.58	7.43	4.41	11.17	7.22
Running Quarterly STG	3.11	2.77	2.49	3.32	3.76	3.31	2.93	2.36	2.51
Running Quarterly ANI	11.03	7.67	6.73	10.42	11.90	10.01	8.48	7.61	7.54

Note: For detailed calculations of encounter rates STG and ANI for the current reporting period, please refer to the Construction Phase Monthly EM&A Report Nos. 94, 95, and 96.

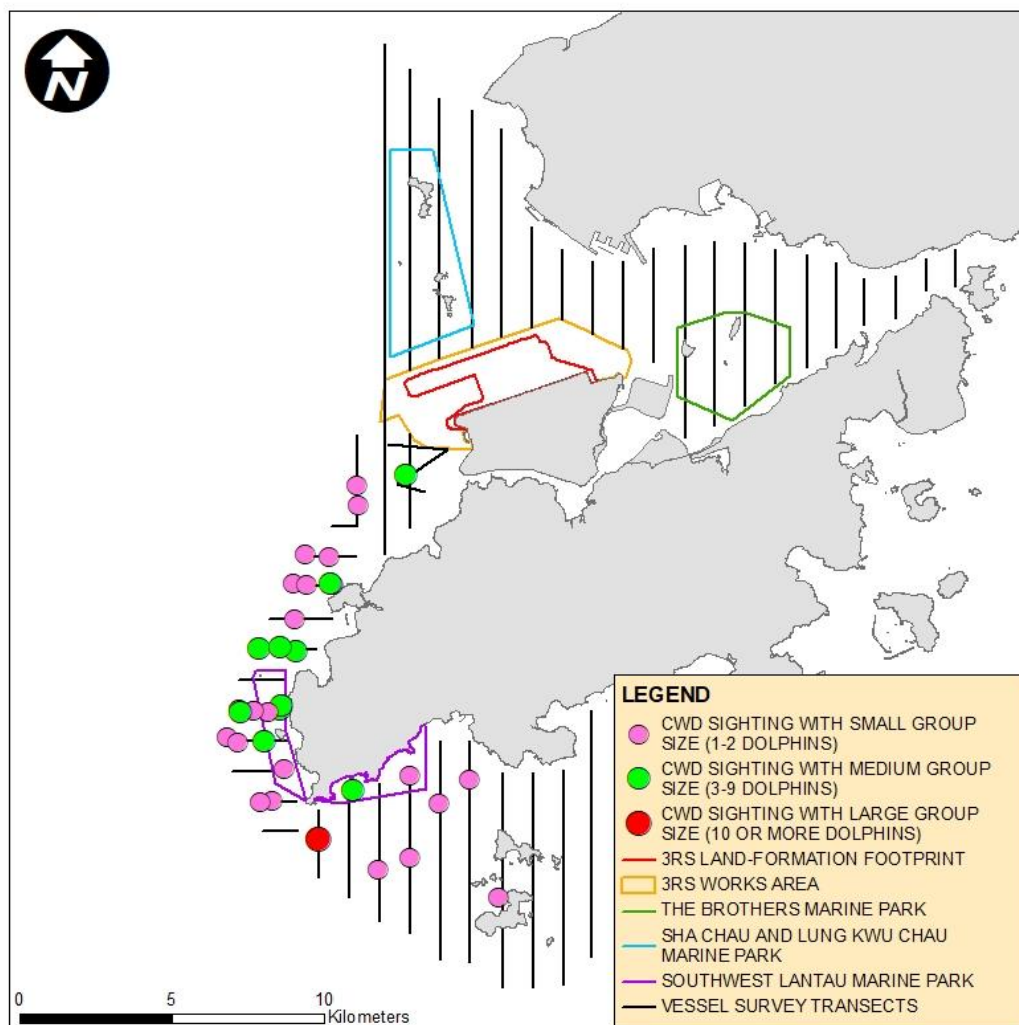
Group Size

Between October and December 2023, the group size of CWD sightings ranged from one to 15 dolphins. The average group size of CWD was 3.00 dolphins per group, which is similar to that of the last quarter (3.02 dolphins per group). The average group size of CWD in this reporting quarter is slightly larger than that of the same quarter of last year (2.81 dolphins per group).

In this reporting quarter, the number of CWD sightings with small group size (i.e., 1-2 dolphins) was dominant. There was one CWD sighting with large group size (i.e., 10 or more dolphins) recorded in SWL in this reporting period.

There was no apparent pattern in the distribution of small-sized dolphin groups and medium-sized dolphin groups in all survey areas. Sighting locations of CWD groups with different group sizes are depicted in **Figure 2.6**.

Figure 2.6: Sighting Locations of Chinese White Dolphins with Different Group Sizes



Remarks: (1) Please note that there are 33 circles on the map indicating the sighting locations of CWD. Some of them were very close to each other and therefore appear overlapped on this sighting distribution map. (2) Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

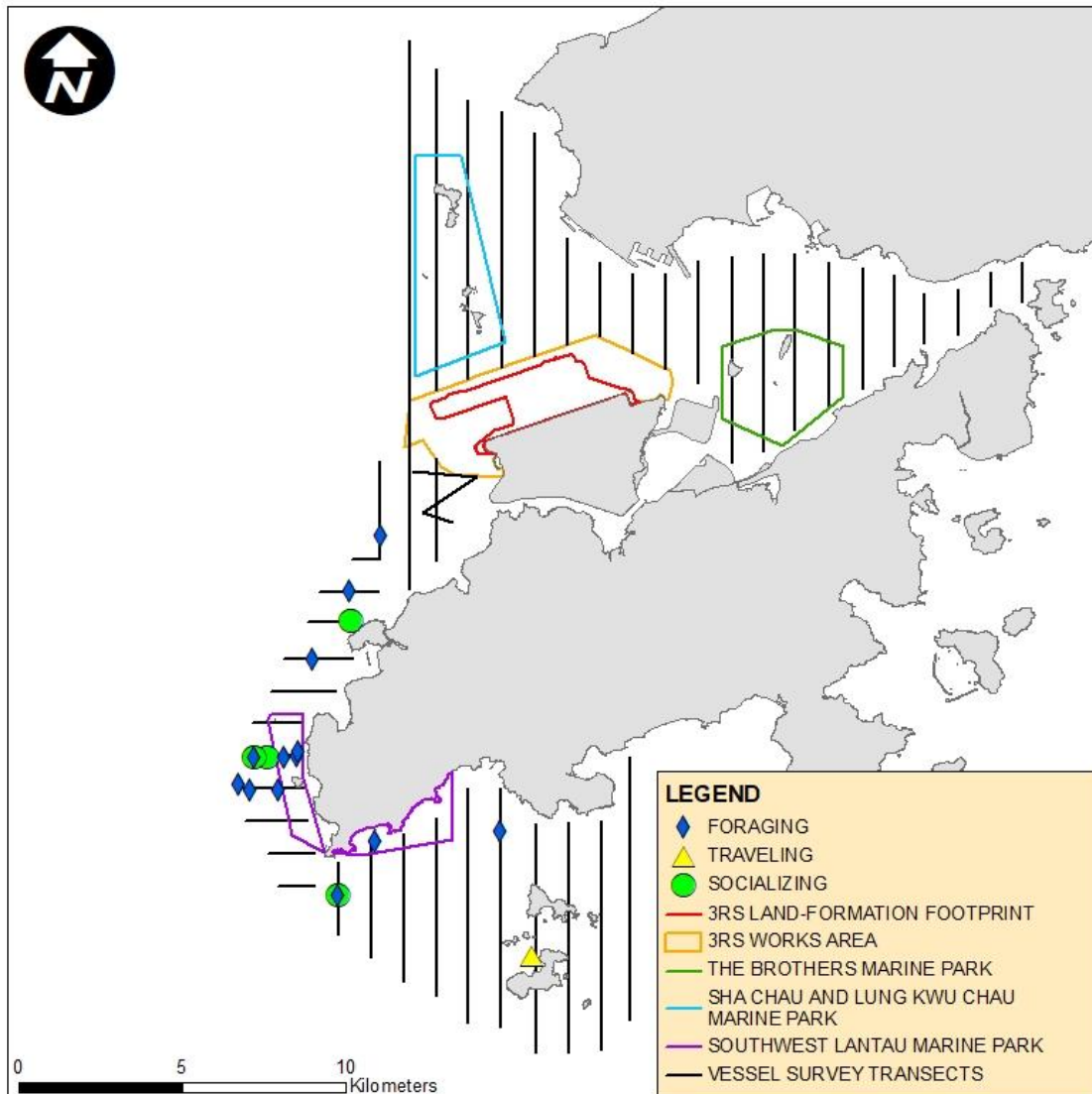
Activities and Association with Fishing Boats

From October to December 2023, 13 sightings of CWD were recorded with foraging activities. Amongst them, the three sightings were observed associated with operating purse seiners, shrimp trawler and gillnetter respectively. Two of these sightings were recorded in WL and one in SWL.

Sightings with foraging activities recorded in the current reporting period was higher than that in the previous reporting period (i.e., nine sightings involved foraging activities between July and September 2023). The number of CWD sightings with foraging activities in this reporting period was higher than that in the same quarter of last year (i.e., 10 sightings between October and December 2022).

The sighting locations of CWDs engaged in different behaviours during the current reporting period are illustrated in **Figure 2.7**.

Figure 2.7: Sighting Locations of Chinese White Dolphins Engaged in Different Behaviours



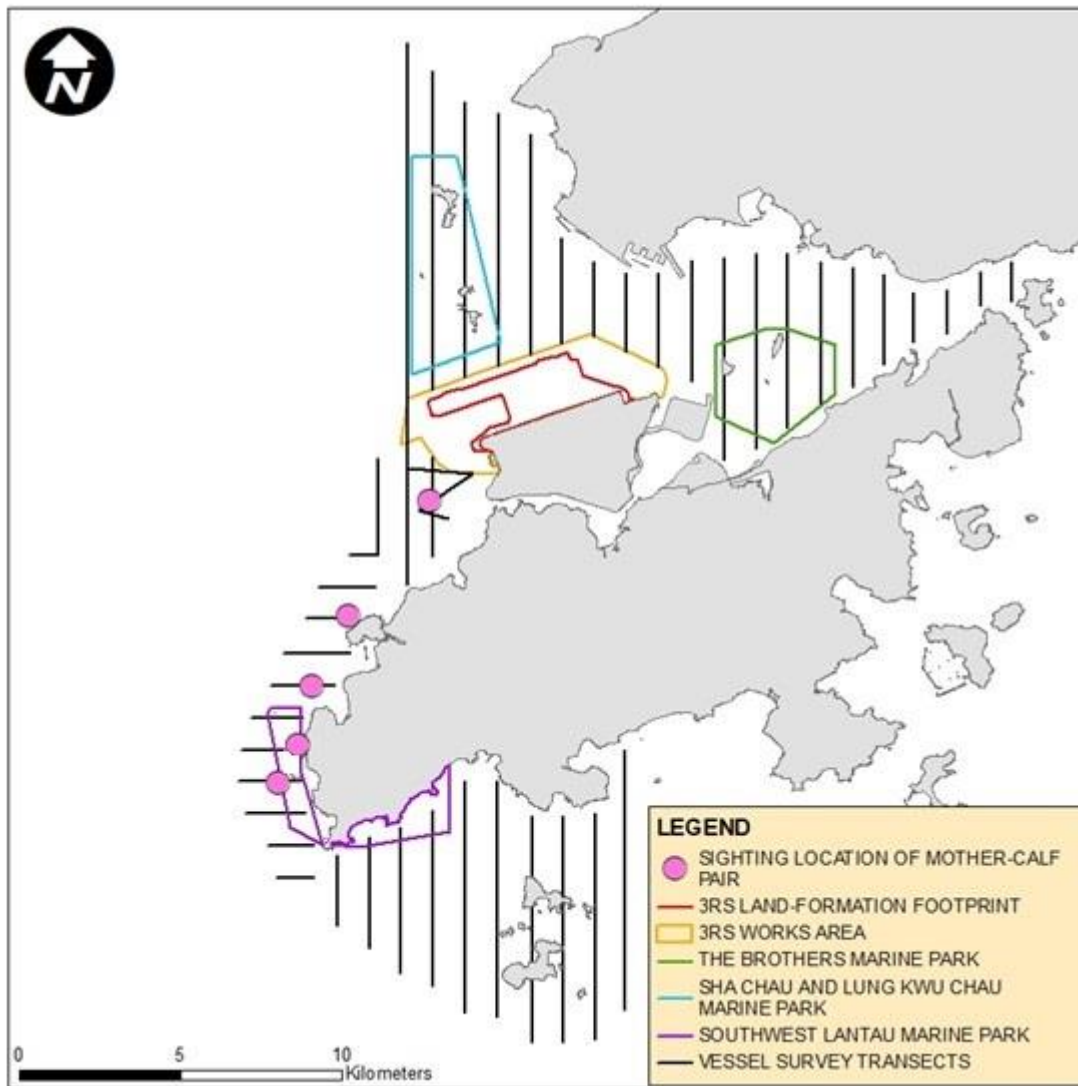
Remarks: (1) Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

Mother-calf Pairs

From October to December 2023, five sightings of CWD were recorded with the presence of mother-and-unspotted juvenile pairs and/or mother-and-calf pair, which was similar to that recorded in the previous reporting quarter (i.e., seven sightings between July and September 2023). The number of CWD sightings with the presence of mother-calf pairs was higher than that recorded in the same quarter of last year (i.e., four sightings between October and December 2022).

These five sightings with the presence of mother-calf pairs recording during the reporting period were all recorded in WL and AW survey area (four pairs in WL and one pair in AW respectively). The locations of CWD sightings with the presence of mother-calf pairs are shown in **Figure 2.8**.

Figure 2.8: Sighting Locations of Mother-calf Pairs



Remarks: Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

Photo Identification

Between October and December 2023, a total number of 41 different CWD individuals were identified altogether for 58 times. Re-sighting information of CWD individuals provides an initial idea of their range use and apparent connection between different areas of Lantau waters. Amongst these 41 different CWD individuals, 12 animals (i.e., NLMM023, SLMM003, SLMM023, SLMM031, SLMM034, SLMM037, SLMM044, WLMM001, WLMM007, WLMM056, WLMM065, WLMM109) were sighted for more than once.

Five individuals including NLMM023, SLMM003, WLMM001, WLMM007 and WLMM056 were re-sighted in different survey areas during this reporting period. The most frequently re-sighted individuals in this reporting quarter were SLMM003 and SLMM034 that both were successfully identified for four times each. The numbers of CWD individuals re-sighted more than once and showed cross-area movement were lower than that of the last reporting period from July to September 2023 (i.e. 18 and 11 CWD individuals respectively).

A summary of photo identification works is presented in **Table 2.21**. Representative photos of the 41 identified individuals and figures depicting the sighting locations of the aforementioned 5 individuals re-sighted in different survey areas in this reporting period are presented in **Appendix C**.

Table 2.21: Summary of Photo Identification

Individual ID	Date of sighting	Sighting Group No.	Area	Individual ID	Date of sighting	Sighting Group No.	Area
NLMM001	15-Nov-23	2	WL	SLMM058	27-Dec-23	7	WL
NLMM023	20-Oct-23	1	WL	SLMM060	13-Oct-23	3	WL
	06-Nov-23	8	SWL	SLMM064	13-Oct-23	4	WL
NLMM041	13-Oct-23	1	WL	SLMM070	15-Nov-23	5	WL
NLMM058	06-Nov-23	8	SWL	WLMM001	06-Nov-23	8	SWL
SLMM002	27-Dec-23	7	WL		27-Dec-23	7	WL
SLMM003	06-Nov-23	8	SWL	WLMM003	13-Nov-23	1	WL
	13-Nov-23	1	WL	WLMM007	13-Oct-23	4	WL
		2	WL		06-Nov-23	8	SWL
	27-Dec-23	5	WL		13-Nov-23	1	WL
SLMM007	13-Oct-23	4	WL	WLMM056	06-Nov-23	7	SWL
SLMM010	13-Nov-23	1	WL		13-Nov-23	1	WL
SLMM014	13-Oct-23	4	WL	WLMM065	06-Nov-23	7	SWL
SLMM022	15-Nov-23	5	WL			8	SWL
SLMM023	13-Oct-23	4	WL	WLMM068	27-Dec-23	4	WL
	27-Dec-23	9	WL	WLMM071	15-Nov-23	1	AW
SLMM031	27-Dec-23	6	WL	WLMM079	13-Nov-23	2	WL
		8	WL	WLMM109	13-Oct-23	4	WL
SLMM034	06-Nov-23	7	SWL		27-Dec-23	7	WL
		8	SWL	WLMM112	27-Dec-23	4	WL
	11-Dec-23	1	SWL	WLMM113	27-Dec-23	4	WL
		2	SWL	WLMM118	06-Nov-23	8	SWL
SLMM037	27-Oct-23	2	SWL	WLMM149	13-Oct-23	1	WL
	11-Dec-23	2	SWL	WLMM150	06-Nov-23	8	SWL
SLMM044	13-Nov-23	1	WL	WLMM162	27-Dec-23	4	WL
	27-Dec-23	9	WL	WLMM168	06-Nov-23	8	SWL
SLMM050	27-Dec-23	7	WL	WLMM192	13-Oct-23	4	WL
SLMM052	13-Oct-23	4	WL	WLMM193	15-Nov-23	1	AW
SLMM055	06-Nov-23	7	SWL	WLMM194	27-Dec-23	8	WL

2.6.2.2 Land-based Theodolite Tracking Survey

Survey Effort

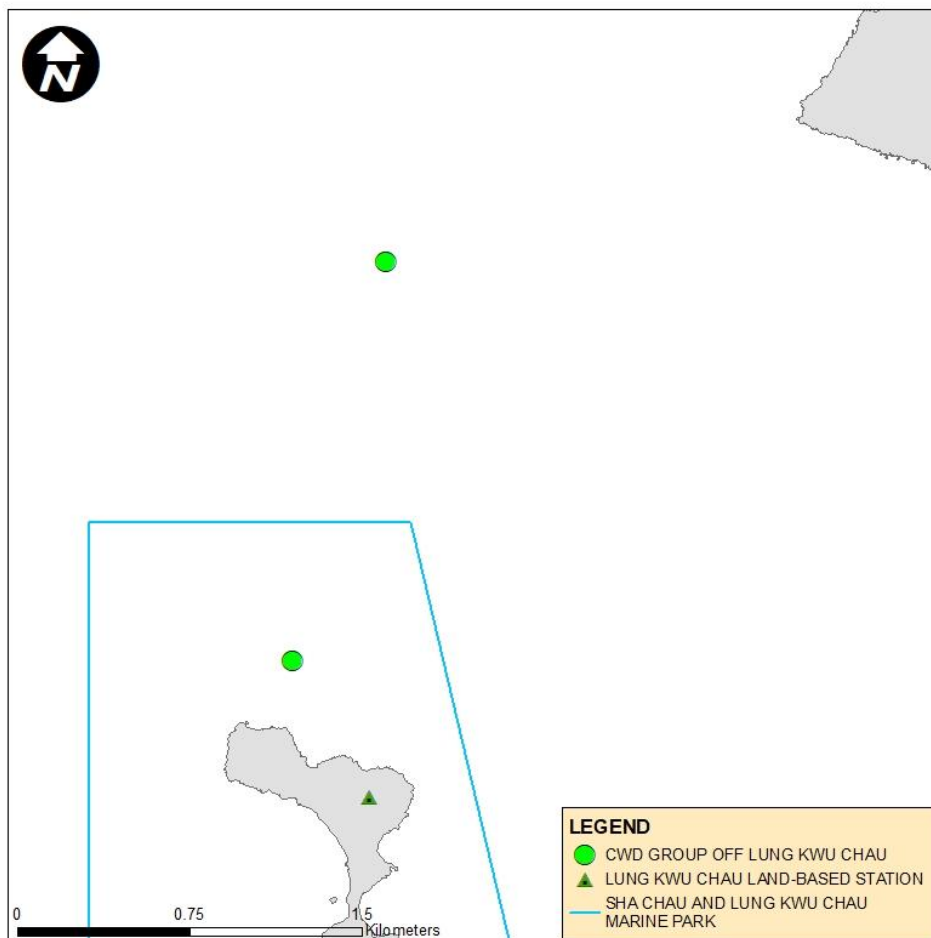
Between October and December 2023, a total of six days of land-based theodolite tracking survey effort were completed, including three days on Lung Kwu Chau and three days on Sha Chau. During the reporting quarter, two CWD groups were tracked from the Lung Kwu Chau station while no CWD group was tracked from the Sha Chau station, with an overall 0.06 CWD group sighted per survey hour. Information on survey effort and CWD groups sighted during land-based theodolite tracking surveys are presented in **Table 2.22**.

Details on the survey effort and CWD groups tracked are presented in **Appendix C**. The first sighting locations of CWD groups tracked between October and December 2023 are shown in **Figure 2.9**.

Table 2.22: Summary of Survey Effort and CWD Group of Land-based Theodolite Tracking Survey

Land-based Station	# of Survey Sessions	Survey Effort (hh:mm)	# CWD Groups Sighted	CWD Group Sighting per Survey Hour
October 2023				
Lung Kwu Chau	1	06:00	0	0
Sha Chau	1	06:00	0	0
TOTAL	2	12:00	0	0.00
November 2023				
Lung Kwu Chau	1	06:00	0	0.00
Sha Chau	1	06:00	0	0
TOTAL	2	12:00	0	0.00
December 2023				
Lung Kwu Chau	1	06:00	2	0.33
Sha Chau	1	06:00	0	0
TOTAL	2	12:00	2	0.17
OVERALL	6	36:00	2	0.06

Figure 2.9: Plots of First Sightings of All CWD Groups from Land-based Stations



2.6.2.3 Progress Update on PAM

PAM device has been deployed and positioned to the south of Sha Chau within the SCLKCMP (**Figure 2.10**) to supplement the detection of CWD presence in the south Sha Chau area that are not recorded visually by the land-based theodolite tracking survey and to coincide the theodolite data when there is sighting from the land-based station at Sha Chau. Both C-POD and F-POD are considered as effective PAM devices in detecting CWD occurrence, and F-POD was the main PAM device deployed where feasible. In this reporting period, the F-POD was retrieved on 1 November 2023 for data collection and subsequently re-deployed. As the period of data collection and analysis takes more than four months, PAM results could not be reported in quarterly intervals but report for supplementing the annual CWD monitoring analysis.

2.6.2.4 Site Audit for CWD-related Mitigation Measures

During the reporting period, teams of at least two dolphin observers were deployed at 2 dolphin observation stations by the contractors for continuous monitoring of the DEZ for armour rock laying works in accordance with the DEZ Plan. One training session for the proposed dolphin observers on the implementation of DEZ monitoring were provided by the ET during this reporting period, with a cumulative total of 709 individuals being trained and the training records were kept by the ET. From the contractors' DEZ monitoring records, no dolphin or other marine mammals were observed within or around the DEZ in this reporting period. The contractor's records were also audited by the ET during site inspection.

Summary of audits of SkyPier HSFs route diversion and speed control and construction vessel management are presented in **Section 2.8** and **Section 2.9** respectively.

2.7 Environmental Site Inspection




Site inspections of the construction works to audit the implementation of proper environmental pollution control and mitigation measures for the Project were conducted by ET and IEC on a weekly and bi-weekly basis, respectively. Besides, ad-hoc site inspections were also conducted by ET and IEC if environmental problems were identified, or subsequent to receipt of an environmental complaint, or as part of the investigation work. These site inspections provided a direct means to reinforce the specified environmental protection requirements and pollution control measures in construction sites.

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

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

Good site practices were implemented in the project to enhance environmental performance. Key examples implemented in the Project are highlighted as below:

1. Speed cameras were installed at the main haul road by the contractor to monitor the speed of vehicles in order to reduce generation of fugitive dust during vehicle travelling.
2. Bunds were provided along the temporary drains to prevent site runoff.
3. Dust screen was erected next to the piling works to prevent dust nuisance on nearby public road.

		
Installed speed cameras at the main haul road to monitor the speed of vehicle	Bunds were provided along temporary drains	Dust screen was erected next to the public road

Besides, advice was given when necessary to ensure the construction workforce were familiar with relevant procedures, and to maintain good environmental performance on site. Regular toolbox talks on environmental issues were organised for the construction workforce by the contractors to ensure understanding and proper implementation of environmental protection and pollution control mitigation measures.

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**.

2.7.1 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures CM1 – CM10 and OM7 in **Appendix B**) is monitored regularly in accordance with the Manual. The implementation status of the environmental protection measures is summarised in **Table 2.23**. For trees which were managed under the Project during the reporting period, relevant measures (i.e., CM1 – CM9) were implemented by Contracts 3508 and 3801. For CM10, the advanced hydroseeding works around taxiways and runways were partially completed and would resume in next phase. The total number of retained trees, transplanted trees and to-be-transplanted trees under the management of Project are summarized in **Table 2.24**.

The total number of retained trees of the Project as of December 2023 remained unchanged (i.e. 37) comparing to the previous reporting period.

The cumulative total number of transplanted trees of the Project remained unchanged (i.e. 26 nos.) comparing with previous reporting quarter. Details of the summary of transplanted trees are shown in **Table 2.25**. Photos of the transplanted trees are presented in

Table 2.26. For OM7, the bi-monthly site inspections for 12-month establishment period were undertaken in October and December 2023 during the reporting period. Next inspection will be conducted in February 2024.

Table 2.23: Landscape and Visual – Construction Phase Audit Summary

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
Implementation Status		
CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.	The implementation of mitigation measures were checked by ET during weekly site inspection and clarified by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures CM5, CM6 and CM7 by Contractors was observed.	All works contracts
CM2 – Reduction of construction period to practical minimum.		
CM3 – Phasing of the construction stage to reduce visual impacts during the construction phase.		
CM4 – Construction traffic (land and sea) including construction plants, construction vessels and barges shall be kept to a practical minimum.		
CM5 – Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.		
CM6 – Avoidance of excessive height and bulk of site buildings and structures		
CM7 – Control of night-time lighting by hooding all lights and through minimisation of night working periods		
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	Tree Protection Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project. The Contractors' performance on the implementation of the trees maintenance and protection measures were observed and checked by the ET weekly during construction period.	3508, 3801
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	Tree Transplanting Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees will unavoidably be affected by the construction works. The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site. The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 12-month establishment period after the completion of each batch of transplanting works.	3508, 3801

Landscape and Visual Mitigation Measures during Construction Implementation Status	Implementation Status	Relevant Contract(s) in the Reporting Period
	Long term management of the transplanted trees were currently monitored by ET annually.	
CM 10 – Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical	The advanced hydroseeding works around taxiways and runways were partially completed at this stage and would resume in next phase.	To be implemented
OM7- Compensatory tree planting for all felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under the relevant technical circulars. ⁽¹⁾	The first batch of compensatory trees was planted and the bi-monthly site inspection for the 12-month establishment period was commenced in June 2023. During the reporting period, the bi-monthly site inspection was undertaken in October and December 2023. Next inspection will be conducted in February 2024.	AAHK

Note:

(1) AAHK is the management and maintenance agency of the compensatory trees. Tree Felling Application is not required for 3RS project.

Table 2.24: Summary of the Number of Retained, Transplanted and To-be-transplanted Trees in the Reporting Period

Contract No.	Retained (nos.)	Transplanted (nos.)		To-be-transplanted (nos.)
		Establishment Period	Maintenance Period	
3503 ⁽¹⁾	0	0	9	0
3508	34	0	12	0
3801	3	0	5	0
Grand Total	37	0	26	0

Notes:







(1) Contract 3503 was completed and the 9 transplanted trees have been handed over to AAHK.

Table 2.25: Summary of the Transplanted Trees Updated in the Reporting Period

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT276	3 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Next inspection will be conducted in February 2024. Photos of the last inspection in February 2023 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.86.
CT1253	4 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	
T835	22 Jan 2020	<u>Long Term Management period</u> Feb 2021 – Jan 2030	AAHK	Next inspection will be conducted in February 2024. Photos of the last inspection in February 2023 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.86.
T836	13 Dec 2019	<u>Long Term Management period</u> Feb 2021 – Jan 2030	AAHK	
T838	22 Jan 2020	<u>Long Term Management period</u> Feb 2021 – Jan 2030	AAHK	
T812	21 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	AAHK	Next inspection will be conducted in December 2024. Photos of the last
T814	20 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	AAHK	

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
T815	15 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	AAHK	inspection in December 2023 were shown in Table 2.26.
T829	18 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	AAHK	
T830	14 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	AAHK	
T831	19 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	AAHK	
T1493	6 Jul 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	Next inspection will be conducted in July 2024. Photos of the last inspection in July 2023 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.91.
T1494	6 Jul 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1495	10 Jul 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1496	5 Jul 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1497	5 Jul 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1498	29 Jun 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1499	29 Jun 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1500	30 Jun 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1501	30 Jun 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1502	5 Jul 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1503	6 Jul 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
T1504	24 Jun 2021	<u>Long Term Management period</u> Aug 2022 – Jul 2031	Contract 3508	
CT1194	4 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filling Station.
CT1794	3 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	AsiaWorld-Expo	The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.
CT1795	3 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	AsiaWorld-Expo	The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.

Table 2.26: Photos of the Existing Transplanted Trees Inspected in the Reporting Period

Under 10-year Long-term Management:		
		
T812	T814	T815
		
T829	T830	T831

2.7.2 Land Contamination Assessment

The Supplementary CAP was submitted to EPD pursuant to EP Condition 2.20. The CARs for Golf Course and T2 Emergency Power Supply Systems (EPSS) were submitted to EPD in accordance with EP Condition 1.9 and the Supplementary CAP in which no land contamination issues were identified. EPD has issued no further comment for aforesaid CARs. No leakage was found after the removal of underground fuel pipelines and all required additional photos were submitted to EPD.

According to the approved supplementary CAP, there are 3 remaining locations where site re-appraisal / additional site investigation are proposed. Site re-appraisal was conducted at one of the above remaining locations, fire training facilities on 22 August 2023. In view of the relevant information from government departments, facility setup and site survey observations, it is considered that the contamination potential of the kerosene tank and the associated pipes is very unlikely. The site summary re-appraisal report for Fire Training Facility was accepted by EPD on 20 December 2023. The status of site re-appraisal/ additional site investigation of the 2 remaining locations shall be further updated upon latest development programme is available.

2.8 Audit of SkyPier High Speed Ferries

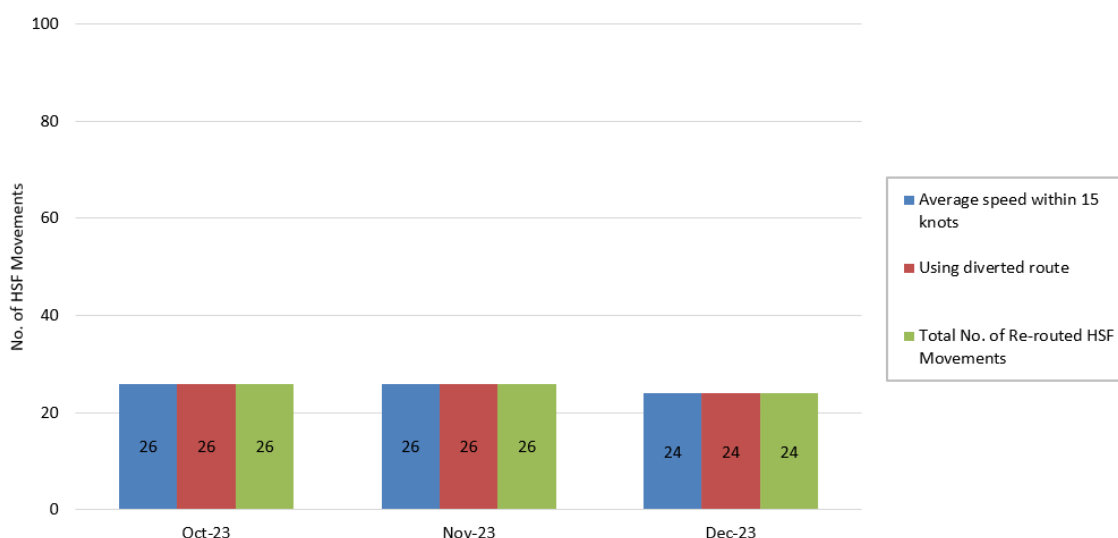
The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on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

Due to the operational need, the SkyPier HSF services to/from Zhuhai has been suspended from 25 March 2020 until further notice. In total, 76 ferry movements between HKIA SkyPier and Macau

were audited in the reporting period. The daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, ranged between 6 and 54, which fell within the maximum daily cap number of 125.

The average speed of the HSF travelling through the Speed Control Zone (SCZ) ranged from 10.6 to 13.5 knots. All HSFs travelled through the SCZ with average speed within 15 knots, used diverted route and entered / left SCZ through gate access points in compliance with the SkyPier Plan. The summary of the SkyPier Plan monitoring result is presented in **Graph 1**.

Graph 1: Summary of SkyPier High Speed Ferries Monitoring Results



2.9 Audit of Construction and Associated Vessels

On the implementation of the updated Marine Travel Routes and Management Plan for Construction and Associated Vessels (MTRMP-CAV), the Maritime Surveillance System (MSS) automatically recorded deviation cases such as speeding, entering no entry zone, and not traveling through the designated gates. ET conducted bi-weekly audit of relevant information including AIS data, vessel tracks and other relevant records to ensure sufficient information were provided by the system and the contractors complied with the requirements of the MTRMP-CAV. The contractors submitted 3-month rolling vessel plans for construction vessel activities to AAHK in order to help maintain the number of construction vessels to a practicable minimum. The IEC also performed audit on the compliance of the requirements as part of the EM&A programme.

During the reporting period, deviations including speeding within the works area, entry from non-designated gates, and entering no-entry zones were identified. After investigation by the contractor's Construction Traffic Control Centre (CTCC) representatives, all the concerned captains were reminded to comply with the requirements of the MTRMP-CAV.

2.10 Review of the Key Assumptions Adopted in the EIA Report

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

3 Report on Non-compliance, Complaints, Notifications of Summons and Prosecutions

3.1 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.

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

3.2.1 Complaints

Eleven environmental complaints were received during the reporting period. All were attended to and investigated by the ET in accordance with the Manual and the Complaint Management Plan. A summary of the complaints and analyses is presented in **Table 3.1**.

Table 3.1: Summary of Environmental Complaints

Date of Complaint Received	Details	Analysis/ Remedial Actions	Status
4 October 2023	A complaint regarding dust nuisance at 3RS reclaimed area was received.	A complaint regarding dust nuisance observed on reclaimed land area was received on 4 October 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. ET requested the relevant contractors to provide information regarding the complaint. During the ET's site inspection, water spraying was provided on the related haul road, yet part of the road was observed dry with fugitive dust generated during vehicle movements. The concerned contractor updated their dust suppression plan and an additional water truck was provided plus two sets of water sprinkler systems were installed to enhance their dust mitigation measures. The ET would continue to monitor their performance on their enhanced dust mitigation measures. Hence, the case was considered closed.	Closed
9 October 2023	A complaint regarding dust nuisance at Northeast Quay (NE Quay) was received.	A complaint regarding dust nuisance at Northeast Quay (NE Quay) was received on 9 October 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. ET requested the relevant contractors to provide information regarding the complaint. Contractors replied dust suppression measures such as water spraying and wheel washing were provided at NE Quay. During the ET's site inspections, water spraying was observed at the NE Quay and wheel washing was also provided to all vehicles before the vehicles embark Roro barges. No dust nuisance was observed during the inspections. Having said that, the relevant contractors were reminded to properly implement and enhance dust measures at NE Quay. Hence, the case was considered closed.	Closed
16 October 2023	A complaint regarding noise and dust nuisance at Sky Plaza Road was received.	A complaint regarding noise and dust nuisance at Sky Plaza Road was received on 16 October 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. ET requested the relevant contractor to provide information regarding the complaint and reply indicated dust suppression measures and noise control measures were implemented at the related works area. During the ET's site inspections, no dust and noise nuisance issues were recorded. Nevertheless, the relevant	Closed

Date of Complaint Received	Details	Analysis/ Remedial Actions	Status
		contractor erected an additional layer of noise insulation materials to enclose the boundary of the works area and also adjusted the works schedule to start later in the morning to minimize noise and dust nuisance to the public. The relevant contractor was reminded to keep on review and continuously implement their enhanced dust and noise mitigation measures. Hence, the case was considered closed.	
20 October 2023	A complaint regarding sand and gravel at South Perimeter Road was received.	A complaint regarding sand and gravel at South Perimeter Road was received on 20 October 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. ET requested the relevant contractors to provide information regarding the complaint and replies indicated the automatic wheel washing facility and provision of water spraying on vehicles wheels were both operating in normal condition. During the ET's site inspections, no sand and gravel issue was recorded. Nevertheless, the relevant contractors deployed water trucks to spray the ground at the concerned area, reminded all drivers to go through the wheel washing arrangement before exiting to public road and provided refresher training on manual wheel washing for their frontline workers. The relevant contractors were reminded to keep review and continuously provide proper wheel washing efforts and implement their enhanced mitigation measures. Hence, the case was considered closed.	Closed
30 October 2023	A complaint regarding dust nuisance from sand barge near Castle Peak Bay was received.	A complaint regarding dust nuisance from sand barge near Castle Peak Bay was received on 30 October 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. ET requested the relevant contractors to provide information regarding the complaint and replies indicated contractors had delivery barges moored at Marine Department's Designated Tuen Mun Immigration Anchorage Area during the period of the complaint in which dust mitigation measures including water spraying were implemented on the barges. ET's checking in the Maritime Surveillance System indicated no barges under 3RS moored near the Castle Peak Bay during the period of the complaint. Having said that, the relevant contractors were reminded to continuously and properly implement dust mitigation measures on their delivery barges. Hence, the case was considered closed.	Closed
21 November 2023	A complaint regarding dust nuisance at South Perimeter Road was received.	Three complaints were received on 21 November 2023 regarding dust nuisance and sand and gravel at South Perimeter Road. Another similar complaint regarding sand and gravel issue at South Perimeter Road was received on 27 November 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. ET requested the relevant contractor to provide information regarding the complaints and replies indicated the manual and automatic wheel washing facilities, and road washing and sweeping arrangements were all enhanced by the contractor. During the ET's inspections, manual and automatic wheel washing, road washing by water trucks and road sweeping by sweeper trucks were observed in operation at the concerned area. Having said that, the relevant contractor was reminded to ensure vehicles are properly washed before leaving works areas and ensure no sand and gravel would be deposited outside works areas. Hence, the case was considered closed.	Closed
21 November 2023	Another complaint regarding dust nuisance at South Perimeter Road was received.		
21 November 2023	A complaint regarding sand and gravel issue at South Perimeter Road was received.		
27 November 2023	A complaint regarding sand and gravel issue at South Perimeter Road was received.		

Date of Complaint Received	Details	Analysis/ Remedial Actions	Status
12 December 2023	A complaint regarding alleged environmental nuisance at Cheong Yip Road was received.	The complaint was under investigation during the reporting period. Findings would be reported in the next Quarterly EM&A Report.	
18 December 2023	A complaint regarding alleged dust nuisance at South Perimeter Road was received.	The complaint was under investigation during the reporting period. Findings would be reported in the next Quarterly EM&A Report.	

3.2.2 Notifications of Summons or Status of Prosecution

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

3.3 Cumulative Statistics

Cumulative statistics on valid exceedance, non-compliance, complaints, notifications of summons and status of prosecutions are summarised in **Table 3.2** and **Table 3.3**.

Table 3.2: Statistics for Valid Exceedances for the Environmental Monitoring

		Total No. Recorded in the Reporting Period	Total No. Recorded since the Project Commenced
1-hr TSP	Action Level	0	0
	Limit Level	0	0
Noise	Action Level	0	0
	Limit Level	0	0
Waste	Action Level	0	1
	Limit Level	0	0
Water	Action Level	0	0
	Limit Level	0	0
CWD	Action Level	0	0
	Limit Level	0	0

Remark: Non-project related triggers of Action or Limit Level are not shown in this table.

Table 3.3: Statistics for Non-compliance, Complaints, Notifications of Summons and Prosecution

Reporting Period	Cumulative Statistics			
	Non-compliance	Complaints	Notifications of Summons	Prosecutions
This reporting period	0	11	0	0
From 28 December 2015 to end of the reporting period	0	70	2	2

4 Conclusion and Recommendation

In the fourth quarter of 2023, the EM&A programme has been implemented as planned, including 96 sets of air quality measurements, 50 sets of construction noise measurements, 12 sets of water quality measurements, 12 sets of post-construction phase water quality measurements, 6 complete sets of vessel line transect surveys and 6 days of land-based theodolite tracking survey effort for CWD monitoring, as well as environmental site inspections and waste monitoring for the Project's construction works.

The key activities of the Project carried out in the reporting period are located in reclamation area and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for APM and BHS and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works and 132kV cable laying work.

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

With the completion of 3RS land formation works in the first quarter of 2023, the impact water quality monitoring was terminated after 31 October 2023. The impact water quality monitoring results for all parameters, except suspended solids (SS), obtained for October 2023 were within the corresponding Action and Limit Levels stipulated in the EM&A programme. For SS, one testing result triggered the relevant Action Level, an investigation was conducted accordingly. The investigation findings concluded that the case was not related to the Project. To conclude, the construction activities during the reporting period did not introduce adverse impact to all water quality sensitive receivers.

Four weeks of post-construction phase water quality monitoring exercise was conducted from 14 November 2023 to 9 December 2023, in the same manner as the impact monitoring at all monitoring stations during the construction phase. The comparison between the baseline, construction phase and post-construction phase monitoring results will be presented in Annual EM&A report for 2023 and Final EM&A report.

Although the 3RS land formation works were completed in the first quarter of 2023, the construction phase CWD monitoring was continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD abundance on an annual basis. 12 months of the post-construction phase CWD monitoring would be commenced in January 2024.

Site inspections of the construction works to audit the implementation of proper environmental pollution control and mitigation measures for the Project were conducted by ET and IEC on a weekly and bi-weekly basis, respectively. Site inspection findings were recorded in the site inspection checklists and provided to the contractors to follow up.

In total of 76 HSF movements under the SkyPier Plan were audited in the reporting period. All HSFs were travelled through the SCZ with average speed under 15 knots, used diverted route and entered / left SCZ through gate access points in compliance with the SkyPier Plan. In summary, the ET and IEC audited the HSF movements against the SkyPier Plan and conducted follow up investigations or actions accordingly.

During the reporting period, ET conducted bi-weekly audit of the MSS to ensure the system recorded all deviation cases accurately and the contractors fully complied with the requirements of the MTRMP-CAV.

On the implementation of DEZ Plan, dolphin observers were deployed by the contractor in accordance with the plan. No dolphin or other marine mammals were observed within or around the DEZ in this reporting period. Audits of contractor's implementation and records were carried out by the ET during site inspection.

In accordance with Condition 2.6 of EP, AAHK has assisted AFCD in taking forward the statutory procedures for the designation of the NLMP. A gazette notice regarding the approved map was published by the Government on 29 September 2023 with a Draft Designation Order and a relevant Executive Council paper now under preparation. The designation date (i.e. effective date of the NLMP) shall tie in with the commissioning of the 3RS.

The recommended environmental mitigation measures, as included in the EM&A programme, were effectively implemented during the reporting period. Also, the EM&A programme implemented by the ET has effectively monitored the construction activities and ensured the proper implementation of mitigation measures.

Figures

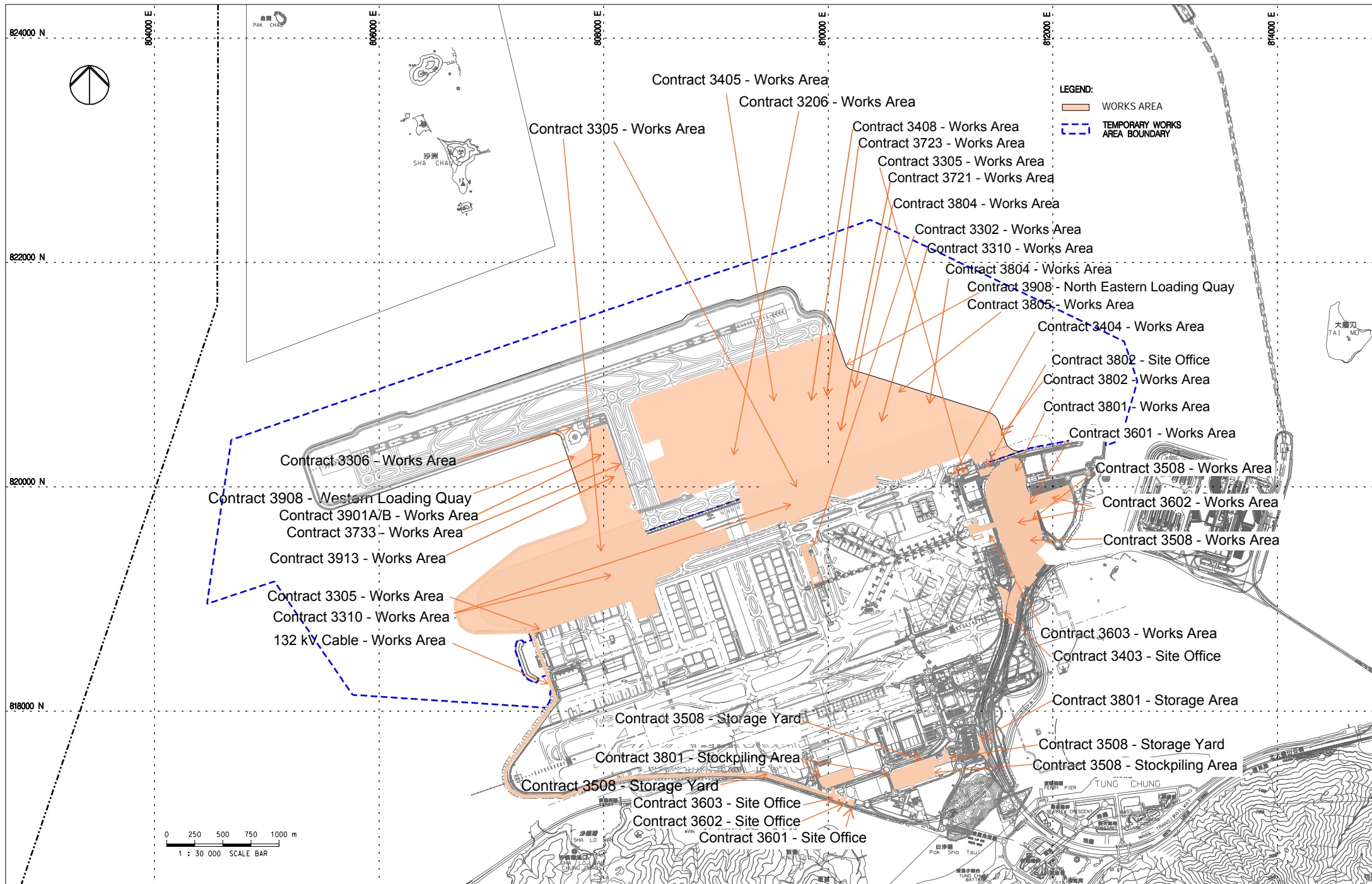
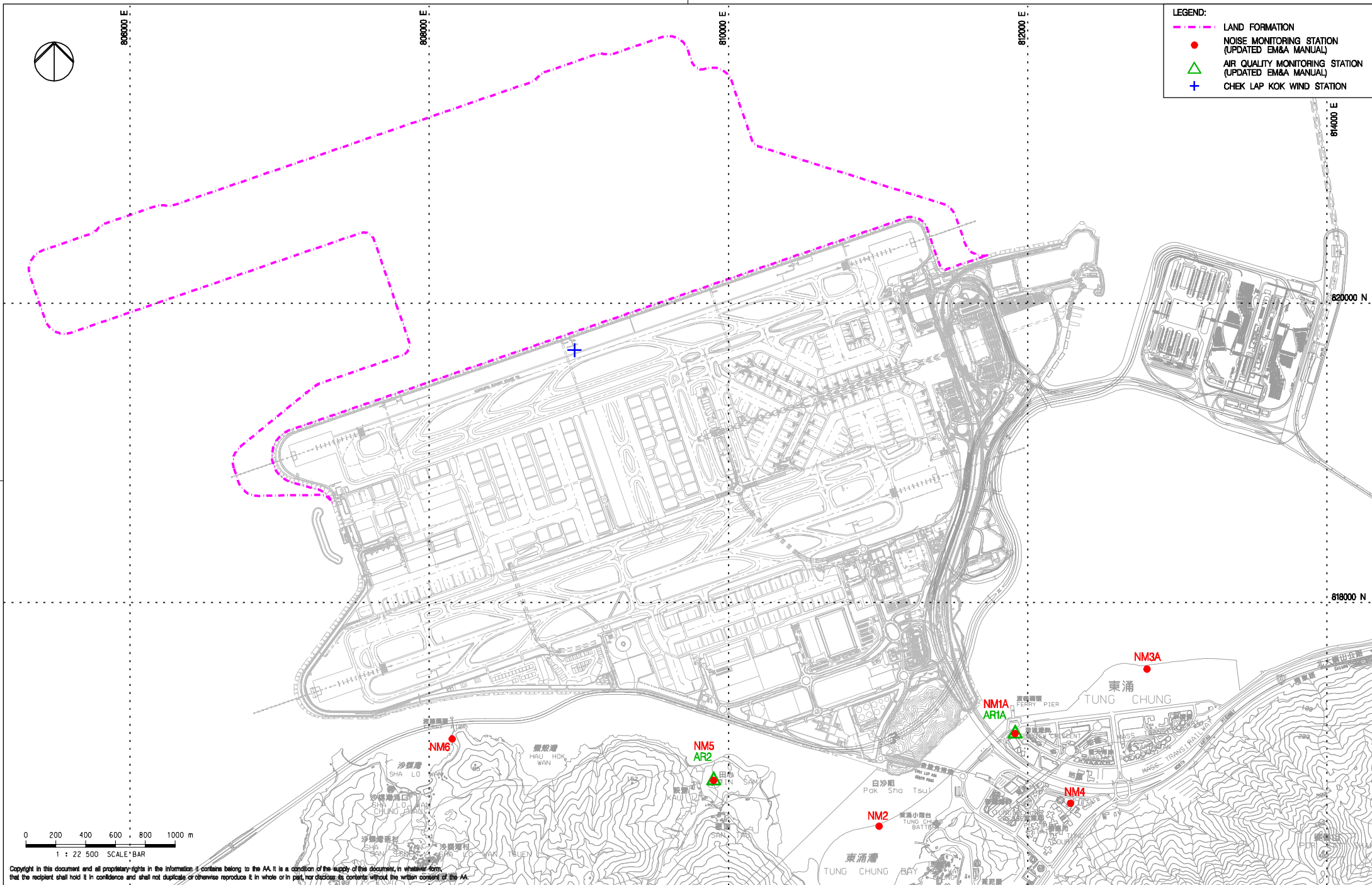



FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

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



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



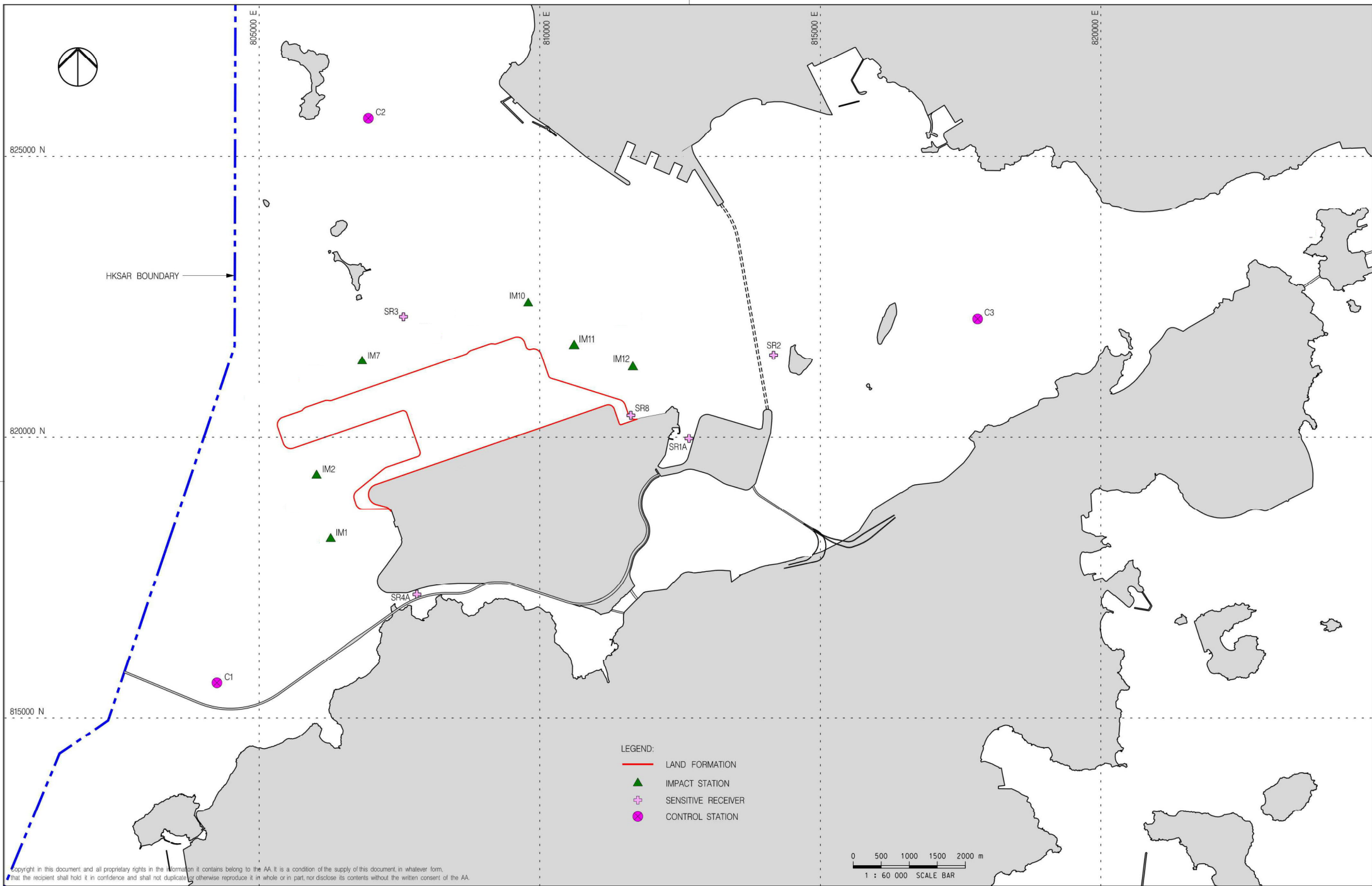
HONG KONG
INTERNATIONAL
AIRPORT
Airport Authority 香港國際機場管理局
1994-2018



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

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

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM		Scale at A3
Drawing No.	FIGURE 2.1	1:22500
Rev.	D	



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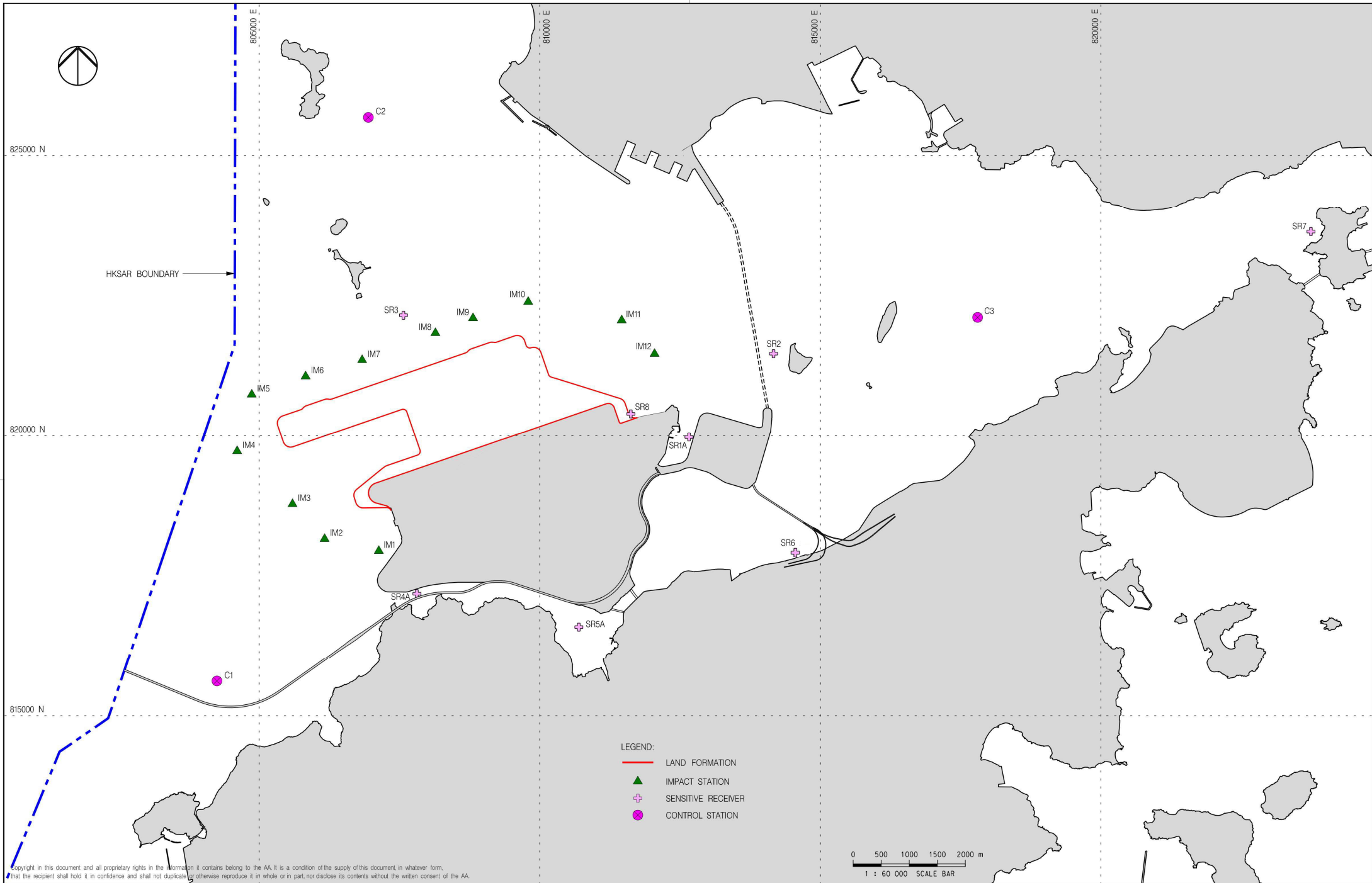
Rev.	Date	Description	Checked
A	21AUG19	FIRST ISSUE	VL



Title
WATER QUALITY MONITORING STATIONS

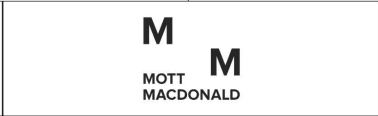
Consultant's Signatures for Approval		Date
Design	DC	21AUG19
Checkers	DC / TK	21AUG19
Approver	EC	21AUG19

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	Scale at A3
FIGURE 2.2	1 : 60000
Rev.	A



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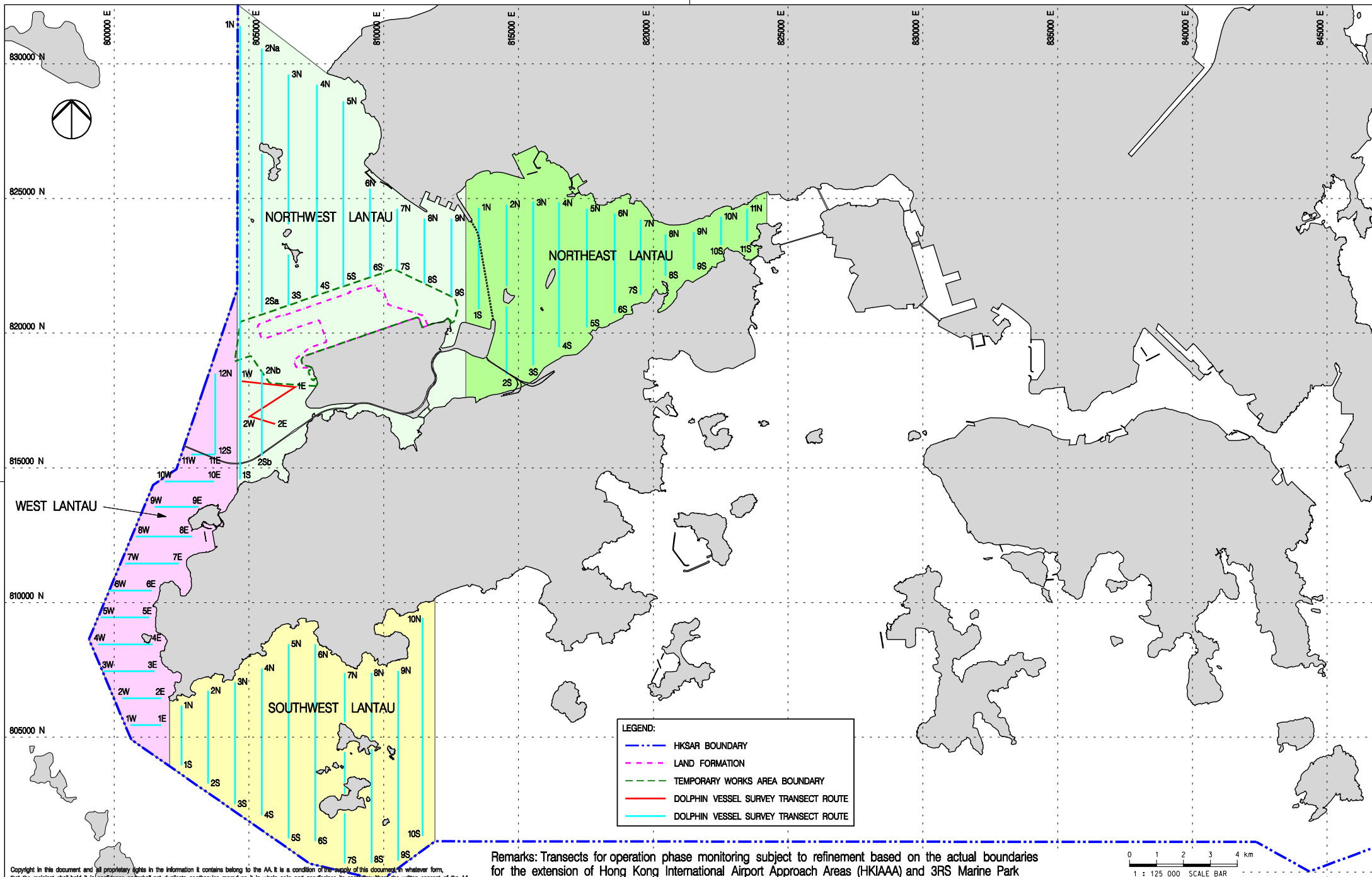
Rev.	Date	Description	Checked
A	21AUG19	FIRST ISSUE	VL



Title	
POST-CONSTRUCTION PHASE WATER QUALITY MONITORING STATIONS	

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Approver	EC	21AUG19

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	
FIGURE 2.2a	
Scale at A3 1 : 60000	Rev. A



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

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

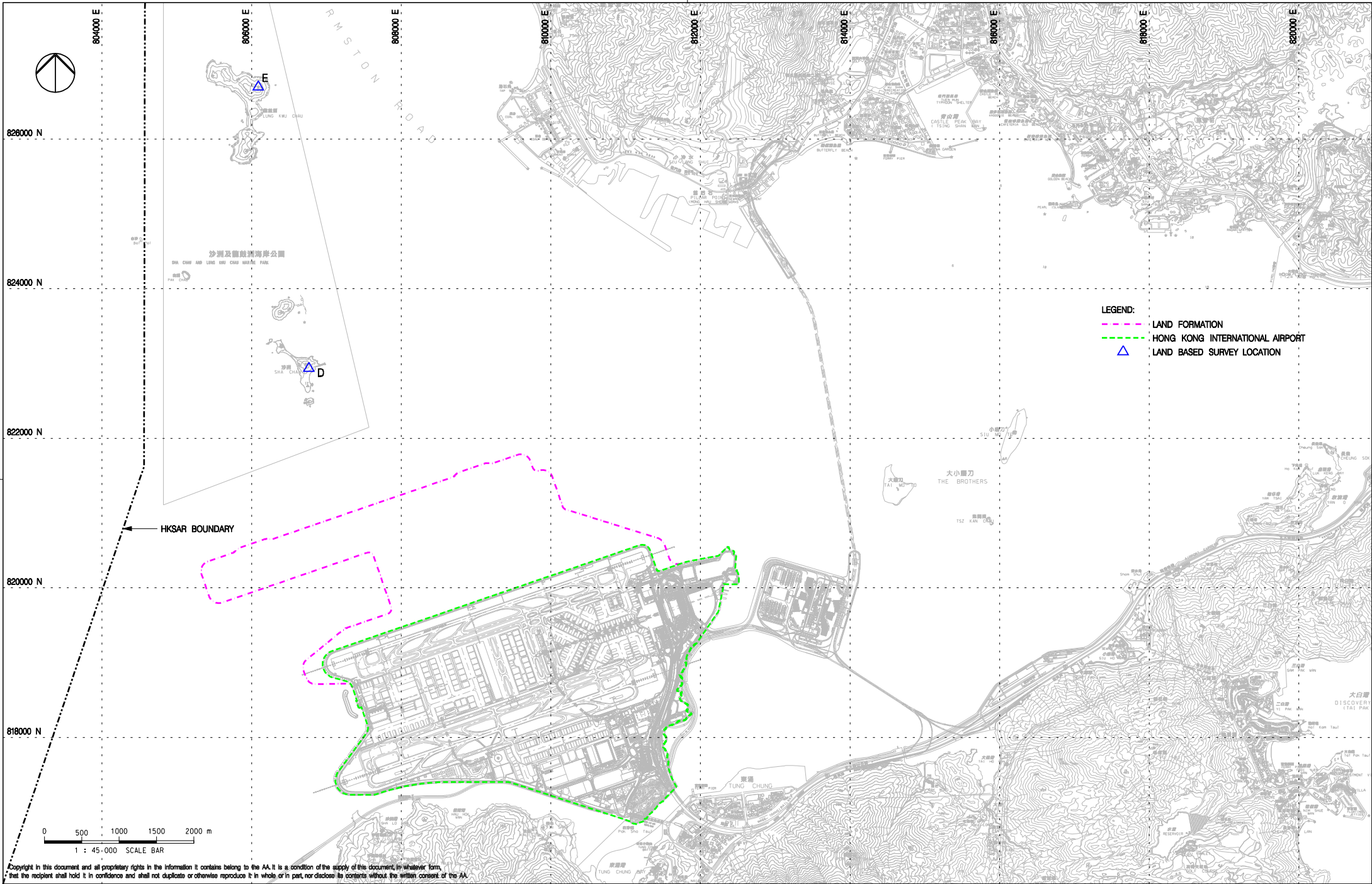
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C	06FEB17	GENERAL REVISION	JT
D	01MAR17	GENERAL REVISION	JT
E	29OCT18	GENERAL REVISION	SH
F	04APR19	GENERAL REVISION	SH



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

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

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	Scale at A3 1 : 125000
FIGURE 2.3	Rev. F



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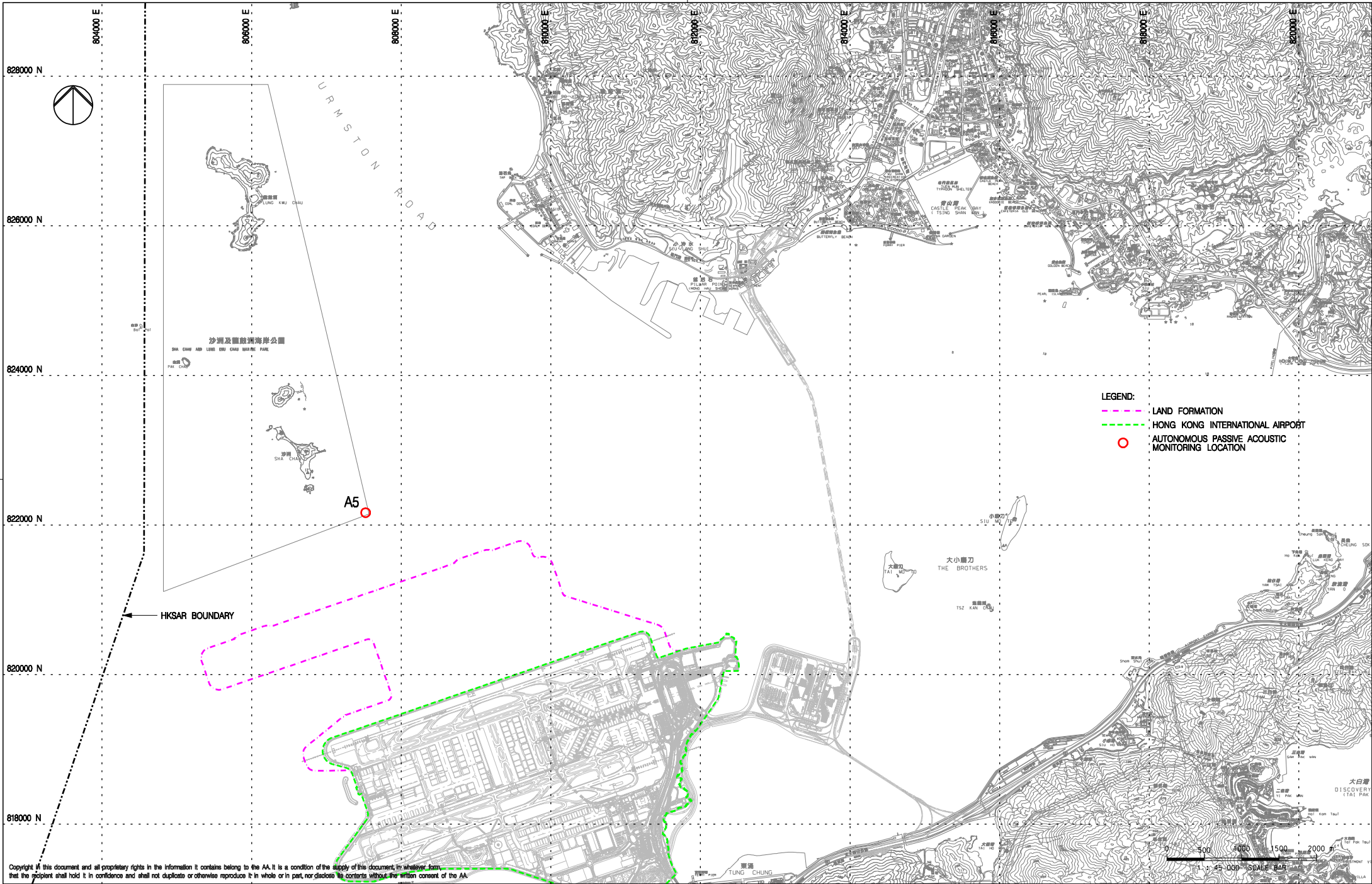
Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	JC
B	06FEB17	GENERAL REVISION	JC
C	29OCT18	GENERAL REVISION	SH



LAND BASED DOLPHIN MONITORING
IN BASELINE AND CONSTRUCTION PHASES

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Approver	EC	29OCT18

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
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FIGURE 2.4	
Rev.	C



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A	29AUG17	FIRST ISSUE	JT
B	10OCT17	GENERAL REVISION	PL
C	29OCT18	GENERAL REVISION	SH

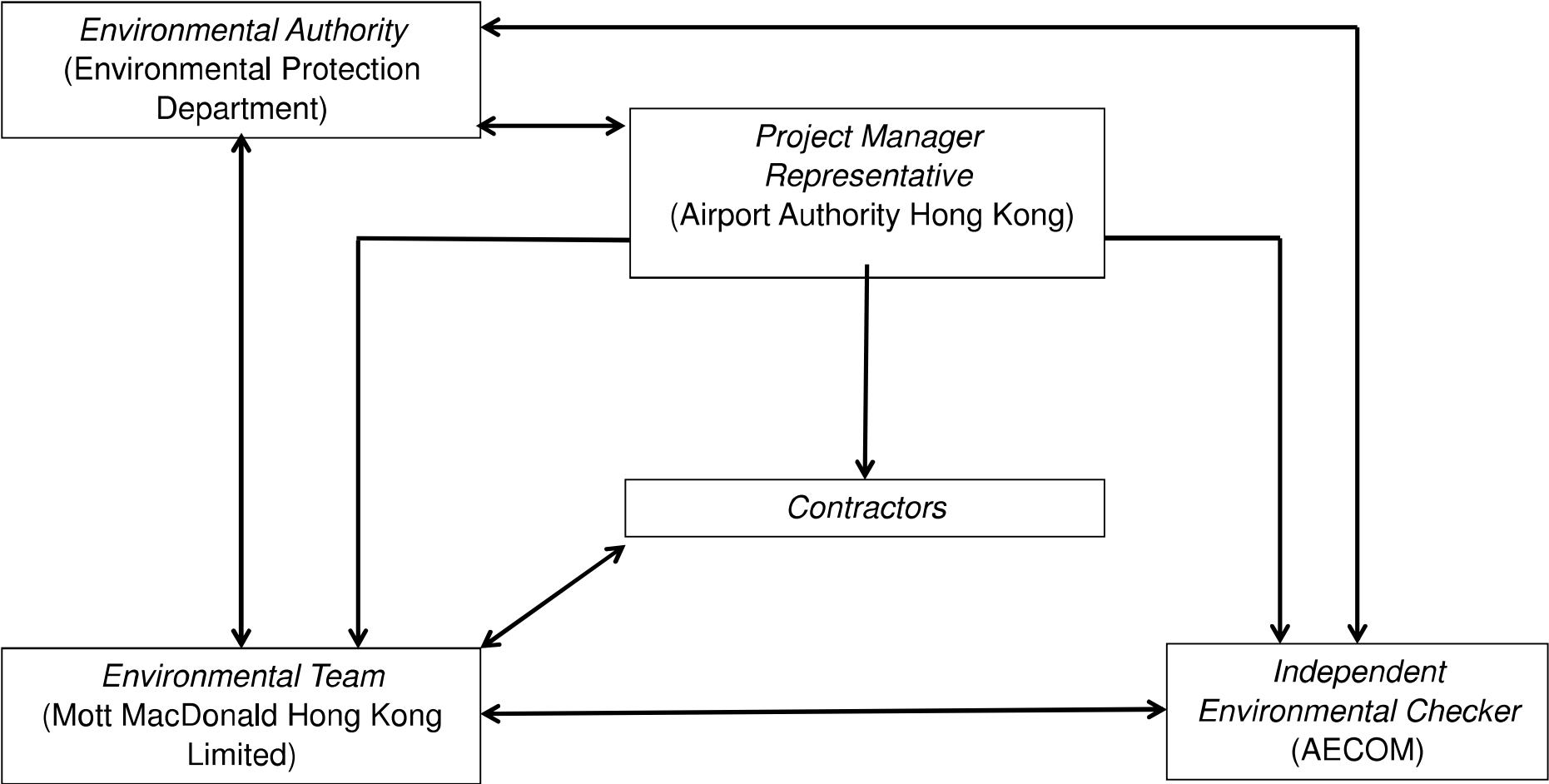


LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

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Checkers	JC / TK	29OCT18
Approver	EC	29OCT18

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	Scale at A3
FIGURE 2.10	1:45000
Rev.	C

Appendix A. Project Organization Chart



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

Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
Air Quality Impact – Construction Phase					
5.2.6.2	2.1	-	Dust Control Measures <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	-	<p>Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include:</p> <p>Good Site Management</p> <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
			<p>Disturbed Parts of the Roads</p> <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
			<p>Exposed Earth</p> <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	Within construction site / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<p>Loading, Unloading or Transfer of Dusty Materials</p> <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
			<p>Debris Handling</p> <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
			<p>Transport of Dusty Materials</p> <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
			<p>Wheel washing</p> <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
			<p>Use of vehicles</p> <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
			<p>Site hoarding</p> <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	-	<p>Best Practices for Concrete Batching Plant</p> <p>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:</p> <p>Cement and other dusty materials</p>	Within Concrete Batching Plant / 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?^
			<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, stockpiles and material discharge points; All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance; All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used; 	Within Concrete Batching Plant / Duration of the construction phase	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"> 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	I
			<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	I
			<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	I
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	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"> 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>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; 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 	<p>Within Concrete Batching Plant / Duration of the construction phase</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"> 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	I
			<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 The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles. 	Within Concrete Batching Plant / Duration of the construction phase	I
			<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	I
			<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	I
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> <p>Crushers</p>	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage

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 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. 	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage
			<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 <p>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	N/A as there was no rock crushing plant at this stage
			<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. 	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage

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 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; and Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly. 		
			<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 as there was no rock crushing plant at this stage
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	I
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; 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. 	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?^
7.5.6	4.3	-	Adoption of QPME <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	-	Use of Movable Noise Barriers <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	-	Use of Noise Enclosure/ Acoustic Shed <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					
8.8.1.2 and 8.8.1.3	5.1	2.26	Marine Construction Activities <u>General Measures to be Applied to All Works Areas</u> <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 seabed 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 wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted. 	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?^
			<u>Specific Measures to be Applied to All Works Areas</u> <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	C – Marine filling works completed in March 2023
			<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; 		C – Completed in May 2018
			<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 		C – Marine filling works completed in March 2023 (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 – For C7a and localised silt curtains (All enhanced silt curtain removed since March 2023)
			<u>Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works</u> <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; 	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			<ul style="list-style-type: none"> 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 		I – For C7a
					C – Completed in Dec 2021 for C8

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 silt curtains and silt screens should be regularly checked and maintained. 		<p>*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)</p> <p>I – For C7a and localised silt curtains (All enhanced silt curtain removed since March 2023)</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; 	Within construction site / Duration of the construction phase	<p>C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities; 		<p>C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> 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>I – For C7a</p> <p>C – Completed in Dec 2021 for C8 (The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)</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 silt curtains and silt screens should be regularly checked and maintained. 		I – For C7a and localised silt curtains (All enhanced silt curtain removed since March 2023)
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion <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 at Sea Ordinance (DASO) permit conditions; and Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure. 	Within construction site / Duration of the construction phase	N/A – the field joint excavation works for the submarine cable diversion will no longer be conducted anymore
8.8.1.4	5.1	-	Modification of the Existing Seawall <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 – the seawall modification works undertaken after land formation.
8.8.1.5	5.1	-	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls <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	I
8.8.1.6 8.8.1.7	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.	Within construction site / Duration of the construction phase	C – For approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<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. 		C – Completed in Oct 2021
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 sandbag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform); Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction; 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; 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; 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 	Within construction site / Duration of the construction phase	<p>I</p> <p>I</p> <p>I</p> <p>I</p> <p>I</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 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
			<ul style="list-style-type: none"> Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system; 		I
			<ul style="list-style-type: none"> Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and 		I
			<ul style="list-style-type: none"> Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events. 		I
8.8.1.9	5.1	-	Sewage Effluent from Construction Workforce <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		General Construction Activities <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 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. 	Within construction site / During construction phase	I
8.8.1.12 8.8.1.13	5.1	2.28	Drilling Activities for the Submarine Aviation Fuel Pipelines <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 	Within construction site / During construction phase	C – Completed in Jan 2019

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"> 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. 		
			<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	C – Completed in Jan 2019
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 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 HKIAAAA 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. 	Project Site Area / During design and construction phase	I
					I
					I
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					I
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; 	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"> 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. 		
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; 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. 	Project Site Area / Construction Phase	I
10.5.1.5	7.1		Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.	Project Site Area / Construction Phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.5	7.1	-	Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	-	A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices.	Construction Phase	I
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments:	Project Site Area / Construction Phase	I
			▪ On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;		I
			▪ The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions;		I
			▪ All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission;		I
			▪ Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;		I
			▪ Treated and untreated sediment should be clearly separated and stored separately; and		I
10.5.1.18	7.1	-	▪ 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	I
			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 followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:		N/A – the field joint excavation works for the submarine cable diversion will no longer be conducted anymore
			▪ 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		
10.5.1.19	7.1	-	▪ 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.	Project Site Area / Construction Phase	I
			Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:		
			▪ Good quality containers compatible with the chemical wastes should be used;		
			▪ Incompatible chemicals should be stored separately;		

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"> 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. 		
10.5.1.20	7.1	-	General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	I
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. 		C – Completed in Jan 2018
			<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. 		I *(CAR for golf course and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			<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 as no remediation was required.
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):	Project Site Area / Construction Phase	N/A as no contaminated soil was found.

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"> ▪ 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. 		
Terrestrial Ecological – Construction Phase					
12.10.1.1	9.2	2.14	Pre-construction Egretty Survey <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	C – Completed in Jan 2019
12.7.2.3 and 12.7.2.6	9.1	2.30	Avoidance and Minimisation of Direct Impact to Egretty <ul style="list-style-type: none"> ▪ The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretty. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretty; ▪ 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	C – Completed in Jan 2019

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
12.7.2.5	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	C – Completed in Jan 2019
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	C – Completed in Jan 2019
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	C – Completed in Jan 2019
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	C – Completed in Jan 2016
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	I
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; 	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			<ul style="list-style-type: none"> Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment; 		I
			<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; 		C – Completed in Oct 2021 for new approach lights
			<ul style="list-style-type: none"> Avoid bored piling during CWD peak calving season (Mar to Jun); 		N/A for marker beacons as

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"> Prohibition of underwater percussive piling; and 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. 		HKIAAAA Marker Beacons would be replaced by buoys I C – Completed in Jan 2019 for HDD works
13.11.2.1 to 13.11.2.7	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality <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 the CWDs and other marine ecological resources. 	All works area during the construction phase	I I C – Completed in Oct 2021 for new approach lights C – Completed in Jan 2019 for HDD works
13.11.1.12	-	-	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
13.11.1.13	-	-	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 Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
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	I
13.11.5.4 to 13.11.5.13	10.3.1	-	SkyPier High Speed Ferries' Speed Restrictions and Route Diversions <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. 	Area between the footprint and SCLKC Marine Park during construction phase	I
			Other mitigation measures <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. 	Area between the footprint and SCLKC Marine Park during construction phase	I C – Completed in Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1	2.31	Dolphin Exclusion Zone <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; 	Marine waters around land formation works area during construction phase	I
			<ul style="list-style-type: none"> 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. 		I C – Completed in Oct 2021 for the bored piling work of New approach lights
13.11.5.19	10.4	2.31	Acoustic Decoupling of Construction Equipment <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	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.5.20	10.6.1	2.29	Spill Response Plan <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	I
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 (as currently indicated by the 1x1km grid squares in Figure 6 of Appendix 13.2 of EIA report). 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; 	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			<ul style="list-style-type: none"> Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment; 		I
			<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; and 		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys

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 horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 		C – Completed in Jan 2019 for HDD works
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 Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	I
14.9.1.13 to 14.9.1.18	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality <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	I C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAAA Marker Beacons would be replaced by buoys C – Completed on Jan 2019 for HDD work
Landscape and Visual 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?^
Table 15.6	12.3	-	CM1 - The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases.	I
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.	I
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. –	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				may be disassembled in phases.	
Table 15.6	12.3	-	CM8 - All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.	All existing trees to be retained; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM9 - Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM10 - Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works; Upon handover and completion of works.	I
Cultural Heritage Impact – Construction Phase					
Not applicable to the construction stage of this project.					
Health Impact – Aircraft Emissions					
Not applicable to the construction stage of this project.					
Health Impact – Aircraft Noise					
Not applicable to the construction stage of this project.					

Notes:

“ - ” For items denoted as “ - ” provided under the columns of EM&A Ref. or EP Condition, environmental protection measures should be referred to the relevant paragraph(s) / table(s) in the approved EIA Report.

“ I ” Implemented and on-going where applicable.

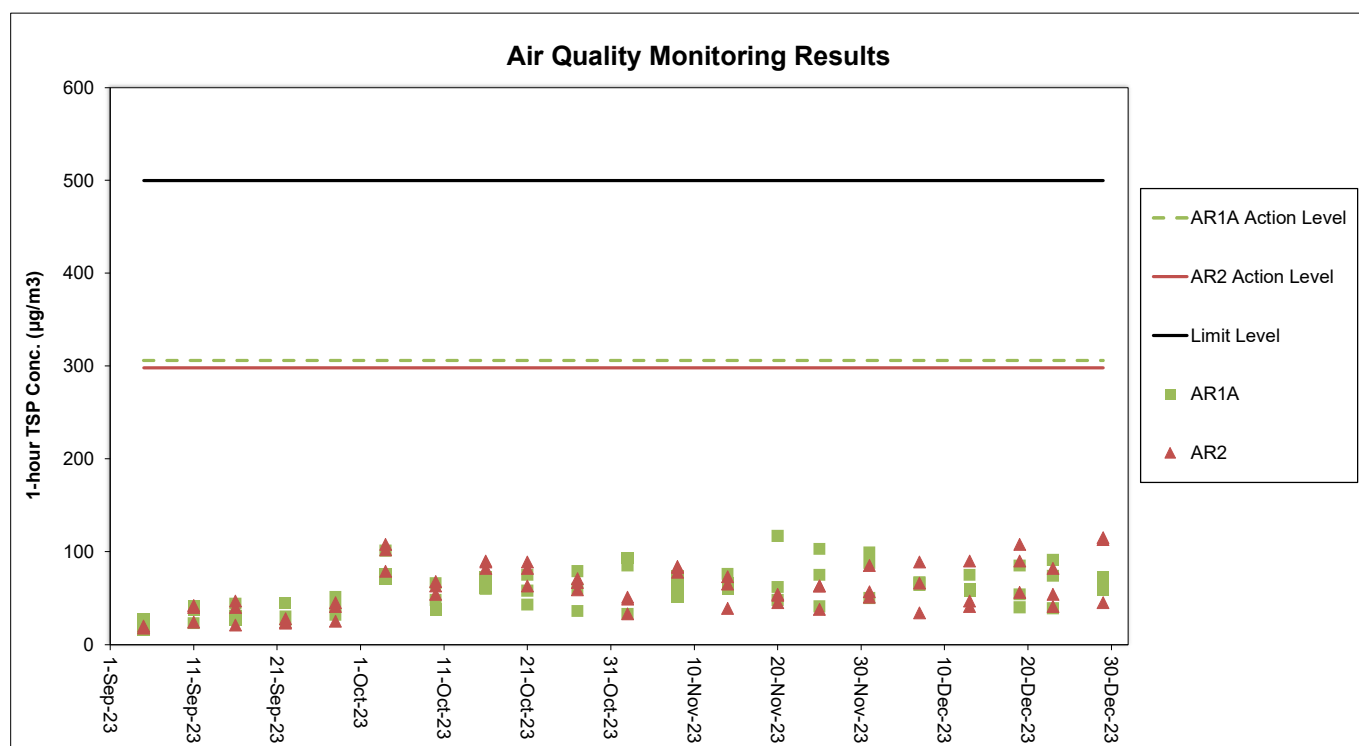
“ N/A ” Not applicable to the construction works implemented during the reporting month.

“ ^ ” Checked by ET through site inspection and record provided by the Contractor.

“ C ” Construction works completed.

Appendix C. Monitoring Results

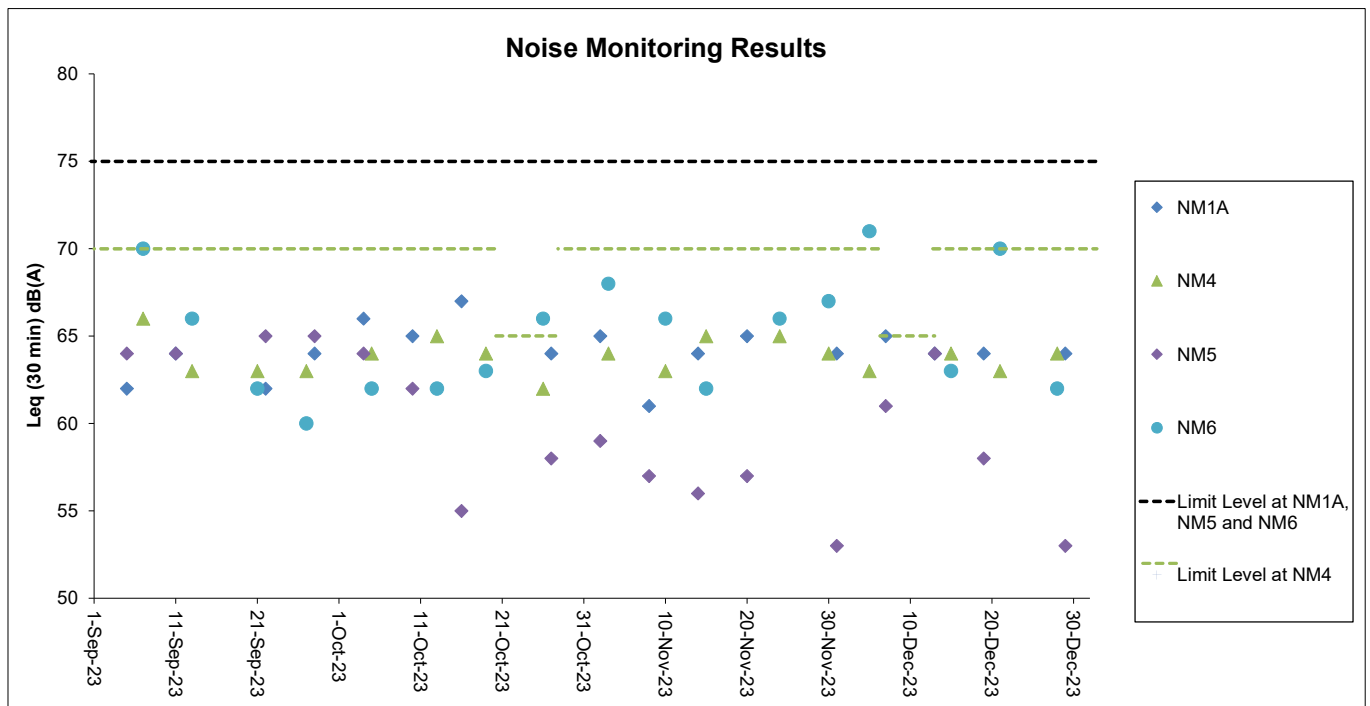
Air Quality Monitoring Results



Notes:

1. The key activities of the Project carried out in the reporting period included reclamation areas and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works and 132kV cable laying works.
2. General weather condition during monitoring ranged from sunny to rainy. Detailed meteorological conditions can be referred to Table 2.3 of this Report and corresponding Monthly EM&A Reports.
3. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

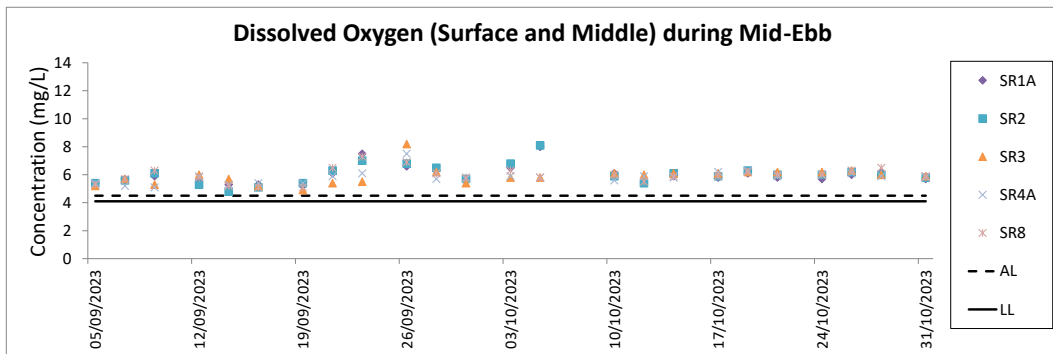
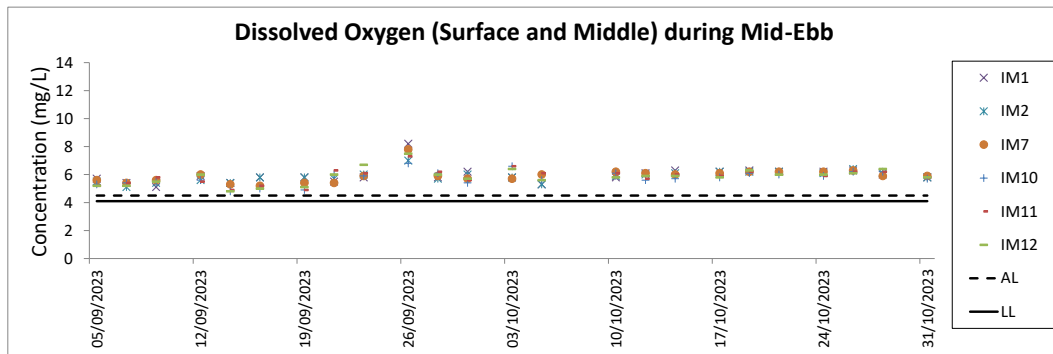
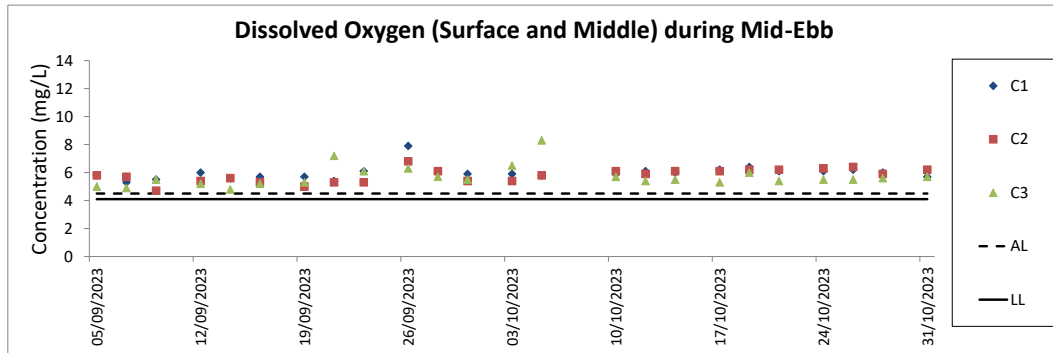
Noise Monitoring Results



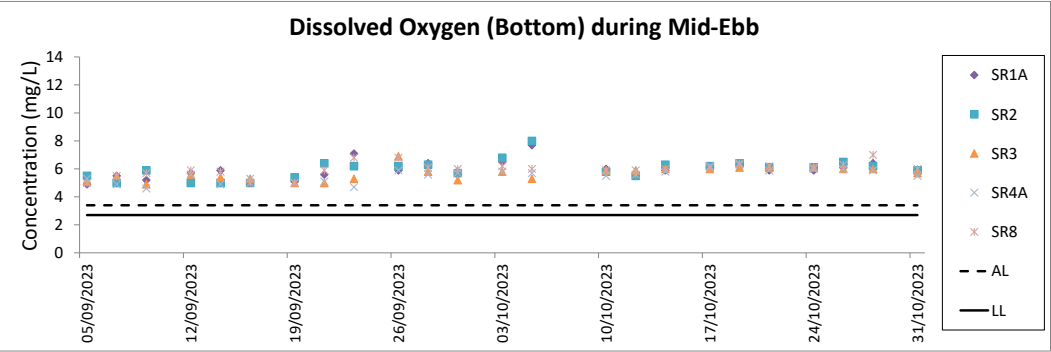
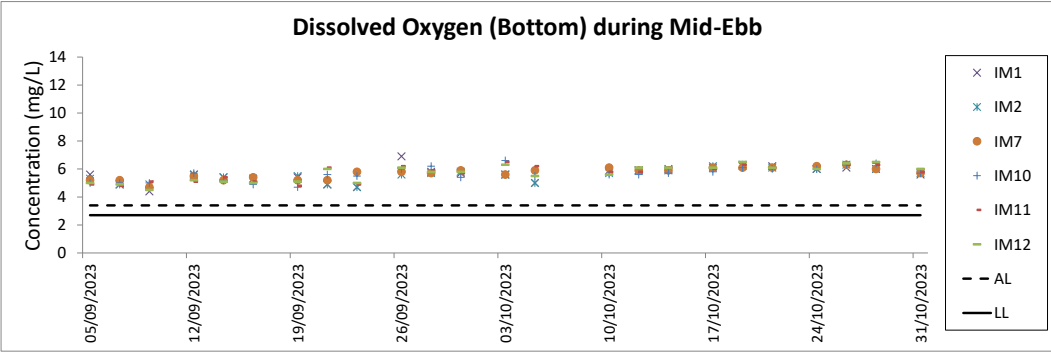
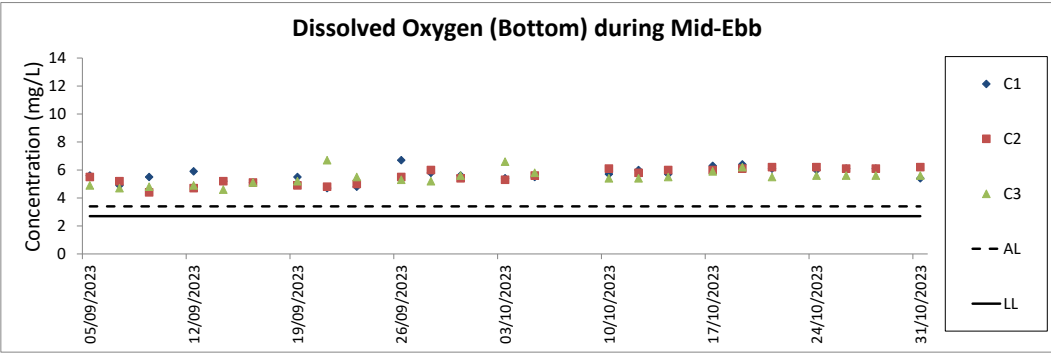
Notes:

1. The Limit Level is reduced to 70dB(A) for school and 65dB(A) during school examination period at NM4. School examination took place from 20 to 27 October and 6 to 13 December during this reporting period.
2. The key activities of the Project carried out in the reporting period included reclamation areas and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works and 132kV cable laying works.
3. General weather condition during monitoring ranged from sunny to rainy. Detailed meteorological conditions can be referred to Table 2.6 of this Report and corresponding Monthly EM&A Reports.
4. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

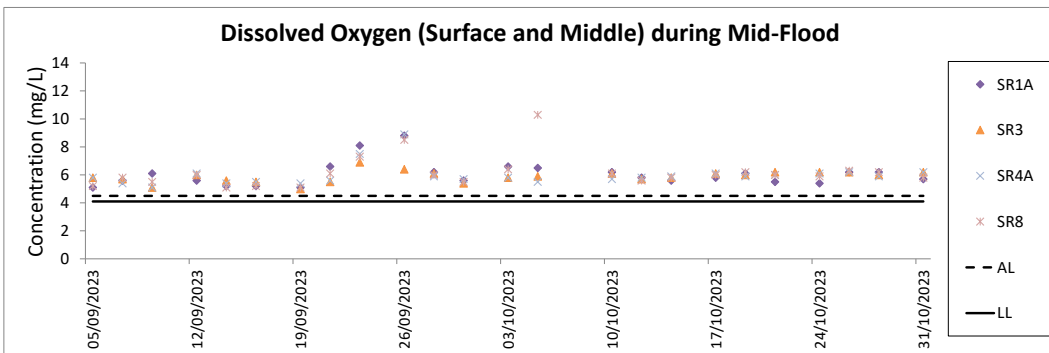
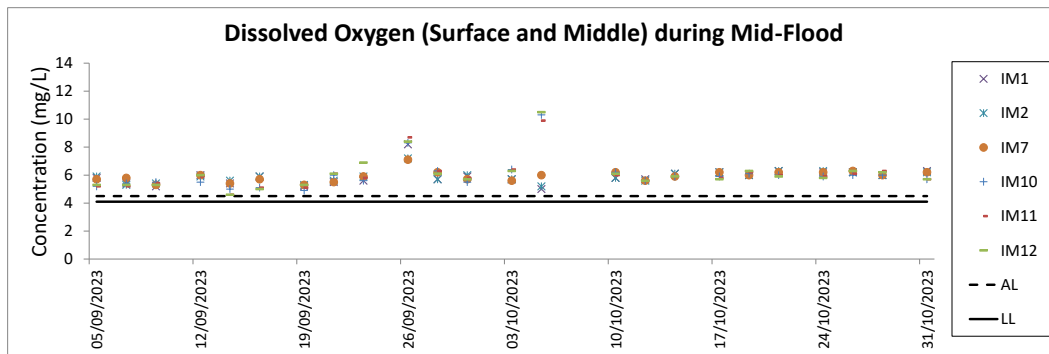
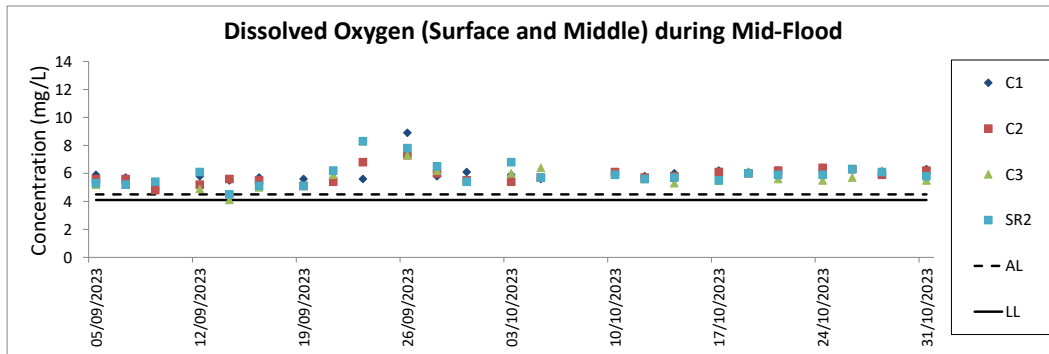
Water Quality Monitoring Results



- Notes:
1. The key activities of the Project during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.
 2. General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table 2.11 of this Report and corresponding Monthly EM&A Reports.
 3. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.
 4. The monitoring sessions on 7 October 2023 were cancelled due to Strong Wind Signal No. 3 in force.

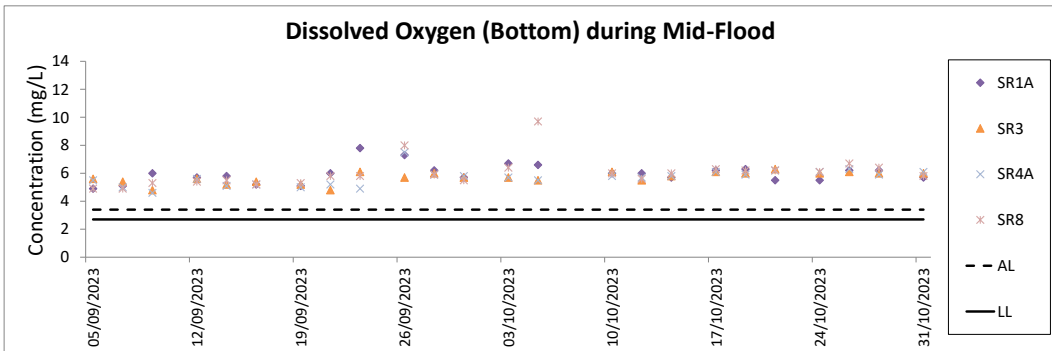
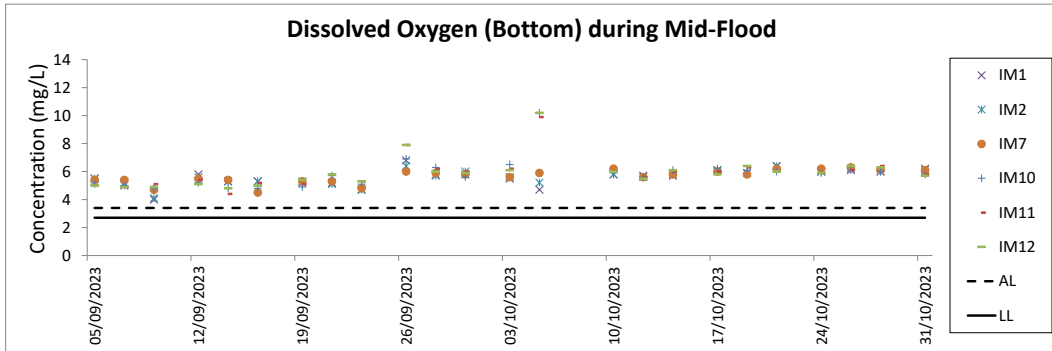
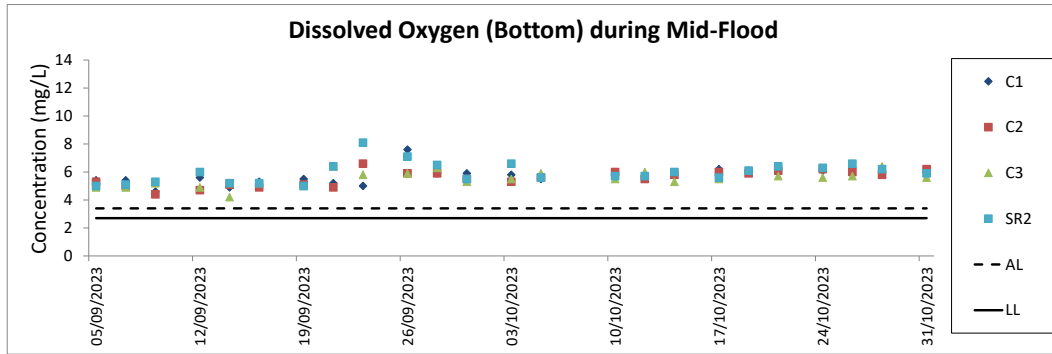


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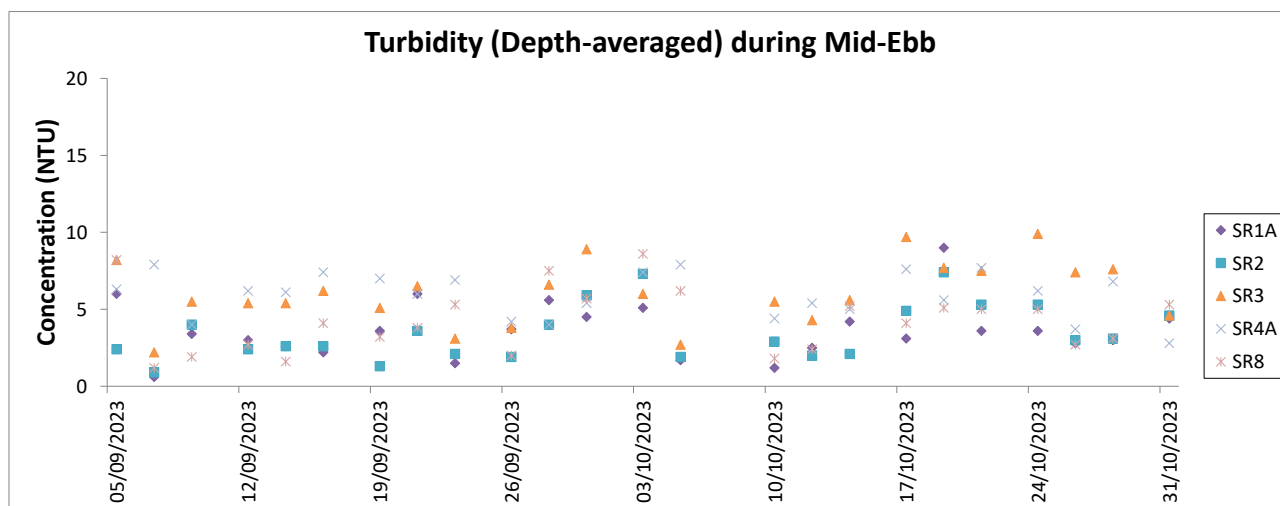
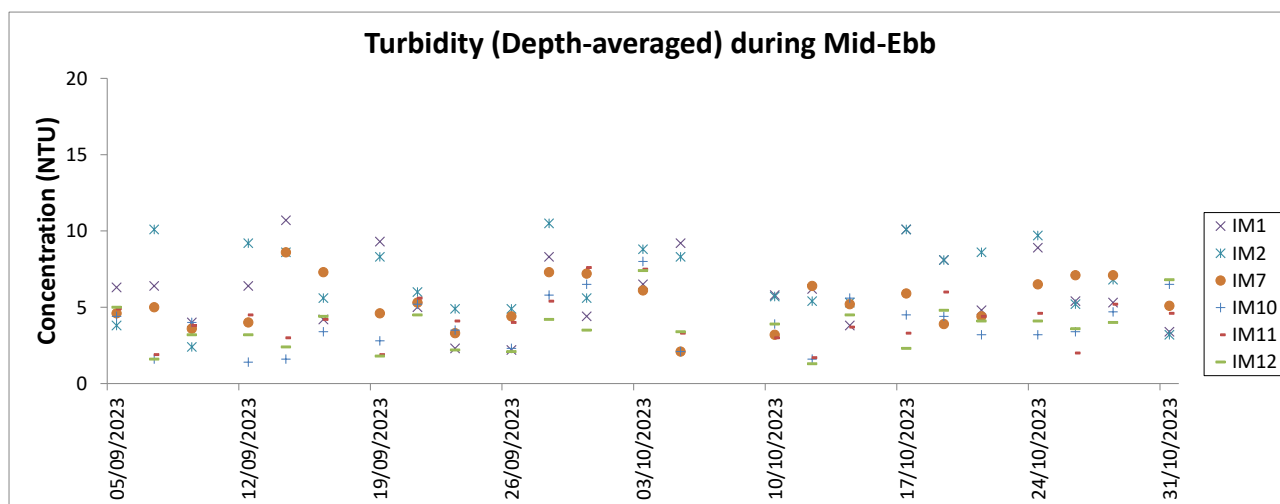
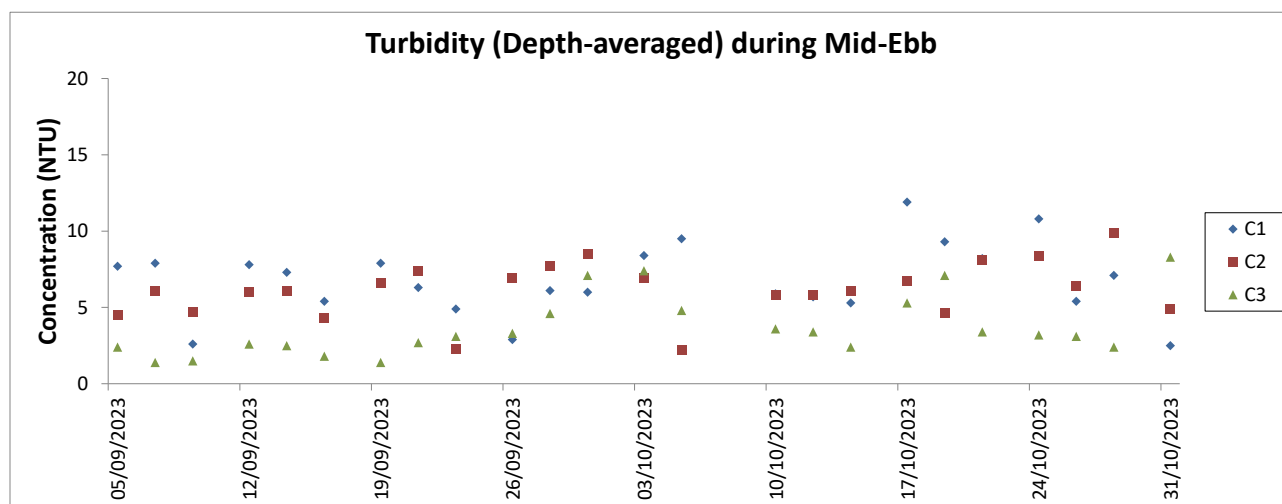
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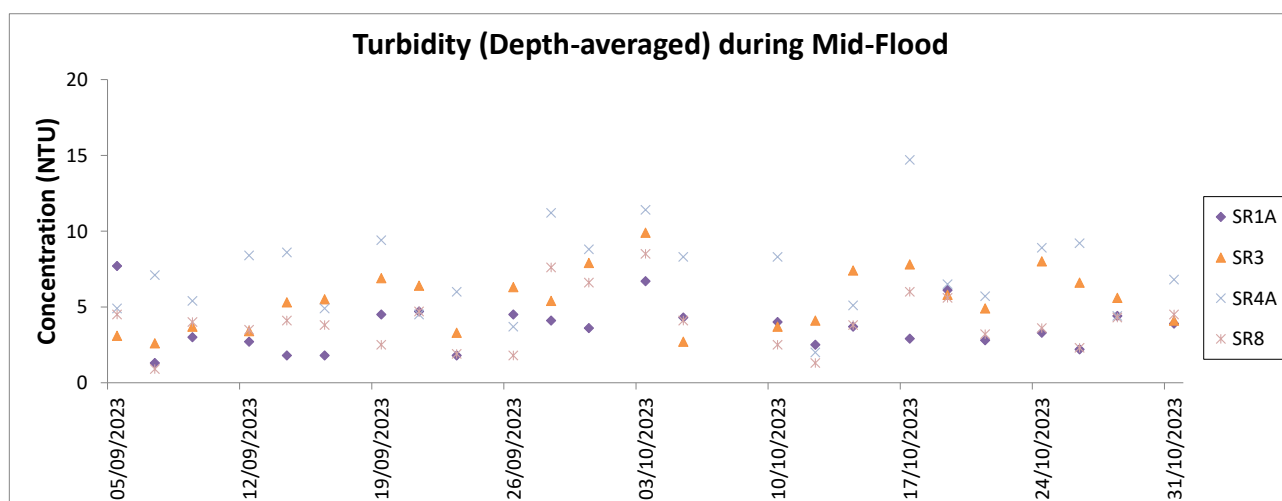
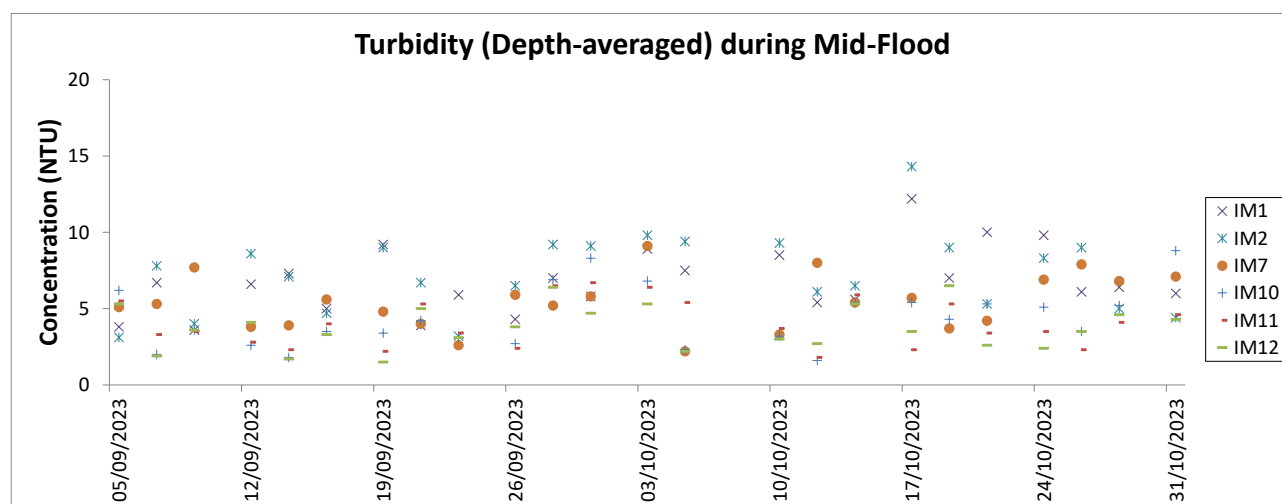
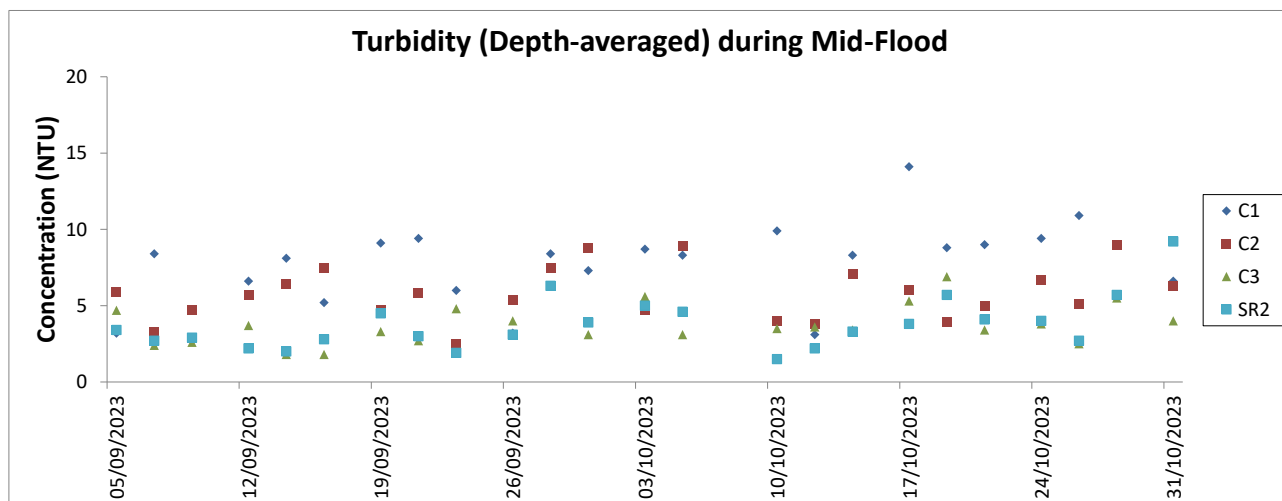
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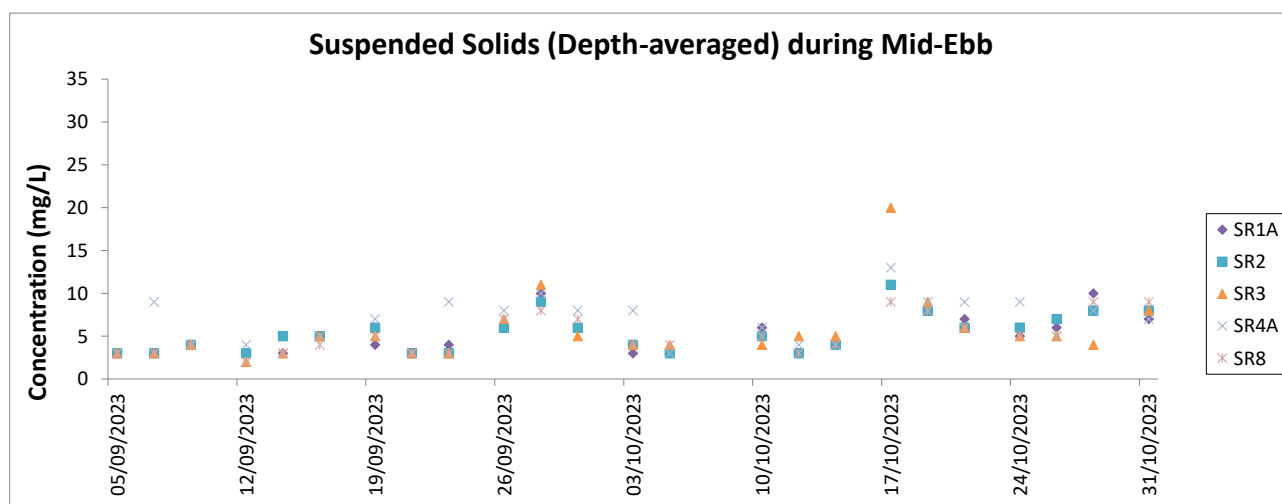
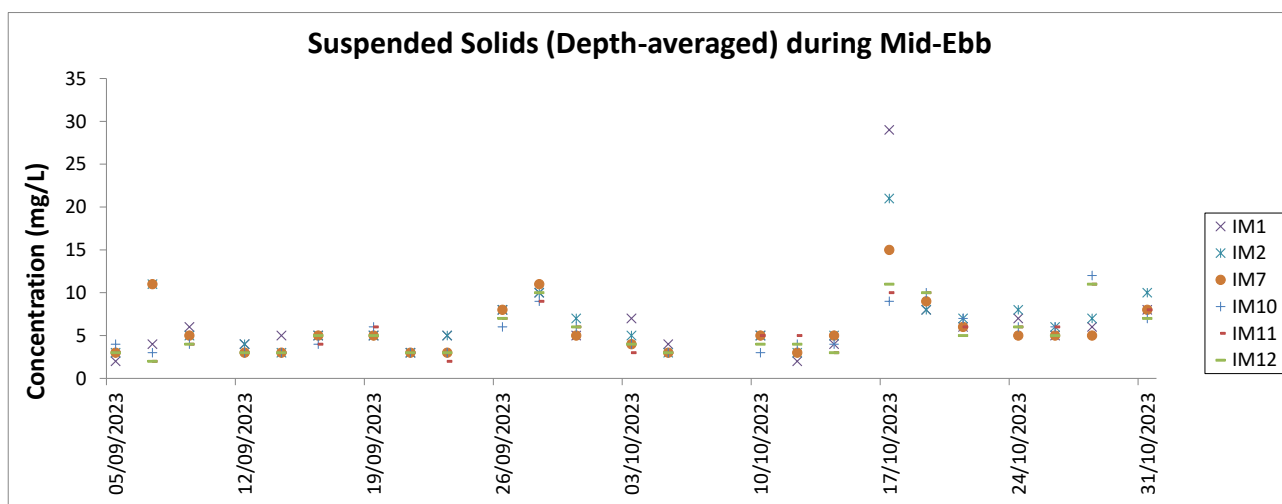
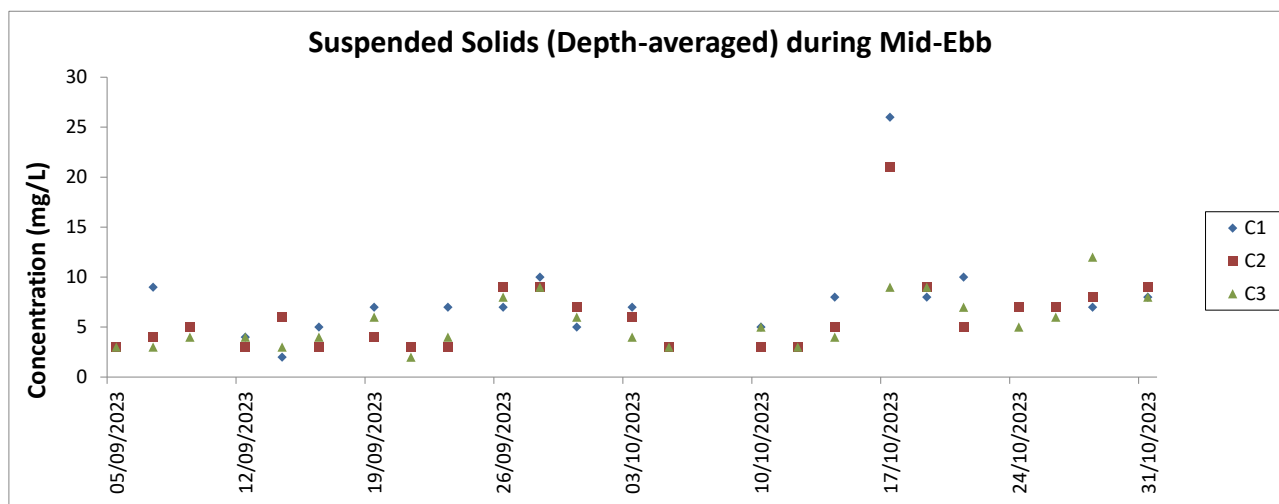
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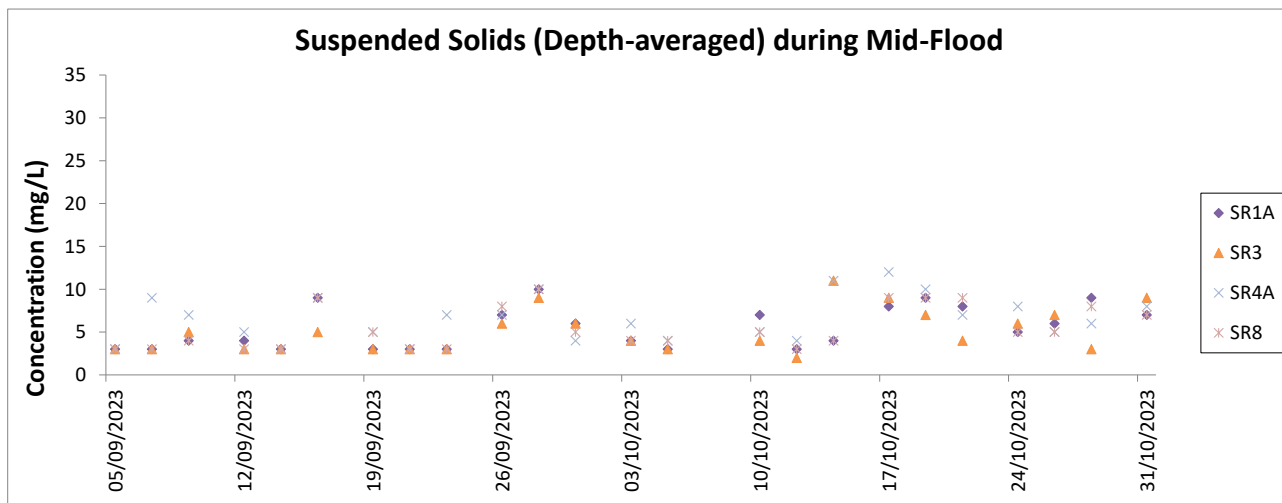
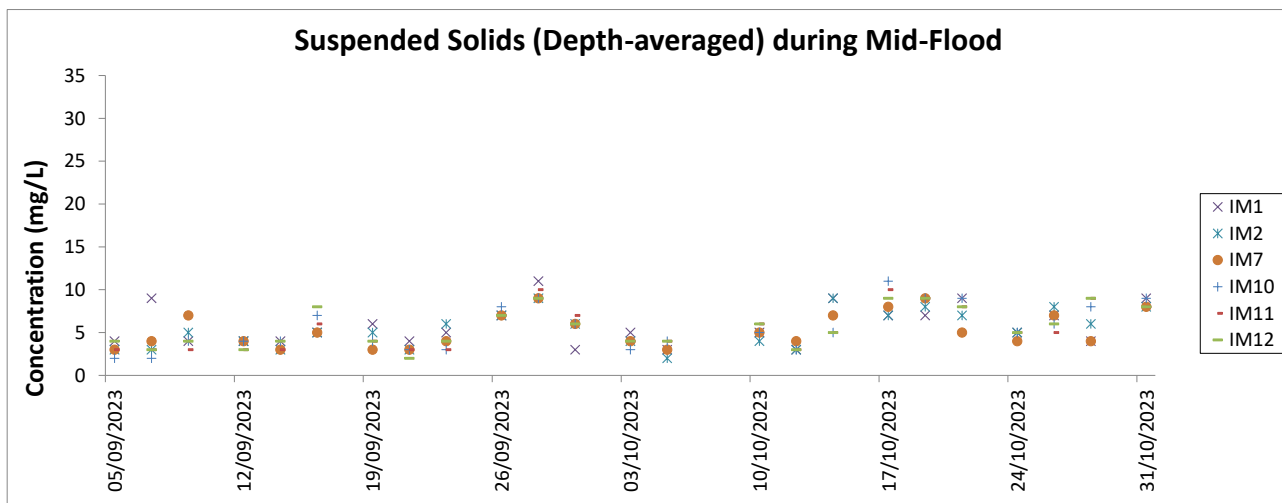
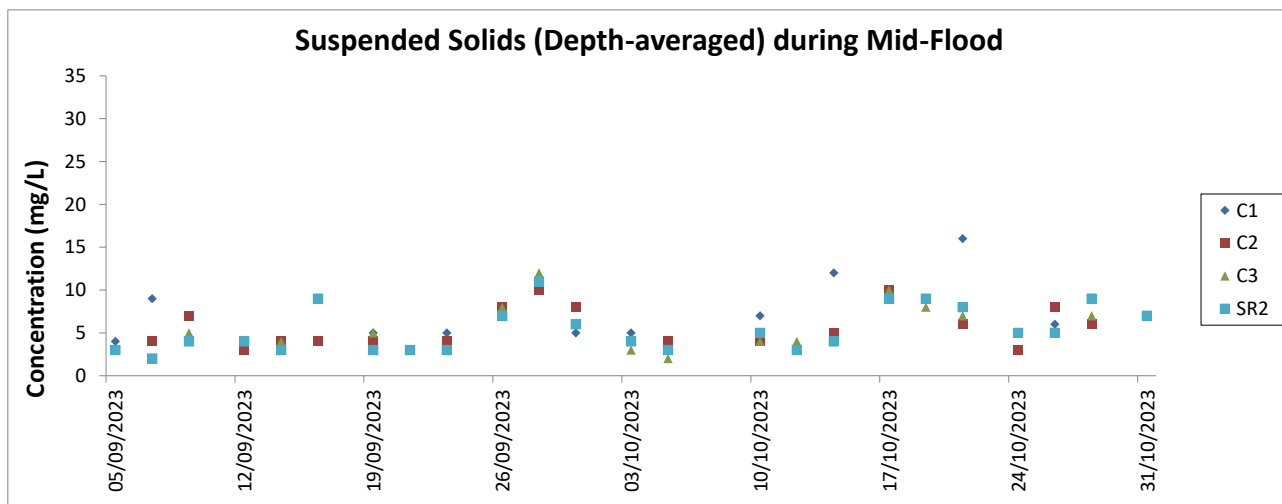
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Post-construction phase Water Quality Monitoring Results

Summary of the Post-construction Phase Water Quality Monitoring Results

Station	DO(Surface&Middle)(mg/L)		DO(Bottom)(mg/L)		Turbidity(NTU)		SS(mg/L)		Alkalinity(ppm)		Chromium(µg/L)		Nickel(µg/L)	
	Ebb Tide	Flood Tide	Ebb Tide	Flood Tide	Ebb Tide	Flood Tide	Ebb Tide	Flood Tide	Ebb Tide	Flood Tide	Ebb Tide	Flood Tide	Ebb Tide	Flood Tide
C1	6.5 (6.1-7.0)	6.5 (6.1-6.9)	6.4 (6.1-6.9)	6.4 (6.1-6.6)	7.0 (1.4-13.8)	6.2 (1.0-14.3)	6 (2-19)	6 (2-13)	86 (77-91)	87 (82-91)	0.2 (0.2-0.3)	0.2 (0.2-0.2)	0.7 (0.4-1.0)	0.7 (0.4-1.1)
C2	6.5 (6.2-7.1)	6.4 (6.1-6.9)	6.6 (6.2-7.2)	6.4 (6.1-7.0)	4.1 (1.7-9.8)	4.6 (1.1-10.5)	4 (2-9)	4 (2-9)	80 (45-92)	79 (47-92)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.8 (0.5-1.6)	0.8 (0.6-1.3)
C3	6.2 (5.5-6.6)	6.1 (5.9-6.4)	6.4 (5.4-6.9)	6.4 (5.9-6.9)	4.1 (1.1-9.0)	4.7 (0.6-13.4)	5 (2-9)	4 (2-8)	79 (44-91)	78 (43-90)	0.2 (0.2-0.3)	0.2 (0.2-0.2)	0.8 (0.5-1.2)	0.8 (0.4-1.2)
IM1	6.4 (6.3-7.1)	6.4 (6.1-6.8)	6.4 (6.2-6.7)	6.4 (6.1-6.7)	6.3 (2.1-13.9)	6.1 (1.0-14.9)	6 (2-18)	6 (2-25)	85 (73-91)	87 (82-93)	0.2 (0.2-0.3)	0.2 (0.2-0.3)	0.7 (0.4-0.9)	0.7 (0.4-0.9)
IM2	6.4 (6.1-6.9)	6.4 (6.2-6.8)	6.4 (6.1-6.6)	6.4 (6.1-6.7)	5.2 (1.9-11.8)	6.1 (1.7-13.0)	6 (2-16)	6 (2-22)	85 (45-94)	86 (46-92)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.7 (0.4-0.9)	0.7 (0.4-1.1)
IM3	6.4 (6.1-6.8)	6.4 (6.2-6.9)	6.4 (6.1-6.7)	6.4 (6.2-6.7)	5.7 (1.9-15.4)	6.0 (1.7-14.3)	6 (2-22)	5 (2-21)	86 (46-93)	87 (44-95)	0.2 (0.2-0.3)	0.2 (0.2-0.2)	0.7 (0.4-0.9)	0.7 (0.4-1.0)
IM4	6.5 (6.2-7.0)	6.4 (6.1-7.0)	6.5 (6.3-6.7)	6.4 (6.1-6.6)	5.6 (1.6-13.8)	5.7 (1.3-13.9)	5 (2-16)	6 (2-19)	86 (79-93)	88 (82-95)	0.2 (0.2-0.2)	0.2 (0.2-0.3)	0.7 (0.4-0.9)	0.7 (0.4-1.0)
IM5	6.5 (6.2-6.8)	6.4 (6.1-6.6)	6.5 (6.2-6.8)	6.4 (6.1-6.6)	4.8 (1.1-13.8)	5.6 (1.1-13.8)	5 (2-21)	6 (2-27)	86 (69-91)	86 (46-92)	0.2 (0.2-0.2)	0.2 (0.2-0.3)	0.7 (0.4-0.9)	0.7 (0.4-1.0)
IM6	6.4 (6.3-6.7)	6.4 (6.0-6.6)	6.5 (6.3-6.7)	6.4 (6.1-6.6)	4.9 (0.8-13.0)	4.2 (0.8-12.5)	6 (2-23)	6 (2-18)	85 (45-92)	86 (45-95)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.7 (0.4-1.0)	0.7 (0.4-1.0)
IM7	6.4 (6.1-6.6)	6.4 (6.0-6.8)	6.4 (6.1-6.5)	6.4 (6.0-6.6)	4.0 (0.6-11.7)	3.6 (0.6-10.3)	6 (2-18)	5 (2-16)	85 (43-93)	86 (47-94)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.7 (0.4-1.1)	0.7 (0.4-1.0)
IM8	6.5 (6.2-7.0)	6.5 (6.2-6.9)	6.6 (6.3-7.1)	6.6 (6.2-7.0)	4.2 (0.9-10.9)	4.5 (0.4-13.9)	5 (2-8)	3 (2-7)	80 (44-92)	79 (44-91)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.8 (0.4-1.3)	0.8 (0.6-1.2)
IM9	6.5 (6.0-6.9)	6.5 (6.1-6.8)	6.6 (6.3-7.1)	6.6 (6.2-7.0)	3.7 (0.7-8.2)	3.8 (1.1-10.5)	5 (2-10)	4 (2-7)	81 (43-91)	80 (43-91)	0.2 (0.2-0.3)	0.2 (0.2-0.2)	0.8 (0.5-1.3)	0.8 (0.6-1.2)
IM10	6.4 (6.0-6.9)	6.4 (6.1-6.7)	6.6 (6.3-7.1)	6.6 (6.2-7.0)	3.6 (0.5-10.8)	3.7 (1.1-10.6)	5 (2-9)	4 (2-6)	80 (48-91)	80 (48-90)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.8 (0.5-1.3)	0.8 (0.6-1.2)
IM11	6.5 (6.2-6.9)	6.4 (5.9-6.7)	6.6 (6.3-7.1)	6.6 (6.2-7.0)	3.4 (0.6-9.0)	3.8 (1.0-8.0)	4 (2-9)	4 (2-8)	80 (52-91)	80 (52-91)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.8 (0.5-1.3)	0.8 (0.4-1.2)
IM12	6.4 (6.2-6.7)	6.4 (5.9-6.7)	6.6 (6.3-7.1)	6.6 (6.2-7.0)	3.6 (1.0-8.3)	3.8 (1.0-10.8)	5 (2-11)	4 (2-7)	79 (45-91)	78 (45-90)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.8 (0.4-1.2)	0.8 (0.4-1.2)
SR1A	6.5 (6.0-6.9)	6.4 (6.1-6.8)	6.7 (6.4-7.0)	6.6 (6.3-7.0)	3.1 (0.7-6.0)	4.1 (0.7-10.6)	5 (2-8)	4 (2-7)	-	-	-	-	-	-
SR2	6.6 (6.0-6.9)	6.5 (6.3-6.8)	6.7 (6.0-7.2)	6.6 (6.4-7.0)	3.6 (0.9-8.7)	4.2 (0.5-12.0)	4 (2-9)	4 (2-6)	81 (43-102)	79 (43-102)	0.2 (0.2-0.2)	0.2 (0.2-0.2)	0.8 (0.5-1.3)	0.8 (0.4-1.1)
SR3	6.5 (6.3-6.7)	6.5 (6.3-7.1)	6.6 (6.4-7.0)	6.6 (6.3-7.1)	4.0 (1.1-11.3)	3.4 (0.5-8.3)	4 (2-8)	4 (2-8)	-	-	-	-	-	-
SR4A	6.4 (5.9-7.1)	6.4 (6.0-6.8)	6.4 (5.9-6.8)	6.4 (6.0-6.6)	4.7 (1.1-13.9)	4.4 (1.1-10.5)	5 (2-15)	4 (2-9)	-	-	-	-	-	-
SR5A	6.4 (6.0-6.8)	6.4 (6.0-6.6)	6.4 (6.0-6.8)	6.4 (6.0-6.6)	5.6 (1.7-13.0)	3.9 (1.4-10.3)	6 (2-20)	5 (2-12)	-	-	-	-	-	-
SR6	6.3 (5.9-7.0)	6.4 (5.8-6.8)	6.3 (6.0-6.9)	6.3 (5.9-6.7)	4.1 (0.5-12.2)	4.2 (1.1-12.2)	6 (2-14)	4 (2-8)	-	-	-	-	-	-
SR7	6.1 (5.5-6.5)	6.1 (5.8-6.5)	6.3 (5.4-6.9)	6.3 (5.8-6.9)	3.1 (0.5-9.3)	3.3 (1.4-7.1)	4 (2-9)	4 (2-7)	-	-	-	-	-	-
SR8	6.4 (6.0-6.6)	6.4 (6.0-6.7)	6.6 (6.3-7.1)	6.6 (6.2-7.0)	4.1 (1.2-12.0)	4.4 (1.0-8.0)	4 (2-9)	4 (2-7)	-	-	-	-	-	-

Note: (1) Average value and the range of values (in bracket) are presented in each cell.

Water Quality Monitoring Results on

14 November 23 **during Mid-Ebb Tide**

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

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

Water Quality Monitoring Results on

	Weather	Sea	Sampling
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Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA				
IM9	Fine	Moderate	12:31	8.6	Surface	1.0	0.1	72	25.2	25.2	8.0	8.0	29.4	29.4	90.7	90.8	6.3	6.4	2.9	3.8	5	6	84	85	88	822102	808830	0.2	0.6	0.7								
						1.0	0.1	69	25.2	8.0	8.0	29.4	29.4	90.8	90.8	6.3	6.4	3.0	3.8	6	6	85	86															
					Middle	4.3	0.1	94	25.1	25.1	8.0	8.0	29.7	29.7	92.1	92.2	6.4	6.4	3.3	3.8	5	6	88	89														
						4.3	0.0	90	25.1	8.0	8.0	29.7	29.7	92.3	92.3	6.4	6.4	3.4	3.8	6	6	89	90															
					Bottom	7.6	0.2	65	24.9	24.9	8.0	8.0	30.0	30.0	94.3	94.6	6.6	6.6	5.0	7	89	90																
						7.6	0.2	72	24.9	8.0	8.0	30.0	30.0	94.8	94.6	6.6	6.6	5.0	6	90	90																	
IM10	Fine	Moderate	12:38	9.8	Surface	1.0	0.1	90	25.2	25.2	8.0	8.0	30.0	30.0	89.6	89.6	6.2	6.3	2.0	3.2	5	6	52	52	77	822220	809860	<0.2	0.6	0.7								
						1.0	0.2	95	25.2	8.0	8.0	30.0	30.0	89.6	89.6	6.2	6.3	2.0	3.2	5	6	52	52															
					Middle	4.9	0.2	88	25.1	25.1	8.0	8.0	30.0	30.0	90.4	90.5	6.3	6.3	3.2	3.2	5	6	89	89														
						4.9	0.2	81	25.1	8.0	8.0	30.0	30.0	90.6	90.6	6.3	6.3	3.2	3.2	6	7	89	90															
					Bottom	8.8	0.2	75	25.1	25.1	8.0	8.0	30.0	30.0	98.6	98.9	6.9	6.9	4.3	7	90	90																
						8.8	0.2	68	25.1	8.0	8.0	30.0	30.0	99.1	98.9	6.9	6.9	4.3	8	90	90																	
IM11	Fine	Moderate	12:54	10.0	Surface	1.0	0.2	82	25.2	25.2	8.0	8.0	30.1	30.2	89.4	89.5	6.2	6.3	2.1	3.3	6	6	62	63	75	821483	810554	<0.2	0.6	0.7								
						1.0	0.2	87	25.2	8.0	8.0	30.2	30.2	89.5	89.5	6.2	6.3	2.1	3.3	6	6	63	63															
					Middle	5.0	0.2	82	25.3	25.3	8.0	8.0	30.2	30.2	91.2	91.4	6.3	6.3	3.2	3.2	5	5	78	78														
						5.0	0.2	76	25.3	8.0	8.0	30.2	30.2	91.6	91.6	6.3	6.3	3.2	3.2	5	5	78	78															
					Bottom	9.0	0.2	104	25.3	25.3	8.0	8.0	30.2	30.2	93.0	93.1	6.4	6.5	4.6	5	84	85																
						9.0	0.2	102	25.3	8.0	8.0	30.2	30.2	93.2	93.1	6.4	6.5	4.5	5	85	85																	
IM12	Fine	Moderate	13:17	10.0	Surface	1.0	0.2	107	25.4	25.4	8.0	8.0	30.2	30.2	89.0	89.1	6.2	6.3	4.2	5.2	4	5	48	48	74	821162	811506	<0.2	0.6	0.6								
						1.0	0.2	102	25.4	8.0	8.0	30.2	30.2	89.1	89.1	6.2	6.3	4.2	5.2	5	5	48	48															
					Middle	5.0	0.2	114	25.4	25.4	8.0	8.0	30.3	30.3	91.2	91.4	6.3	6.3	5.2	5.2	5	5	86	86														
						5.0	0.2	112	25.4	8.0	8.0	30.3	30.3	91.6	91.6	6.3	6.3	5.2	5.2	5	5	86	86															
					Bottom	9.0	0.2	94	25.3	25.3	8.0	8.0	30.3	30.3	94.3	94.7	6.5	6.6	6.1	6	88	88																
						9.0	0.2	92	25.3	8.0	8.0	30.3	30.3	95.1	95.1	6.5	6.6	6.1	7	88	88																	
SR1A	Fine	Moderate	14:09	4.8	Surface	1.0	0.0	17	25.1	25.1	8.0	8.0	29.9	29.9	91.8	91.9	6.4	6.4	3.2	3.9	6	-	-	-	-	819978	812660	-	-	-								
						1.0	0.0	19	25.1	8.0	8.0	29.9	29.9	91.9	91.9	6.4	6.4	3.2	3.9	5	-	-	-															
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
					Bottom	3.8	0.0	9	25.1	25.1	8.0	8.0	30.0	30.0	99.0	99.4	6.9	6.9	4.5	7	-	-	-	-							-	-	-	-	-	-	-	-
						3.8	0.0	13	25.1	8.0	8.0	30.0	30.0	99.7	99.7	6.9	6.9	4.5	6	-	-	-	-	-							-	-	-	-	-	-	-	-
SR2	Fine	Moderate	14:16	5.0	Surface	1.0	0.2	21	25.2	25.2	8.0	8.0	30.1	30.1	92.2	93.9	6.4	6.5	2.6	3.1	6	5	74	74	83	821457	814188	<0.2	0.7	0.7								
						1.0	0.2	19	25.2	8.0	8.0	30.1	30.1	95.6	96.6	6.6	6.5	2.5	3.1	5	5	74	74															
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
					Bottom	4.0	0.3	55	25.2	25.2	8.0	8.0	30.0	30.0	98.2	98.6	6.8	6.9	3.7	4	92	92																
						4.0	0.3	54	25.2	8.0	8.0	30.0	30.0	98.9	98.9	6.9	6.9	3.7	5	92	92																	
SR3	Fine	Moderate	12:20	7.8	Surface	1.0	0.0	67	25.1	25.1	8.0	8.0	29.6	29.6	93.8	93.9	6.6	6.6	3.2	3.7	4	-	-	-	-	822157	807572	-	-	-								
						1.0	0.1	69	25.0	8.0	8.0	29.6	29.6	93.9	93.9	6.6	6.6	3.2	3.7	6	-	-	-															
					Middle	3.9	0.1	77	24.9	24.9	8.0	8.0	30.1	30.1	94.8	94.9	6.6	6.6	3.9	5	-	-	-	-							-	-	-	-	-	-	-	
						3.9	0.1	76	24.9	8.0	8.0	30.1	30.1	94.9	94.9	6.6	6.6	3.9	6	-	-	-	-	-							-	-	-	-	-	-	-	
					Bottom	6.8	0.1	83	24.8	24.9	8.0	8.0	30.2	30.2	98.9	99.3	6.9	7.0	4.0	7	-	-	-	-							-	-	-	-	-	-	-	-
						6.8	0.1	76	24.9	8.0	8.0	30.1	30.2	99.6	99.6	7.0	7.0	4.0	8	-	-	-	-	-							-	-	-	-	-	-	-	-
SR4A	Fine	Moderate	13:43	9.5	Surface	1.0	0.0	358	24.2	24.2	8.2	8.2	30.6	30.6	87.4	87.4	6.2	6.2	4.5	5.5	6	-	-	-	-	817207	807803	-	-	-								
						1.0	0.0	2	24.2	8.2	8.2	30.6	30.6	87.4	87.4	6.2	6.2	4.5	5	-	-	-	-															
					Middle	4.8	0.0	340	24.2	24.2	8.2	8.2	30.7	30.7	87.0	87.1	6.1	6.1	5.3	6	-	-	-	-							-	-	-	-	-	-	-	
						4.8	-	339	24.2	8.2	8.2	30.7	30.7	87.1	87.1	6.1	6.1	5.4	6	-	-	-	-	-							-	-	-	-	-	-	-	
					Bottom	8.5	0.0	21	24.2	24.2	8.2	8.2	30.7	30.7	87.4	87.4	6.2	6.2	6.7	7	-	-	-	-							-	-	-	-	-	-	-	-
						8.5	0.0	18	24.2	8.2	8.2	30.7	30.7	87.5	87.5	6.2	6.2	6.8	7	-	-	-	-	-							-	-	-	-	-	-	-	-
SR5A	Fine	Moderate	14:01	4.9	Surface	1.0	0.1	120	24.2	24.2	8.2	8.2	29.6	29.7	85.7	85.7	6.1	6.1	9.7	7.5	6	-	-	-	-	816593	810711	-	-	-								
						1.0	0.1	123	24.2	8.2	8.2	29.7	29.7	85.6	85.6	6.1	6.1	9.8	7	-	-	-	-															
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
					Bottom	3.9	0.1	88	24.1	24.1	8.2	8.2	30.3	30.3	86.7	86.7	6.1	6.1	5.2	8	-	-	-	-							-	-	-	-	-	-	-	-
						3.9	0.1	82	24.1	8.2	8.2	30.3	30.3	86.7	86.7	6.1	6.1	5.2	9	-	-	-	-	-							-	-	-	-	-	-	-	-
SR6	Fine	Moderate	14:27	5.1	Surface	1.0	0.0	56	24.7	24.7	8.2	8.2	29.6	29.6	83.3	83.4	5.9	5.9	5.9	5.6	7	-	-	-	-	817876	814680	-	-	-								
						1.0	0.0	49	24.7	8.2	8.2	29.6	29.6	83.4	83.4	5.9	5.9	5.9	8	-	-	-	-															
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	
					Bottom	4.1	0.0	54	24.7	24.7	8.2	8.2	29.6	29.6	85.1	85.2	6.0	6.0	5.2	5	-	-	-	-							-	-	-	-	-	-	-	-
						4.1	0.1	58	24.7	8.2	8.2	29.6	29.6	85.2	85.2	6.0	6.0	5.2	6	-	-	-	-	-							-	-	-	-	-	-	-	-
SR7	Fine	Moderate	15:00	12.2	Surface	1.0	0.3	56	25.6	25.6	8.0	8.0	30.9	30.9	89.3	89.3	6.1	6.2	1.6	2.5	5	-	-	-	-	823628	823755	-	-	-								
						1.0	0.2	50	25.6	8.0	8.0	30.9	30.9	89.3	89.3	6.1	6.2	1.5	5	-	-	-	-															
					Middle	6.1	0.3	75	25.5	25.5	8.0	8.0	30.9	30.9	90.8	91.0	6.2	6.2	2.8	5	-	-	-	-							-	-	-	-	-	-	-	
						6.1	0.3	67	25.5	8.0	8.0	30.9	30.9	91.2	91.2	6.3	6.3	2.8	5	-	-	-	-	-							-	-	-	-	-	-	-	
					Bottom	11.2	0.3	48	25.5	25.5	8.0	8.0	30.9	30.9	96.2	96.5	6.6	6.6	3.0	6	-	-	-	-							-	-	-	-	-	-	-	-
						11.2	0.2	54	25.5	8.0	8.0	30.9	30.9	96.7	96.7	6.6	6.6	3.0	7	-	-	-	-	-							-	-	-	-	-	-	-	-
SR8	Fine	Moderate	14:00	5.8	Surface	1.0	-	-	25.2	25.2	8.0	8.0	30.1	30.1	89.8	89.9	6.2	6.2	3.7</																			

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 14 November 23 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	Rough	07:46	7.3	Surface	1.0	0.4	22	24.3	24.3	8.2	8.2	30.3	30.4	88.5	88.5	6.2		6.6		7		83		87	815631	804251	0.2		0.6	0.6			
						1.0	0.4	20	24.3		8.2		30.4		88.5		6.2		6.6		6		83											
					Middle	3.7	0.4	38	24.3	24.3	8.2	8.2	30.5	30.5	87.8	87.8	6.2		8.3	8.0	7		88							0.2		0.2	0.6	
						3.7	0.4	34	24.3		8.2		30.5		87.8		6.2		8.2		6		88							0.2			0.6	
					Bottom	6.3	0.4	13	24.3	24.3	8.2	8.2	30.8	30.8	87.5	87.5	6.1	6.2	9.2		6		90							<0.2			0.6	
						6.3	0.4	11	24.3		8.2		30.8		87.5		6.2	6.2	9.3		6		90							<0.2			0.6	
C2	Fine	Moderate	09:24	10.4	Surface	1.0	0.5	345	25.2	25.2	8.0	8.0	29.2	29.2	90.4	90.5	6.3		4.0		4		52		78	825681	806965	<0.2		0.7	0.			
						1.0	0.5	351	25.2		8.0		29.2		90.5		6.3	6.4	4.0		4		52											
					Middle	5.2	0.5	2	25.2	25.2	8.0	8.0	29.2	29.2	91.2	91.3	6.4		4.9	5.0	5		91							<0.2		<0.2	0.6	
						5.2	0.5	3	25.2		8.0		29.2		91.2		6.4		5.0		5		91							<0.2			0.6	
					Bottom	9.4	0.5	12	25.0	25.0	8.0	8.0	29.3	29.4	92.9	93.1	6.5	6.5	6.1		5		90							<0.2			0.6	
						9.4	0.5	6	24.9		8.0		29.4		93.3		6.5	6.5	6.1		6		90							<0.2			0.6	0.8
C3	Fine	Moderate	07:42	9.8	Surface	1.0	0.4	273	25.6	25.6	8.0	8.0	30.7	30.7	85.7	85.7	5.9		1.4		6		44		72	822127	817809	0.2		0.7	0.7			
						1.0	0.4	278	25.6		8.0		30.7		85.7		5.9	5.9	1.4		5		44											
					Middle	4.9	0.5	259	25.6	25.6	8.0	8.0	30.7	30.7	86.1	86.1	5.9		2.3	2.7	5		86							0.2		0.2	0.6	
						4.9	0.5	258	25.6		8.0		30.7		86.1		5.9		2.3		5		86							0.2			0.6	
					Bottom	8.8	0.5	276	25.6	25.6	8.0	8.0	30.7	30.7	86.6	86.7	6.0	6.0	4.3		5		86							<0.2			0.7	
						8.8	0.5	283	25.6		8.0		30.7		86.7		6.0		4.3		5		86							<0.2			0.7	
IM1	Fine	Moderate	08:13	6.5	Surface	1.0	0.3	15	24.2	24.2	8.2	8.2	30.4	30.4	86.7	86.7	6.1		4.8		5		82		85	818360	806461	<0.2		0.7	0.7			
						1.0	0.3	13	24.2		8.2		30.4		86.7		6.1	6.1	4.7		6		82											
					Middle	3.3	0.3	5	24.3	24.3	8.2	8.2	30.5	30.5	86.5	86.5	6.1		5.0	5.5	6		84							<0.2		0.2	0.6	
						3.3	0.3	12	24.3		8.2		30.5		86.5		6.1		5.0		6		84							<0.2			0.7	
					Bottom	5.5	0.2	14	24.3	24.3	8.2	8.2	30.6	30.6	86.3	86.3	6.1	6.1	6.8		6		90							0.2			0.6	
						5.5	0.3	16	24.3		8.2		30.6		86.3		6.1		6.9		6		90							0.3			0.7	
IM2	Fine	Moderate	08:21	7.0	Surface	1.0	0.3	9	24.3	24.3	8.2	8.2	30.2	30.2	88.0	88.0	6.2		6.6		6		83		88	818861	806173	0.2		0.7	0.6			
						1.0	0.3	7	24.3		8.2		30.1		88.0		6.2	6.2	6.7		6		83											
					Middle	3.5	0.3	23	24.3	24.3	8.2	8.2	30.3	30.4	87.6	87.6	6.2		7.7	8.2	6		88							<0.2		0.2	0.6	
						3.5	0.3	24	24.3		8.2		30.4		87.6		6.2		7.8		7		88							<0.2			0.6	
					Bottom	6.0	0.2	1	24.3	24.3	8.2	8.2	30.7	30.7	87.0	87.1	6.1	6.1	10.1		7		91							<0.2			0.5	
						6.0	0.3	355	24.3		8.2		30.7		87.1		6.1		10.1		8		92							<0.2			0.5	
IM3	Fine	Moderate	08:35	7.3	Surface	1.0	0.3	0	24.3	24.3	8.3	8.3	30.0	30.0	88.7	88.7	6.3		6.2		6		85		87	819410	806040	<0.2		0.7	0.7			
						1.0	0.3	5	24.3		8.3		30.0		88.7		6.3	6.3	6.1		7		85											
					Middle	3.7	0.3	8	24.4	24.4	8.2	8.2	30.2	30.2	87.8	87.9	6.2		6.3	6.9	7		86							<0.2		<0.2	0.8	
						3.7	0.3	8	24.4		8.2		30.2		87.9		6.2		6.4		6		86							<0.2			0.7	
					Bottom	6.3	0.3	25	24.4	24.4	8.2	8.2	30.3	30.3	87.9	87.9	6.2	6.2	8.1		6		91							<0.2			0.7	
						6.3	0.3	21	24.4		8.2		30.3		87.9		6.2		8.0		5		91							<0.2			0.7	
IM4	Fine	Moderate	08:51	8.1	Surface	1.0	0.3	356	24.3	24.3	8.2	8.2	30.5	30.5	87.6	87.6	6.2		4.1		6		86		89	819569	805042	0.2		0.6	0.6			
						1.0	0.3	2	24.3		8.2		30.4		87.6		6.2	6.2	4.1		6		87											
					Middle	4.1	0.3	18	24.3	24.3	8.2	8.2	30.6	30.6	87.7	87.8	6.2		5.8	5.5	5		88							<0.2		0.2	0.6	
						4.1	0.3	14	24.3		8.2		30.6		87.8		6.2		5.9		6		88							<0.2			0.6	
					Bottom	7.1	0.3	20	24.3	24.3	8.2	8.2	30.7	30.7	88.2	88.3	6.2	6.2	6.4		5		91							<0.2			0.6	
						7.1	0.3	27	24.3		8.2		30.7		88.3		6.2		6.4		5		91							<0.2			0.6	
IM5	Fine	Moderate	09:05	6.9	Surface	1.0	0.4	9	24.4	24.4	8.2	8.2	29.6	29.6	88.6	88.8	6.3		3.6		6		82		86	820583	804937	0.3		0.6	0.6			
						1.0	0.4	13	24.4		8.2		29.6		89.0		6.3	6.2	3.6		6		82											
					Middle	3.5	0.4	352	24.3	24.3	8.2	8.2	30.6	30.6	87.2	87.3	6.1		8.8	6.6	8		86							<0.2		0.2	0.5	
						3.5	0.4	356	24.3		8.2		30.6		87.3		6.1		8.8		9		86							<0.2			0.6	
					Bottom	5.9	0.3	12	24.3	24.3	8.2	8.2	30.6	30.6	87.4	87.4	6.1	6.1	7.4		9		91							<0.2			0.6	
						5.9	0.4	11	24.3		8.2		30.6		87.4		6.1		7.5		10		91							<0.2			0.7	
IM6	Fine	Moderate	09:12	7.1	Surface	1.0	0.2	11	24.5	24.5	8.2	8.2	29.5	29.6	86.8	86.8	6.1		3.2		8		80		85	821053	805841	<0.2		0.7	0.6			
						1.0	0.3	16	24.4		8.2		29.6		86.8		6.1	6.1	3.2		7		80											
					Middle	3.6	0.3	359	24.3	24.3	8.2	8.2	30.0	30.0	86.4	86.4	6.1		4.5	4.6	6		84							<0.2		<0.2	0.6	
						3.6	0.3	352	24.3		8.2		30.0		86.4		6.1		4.5		6		84							<0.2			0.7	
					Bottom	6.1	0.2	25	24.2	24.2	8.2	8.2	30.2	30.2	86.1	86.1	6.1	6.1	6.1		5		91							<0.2			0.6	
						6.1	0.2	28	24.2		8.2		30.2		86.1		6.1		6.2		5		91							<0.2			0.6	
IM7	Fine	Moderate	09:27	7.3	Surface	1.0	0.3	29	24.6	24.6	8.2	8.2	29.1	29.0	86.3	86.4	6.1		2.8		6		79		84	821335	806825	<0.2		0.5	0.6			
						1.0	0.2	25	24.6		8.2		28.9		86.4		6.1	6.1	3.0		5		79											
					Middle	3.7	0.2	35	24.4	24.4	8.2	8.2	29.8	29.8	85.9	85.9	6.1		5.1	6.0	4		82							<0.2		<0.2	0.7	
						3.7	0.2	41	24.4		8.2		29.8		85.9		6.1		5.2		4		83							<0.2			0.6	
					Bottom	6.3	0.3	7	24.3	24.3	8.2	8.2	30.2	30.2	85.5	85.5	6.0	6.0	9.8		4		91							<0.2			0.6	
						6.3	0.3	4	24.3		8.2		30.2		85.5		6.0		9.8		4		91							<0.2			0.5	
IM8	Fine	Moderate	09:01	8.6	Surface	1.0	0.2	351	25.2	25.2	8.0	8.0	29.3	29.3	90.3	90.4	6.3		1.9		4		84		87	821716	807855	<0.2		0.8	0.7			
						1.0	0.2	346	25.2		8.0		29.3		90.4		6.3	6.3	1.9		5		85											
					Middle	4.3	0.2	347	25.2	25.2	8.0	8.0	29.3	29.3	90.7	90.8	6.3		2.9	3.1	4		87							<0.2		<0.2	0.7	
						4.3	0.2	342	25.2		8.0		29.3		90.8		6.3		3.0		4		87							<0.2			0.7	
					Bottom	7.6	0.3	346	25.1	25.1	8.0	8.0	29.6	29.6	93.1	93.3	6.5	6.5	4.4		4		90							<0.2			0.6	
						7.6	0.2	338	25.1		8.0		29.6																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 14 November 23 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
IM9	Fine	Moderate	08:54	7.8	Surface	1.0	0.4	314	24.9	24.9	8.0	8.0	29.7	29.8	92.1	92.2	6.4	2.5	4	4	85	88	88	88	822070	808825	<0.2	0.7	0.7		
						1.0	0.4	307	24.9	24.9	8.0	8.0	29.8	29.8	92.2	92.2	6.4	2.5	4	4	85	88	88	88	822070	808825	<0.2	0.6	0.6		
					Middle	3.9	0.4	316	24.9	24.9	8.0	8.0	30.0	30.0	94.7	94.9	6.6	3.8	4	4	88	88	88	88	822070	808825	<0.2	0.7	0.7		
						3.9	0.4	321	24.9	24.9	8.0	8.0	30.0	30.0	95.1	95.1	6.6	3.7	4	4	88	88	88	88	822070	808825	<0.2	0.7	0.7		
					Bottom	6.8	0.3	333	24.9	24.9	8.0	8.0	30.0	30.0	98.0	98.3	6.9	5.4	4	4	90	90	90	90	822070	808825	<0.2	0.7	0.7		
						6.8	0.3	338	24.9	24.9	8.0	8.0	30.0	30.0	98.5	98.5	6.9	5.3	4	4	91	91	91	91	822070	808825	<0.2	0.7	0.7		
IM10	Fine	Moderate	08:48	8.8	Surface	1.0	0.4	305	25.2	25.2	8.0	8.0	30.0	30.0	90.1	90.3	6.3	3.7	4	4	49	49	49	49	822259	809849	0.2	0.8	0.8		
						1.0	0.4	305	25.2	25.2	8.0	8.0	30.0	30.0	90.4	90.4	6.3	3.7	5	5	49	49	49	49	822259	809849	0.2	0.8	0.8		
					Middle	4.4	0.5	276	25.2	25.2	8.0	8.0	30.0	30.0	92.4	92.6	6.4	4.0	4	4	86	86	86	86	822259	809849	0.2	0.7	0.7		
						4.4	0.5	280	25.2	25.2	8.0	8.0	30.0	30.0	92.7	92.7	6.4	4.0	4	4	86	86	86	86	822259	809849	0.2	0.7	0.7		
					Bottom	7.8	0.4	301	25.2	25.2	8.0	8.0	30.0	30.0	94.9	95.1	6.6	5.8	4	4	89	89	89	89	822259	809849	<0.2	0.8	0.8		
						7.8	0.4	293	25.2	25.2	8.0	8.0	30.0	30.0	95.2	95.1	6.6	5.7	4	4	89	89	89	89	822259	809849	<0.2	0.9	0.9		
IM11	Fine	Moderate	08:42	8.0	Surface	1.0	0.5	287	25.2	25.2	8.0	8.0	30.0	30.0	90.0	90.1	6.3	4.9	4	4	52	52	52	52	821520	810546	<0.2	0.7	0.7		
						1.0	0.5	283	25.2	25.2	8.0	8.0	30.0	30.0	90.1	90.1	6.3	4.9	5	5	52	52	52	52	821520	810546	<0.2	0.7	0.7		
					Middle	4.0	0.4	287	25.1	25.1	8.0	8.0	30.0	30.0	91.4	91.5	6.4	5.2	4	4	87	87	87	87	821520	810546	<0.2	0.7	0.7		
						4.0	0.4	288	25.1	25.1	8.0	8.0	30.0	30.0	91.6	91.6	6.4	5.2	5	5	87	87	87	87	821520	810546	<0.2	0.7	0.7		
					Bottom	7.0	0.4	278	25.1	25.1	8.0	8.0	30.0	30.0	93.9	94.1	6.5	6.6	5	5	90	90	90	90	821520	810546	0.2	0.7	0.7		
						7.0	0.4	270	25.1	25.1	8.0	8.0	30.0	30.0	94.2	94.1	6.6	6.5	5	5	90	90	90	90	821520	810546	0.2	0.6	0.6		
IM12	Fine	Moderate	08:36	9.4	Surface	1.0	0.5	288	25.2	25.2	8.0	8.0	30.0	30.0	89.2	89.2	6.2	2.2	4	4	45	45	45	45	821185	811538	0.2	0.6	0.6		
						1.0	0.5	282	25.2	25.2	8.0	8.0	30.0	30.0	89.2	89.2	6.2	2.2	4	4	46	46	46	46	821185	811538	0.2	0.6	0.6		
					Middle	4.7	0.5	289	25.2	25.2	8.0	8.0	30.0	30.0	89.7	89.8	6.2	3.5	4	4	86	86	86	86	821185	811538	<0.2	0.7	0.7		
						4.7	0.6	282	25.2	25.2	8.0	8.0	30.0	30.0	89.8	89.8	6.2	3.5	4	4	86	86	86	86	821185	811538	<0.2	0.7	0.7		
					Bottom	8.4	0.5	277	25.2	25.2	8.0	8.0	30.0	30.0	90.5	90.6	6.3	4.1	4	4	87	87	87	87	821185	811538	0.2	0.7	0.7		
						8.4	0.5	272	25.2	25.2	8.0	8.0	30.0	30.0	90.6	90.6	6.3	4.1	4	4	87	87	87	87	821185	811538	0.2	0.8	0.8		
SR1A	Fine	Moderate	08:16	4.0	Surface	1.0	0.0	198	24.9	24.9	8.0	8.0	29.8	29.8	92.8	93.0	6.5	5.1	4	4	-	-	-	-	819975	812653	-	-	-		
						1.0	0.0	199	24.9	24.9	8.0	8.0	29.8	29.8	93.2	93.2	6.5	5.1	4	4	-	-	-	-	819975	812653	-	-	-		
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.0	0.0	218	24.9	24.9	8.0	8.0	29.7	29.7	99.6	100.1	7.0	6.8	4	4	-	-	-	-	-	-	-	-	-	-	-
						3.0	0.1	221	24.9	24.9	8.0	8.0	29.7	29.7	100.5	100.1	7.0	6.9	4	4	-	-	-	-	-	-	-	-	-	-	-
SR2	Fine	Moderate	08:02	4.6	Surface	1.0	0.1	232	25.1	25.1	8.0	8.0	30.1	30.1	91.8	92.0	6.4	4.3	5	4	43	44	43	44	821446	814156	0.2	0.7	0.6		
						1.0	0.1	231	25.1	25.1	8.0	8.0	30.1	30.1	92.2	92.2	6.4	4.2	4	4	44	44	44	44	821446	814156	0.2	0.6	0.6		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.6	0.2	209	25.0	25.0	8.0	8.0	30.1	30.1	94.1	94.3	6.6	5.4	4	4	87	87	87	87	821446	814156	0.2	0.7	0.7		
						3.6	0.1	206	25.0	25.0	8.0	8.0	30.1	30.1	94.4	94.4	6.6	5.4	4	4	87	87	87	87	821446	814156	0.2	0.6	0.6		
SR3	Fine	Moderate	09:06	8.6	Surface	1.0	0.4	354	25.1	25.1	8.0	8.0	29.6	29.7	89.9	90.0	6.3	3.6	4	4	-	-	-	-	822136	807549	-	-	-		
						1.0	0.4	348	25.1	25.1	8.0	8.0	29.7	29.7	90.0	90.0	6.3	3.6	4	4	-	-	-	-	822136	807549	-	-	-		
					Middle	4.3	0.4	327	24.9	24.9	8.0	8.0	30.1	30.1	90.0	90.0	6.3	5.3	5	4	-	-	-	-	822136	807549	-	-	-		
						4.3	0.4	327	24.9	24.9	8.0	8.0	30.1	30.1	90.0	90.0	6.3	5.2	4	4	-	-	-	-	822136	807549	-	-	-		
					Bottom	7.6	0.4	345	24.9	24.9	8.0	8.0	30.3	30.3	90.2	90.3	6.3	6.0	4	4	-	-	-	-	822136	807549	-	-	-		
						7.6	0.3	347	24.9	24.9	8.0	8.0	30.3	30.3	90.4	90.3	6.3	6.0	5	4	-	-	-	-	822136	807549	-	-	-		
SR4A	Fine	Moderate	07:21	9.2	Surface	1.0	0.0	200	24.2	24.2	8.2	8.2	30.7	30.7	85.6	85.6	6.0	4.1	5	4	-	-	-	-	817195	807825	-	-	-		
						1.0	0.0	192	24.2	24.2	8.2	8.2	30.7	30.7	85.6	85.6	6.0	4.2	4	4	-	-	-	-	817195	807825	-	-	-		
					Middle	4.6	0.0	217	24.2	24.2	8.2	8.2	30.7	30.7	86.1	86.2	6.1	3.9	4	4	-	-	-	-	817195	807825	-	-	-		
						4.6	0.0	220	24.2	24.2	8.2	8.2	30.7	30.7	86.3	86.1	6.1	4.0	5	4	-	-	-	-	817195	807825	-	-	-		
					Bottom	8.2	0.0	212	24.1	24.1	8.2	8.2	30.7	30.7	87.3	87.4	6.2	4.4	5	4	-	-	-	-	817195	807825	-	-	-		
						8.2	0.0	205	24.1	24.1	8.2	8.2	30.7	30.7	87.5	87.4	6.2	4.4	5	4	-	-	-	-	817195	807825	-	-	-		
SR5A	Fine	Calm	07:04	4.1	Surface	1.0	0.2	287	24.3	24.3	8.2	8.2	29.4	29.4	84.5	84.5	6.0	3.5	6	5	-	-	-	-	816605	810708	-	-	-		
						1.0	0.2	289	24.3	24.3	8.2	8.2	29.4	29.4	84.5	84.5	6.0	3.5	5	5	-	-	-	-	816605	810708	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	3.1	0.2	292	24.3	24.3	8.1	8.1	29.4	29.4	86.0	86.2	6.1	3.4	5	4	-	-	-	-	816605	810708	-	-	-		
						3.1	0.2	287	24.2	24.3	8.1	8.1	29.4	29.4	86.3	86.3	6.1	3.3	5	4	-	-	-	-	816605	810708	-	-	-		
SR6	Fine	Calm	06:37	4.3	Surface	1.0	0.2	233	24.6	24.6	8.1	8.1	29.7	29.7	82.8	82.8	5.8	2.7	5	4	-	-	-	-	817896	814663	-	-	-		
						1.0	0.1	228	24.6	24.6	8.1	8.1	29.7	29.7	82.8	82.8	5.8	2.8	4	4	-	-	-	-	817896	814663	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	3.3	0.2	219	24.7	24.7	8.1	8.1	29.8	29.8	86.0	86.2	6.0	3.5	4	4	-	-	-	-	817896	814663	-	-	-		
						3.3	0.2	213	24.7	24.7	8.1	8.1	29.8	29.8	86.4	86.4	6.1	3.5	4	4	-	-	-	-	817896	814663	-	-	-		
SR7	Fine	Moderate	07:14	16.0	Surface	1.0	0.8	257	25.6	25.6	8.0	8.0																			

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 November 23 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	Rough	14:40	8.1	Surface	1.0	0.1	210	23.9	23.9	8.2	8.2	29.7	29.7	87.7	87.8	6.3	6.4	10.2	12.2	8	8	84	87	815607	804242	<0.2	0.5	0.6	
						1.0	0.1	211	23.9	23.9	8.2	8.2	29.7	29.7	87.8	87.8	6.3	6.4	10.2	12.2	6	6	85	88			<0.2	0.6		
					Middle	4.1	0.1	202	23.9	23.9	8.2	8.2	29.4	29.4	88.9	89.0	6.4	6.4	13.8	13.4	7	8	87	88			<0.2	0.6		
						4.1	0.0	203	23.9	23.9	8.2	8.2	29.4	29.4	89.0	89.0	6.4	6.4	13.4	12.5	8	9	88	90			<0.2	0.6		
					Bottom	7.1	0.1	204	23.9	23.9	8.2	8.2	29.5	29.5	90.5	90.6	6.5	6.6	12.5	12.8	9	10	90	89			<0.2	0.5		
						7.1	0.2	197	23.9	23.9	8.2	8.2	29.4	29.5	90.7	90.6	6.5	6.6	12.8	12.8	10	10	89	89			<0.2	0.5		
C2	Fine	Rough	13:16	9.2	Surface	1.0	0.1	359	24.8	24.8	8.0	8.0	28.7	28.7	95.8	96.0	6.7	6.8	2.3	3.2	7	7	46	81	825704	806960	<0.2	0.9	0.9	
						1.0	0.1	3	24.8	24.8	7.9	7.9	28.7	28.7	96.1	96.0	6.8	6.8	2.3	3.5	8	7	45	81			<0.2	0.9		
					Middle	4.6	0.2	7	24.8	24.8	7.9	7.9	28.7	28.7	97.0	97.2	6.8	6.9	3.6	3.6	8	8	81	81			<0.2	0.8		
						4.6	0.1	3	24.8	24.8	7.9	7.9	28.7	28.7	97.3	98.3	6.9	6.9	3.6	3.7	9	6	81	90			<0.2	0.8		
					Bottom	8.2	0.2	327	24.8	24.8	7.9	7.9	28.8	28.8	98.8	98.6	6.9	7.0	3.8	3.7	6	5	90	90			<0.2	0.8		
						8.2	0.2	325	24.8	24.8	7.9	7.9	28.7	28.8	98.7	98.6	6.9	7.0	3.7	3.7	7	4	90	89			<0.2	0.8		
C3	Fine	Rough	14:42	8.0	Surface	1.0	0.1	81	25.3	25.3	8.0	8.0	31.0	31.0	89.5	89.6	6.2	6.2	2.1	3.1	8	7	49	83	822111	817823	<0.2	0.8	0.9	
						1.0	0.1	83	25.3	25.3	8.0	8.0	31.0	31.0	89.7	89.6	6.2	6.2	2.1	3.2	8	7	49	83			<0.2	0.8		
					Middle	4.0	0.2	65	25.3	25.3	8.0	8.0	31.0	31.0	90.5	90.7	6.3	6.3	3.2	3.2	7	7	83	83			<0.2	0.8		
						4.0	0.1	64	25.3	25.3	8.0	8.0	31.0	31.0	90.9	90.7	6.3	6.3	3.2	3.2	7	7	83	83			<0.2	0.9		
					Bottom	7.0	0.1	81	25.3	25.3	8.0	8.0	31.0	31.0	92.7	92.7	6.4	6.4	4.1	4.1	7	7	85	85			<0.2	0.9		
						7.0	0.2	83	25.3	25.3	8.0	8.0	31.0	31.0	96.7	94.7	6.7	6.6	4.1	4.1	6	6	85	85			<0.2	1.0		
IM1	Cloudy	Rough	15:01	6.3	Surface	1.0	0.1	181	24.3	24.3	8.1	8.1	29.0	29.0	86.7	86.7	6.3	6.3	10.2	12.1	8	8	85	88	818349	806443	<0.2	0.6	0.6	
						1.0	0.1	182	24.3	24.3	8.1	8.1	29.0	29.0	86.7	86.7	6.3	6.3	10.2	13.9	8	8	84	88			<0.2	0.6		
					Middle	3.2	0.1	191	24.3	24.3	8.1	8.1	29.1	29.1	87.9	88.0	6.3	6.3	13.2	13.2	8	6	86	89			<0.2	0.5		
						3.2	0.1	191	24.3	24.3	8.1	8.1	29.0	29.0	88.1	88.0	6.3	6.3	13.2	12.9	8	6	88	89			<0.2	0.6		
					Bottom	5.3	0.0	155	24.3	24.3	8.1	8.1	29.0	29.0	89.7	89.7	6.5	6.5	12.9	12.4	7	7	89	88			<0.2	0.5		
						5.3	0.1	155	24.3	24.3	8.1	8.1	29.0	29.0	89.9	89.8	6.5	6.5	12.4	12.4	7	7	88	88			<0.2	0.6		
IM2	Cloudy	Rough	15:12	6.7	Surface	1.0	0.1	171	24.2	24.2	8.1	8.1	29.3	29.3	88.2	88.2	6.4	6.4	11.6	8.9	7	8	84	85	818856	806216	<0.2	0.5	0.6	
						1.0	0.0	174	24.2	24.2	8.1	8.1	29.3	29.3	88.2	88.2	6.4	6.4	11.2	7.5	8	8	85	85			<0.2	0.6		
					Middle	3.4	0.0	192	24.2	24.2	8.1	8.1	29.4	29.4	89.0	89.1	6.4	6.4	7.6	7.6	9	8	86	89			<0.2	0.6		
						3.4	0.1	189	24.2	24.2	8.1	8.1	29.4	29.4	89.1	89.1	6.4	6.4	7.6	7.8	9	8	85	90			<0.2	0.6		
					Bottom	5.7	0.1	200	24.2	24.2	8.1	8.1	29.4	29.4	89.6	89.7	6.5	6.5	7.8	7.6	8	9	89	90			<0.2	0.6		
						5.7	0.1	195	24.2	24.2	8.1	8.1	29.3	29.4	89.7	89.7	6.5	6.5	7.6	7.6	9	9	89	90			<0.2	0.6		
IM3	Cloudy	Rough	15:21	6.9	Surface	1.0	0.1	184	24.3	24.3	8.1	8.1	29.0	29.0	87.9	88.0	6.3	6.4	11.2	9.3	7	8	84	86	819410	805995	<0.2	0.5	0.5	
						1.0	0.2	188	24.3	24.3	8.1	8.1	29.0	29.0	88.0	88.0	6.3	6.3	11.7	5.5	8	8	84	87			<0.2	0.5		
					Middle	3.5	0.1	202	24.3	24.3	8.1	8.1	29.0	29.0	88.5	88.6	6.4	6.4	5.5	5.5	9	8	86	87			<0.2	0.6		
						3.5	0.1	198	24.3	24.3	8.1	8.1	29.0	29.0	88.6	88.6	6.4	6.4	5.5	5.8	8	9	87	89			<0.2	0.5		
					Bottom	5.9	0.1	197	24.3	24.3	8.1	8.1	29.0	29.0	89.2	89.2	6.4	6.4	10.8	11.2	9	9	89	88			<0.2	0.5		
						5.9	0.2	198	24.3	24.3	8.1	8.1	29.0	29.0	89.2	89.2	6.4	6.4	10.8	11.2	9	9	89	88			<0.2	0.6		
IM4	Cloudy	Rough	15:34	7.1	Surface	1.0	0.2	170	24.4	24.4	8.1	8.1	28.8	28.8	88.9	89.0	6.4	6.4	12.9	10.6	8	8	85	87	819571	805040	<0.2	0.5	0.6	
						1.0	0.2	164	24.4	24.4	8.1	8.1	28.8	28.8	89.0	89.0	6.4	6.4	12.3	9.2	8	7	84	86			<0.2	0.6		
					Middle	3.6	0.1	201	24.4	24.4	8.1	8.1	28.8	28.8	88.7	88.7	6.4	6.4	9.2	9.2	8	7	87	86			<0.2	0.5		
						3.6	0.2	207	24.4	24.4	8.1	8.1	28.8	28.8	88.6	88.6	6.4	6.4	9.2	10.0	7	7	86	89			<0.2	0.6		
					Bottom	6.1	0.1	190	24.4	24.4	8.1	8.1	28.8	28.8	88.4	88.4	6.4	6.4	10.0	10.1	7	7	89	90			<0.2	0.5		
						6.1	0.1	191	24.4	24.4	8.1	8.1	28.8	28.8	88.4	88.4	6.4	6.4	10.1	10.1	7	7	90	90			<0.2	0.5		
IM5	Cloudy	Rough	15:46	8.5	Surface	1.0	0.2	168	24.4	24.4	8.1	8.1	29.3	29.3	90.4	90.5	6.5	6.6	13.0	13.0	7	7	84	85	820544	804906	<0.2	0.5	0.6	
						1.0	0.1	175	24.4	24.4	8.1	8.1	29.3	29.3	90.6	90.6	6.5	6.6	12.9	12.4	7	8	85	87			<0.2	0.6		
					Middle	4.3	0.1	160	24.4	24.4	8.1	8.1	29.4	29.4	91.5	91.5	6.6	6.6	12.4	13.6	8	7	86	87			<0.2	0.5		
						4.3	0.2	166	24.4	24.4	8.1	8.1	29.4	29.4	91.5	91.5	6.6	6.6	12.4	13.6	8	7	87	88			<0.2	0.6		
					Bottom	7.5	0.2	172	24.4	24.4	8.1	8.1	29.4	29.4	92.0	92.1	6.6	6.6	13.8	13.8	8	8	88	90			<0.2	0.5		
						7.5	0.1	173	24.4	24.4	8.1	8.1	29.4	29.4	92.2	92.2	6.6	6.6	13.8	13.8	8	8	89	90			<0.2	0.6		
IM6	Cloudy	Rough	15:56	7.4	Surface	1.0	0.2	166	24.3	24.3	8.1	8.1	29.5	29.9	87.7	87.7	6.3	6.3	7.4	10.9	6	8	85	84	821075	805824	<0.2	0.5	0.5	
						1.0	0.2	171	24.3	24.3	8.1	8.1	29.9	29.9	87.7	87.7	6.3	6.3	7.4	12.4	7	8	84	87			<0.2	0.5		
					Middle	3.7	0.1	162	24.3	24.3	8.1	8.1	30.0	30.0	88.2	88.3	6.3	6.3	12.4	12.4	8	8	87	86			<0.2	0.5		
						3.7	0.1	160	24.3	24.3	8.1	8.1	30.0	30.0	88.3	88.3	6.3	6.3	12.4	12.9	8	9	86	89			<0.2	0.5		
					Bottom	6.4	0.2	183	24.3	24.3	8.1	8.1	30.0	30.0	89.5	89.4	6.4	6.4	12.9	13.0	8	8	89	90			<0.2	0.6		
						6.4	0.2	182	24.3	24.3	8.1	8.1	30.0	30.0	89.5	89.4	6.4	6.4	12.9	13.0	8	8	89	90			<0.2	0.5		
IM7	Cloudy	Rough	16:09	7.9	Surface	1.0	0.2	183	24.5	24.5	8.0	8.0	28.4	28.4	87.8	87.8	6.3	6.3	7.2	7.2	8	8	84	86	821347	806838	<0.2	0.5	0.6	
						1.0	0.2	183	24.5	24.5	8.0	8.0	28.4	28.4	87.8	87.8	6.3	6.3	7.2	7.2	8	8	84	86			<0.2	0.6		
					Middle	4.0	0.2	201	24.5	24.5	8.0	8.0	28.4	28.4	87.3	87.3	6.3	6.3	7.2	7.2	8	9	86	88			<0.2	0.5		
						4.0	0.1	208	24.5	24.5	8.0	8.0	28.4	28.4	87.3	87.3	6.3	6.3	7.2	7.2	9	8	88	89			<0.2	0.6		
					Bottom	6.9	0.2	173	24.5	24.5	8.0	8.0	29.0	29.0	87.5	87.5	6.3	6.3	7.3	7.2	8	9	89	90			<0.2	0.5		
						6.9	0.2	172	24.5	24.5	8.0	8.0	29.0	29.0	87.6	87.6	6.3	6.3	7.2	7.2	9	9	89	90			<0.2	0.6		
IM8	Fine	Rough	13:25	7.2	Surface	1.0	0.1	29	24.8	24.8	8.0	8.0	28.8	28.8	94.2	94.4	6.6	6.7	5.7	6.4	6	7	84	88	821682	807861	<0.2	0.9	0.8	
						1.0	0.1																							

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 November 23 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
IM9	Fine	Rough	13:31	8.6	Surface	1.0	0.1	6	24.7	24.7	8.0	8.0	30.1	30.1	91.5	91.6	6.4	6.4	4.2	6.1	6	84	88	822115	808820	<0.2	<0.2	0.9	0.8		
						1.0	0.0	8	24.7	24.7	8.0	8.0	30.1	30.1	91.6	91.6	6.4	6.4	4.2	6.1	7	85	88	822115	808820	<0.2	<0.2	0.8	0.8		
					Middle	4.3	0.1	36	24.7	24.7	8.0	8.0	30.3	30.3	95.7	95.9	6.7	6.3	6.3	6.1	7	88	89	822115	808820	<0.2	<0.2	0.8	0.8		
						4.3	0.1	28	24.7	24.7	8.0	8.0	30.3	30.3	96.0	96.0	6.7	6.3	6.3	6.1	8	89	89	822115	808820	<0.2	<0.2	0.8	0.8		
					Bottom	7.6	0.1	359	24.7	24.7	8.0	8.0	30.4	30.4	97.6	98.0	6.8	6.9	7.9	7.9	8	89	89	822115	808820	<0.2	<0.2	0.8	0.8		
						7.6	0.1	5	24.7	24.7	8.0	8.0	30.4	30.4	98.4	98.4	6.9	6.9	7.9	7.9	8	90	90	822115	808820	<0.2	<0.2	0.8	0.8		
IM10	Fine	Rough	13:40	7.8	Surface	1.0	0.0	5	24.8	24.8	8.0	8.0	30.3	30.3	91.9	92.0	6.4	6.1	6.1	7.1	8	50	50	822246	809855	<0.2	<0.2	0.9	0.9		
						1.0	0.0	357	24.8	24.8	8.0	8.0	30.3	30.3	92.1	92.1	6.4	6.1	6.1	7.1	7	50	50	822246	809855	<0.2	<0.2	0.9	0.9		
					Middle	3.9	0.0	6	24.8	24.8	8.0	8.0	30.3	30.3	94.7	95.1	6.6	6.7	7.1	7.0	8	87	87	822246	809855	<0.2	<0.2	0.9	0.9		
						3.9	-	0	24.8	24.8	8.0	8.0	30.3	30.3	95.4	95.4	6.7	7.0	7.0	7.0	8	87	87	822246	809855	<0.2	<0.2	0.9	0.9		
					Bottom	6.8	0.0	2	24.8	24.8	8.0	8.0	30.3	30.3	97.5	97.9	6.8	6.9	8.1	8.0	9	89	89	822246	809855	<0.2	<0.2	0.9	0.9		
						6.8	0.0	7	24.8	24.8	8.0	8.0	30.3	30.3	98.3	98.3	6.9	8.0	8.0	8.0	9	89	89	822246	809855	<0.2	<0.2	0.9	0.9		
IM11	Fine	Rough	13:45	8.2	Surface	1.0	0.0	1	24.8	24.8	8.0	8.0	30.4	30.4	91.2	91.3	6.4	3.6	3.6	4.4	8	61	61	821496	810525	<0.2	<0.2	0.9	0.9		
						1.0	0.0	1	24.8	24.8	8.0	8.0	30.4	30.4	91.4	91.4	6.4	3.5	3.5	4.4	7	61	61	821496	810525	<0.2	<0.2	0.8	0.8		
					Middle	4.1	0.1	337	24.7	24.7	8.0	8.0	30.4	30.4	92.0	92.1	6.4	4.2	4.2	4.2	8	77	77	821496	810525	<0.2	<0.2	1.0	0.9		
						4.1	0.1	340	24.7	24.7	8.0	8.0	30.4	30.4	92.2	92.1	6.4	4.2	4.2	4.2	9	77	77	821496	810525	<0.2	<0.2	0.9	0.9		
					Bottom	7.2	0.0	6	24.7	24.7	8.0	8.0	30.4	30.4	98.0	98.3	6.8	6.9	5.4	5.4	8	83	83	821496	810525	<0.2	<0.2	0.8	0.8		
						7.2	0.0	9	24.7	24.7	8.0	8.0	30.4	30.4	98.6	98.6	6.9	8.0	8.0	8.0	9	83	83	821496	810525	<0.2	<0.2	0.7	0.7		
IM12	Fine	Rough	13:51	10.0	Surface	1.0	0.1	42	24.8	24.8	8.0	8.0	30.4	30.4	91.2	91.3	6.3	6.1	6.1	6.0	8	46	46	821172	811512	<0.2	<0.2	0.9	0.9		
						1.0	0.0	49	24.8	24.8	8.0	8.0	30.4	30.4	91.4	91.4	6.3	6.0	6.0	6.0	8	46	46	821172	811512	<0.2	<0.2	0.9	0.9		
					Middle	5.0	0.0	45	24.7	24.7	8.0	8.0	30.4	30.4	92.1	92.1	6.4	7.7	7.7	7.7	6	84	84	821172	811512	<0.2	<0.2	0.9	0.9		
						5.0	0.0	42	24.7	24.7	8.0	8.0	30.4	30.4	92.1	92.1	6.4	7.7	7.7	7.7	6	84	84	821172	811512	<0.2	<0.2	0.9	0.9		
					Bottom	9.0	0.0	22	24.7	24.7	8.0	8.0	30.3	30.3	98.1	98.3	6.9	6.9	8.2	8.2	6	86	86	821172	811512	<0.2	<0.2	0.9	0.9		
						9.0	0.0	27	24.7	24.7	8.0	8.0	30.3	30.3	98.4	98.4	6.9	8.3	8.3	8.3	7	87	87	821172	811512	<0.2	<0.2	0.8	0.8		
SR1A	Fine	Rough	14:11	4.2	Surface	1.0	0.0	23	24.6	24.6	8.0	8.0	30.3	30.3	91.2	93.2	6.4	4.3	4.3	4.3	5	-	-	819980	812657	-	-	-	-		
						1.0	-	26	24.6	24.6	8.0	8.0	30.3	30.3	95.1	95.1	6.7	4.3	4.3	4.3	6	-	-	819980	812657	-	-	-	-		
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.2	0.0	35	24.6	24.6	8.0	8.0	30.3	30.3	96.6	97.0	6.8	6.8	4.6	4.6	7	-	-	819980	812657	-	-	-	-	-	-
						3.2	0.0	38	24.6	24.6	8.0	8.0	30.3	30.3	97.3	97.3	6.8	6.8	4.6	4.6	7	-	-	819980	812657	-	-	-	-	-	-
SR2	Fine	Rough	14:22	5.0	Surface	1.0	0.1	58	24.8	24.8	8.0	8.0	30.4	30.4	95.8	96.0	6.7	4.4	4.4	4.4	6	72	72	821456	814150	<0.2	<0.2	0.8	0.7		
						1.0	0.2	58	24.8	24.8	8.0	8.0	30.4	30.4	96.1	96.1	6.7	4.4	4.4	4.4	6	72	72	821456	814150	<0.2	<0.2	0.7	0.7		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.0	0.1	29	24.8	24.8	8.0	8.0	30.4	30.4	98.9	99.4	6.9	7.0	5.1	5.1	9	91	91	821456	814150	<0.2	<0.2	0.8	0.8		
						4.0	0.1	27	24.8	24.8	8.0	8.0	30.4	30.4	99.9	99.9	7.0	7.0	5.1	5.1	8	91	91	821456	814150	<0.2	<0.2	0.9	0.9		
SR3	Fine	Rough	13:19	7.6	Surface	1.0	0.1	11	24.9	24.9	8.0	8.0	28.7	28.7	91.0	91.1	6.4	3.2	3.2	3.2	7	-	-	822124	807556	-	-	-	-		
						1.0	0.1	14	24.9	24.9	8.0	8.0	28.7	28.7	91.1	91.1	6.4	3.2	3.2	3.2	6	-	-	822124	807556	-	-	-	-		
					Middle	3.8	0.1	351	24.9	24.9	8.0	8.0	28.7	28.7	92.2	92.5	6.5	4.6	4.6	4.6	6	-	-	822124	807556	-	-	-	-		
						3.8	0.2	344	24.9	24.9	8.0	8.0	28.7	28.7	92.8	92.8	6.5	4.5	4.5	4.5	7	-	-	822124	807556	-	-	-	-		
					Bottom	6.6	0.1	356	24.8	24.8	8.0	8.0	28.7	28.7	95.1	95.3	6.7	5.8	5.8	5.8	7	-	-	822124	807556	-	-	-	-		
						6.6	0.1	359	24.8	24.8	8.0	8.0	28.7	28.7	95.4	95.4	6.7	5.7	5.7	5.7	8	-	-	822124	807556	-	-	-	-		
SR4A	Cloudy	Rough	14:12	8.6	Surface	1.0	0.0	108	24.0	24.0	8.2	8.2	29.9	29.9	87.1	87.1	6.3	13.8	13.8	13.8	7	-	-	817178	807824	-	-	-	-		
						1.0	0.1	100	24.0	24.0	8.2	8.2	29.9	29.9	87.1	87.1	6.3	13.9	13.9	13.9	8	-	-	817178	807824	-	-	-	-		
					Middle	4.3	0.0	113	24.0	24.0	8.2	8.2	29.9	29.9	87.3	87.3	6.3	11.2	8	-	-	817178	807824	-	-	-	-				
						4.3	0.0	116	24.0	24.0	8.2	8.2	29.9	29.9	87.3	87.3	6.3	11.3	8	-	-	817178	807824	-	-	-	-				
					Bottom	7.6	0.0	119	23.9	23.9	8.2	8.2	30.0	30.0	89.7	89.9	6.5	12.8	8	-	-	817178	807824	-	-	-	-				
						7.6	0.1	114	23.9	23.9	8.2	8.2	30.0	30.0	90.0	90.0	6.5	12.9	8	-	-	817178	807824	-	-	-	-				
SR5A	Cloudy	Rough	13:40	3.6	Surface	1.0	0.1	118	24.1	24.1	8.1	8.1	29.4	29.4	82.9	82.9	6.0	12.9	8	-	-	816578	810703	-	-	-	-				
						1.0	0.1	117	24.1	24.1	8.1	8.1	29.4	29.4	82.9	82.9	6.0	13.0	9	-	-	816578	810703	-	-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	2.6	0.1	118	24.1	24.1	8.2	8.2	29.4	29.4	83.1	83.1	6.0	9.0	8	-	-	816578	810703	-	-	-	-	-	-		
						2.6	0.0	116	24.1	24.1	8.2	8.2	29.3	29.3	83.1	83.1	6.0	9.0	9	-	-	816578	810703	-	-	-	-	-	-		
SR6	Cloudy	Rough	13:14	4.8	Surface	1.0	0.0	73	24.1	24.1	8.2	8.2	29.4	29.4	83.6	83.7	6.0	9.0	9	-	-	817910	814661	-	-	-	-				
						1.0	0.0	77	24.1	24.1	8.2	8.2	29.4	29.4	83.7	83.7	6.0	9.1	8	-	-	817910	814661	-	-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	3.8	0.0	95	24.1	24.1	8.2	8.2	29.4	29.4	84.9	85.0	6.1	9.9	8	-	-	817910	814661	-	-	-	-	-	-		
						3.8	0.1	88	24.1	24.1	8.2	8.2	29.4	29.4	85.1	85.1	6.1	9.9	8	-	-	817910	814661	-	-	-					

Water Quality Monitoring

16 November 23 during Mid-Flood Tide

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 16 November 23 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	Fine	Rough	09:57	8.2	Surface	1.0	0.3	292	24.8	24.8	8.0	8.0	28.6	28.6	92.6	92.8	6.5	3.2			5		85		822081	808800	<0.2	0.8	0.8	
						1.0	0.2	295	24.8	24.8	8.0	8.0	28.6	28.6	92.9	92.8	6.5	3.2			5		85							
					Middle	4.1	0.3	289	24.8	24.8	8.0	8.0	28.6	28.6	95.4	95.6	6.7	4.1	4.2		6		88							
						4.1	0.4	294	24.8	24.8	8.0	8.0	28.6	28.6	95.8	95.8	6.8	4.1			6		88							
					Bottom	7.2	0.3	319	24.8	24.8	8.0	8.0	28.6	28.6	97.4	97.7	6.9	5.4			7		90							
						7.2	0.3	325	24.8	24.8	8.0	8.0	28.6	28.6	97.9	97.7	6.9	5.4			7		91							
IM10	Fine	Rough	09:51	7.2	Surface	1.0	0.4	287	24.8	24.8	8.0	8.0	29.1	29.1	90.7	90.8	6.4	5.1			6		49		822223	809823	<0.2	0.8	0.8	
						1.0	0.4	280	24.8	24.8	8.0	8.0	29.1	29.1	90.8	90.8	6.4	5.1			6		49							
					Middle	3.6	0.4	278	24.7	24.7	8.0	8.0	29.1	29.1	94.0	94.3	6.6	6.1	6.1		6		86							
						3.6	0.4	270	24.7	24.7	8.0	8.0	29.1	29.1	94.5	94.3	6.7	6.1			6		86							
					Bottom	6.2	0.3	277	24.7	24.7	8.0	8.0	29.1	29.1	96.8	97.2	6.8	7.1			6		89							
						6.2	0.3	277	24.7	24.7	8.0	8.0	29.1	29.1	97.5	97.2	6.9	7.0			6		89							
IM11	Fine	Rough	09:37	9.6	Surface	1.0	0.4	293	24.7	24.7	8.0	8.0	30.3	30.3	89.5	89.6	6.3	3.3			6		52		821516	810526	<0.2	0.8	0.8	
						1.0	0.5	292	24.7	24.7	8.0	8.0	30.3	30.3	89.6	89.6	6.3	3.3			6		53							
					Middle	4.8	0.4	270	24.7	24.7	8.0	8.0	30.4	30.4	90.8	90.9	6.3	4.3	4.4		6		87							
						4.8	0.4	270	24.7	24.7	8.0	8.0	30.4	30.4	90.9	90.9	6.4	4.3			6		87							
					Bottom	8.6	0.5	287	24.7	24.7	8.0	8.0	30.4	30.4	92.9	94.8	6.5	5.7			5		90							
						8.6	0.5	282	24.7	24.7	8.0	8.0	30.4	30.4	96.6	96.6	6.8	5.7			6		90							
IM12	Fine	Rough	09:32	9.2	Surface	1.0	0.5	289	24.8	24.8	8.0	8.0	30.4	30.4	89.4	89.5	6.2	3.3			7		45		821142	811517	<0.2	0.8	0.9	
						1.0	0.4	288	24.8	24.8	8.0	8.0	30.4	30.4	89.5	89.5	6.3	3.3			6		46							
					Middle	4.6	0.5	300	24.8	24.8	8.0	8.0	30.4	30.4	90.2	90.3	6.3	4.1	4.2		6		86							
						4.6	0.5	294	24.8	24.8	8.0	8.0	30.4	30.4	90.3	90.3	6.3	4.1			5		86							
					Bottom	8.2	0.5	304	24.8	24.8	8.0	8.0	30.4	30.4	95.6	95.9	6.7	5.1			5		87							
						8.2	0.4	299	24.8	24.8	8.0	8.0	30.4	30.4	96.1	96.1	6.7	5.1			5		87							
SR1A	Fine	Rough	09:22	5.2	Surface	1.0	0.0	188	24.7	24.7	8.0	8.0	30.3	30.3	91.0	91.3	6.4	2.3			6		-		819973	812656	-	-	-	
						1.0	0.0	190	24.7	24.7	8.0	8.0	30.3	30.3	91.5	91.5	6.4	2.3			5		-							
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	6.4		-		-							
						2.6	-	-	-	-	-	-	-	-	-	-	-	-			-		-							
					Bottom	4.2	0.0	185	24.7	24.7	8.0	8.0	30.3	30.3	96.9	97.3	6.8	3.5			7		-							
						4.2	0.1	177	24.7	24.7	8.0	8.0	30.3	30.3	97.6	97.3	6.8	3.5			6		-							
SR2	Fine	Rough	09:12	5.0	Surface	1.0	0.2	233	24.7	24.7	8.0	8.0	30.4	30.4	96.5	96.7	6.7	3.8			6		45		821462	814179	<0.2	1.1	1.0	
						1.0	0.1	227	24.7	24.7	8.0	8.0	30.4	30.4	96.8	96.8	6.8	3.9			6		46							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8		-		-							
						-	-	-	-	-	-	-	-	-	-	-	-	-			-		-							
					Bottom	4.0	0.2	247	24.7	24.7	8.0	8.0	30.4	30.4	98.9	99.3	6.9	4.6			6		87							
						4.0	0.2	241	24.7	24.7	8.0	8.0	30.4	30.4	99.7	99.3	7.0	4.6			5		87							
SR3	Fine	Rough	10:11	7.8	Surface	1.0	0.2	355	24.8	24.9	8.0	8.0	28.8	28.8	94.4	94.7	6.6	2.4			7		-		822160	807579	-	-	-	
						1.0	0.3	358	24.9	24.9	8.0	8.0	28.8	28.8	95.0	94.7	6.7	2.4			6		-							
					Middle	3.9	0.3	3	24.9	24.9	8.0	8.0	28.8	28.8	96.1	96.4	6.8	3.3	3.3		6		-							
						3.9	0.4	356	24.9	24.9	8.0	8.0	28.8	28.8	96.7	96.8	6.8	3.3			7		-							
					Bottom	6.8	0.2	342	24.9	24.9	8.0	8.0	29.0	29.0	98.7	99.2	6.9	4.3			7		-							
						6.8	0.2	344	24.9	24.9	8.0	8.0	29.0	29.0	99.7	99.2	7.0	4.3			7		-							
SR4A	Cloudy	Rough	10:15	8.0	Surface	1.0	0.0	198	24.0	24.0	8.2	8.2	30.8	30.8	86.5	86.5	6.1	8.2			7		-		817177	807809	-	-	-	
						1.0	0.0	194	24.0	24.0	8.2	8.2	30.8	30.8	86.5	86.5	6.1	8.2			8		-							
					Middle	4.0	0.0	209	24.0	24.0	8.2	8.2	30.8	30.8	86.9	86.9	6.1	8.7			7		-							
						4.0	0.0	211	24.0	24.0	8.2	8.2	30.8	30.8	86.9	86.9	6.1	8.9			7		-							
					Bottom	7.0	0.0	197	23.9	23.9	8.2	8.2	30.8	30.8	87.7	89.1	6.2	8.8			7		-							
						7.0	0.0	204	23.9	23.9	8.2	8.2	30.8	30.8	90.4	89.4	6.4	8.7			7		-							
SR5A	Cloudy	Rough	10:30	4.8	Surface	1.0	0.2	308	24.0	24.0	8.2	8.2	30.3	30.3	84.4	84.4	6.0	3.1			7		-		816589	810685	-	-	-	
						1.0	0.1	312	24.0	24.0	8.2	8.2	30.3	30.3	84.4	84.4	6.0	3.1			7		-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0		-		-							
						-	-	-	-	-	-	-	-	-	-	-	-	-			-		-							
					Bottom	3.8	0.1	288	24.0	24.0	8.2	8.2	30.3	30.3	85.0	85.2	6.0	3.2			7		-							
						3.8	0.1	292	24.0	24.0	8.2	8.2	30.3	30.3	85.4	85.4	6.1	3.2			7		-							
SR6	Cloudy	Rough	10:55	4.8	Surface	1.0	0.1	234	24.0	24.0	8.2	8.2	30.5	30.5	83.2	83.2	5.9	3.0			7		-		817894	814675	-	-	-	
						1.0	0.0	227	24.0	24.0	8.2	8.2	30.5	30.5	83.2	83.2	5.9	3.1			7		-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9		-		-							
						-	-	-	-	-	-	-	-	-	-	-	-	-			-		-							
					Bottom	3.8	0.1	256	24.0	24.0	8.2	8.2	30.3	30.3	83.5	83.5	5.9	3.0			7		-							
						3.8	0.1	261	24.0	24.0	8.2	8.2	30.3	30.3	83.5	83.5	5.9	3.0			8		-							
SR7	Fine	Moderate	08:28	11.0	Surface	1.0	0.7	249	25.2	25.2	7.9	7.9	30.7	30.7	84.3	84.3	5.8	5.4			4		-		823632	823725	-	-	-	
						1.0	0.7	256	25.2	25.2	7.9	7.9	30.7	30.7	84.3	84.3	5.8	5.4			5		-							
					Middle	5.5	0.7	253	25.2	25.2	7.9	7.9	30.7	30.7	84.4	84.5	5.8	6.4	4		-		-							
						5.5	0.7	253	25.2	25.2	7.9	7.9	30.7	30.7	84.5	84.5	5.8	6.5			6		-							
					Bottom	10.0	0.7	234	25.2	25.2	7.9	7.9	30.7	30.7	84.9	85.0	5.9	7.1			7		-							
						10.0	0.7	236	25.2	25.2	7.9	7.9	30.7	30.7	85.1	85.1	5.9	7.1			7		-							
SR8	Fine	Rough	09:28	4.6	Surface	1.0	-	-	24.7	24.7	8.0	8.0	30.3	30.3	91.3	91.5	6.4	5.7			7		-		820381	811615	-	-	-	
						1.0	-	-	24.7	24.7	8.0	8.0	30.3	30.3	91.6	91.6	6.4	5.7			6		-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4		-		-							
						-	-	-	-	-	-	-	-	-	-	-	-	-			-		-							
					Bottom	3.6	-	-	24.7	24.7	8.0	8.0	30.4	30.4	96.8	97.0	6.8	6.3			7		-							
						3.6	-	-	24.7	24.7	8.0	8.0	30.4	30.4	97.2	97.2	6.8	6.2			7		-							

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

Water Quality Monitoring

Water Quality Monitoring Results on

18 November 23 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
					Surface																									
C1	Fine	Rough	03:21	7.5	Surface	1.0	0.5	198	22.3	22.3	8.2	8.2	31.1	31.1	88.5	88.5	6.4	6.4	9.4	19		83		86	815623	804246	<0.2	0.5	0.5	
						1.0	0.5	193	22.3		8.2		31.1		88.4		6.4	6.4	9.3		18		83							
					Middle	3.8	0.6	227	22.3	22.3	8.2	8.2	31.1	31.1	88.3	88.3	6.4	6.4	10.3	11.0	17	86	86							
						3.8	0.5	219	22.3		8.2		31.1		88.3		6.4	6.4	10.3		18		86							
					Bottom	6.5	0.5	213	22.3	22.3	8.2	8.2	31.2	31.2	87.3	87.3	6.3	6.3	13.4		16		90							
					6.5	0.5	208	22.3		8.2		31.2		87.2		6.3	6.3	13.5		16					<0.2	0.5				
C2	Cloudy	Moderate	04:58	11.7	Surface	1.0	1.0	165	23.5	23.5	8.0	8.0	30.0	30.0	91.3	91.4	6.5	6.5	4.2	6		84		87	825694	806951	<0.2	1.1	0.8	
						1.0	0.9	169	23.5		8.0		30.0		91.5		6.6	6.6	4.2		6		85							
					Middle	5.9	0.9	168	23.5	23.5	8.0	8.0	30.0	30.0	93.0	93.1	6.7	6.7	4.3	5.3	7	7	88				87			
						5.9	0.9	171	23.4		8.0		30.0		93.2		6.7	6.7	4.3		6		88							
					Bottom	10.7	0.9	192	23.4	23.4	8.0	8.0	30.0	30.0	94.8	95.3	6.8	6.8	7.2		8		91							
					10.7	0.9	193	23.4		8.0		30.0		95.7		6.9	6.9	7.3		89					<0.2	0.7				
C3	Cloudy	Moderate	03:07	11.7	Surface	1.0	0.6	90	23.6	23.6	8.0	8.0	30.8	30.8	89.4	89.4	6.4	6.4	4.1	8		86		88	822109	817819	<0.2	0.6	0.7	
						1.0	0.6	88	23.6		8.0		30.8		89.4		6.4	6.4	4.0		9		85							
					Middle	5.9	0.7	76	23.8	23.8	8.0	8.0	30.9	30.9	90.3	90.4	6.4	6.4	5.8	6.2	7	7	88				88			
						5.9	0.7	75	23.8		8.0		30.9		90.4		6.4	6.4	5.8		6		89							
					Bottom	10.7	0.6	75	23.8	23.8	7.7	7.7	30.9	30.9	93.8		6.6	6.6	8.6		7		90							
					10.7	0.6	76	23.8		7.7		30.9		94.2		6.7	6.7	9.0		8					<0.2	0.9				
																											<0.2	0.7		
IM1	Fine	Rough	03:38	7.1	Surface	1.0	0.4	202	22.4	22.4	8.2	8.2	30.7	30.8	88.0	88.0	6.4	6.4	9.1	14		82		84	818366	806454	<0.2	0.4	0.4	
						1.0	0.4	196	22.4		8.2		30.8		88.0		6.4	6.4	9.1		14		82							
					Middle	3.6	0.4	173	22.4	22.4	8.2	8.2	30.8	30.8	87.8	87.8	6.4	6.4	9.7	10.7	14	16	83				83			
						3.6	0.4	166	22.4		8.2		30.8		87.8		6.4	6.4	9.8		17		83							
					Bottom	6.1	0.5	213	22.4	22.4	8.2	8.2	30.8	30.8	87.3		6.3	6.3	13.2		18		88							
					6.1	0.5	211	22.4		8.2		30.8		87.3		6.3	6.3	13.2		18					<0.2	0.5				
																											<0.2	0.4		
IM2	Fine	Rough	03:46	7.3	Surface	1.0	0.5	198	22.6	22.6	8.2	8.2	30.6	30.7	86.4	86.4	6.3	6.3	7.8	16		80		84	818868	806203	<0.2	0.5	0.5	
						1.0	0.5	191	22.6		8.2		30.7		86.4		6.3	6.3	7.7		14		80							
					Middle	3.7	0.4	191	22.6	22.6	8.2	8.2	30.6	30.6	86.3	86.3	6.3	6.3	9.2	9.6	14	15	83				83			
						3.7	0.4	185	22.6		8.2		30.6		86.3		6.3	6.3	9.2		14		83							
					Bottom	6.3	0.5	186	22.6	22.6	8.2	8.2	30.6	30.6	86.4	86.4	6.3	6.3	11.7		14		90							
					6.3	0.4	186	22.6		8.2		30.6		86.4		6.3	6.3	11.8		16					<0.2	0.5				
IM3	Fine	Rough	04:00	7.5	Surface	1.0	0.5	208	22.5	22.5	8.2	8.2	30.3	30.3	90.1	90.1	6.6	6.6	13.6	20		83		86	819388	806021	<0.2	0.4	0.5	
						1.0	0.5	205	22.5		8.2		30.3		90.1		6.6	6.6	13.6		20		83							
					Middle	3.8	0.5	197	22.4	22.4	8.2	8.2	30.3	30.4	88.9	88.9	6.5	6.5	10.8	13.3	21	21	86				86			
						3.8	0.5	191	22.4		8.2		30.4		88.9		6.5	6.5	10.8		20		86							
					Bottom	6.5	0.5	202	22.4	22.4	8.2	8.2	30.4	30.4	87.4		6.4	6.4	15.4		22		90							
					6.5	0.5	207	22.4		8.2		30.4		87.4		6.4	6.4	15.4		20					<0.2	0.5				
IM4	Fine	Rough	04:14	8.2	Surface	1.0	0.5	183	22.4	22.4	8.2	8.2	30.5	30.5	89.3	89.4	6.5	6.5	8.2	12		80		83	819562	805015	<0.2	0.4	0.5	
						1.0	0.5	177	22.4		8.2		30.5		89.4		6.5	6.5	8.3		13		80							
					Middle	4.1	0.6	194	22.3	22.3	8.2	8.2	30.5	30.5	88.7	88.7	6.5	6.5	10.6	10.9	14	14	83				83			
						4.1	0.6	197	22.3		8.2		30.5		88.7		6.5	6.5	10.8		14		83							
					Bottom	7.2	0.6	190	22.3	22.3	8.2	8.2	30.5	30.5	88.4	88.4	6.4	6.4	13.8		14		87							
					7.2	0.6	183	22.3		8.2		30.5		88.4		6.4	6.4	13.8		16					<0.2	0.5				
IM5	Fine	Rough	04:32	7.3	Surface	1.0	0.6	186	22.8	22.8	8.2	8.2	30.6	30.6	86.6	86.6	6.3	6.3	8.0	13		82		86	820548	804905	<0.2	0.6	0.5	
						1.0	0.5	181	22.8		8.2		30.6		86.6		6.3	6.3	8.0		13		82							
					Middle	3.7	0.5	205	22.7	22.7	8.2	8.2	30.6	30.7	86.8	86.8	6.3	6.3	8.8	8.2	12	14	86				86			
						3.7	0.5	198	22.7		8.2		30.7		86.8		6.3	6.3	8.8		12		86							
					Bottom	6.3	0.5	183	22.5	22.5	8.2	8.2	30.9	30.9	87.5		6.3	6.3	7.8		14		91							
					6.3	0.5	180	22.5		8.2		30.9		87.5		6.3	6.3	7.8		21					<0.2	0.5				
IM6	Fine	Rough	04:43	7.7	Surface	1.0	0.4	187	22.6	22.6	8.2	8.2	30.5	30.5	87.7	87.7	6.4	6.4	9.9	16		81		85	821069	805824	<0.2	0.5	0.5	
						1.0	0.4	187	22.6		8.2		30.5		87.7		6.4	6.4	9.9		16		82							
					Middle	3.9	0.5	213	22.4	22.4	8.2	8.2	30.6	30.6	87.8	87.8	6.4	6.4	10.9	11.0	16	17	84				84			
						3.9	0.4	218	22.4		8.2		30.6		87.8		6.4	6.4	10.9		16		85							
					Bottom	6.7	0.5	189	22.4	22.4	8.2	8.2	30.8	31.1	87.8		6.4	6.4	12.2		23		88							
					6.7	0.5	186	22.4		8.2		31.4		87.8		6.4	6.4	12.2		16					<0.2	0.6				
IM7	Fine	Rough	04:57	7.9	Surface	1.0	0.5	208	22.5	22.5	8.2	8.2	30.5	30.5	87.7	87.7	6.4	6.4	9.5	16		83		88	821356	806822	<0.2	0.5	0.5	
						1.0	0.4	210	22.5		8.2		30.5		87.7		6.4	6.4	9.4		17		83							
					Middle	4.0	0.5	203	22.5	22.5	8.2	8.2	30.4	30.4	88.8	88.8	6.5	6.5	10.6	10.6	17	17	89				89			
						4.0	0.5	196	22.5		8.2		30.4		88.8		6.5	6.5	10.5		15		90							
					Bottom	6.9	0.4	196	22.5	22.5	8.2	8.2	30.1	30.1	89.2		6.5	6.5	11.7		16		91							
					6.9	0.5	200	22.5		8.2		30.1		89.2		6.5	6.5	11.7		18					<0.2	0.4				
IM8	Cloudy	Moderate	04:24	7.5	Surface	1.0	0.5	185	23.2	23.2	8.0	8.0	30.4	30.4	90.3	90.3	6.5	6.5	6.3	7		86		87	821677	807828	<0.2	1.0	0.9	
						1.0	0.5	180	23.2		8.0		30.4		90.3		6.5	6.5	6.4		8		85							
					Middle	3.8	0.5	171	23.1	23.1	8.0	8.0	30.4	30.4	90.6	90.7	6.5	6.5	6.9	6.7	6	7	87				88			
						3.8	0.5	174	23.1		8.0		30.4		90.7		6.5	6.5	6.9		8		88							
					Bottom	6.5	0.5	168	23.1	23.1	8.0	8.0	30.4	30.4	91.4	91.5	6.6	6.6	6.8		6		89							
					6.5	0.5	169	23.1		8.0		30.4		91.6		6.6	6.6	6.7		7					<0.2	1.3				

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

Water Quality Monitoring

Water Quality Monitoring Results on 18 November 23 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	04:20	7.0	Surface	1.0	0.5	156	23.3	23.3	8.0	8.0	30.6	30.6	91.6	91.7	6.6	6.6	7.3	7.8	5	8	85	88	822076	808789	<0.2	0.9				
						1.0	0.5	161	23.3	23.3	8.0	8.0	30.6	30.6	91.8		6.6	6.6	7.4		6		86	1.0								
					Middle	3.5	0.6	142	23.2	23.2	8.0	8.0	30.6	30.6	92.7	92.8	6.6	6.7	8.1	7	7	87	87	<0.2			0.6					
						3.5	0.6	147	23.2	23.2	8.0	8.0	30.6	30.6	92.8		6.7	6.7	8.2		8		87	0.6								
					Bottom	6.0	0.5	150	23.2	23.2	8.0	8.0	30.6	30.6	93.7	94.0	6.7	6.8	8.1	9	9	90	90	<0.2			1.0					
						6.0	0.5	142	23.2	23.2	8.0	8.0	30.6	30.6	94.3		6.8	6.8	7.9	10	10	91	91	<0.2			1.0					
IM10	Cloudy	Moderate	04:13	7.7	Surface	1.0	0.7	119	23.4	23.4	8.0	8.0	30.8	30.8	91.6	91.7	6.5	6.6	8.2	9.7	7	7	86	85	822250	809829	<0.2	0.6				
						1.0	0.7	118	23.4	23.4	8.0	8.0	30.8	30.8	91.8		6.6	6.6	8.3		7		85	0.6								
					Middle	3.9	0.6	129	23.3	23.3	8.0	8.0	30.8	30.8	93.4	93.5	6.7	6.7	9.9	8	7	87	89	<0.2			0.6					
						3.9	0.6	121	23.3	23.3	8.0	8.0	30.8	30.8	93.6		6.7	6.7	10.1	6	6	89	89	<0.2			0.6					
					Bottom	6.7	0.6	109	23.3	23.3	8.0	8.0	30.8	30.8	95.0	95.1	6.8	6.8	10.8	7	7	90	90	<0.2			0.6					
						6.7	0.6	114	23.3	23.3	8.0	8.0	30.8	30.8	95.1		6.8	6.8	10.8	7	7	89	89	<0.2			1.1					
IM11	Cloudy	Moderate	04:06	7.6	Surface	1.0	0.7	98	22.9	22.9	8.0	8.0	30.8	30.8	94.3	94.5	6.8	6.9	7.7	8.4	6	7	86	88	821522	810565	<0.2	0.6				
						1.0	0.7	101	22.9	22.9	8.0	8.0	30.8	30.8	94.6		6.8	6.8	7.8		6		85	0.6								
					Middle	3.8	0.8	86	22.9	22.9	8.1	8.1	30.8	30.8	95.8	95.9	6.9	6.9	8.5	7	7	88	87	<0.2			1.0					
						3.8	0.8	92	22.9	22.9	8.1	8.1	30.8	30.8	95.9		6.9	6.9	8.6		7		87	0.6								
					Bottom	6.6	0.8	80	22.9	22.9	8.1	8.1	30.8	30.8	96.3	96.5	6.9	7.0	9.0	7	7	90	90	<0.2			0.8					
						6.6	0.8	83	22.9	22.9	8.1	8.1	30.8	30.8	96.7		7.0	7.0	9.0		7		91	0.9								
IM12	Cloudy	Moderate	04:02	8.0	Surface	1.0	0.8	96	22.9	22.9	8.0	8.0	30.7	30.7	91.3	91.4	6.6	6.6	4.7	6.4	8	9	85	86	821147	811520	<0.2	1.0				
						1.0	0.8	98	22.9	22.9	8.0	8.0	30.7	30.7	91.4		6.6	6.6	4.8		9		86	0.6								
					Middle	4.0	0.8	102	22.8	22.8	8.0	8.0	30.7	30.7	92.1	92.2	6.6	6.6	6.0	9	10	87	88	<0.2			0.6					
						4.0	0.8	103	22.8	22.8	8.0	8.0	30.7	30.7	92.2		6.6	6.6	6.1	11	9	88	88	<0.2			0.6					
					Bottom	7.0	0.8	125	22.8	22.8	8.0	8.0	30.7	30.7	94.1	94.2	6.8	6.8	8.3	9	9	90	90	<0.2			1.0					
						7.0	0.8	127	22.8	22.8	8.0	8.0	30.7	30.7	94.3		6.8	6.8	8.3	11	9	91	91	<0.2			1.0					
SR1A	Cloudy	Moderate	03:38	5.9	Surface	1.0	0.0	171	23.1	23.1	8.0	8.0	30.7	30.7	89.4	89.5	6.4	6.4	6.0	5.0	6	-	-	-	-	819978	812661	<0.2	1.0			
						1.0	0.0	171	23.1	23.1	8.0	8.0	30.7	30.7	89.5		6.4	6.4	5.9		6		-	-								
					Middle	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-			-	-	-	-	
						3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
					Bottom	4.9	-	196	23.1	23.1	8.0	8.0	30.7	30.7	91.2	91.4	6.6	6.6	4.1	7	7	-	-	-	-			-	-	-	-	
						4.9	0.0	193	23.1	23.1	8.0	8.0	30.7	30.7	91.5		6.6	6.6	4.0	6	6	-	-	-	-			-	-	-	-	
SR2	Cloudy	Moderate	03:26	4.9	Surface	1.0	0.5	58	23.1	23.1	8.0	8.0	30.8	30.8	95.5	95.6	6.9	6.9	8.6	8.4	8	7	86	85	821474	814152	<0.2	1.0				
						1.0	0.5	60	23.1	23.1	8.0	8.0	30.8	30.8	95.7		6.9	6.9	8.7		6		85	1.0								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-			-	-	-	<0.2	1.0	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.9	0.5	37	23.0	23.0	8.0	8.0	30.8	30.8	97.7	97.9	7.0	7.0	8.2	7	7	90	91	<0.2			0.9					
						3.9	0.4	32	23.0	23.0	8.0	8.0	30.8	30.8	98.0		7.0	7.0	8.2	6	6	91	91	<0.2			1.1					
SR3	Cloudy	Moderate	04:29	8.4	Surface	1.0	0.7	151	23.4	23.4	8.0	8.0	30.0	30.0	88.5	88.5	6.3	6.3	7.9	9.4	8	8	-	-	822159	807557	-	-				
						1.0	0.7	156	23.4	23.4	8.0	8.0	30.0	30.0	88.4		6.3	6.3	9.0	6	6	-	-									
					Middle	4.2	0.7	163	23.4	23.4	8.0	8.0	30.1	30.1	88.4	88.4	6.3	6.3	11.3	7	7	-	-	-			-	-	-	-	-	
						4.2	0.7	158	23.4	23.4	8.0	8.0	30.1	30.1	88.4		6.3	6.3	11.3	8	8	-	-	-			-	-	-	-	-	
					Bottom	7.4	0.7	164	23.4	23.4	8.0	8.0	30.1	30.1	88.9	89.0	6.4	6.4	8.7	8	8	-	-	-			-	-	-	-	-	-
						7.4	0.6	157	23.4	23.4	8.0	8.0	30.1	30.1	89.0		6.4	6.4	8.1	8	8	-	-	-			-	-	-	-	-	-
SR4A	Fine	Rough	02:55	9.3	Surface	1.0	0.0	88	21.8	21.8	8.2	8.2	30.5	30.5	85.6	85.6	6.3	6.3	6.6	7.4	10	11	-	-	817168	807826	-	-				
						1.0	0.0	86	21.8	21.8	8.2	8.2	30.5	30.5	85.6		6.3	6.3	6.7		15		-	-								
					Middle	4.7	0.1	107	21.8	21.8	8.2	8.2	30.4	30.5	85.4	85.4	6.3	6.3	7.6	12	13	-	-	-			-	-	-	-	-	
						4.7	0.1	101	21.8	21.8	8.2	8.2	30.4	30.4	85.4		6.3	6.3	7.5		13		-	-			-	-	-	-	-	
					Bottom	8.3	0.1	96	21.8	21.8	8.2	8.2	30.4	30.4	85.4	85.4	6.3	6.3	8.1	9	9	-	-	-			-	-	-	-	-	-
						8.3	0.0	103	21.8	21.8	8.2	8.2	30.4	30.4	85.4		6.3	6.3	8.1	9	9	-	-	-			-	-	-	-	-	-
SR5A	Fine	Rough	02:38	4.8	Surface	1.0	0.3	103	22.0	22.0	8.2	8.2	30.4	30.4	85.3	85.3	6.3	6.3	10.1	11.5	14	17	-	-	816576	810710	-	-				
						1.0	0.3	105	22.0	22.0	8.2	8.2	30.4	30.4	85.3		6.3	6.3	10.2		16		-	-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.8	0.3	106	21.9	21.9	8.2	8.2	30.4	30.4	85.3	85.3	6.3	6.3	12.8	20	20	-	-	-			-	-	-	-	-	-
						3.8	0.3	104	21.9	21.9	8.2	8.2	30.4	30.4	85.3		6.3	6.3	12.8	16	16	-	-	-			-	-	-	-	-	-
SR6	Fine	Rough	02:21	5.2	Surface	1.0	0.2	63	22.3	22.3	8.1	8.1	30.5	30.5	84.4	84.4	6.1	6.1	4.5	6.1	14	14	-	-	817884	814655	-	-				
						1.0	0.2	62	22.3	22.3	8.1	8.1	30.5	30.5	84.3		6.1	6.1	4.5		14		-	-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	4.2	0.2	46	22.3	22.3	8.1	8.1	30.6	30.6	84.0	84.0	6.1	6.1	7.6	14	14	-	-	-			-	-	-	-	-	-
						4.2	0.1	50	22.3	22.3	8.1	8.1	30.6	30.6	84.0		6.1	6.1	7.7		14		-	-			-	-	-	-	-	
SR7	Cloudy	Moderate	02:38	16.8	Surface	1.0	1.0	66	24.1	24.1	8.0	8.0	31.1	31.1	85.9	85.9	6.0	6.1	4.2	5.0	7	8	-	-	823634	823731	-	-				
						1.0	1.1	65	24.1	24.1	8.0	8.0	31.1	31.1	85.9		6.0	6.1	4.3		7		-	-								
					Middle	8.4	1.0	85	24.2	24.2	8.0	8.0	31.1	31.1	86.4	86.5	6.1	6.1	5.7	9	9	-	-	-			-	-	-	-	-	
						8.4	1.0	79	24.2	24.2	8.0	8.0	31.1	31.1	86.5		6.1	6.1	5.7		9		-	-			-	-	-	-	-	
					Bottom	15.8	1.1	70	24.1	24.1	8.0	8.0	31.1	31.1	88.6	88.8	6.2	6.3	5.1	8	8	-	-	-			-	-	-	-	-	-
						15.8	1.1	62	24.1	24.1	8.0	8.0	31.1	31.1	88.9		6.2	6.3	5.1		8		-	-			-	-	-	-	-	-
SR8	Cloudy	Moderate	03:56	5.0	Surface	1.0	-	-	23.0	23.0	8.0	8.0	30.7	30.7	91.6	91.7	6.6	6.6	5.0	5.1	7	7	-	-	820388	811602	-	-				
						1.0	-	-	23.0	23.0	8.0	8.0	30.7	30																		

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Water Quality Monitoring

Water Quality Monitoring Results on

18 November 23 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	Sunny	Rough	16:03	7.1	Surface	1.0	0.1	43	22.2	22.2	8.2	8.2	30.4	30.4	88.4	88.4	6.5	6.5	7.3		11		82		87		815612	804268	<0.2	<0.2	0.4	0.4		
						1.0	0.1	50	22.2			88.4		7.2		9		82		87		815612	804268	<0.2	<0.2	0.4	0.4							
					Middle	3.6	0.0	40	22.1	22.1	8.2	8.2	30.4	30.4	88.6	88.6	6.5	6.5	10.8	9.9	10	11	86		87		815612	804268	<0.2	<0.2	0.4	0.4		
						3.6	0.0	42	22.1			88.5		10.8		12		87		86		87		815612	804268	<0.2	<0.2	0.4	0.4					
					Bottom	6.1	0.0	58	22.2	22.2	8.2	8.2	30.4	30.4	88.3	88.3	6.5	6.5	11.7		13		91		91		87		815612	804268	<0.2	<0.2	0.4	0.4
						6.1	0.0	64	22.2			88.3		11.8		11		91		91		91		87		815612	804268	<0.2	<0.2	0.4	0.4			
C2	Cloudy	Moderate	14:31	11.4	Surface	1.0	0.2	358	23.5	23.5	8.0	8.0	29.9	30.0	94.2	94.4	6.8	6.9	4.9		9		85		87		825696	806958	<0.2	<0.2	0.6	0.7		
						1.0	0.1	356	23.5			94.5		4.9		7		84		85		825696	806958	<0.2	<0.2	0.6	0.6							
					Middle	5.7	0.2	346	23.5	23.5	8.0	8.0	30.0	30.0	95.4	95.6	6.9	6.9	6.0	5.8	8	7	87		88		825696	806958	<0.2	<0.2	0.6	0.6		
						5.7	0.2	352	23.5			95.7		6.1		7		88		87		88		825696	806958	<0.2	<0.2	0.6	0.6					
					Bottom	10.4	0.1	341	23.5	23.5	8.0	8.0	30.0	30.0	96.7	97.0	7.0	7.0	6.3		5		89		90		87		825696	806958	<0.2	<0.2	0.6	1.3
						10.4	0.1	344	23.5			97.2		6.3		6		90		90		90		87		825696	806958	<0.2	<0.2	1.3				
C3	Cloudy	Moderate	16:19	11.3	Surface	1.0	0.1	71	24.0	24.0	8.0	8.0	31.4	31.4	87.9	88.0	6.3	6.3	4.7		7		83		86		822103	817810	<0.2	<0.2	0.7	0.8		
						1.0	0.2	76	24.0			88.1		4.7		6		84		86		822103	817810	<0.2	<0.2	1.2								
					Middle	5.7	0.1	90	24.0	24.0	8.0	8.0	31.4	31.4	88.9	89.1	6.3	6.3	5.8	5.7	7	7	86		87		822103	817810	<0.2	<0.2	0.6	0.6		
						5.7	0.1	86	24.0			89.3		5.8		6		87		86		87		822103	817810	<0.2	<0.2	0.6	0.6					
					Bottom	10.3	0.1	86	24.0	24.0	8.0	8.0	31.4	31.4	91.1	91.1	6.5	6.5	6.7		6		90		91		86		822103	817810	<0.2	<0.2	1.2	
						10.3	0.0	88	24.0			91.1		6.7		8		88		90		91		86		822103	817810	<0.2	<0.2	0.7				
IM1	Sunny	Rough	15:43	6.2	Surface	1.0	0.0	23	22.4	22.4	8.2	8.2	31.1	31.1	88.5	88.5	6.4	6.4	8.6		17		83		87		818370	806462	<0.2	<0.2	0.4	0.5		
						1.0	0.1	25	22.4			88.5		8.6		19		83		87		818370	806462	<0.2	<0.2	0.6								
					Middle	3.1	0.0	27	22.4	22.4	8.2	8.2	31.1	31.1	88.3	88.3	6.4	6.4	9.4	11.0	23	21	87		87		818370	806462	<0.2	<0.2	0.5			
						3.1	-	24	22.4			88.3		9.4		25		87		87		87		818370	806462	<0.2	<0.2	0.5						
					Bottom	5.2	0.1	15	22.4	22.4	8.2	8.2	31.1	31.2	88.2	88.2	6.4	6.4	14.9		23		91		91		87		818370	806462	<0.2	<0.2	0.5	
						5.2	0.1	9	22.4			88.2		14.9		21		91		91		91		87		818370	806462	<0.2	<0.2	0.5				
IM2	Sunny	Rough	15:34	6.7	Surface	1.0	0.1	22	22.3	22.3	8.2	8.2	31.1	31.1	88.2	88.2	6.4	6.4	9.6		19		83		88		818853	806172	<0.2	<0.2	0.4	0.4		
						1.0	0.1	19	22.3			88.2		9.6		19		83		88		818853	806172	<0.2	<0.2	0.5								
					Middle	3.4	0.1	34	22.3	22.3	8.2	8.2	31.1	31.1	88.3	88.3	6.4	6.4	11.6	11.4	18	20	88		89		818853	806172	<0.2	<0.2	0.4			
						3.4	0.1	32	22.3			88.3		11.6		19		89		88		89		818853	806172	<0.2	<0.2	0.4						
					Bottom	5.7	0.1	26	22.3	22.3	8.2	8.2	31.1	31.1	88.1	88.1	6.4	6.4	12.9		20		91		91		88		818853	806172	<0.2	<0.2	0.5	
						5.7	0.1	20	22.3			88.1		13.0		22		91		91		91		88		818853	806172	<0.2	<0.2	0.4				
IM3	Sunny	Rough	15:24	6.9	Surface	1.0	0.1	60	22.6	22.6	8.2	8.2	30.9	30.9	88.0	88.0	6.4	6.4	6.9		13		85		88		819398	806019	<0.2	<0.2	0.5	0.5		
						1.0	0.1	55	22.6			88.0		6.9		12		85		88		819398	806019	<0.2	<0.2	0.4								
					Middle	3.5	0.1	57	22.5	22.5	8.2	8.2	30.9	30.9	88.2	88.2	6.4	6.4	7.3	9.1	12	14	88		88		819398	806019	<0.2	<0.2	0.5			
						3.5	0.1	60	22.5			88.2		7.4		12		88		88		88		819398	806019	<0.2	<0.2	0.5						
					Bottom	5.9	0.1	54	22.5	22.5	8.2	8.2	30.8	30.9	87.6	87.6	6.4	6.4	12.9		12		90		90		88		819398	806019	<0.2	<0.2	0.4	
						5.9	0.1	47	22.5			87.6		12.9		21		90		90		90		88		819398	806019	<0.2	<0.2	0.4				
IM4	Sunny	Rough	15:15	7.9	Surface	1.0	0.2	42	22.3	22.3	8.2	8.2	29.9	29.9	89.1	89.1	6.5	6.5	9.4		16		82		87		819564	805032	<0.2	<0.2	0.5	0.5		
						1.0	0.2	40	22.3			89.1		9.4		17		82		87		819564	805032	<0.2	<0.2	0.5								
					Middle	4.0	0.1	60	22.3	22.3	8.2	8.2	30.0	30.0	88.1	88.1	6.4	6.4	10.6	11.3	17	17	87		87		819564	805032	<0.2	<0.2	0.4			
						4.0	0.1	62	22.3			88.1		10.7		16		87		87		87		819564	805032	<0.2	<0.2	0.4						
					Bottom	6.9	0.1	38	22.3	22.3	8.2	8.2	29.7	30.3	88.2	88.2	6.5	6.5	13.9		17		92		92		87		819564	805032	<0.2	<0.2	0.5	
						6.9	0.1	32	22.3			88.2		13.9		19		92		92		92		87		819564	805032	<0.2	<0.2	0.5				
IM5	Sunny	Rough	15:03	7.8	Surface	1.0	0.1	35	22.6	22.6	8.2	8.2	29.8	29.9	87.4	87.4	6.4	6.4	11.6		17		84		87		820555	804942	<0.2	<0.2	0.4	0.4		
						1.0	0.1	33	22.6			87.4		11.6		15		84		87		820555	804942	<0.2	<0.2	0.4								
					Middle	3.9	0.1	15	22.6	22.6	8.2	8.2	29.9	29.9	86.9	86.9	6.3	6.3	9.0	10.7	17	19	87		87		820555	804942	<0.2	<0.2	0.4			
						3.9	0.2	21	22.6			86.9		9.0		15		87		87		87		820555	804942	<0.2	<0.2	0.4						
					Bottom	6.8	0.1	15	22.5	22.5	8.2	8.2	30.6	30.6	87.9	87.9	6.4	6.4	11.4		27		90		90		87		820555	804942	<0.2	<0.2	0.4	
						6.8	0.1	10	22.5			87.9		11.5		25		90		90		90		87		820555	804942	<0.2	<0.2	0.5				
IM6	Sunny	Rough	14:48	7.1	Surface	1.0	0.2	25	22.5	22.5	8.2	8.2	29.9	29.9	88.7	88.7	6.5	6.5	10.2		15		83		87		821050	805845	<0.2	<0.2	0.5	0.4		
						1.0	0.2	18	22.5			88.7		10.1		14		83		87		821050	805845	<0.2	<0.2	0.5								
					Middle	3.6	0.1	53	22.5	22.5	8.2	8.2	30.0	30.0	88.3	88.3	6.4	6.4	12.2	11.6	17	16	86		86		821050	805845	<0.2	<0.2	0.4			
						3.6	0.1	50	22.5			88.3		12.2		15		86		86		86		821050	805845	<0.2	<0.2	0.4						
					Bottom	6.1	0.2	43	22.4	22.4	8.2	8.2	30.0	30.0	88.7	88.7	6.5	6.5	12.5		17		91		91		87		821050	805845	<0.2	<0.2	0.4	
						6.1	0.2	36	22.4			88.7		12.5		18		91		91		91		87		821050	805845	<0.2	<0.2	0.4				
IM7	Sunny	Rough	14:31	7.4	Surface	1.0	0.2	36	22.5	22.5	8.2	8.2	29.9	29.9	87.9	87.9	6.4	6.4	9.2		16		83		87		821352	806852	<0.2	<0.2	0.4	0.4		
						1.0	0.2	39	22.5			87.9		9.2		16		83		87		821352	806852	<0.2	<0.2	0.4								
					Middle	3.7	0.2	28	22.5	22.5	8.2	8.2	29.9	29.9	87.6	87.6	6.4	6.4	9.9	9.8	14	15	88		88		821352	806852	<0.2	<0.2	0.5			
						3.7	0.2	27	22.5			87.6		9.8		15																		

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

Water Quality Monitoring

Water Quality Monitoring Results on

18 November 23 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	15:08	8.5	Surface	1.0	0.1	17	23.4	23.4	8.1	8.1	30.6	30.6	89.9	90.0	6.5	6.7	6.8		5		86		822102	808788	<0.2	1.1	0.8					
						1.0	0.1	20	23.4		8.1				90.0		6.5	6.8			6		87											
					Middle	4.3	0.1	26	23.4	23.4	8.1	8.1	30.8	30.8	94.1	94.3	6.8	8.9			6	6	89											
						4.3	0.0	19	23.4		8.1				94.4		6.8	8.9					90											
					Bottom	7.5	0.1	53	23.4	23.4	8.1	8.1	30.8	30.8	96.0	96.4	6.9	10.5			5		85											
						7.5	0.1	46	23.4		8.1				96.8		7.0	10.4					84											
IM10	Cloudy	Moderate	15:17	8.1	Surface	1.0	0.1	345	23.5	23.5	8.1	8.1	30.8	30.8	90.3	90.4	6.5	6.6	8.7		6		87		822235	809855	<0.2	1.0	0.8					
						1.0	0.1	347	23.5		8.1				90.5		6.5	8.7			5		86											
					Middle	4.1	0.0	336	23.5	23.5	8.1	8.1	30.8	30.8	93.1	93.5	6.7	9.6			6	5	89											
						4.1	0.0	337	23.5		8.1				93.8		6.7	9.6					90											
					Bottom	7.1	0.0	344	23.5	23.5	8.1	8.1	30.8	30.8	95.9	96.3	6.9	10.6			5		85											
						7.1	0.1	344	23.5		8.1				96.7		7.0	10.6					84											
IM11	Cloudy	Moderate	15:22	8.5	Surface	1.0	0.1	337	23.5	23.5	8.1	8.1	30.9	30.9	89.6	89.7	6.4	6.5	6.1		6		86		821487	810538	<0.2	0.9	1.1					
						1.0	0.1	336	23.5		8.1				89.8		6.5	6.1			6		88											
					Middle	4.3	0.1	312	23.4	23.4	8.1	8.1	30.9	30.9	90.4	90.5	6.5	6.8			8	6	89											
						4.3	0.1	306	23.4		8.1				90.6		6.5	6.8					88											
					Bottom	7.5	0.1	309	23.4	23.4	8.1	8.1	30.9	30.9	96.4	96.7	6.9	8.0			6		84											
						7.5	0.1	312	23.4		8.1				97.0		7.0	8.0					85											
IM12	Cloudy	Moderate	15:28	8.6	Surface	1.0	0.0	349	23.5	23.5	8.1	8.1	30.9	30.9	89.6	89.7	6.4	6.5	8.6		6		86		821157	811519	<0.2	1.1	1.0					
						1.0	0.0	347	23.5		8.1				89.8		6.5	8.6			5		86											
					Middle	4.3	0.0	328	23.4	23.4	8.1	8.1	30.9	30.9	90.5	90.5	6.5	10.2			6	6	89											
						4.3	0.1	332	23.4		8.1				90.5		6.5	10.2					90											
					Bottom	7.6	0.1	321	23.4	23.4	8.1	8.1	30.8	30.8	96.5	96.7	7.0	10.8			5		85											
						7.6	0.1	314	23.4		8.1				96.8		7.0	10.8					84											
SR1A	Cloudy	Moderate	15:48	5.5	Surface	1.0	0.0	1	23.3	23.3	8.0	8.0	30.8	30.8	93.5	93.5	6.8	6.8	6.8		6	-	-		819973	812658	-	-	-					
						1.0	0.0	3	23.3		8.0				93.5		6.8	6.9			6	-	-											
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-						-				
						2.8	-	-	-		-				-	-	-	-			-	-	-	-						-				
					Bottom	4.5	0.0	5	23.3	23.3	8.0	8.0	30.8	30.8	95.0	95.4	6.9	7.1			6	-	-	-						-				
						4.5	0.1	359	23.3		8.0				95.7		6.9	7.1					-	-						-	-			
SR2	Cloudy	Moderate	15:59	5.2	Surface	1.0	0.0	101	23.5	23.5	8.1	8.1	30.8	30.8	94.2	94.4	6.8	6.8	7.0		5		86		821454	814159	<0.2	0.7	1.0					
						1.0	0.0	102	23.5		8.1				94.5		6.8	7.0			5		87											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-						-				
						-	-	-	-		-				-	-	-	-			-	-	-	-						-				
					Bottom	4.2	0.1	112	23.5	23.5	8.1	8.1	30.8	30.8	91.8	91.8	6.6	6.9			6		88											
						4.2	0.1	113	23.5		8.1				91.8		6.6	6.9					87											
SR3	Cloudy	Moderate	14:56	8.4	Surface	1.0	0.1	7	23.6	23.6	8.0	8.0	29.9	29.9	89.4	89.5	6.5	6.5	5.8		6	-	-		822133	807560	-	-	-					
						1.0	0.1	1	23.6		8.0				89.5		6.5	5.7			5	-	-	-										
					Middle	4.2	0.2	1	23.6	23.6	8.0	8.0	29.9	29.9	90.6	90.9	6.5	7.1			5	6	-	-						-				
						4.2	0.2	1	23.6		8.0				91.2		6.6	7.1					-	-						-	-			
					Bottom	7.4	0.1	6	23.5	23.5	8.0	8.0	29.9	29.9	93.5	93.7	6.8	8.3			7	-	-	-						-				
						7.4	0.1	7	23.5		8.0				93.8		6.8	8.3					-	-						-	-			
SR4A	Sunny	Moderate	16:26	8.9	Surface	1.0	0.0	118	22.3	22.3	8.2	8.2	30.4	30.4	89.7	89.7	6.5	6.5	5.4		9	-	-		817198	807817	-	-	-					
						1.0	0.0	123	22.3		8.2				89.7		6.5	5.4			9	-	-	-										
					Middle	4.5	0.1	132	22.3	22.3	8.2	8.2	30.3	30.3	89.2	89.2	6.5	6.2			8	8	-	-						-				
						4.5	0.0	139	22.3		8.2				89.2		6.5	6.3			7	-	-	-						-				
					Bottom	7.9	0.0	110	22.3	22.3	8.2	8.2	30.4	30.4	88.8	88.9	6.5	6.1			8	-	-	-						-				
						7.9	0.0	103	22.3		8.2				88.9		6.5	6.2					-	-						-	-			
SR5A	Sunny	Moderate	16:44	4.3	Surface	1.0	0.1	115	22.3	22.3	8.2	8.2	30.5	30.5	88.2	88.2	6.4	6.4	5.6		7	-	-		816612	810715	-	-	-					
						1.0	0.1	121	22.3		8.2				88.2		6.4	5.6			8	-	-	-										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-						-				
						-	-	-	-		-				-	-	-	-			-	-	-	-						-				
					Bottom	3.3	0.0	134	22.0	22.0	8.2	8.2	30.5	30.5	86.9	86.9	6.4	5.3			7	-	-	-						-				
						3.3	0.0	128	22.0		8.2				86.9		6.4	5.2					-	-						-	-			
SR6	Sunny	Moderate	17:03	4.8	Surface	1.0	0.0	74	23.6	23.6	8.2	8.2	30.9	30.9	87.1	87.1	6.4	6.4	3.3		8	-	-		817908	814686	-	-	-					
						1.0	0.0	77	23.6		8.2				87.1		6.4	3.3			8	-	-	-										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-						-				
						-	-	-	-		-				-	-	-	-			-	-	-	-						-				
					Bottom	3.8	0.0	62	23.4	23.4	8.2	8.2	30.8	30.8	84.7	84.7	6.0	3.9			7	-	-	-						-				
						3.8	0.0	63	23.4		8.2				84.7		6.0	3.9					-	-						-	-			
SR7	Cloudy	Moderate	16:50	16.4	Surface	1.0	0.0	298	23.9	23.9	8.0	8.0	31.4	31.4	88.9	89.1	6.3	6.4	3.7		5	-	-		823613	823725	-	-	-					
						1.0	0.0	291	23.9		8.0				89.2		6.4	3.7			5	-	-	-										
					Middle	8.2	0.0	284	23.9	23.9	8.0	8.0	31.4	31.4	89.8	90.0	6.4	4.1			5	-	-	-						-				
						8.2	0.0	290	23.9		8.0				90.1		6.4	4.1					-	-						-	-			
					Bottom	15.4	0.0	291	23.9	23.9	8.0	8.0	31.4	31.4	92.0	92.1	6.6	5.1			5	-	-	-						-				
						15.4	0.0	291	23.9		8.0				92.2		6.6	5.1					-	-						-	-			
SR8	Cloudy	Moderate	15:41	5.1	Surface	1.0	-	-	23.5	23.5	8.1	8.1	30.8	30.8	90.5	90.5	6.5	6.5	6.8		6	-	-		820371	811642	-	-	-					
						1.0	-	-	23.5		8.1				90.5		6.5	6.8			5	-	-	-										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-						-				
						-	-	-	-		-				-	-	-	-			-	-	-	-						-				
					Bottom	4.1	-	-	23.4	23.4	8.1	8.1	30.8	30.8	96.6	97.1	7.0	7.7			5	-	-	-						-				
						4.1	-	-	23.4		8.1				97.5		7.0	7.7					-	-						-	-			

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 November 23 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	Fine	Moderate	07:49	7.6	Surface	1.0	0.3	215	22.6	22.6	8.1	8.1	30.7	30.7	86.8	86.8	6.3	6.3	4.1	4.1	8	8	83	83	815637	804267	<0.2	0.8	0.7	
						1.0	0.2	208	22.6	8.1	8.1	30.7	30.7	86.8	86.8	6.3	6.3	4.1	10	83										
					Middle	3.8	0.2	204	22.7	22.7	8.1	8.1	30.7	30.7	86.7	86.7	6.3	6.3	5.2	5.2	8	8	86	86						
						3.8	0.2	198	22.7	22.7	8.1	8.1	30.7	30.7	86.7	86.7	6.3	6.3	5.2	9	86									
					Bottom	6.6	0.2	231	22.7	22.7	8.1	8.1	30.8	30.8	87.0	87.1	6.3	6.3	6.8	6.8	8	8	90	90						
						6.6	0.2	226	22.7	22.7	8.1	8.1	30.8	30.8	87.2	87.1	6.3	6.3	6.8	9	90									
C2	Cloudy	Moderate	08:23	11.7	Surface	1.0	0.3	183	23.2	23.2	8.0	8.0	30.3	30.3	89.0	89.0	6.4	6.4	2.3	2.3	4	4	84	84	825669	806930	<0.2	0.5	0.5	
						1.0	0.4	187	23.2	23.2	8.0	8.0	30.3	30.3	89.0	89.0	6.4	6.4	2.4	6	85									
					Middle	5.9	0.3	156	23.1	23.1	8.0	8.0	30.3	30.3	88.8	88.8	6.4	6.4	2.5	6	87									
						5.9	0.4	153	23.1	23.1	8.0	8.0	30.3	30.3	88.8	88.8	6.4	6.4	2.4	5	88									
					Bottom	10.7	0.3	192	23.1	23.1	8.0	8.0	30.3	30.3	88.9	88.9	6.4	6.4	3.0	4	91									
						10.7	0.3	188	23.1	23.1	8.0	8.0	30.3	30.3	88.9	88.9	6.4	6.4	3.0	5	89									
C3	Cloudy	Moderate	06:08	11.7	Surface	1.0	0.3	31	23.1	23.1	8.0	8.0	30.7	30.7	89.4	89.4	6.4	6.4	2.6	2.6	7	7	86	86	822114	817825	<0.2	0.5	0.6	
						1.0	0.3	31	23.1	23.1	8.0	8.0	30.7	30.7	89.3	89.4	6.4	6.4	2.6	6	85									
					Middle	5.9	0.2	33	23.2	23.2	8.0	8.0	30.8	30.8	89.5	89.5	6.4	6.4	3.6	6	88									
						5.9	0.3	34	23.2	23.2	8.0	8.0	30.8	30.8	89.5	89.5	6.4	6.4	3.6	7	89									
					Bottom	10.7	0.2	24	23.2	23.2	8.0	8.0	30.8	30.8	90.8	90.8	6.5	6.5	5.0	7	90									
						10.7	0.3	28	23.2	23.2	8.0	8.0	30.8	30.8	91.0	90.9	6.5	6.5	5.0	6	91									
IM1	Fine	Moderate	07:56	7.0	Surface	1.0	0.3	197	22.3	22.3	8.1	8.1	30.5	30.6	86.8	86.8	6.3	6.3	3.4	3.4	7	7	82	82	818338	806472	<0.2	0.8	0.7	
						1.0	0.3	192	22.3	22.3	8.1	8.1	30.6	30.6	86.8	86.8	6.3	6.3	3.3	7	82									
					Middle	3.5	0.3	207	22.3	22.3	8.1	8.1	30.6	30.6	86.8	86.8	6.3	6.3	4.9	7	83									
						3.5	0.3	209	22.3	22.3	8.1	8.1	30.6	30.6	86.8	86.8	6.3	6.3	4.9	8	83									
					Bottom	6.0	0.3	198	22.3	22.3	8.1	8.1	30.6	30.6	87.5	87.4	6.4	6.4	5.4	8	88									
						6.0	0.4	200	22.3	22.3	8.1	8.1	30.6	30.6	87.8	87.7	6.4	6.4	5.4	9	88									
IM2	Fine	Moderate	08:04	8.0	Surface	1.0	0.4	216	22.4	22.4	8.1	8.1	30.6	30.7	85.6	85.6	6.2	6.2	4.4	4.4	7	7	80	80	818869	806203	<0.2	0.7	0.7	
						1.0	0.4	216	22.4	22.4	8.1	8.1	30.7	30.7	85.5	85.6	6.2	6.2	4.5	8	80									
					Middle	4.0	0.5	200	22.5	22.5	8.1	8.1	30.7	30.7	85.1	85.1	6.2	6.2	5.1	8	83									
						4.0	0.5	201	22.5	22.5	8.1	8.1	30.7	30.7	85.0	85.1	6.2	6.2	5.1	8	83									
					Bottom	7.0	0.4	201	22.5	22.5	8.1	8.1	30.8	30.8	87.2	87.4	6.3	6.3	6.2	8	90									
						7.0	0.4	203	22.5	22.5	8.1	8.1	30.8	30.8	87.5	87.4	6.3	6.3	6.2	8	90									
IM3	Fine	Moderate	08:13	7.6	Surface	1.0	0.3	221	22.4	22.4	8.1	8.1	29.9	29.9	86.8	86.8	6.3	6.3	2.1	2.1	9	9	83	83	819396	806006	<0.2	0.8	0.8	
						1.0	0.3	223	22.4	22.4	8.1	8.1	29.9	29.9	86.8	86.8	6.3	6.3	2.1	7	83									
					Middle	3.8	0.3	230	22.4	22.4	8.1	8.1	30.0	30.0	86.9	86.9	6.3	6.3	3.6	8	86									
						3.8	0.2	224	22.4	22.4	8.1	8.1	30.0	30.0	86.9	86.9	6.3	6.3	3.5	8	86									
					Bottom	6.6	0.3	227	22.4	22.4	8.1	8.1	29.9	29.9	88.0	88.1	6.4	6.4	4.3	9	90									
						6.6	0.2	225	22.4	22.4	8.1	8.1	29.9	29.9	88.2	88.1	6.4	6.4	4.3	10	90									
IM4	Fine	Moderate	08:17	8.2	Surface	1.0	0.3	242	22.5	22.5	8.1	8.1	30.0	30.0	86.5	86.6	6.3	6.3	4.3	4.3	8	8	80	80	819555	805042	<0.2	0.8	0.7	
						1.0	0.3	248	22.5	22.5	8.1	8.1	30.0	30.0	86.6	86.6	6.3	6.3	4.3	8	80									
					Middle	4.1	0.2	247	22.5	22.5	8.1	8.1	30.0	30.0	86.7	86.8	6.3	6.3	5.1	7	83									
						4.1	0.2	240	22.5	22.5	8.1	8.1	30.0	30.0	86.8	86.8	6.3	6.3	5.1	8	83									
					Bottom	7.2	0.2	233	22.5	22.5	8.1	8.1	30.0	30.0	86.9	86.9	6.3	6.3	6.4	6	87									
						7.2	0.2	237	22.5	22.5	8.1	8.1	30.0	30.0	86.9	86.9	6.3	6.3	6.4	6	87									
IM5	Fine	Moderate	08:21	8.6	Surface	1.0	0.1	248	22.6	22.6	8.1	8.1	30.1	30.1	86.9	86.9	6.3	6.3	2.4	2.4	7	7	82	82	820549	804903	<0.2	0.7	0.6	
						1.0	0.1	255	22.6	22.6	8.1	8.1	30.1	30.1	86.8	86.8	6.3	6.3	2.4	8	82									
					Middle	4.3	0.2	266	22.6	22.6	8.1	8.1	30.1	30.1	86.9	87.0	6.3	6.3	3.3	8	86									
						4.3	0.2	258	22.6	22.6	8.1	8.1	30.1	30.1	87.0	87.0	6.3	6.3	3.3	7	86									
					Bottom	7.6	0.1	244	22.6	22.6	8.1	8.1	30.1	30.1	88.0	88.2	6.4	6.4	4.6	6	91									
						7.6	0.2	240	22.6	22.6	8.1	8.1	30.1	30.1	88.4	88.4	6.4	6.4	4.5	7	91									
IM6	Fine	Moderate	08:26	7.8	Surface	1.0	0.3	239	22.6	22.6	8.1	8.1	30.3	30.3	87.0	87.1	6.3	6.4	3.1	3.1	8	7	82	82	85	821071	805808	<0.2	0.7	0.8
						1.0	0.2	241	22.6	22.6	8.1	8.1	30.3	30.3	87.1	87.1	6.3	6.4	3.1	7	82									
					Middle	3.9	0.3	237	22.6	22.6	8.1	8.1	30.3	30.3	87.8	88.0	6.4	6.4	4.1	8	84									
						3.9	0.2	238	22.6	22.6	8.1	8.1	30.3	30.3	87.8	87.9	6.4	6.4	4.1	8	85									
					Bottom	6.8	0.2	229	22.5	22.5	8.1	8.1	30.3	30.4	88.9	89.0	6.5	6.5	5.1	8	88									
						6.8	0.2	229	22.5	22.5	8.1	8.1	30.4	30.4	89.1	89.0	6.5	6.5	5.2	7	88									
IM7	Fine	Moderate	08:36	8.0	Surface	1.0	0.3	225	22.7	22.7	8.1	8.1	30.3	30.3	87.1	87.1	6.3	6.4	3.2	3.2	8	8	83	83	88	821372	806849	<0.2	0.7	0.8
						1.0	0.4	230	22.7	22.7	8.1	8.1	30.3	30.3	87.1	87.1	6.3	6.4	3.2	7	83									
					Middle	4.0	0.3	224	22.7	22.8	8.1	8.1	30.3	30.3	87.9	88.1	6.4	6.4	4.4	9	89									
						4.0	0.3	228	22.8	22.8	8.1	8.1	30.3	30.3	88.3	88.3	6.4	6.4	4.4	8	90									
					Bottom	7.0	0.3	253	23.0	23.0	8.1	8.1	30.2	30.2	89.8	90.0	6.5	6.5	5.7	9	91									
						7.0	0.3	253	23.0	23.0	8.1	8.1	30.1	30.1	90.1	90.1	6.5	6.5	5.8	9	91									
IM8	Cloudy	Moderate	07:51	7.5	Surface	1.0	0.4	221	23.2	23.2	8.0	8.0	30.2	30.3	89.5	89.5	6.4	6.4	3.7	3.7	6	5	86	85	87	821697	807824	<0.2	0.5	0.5
						1.0	0.4	219	23.2	23.2	8.0	8.0	30.3	30.3	89.4	89.4	6.4	6.4	3.7	5	85									
					Middle	3.8	0.4	200	23.1	23.1	8.0	8.0	30.3	30.3	89.3	89.4	6.4	6.4	4.0	6	87									
						3.8	0.4	204	23.1	23.1	8.0	8.0	30.3	30.3	89.4	89.4	6.4	6.4	4.0	5	88									
					Bottom	6.5	0.4	188	23.1	23.1	8.0	8.0	30.3	30.3	89.5	89.5	6.4	6.4	4.0	6	89									
						6.5	0.4	182	23.1	23.1	8.0	8.0	30.3	30.3	89.5	89.5	6.4	6.4	4.0	5	88									

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 November 23 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	07:41	7.0	Surface	1.0	0.4	181	23.2	23.2	8.0	8.0	30.2	30.2	89.6	89.6	6.4	6.4	3.5		5		85		88	822079	808814	<0.2	0.5	0.5						
						1.0	0.4	175	23.2		8.0		30.2		89.5		6.4	3.5			5		86					<0.2	0.5							
					Middle	3.5	0.4	181	23.1	23.1	8.0	8.0	30.3	30.3	89.3	89.3	6.4	6.4	3.7	3.7	6	6	87					<0.2	0.5							
						3.5	0.5	184	23.1		8.0		30.3		89.2		6.4	3.7			6	6	87					<0.2	0.5							
					Bottom	6.0	0.4	171	23.1	23.1	8.0	8.0	30.3	30.3	89.2	89.2	6.4	6.4	3.8	3.8	6	6	90					<0.2	0.5							
						6.0	0.4	164	23.1		8.0		30.3		89.2		6.4	3.8			5	5	91					<0.2	0.5							
IM10	Cloudy	Moderate	07:35	7.7	Surface	1.0	0.4	144	23.2	23.2	8.0	8.0	30.3	30.3	90.2	90.2	6.5	6.5	3.5		5		86		88	822251	809834	<0.2	0.6	0.5						
						1.0	0.4	149	23.1		8.0		30.3		90.2		6.5	3.5			4	5	85					<0.2	0.5							
					Middle	3.9	0.4	146	23.1	23.1	8.0	8.0	30.3	30.3	90.2	90.3	6.5	6.5	2.5	2.9	4	5	87					<0.2	0.5							
						3.9	0.4	148	23.1		8.0		30.3		90.3		6.5	2.6			4	5	89					<0.2	0.5							
					Bottom	6.7	0.4	157	23.1	23.1	8.0	8.0	30.3	30.3	90.9	91.0	6.5	6.5	2.6	2.6	5	5	90					<0.2	0.5							
						6.7	0.4	161	23.1		8.0		30.3		91.0		6.5	2.7			5	5	89					<0.2	0.5							
IM11	Cloudy	Moderate	07:29	7.6	Surface	1.0	0.2	151	23.1	23.1	8.0	8.0	30.3	30.3	90.6	90.6	6.5	6.6	2.5		5		86		88	821489	810556	<0.2	0.5	0.5						
						1.0	0.2	152	23.1		8.0		30.3		90.6		6.5	2.5	3.1	4	5	85		<0.2				0.6								
					Middle	3.8	0.2	119	23.1	23.1	8.0	8.0	30.3	30.3	91.1	91.1	6.6	6.6	2.5	2.5	6	5	88					<0.2	0.5							
						3.8	0.2	114	23.1		8.0		30.3		91.1		6.6	2.5			5	5	87					<0.2	0.5							
					Bottom	6.6	0.1	133	23.1	23.1	8.0	8.0	30.3	30.3	92.3	92.4	6.6	6.7	3.7	4.6	6	5	90					<0.2	0.6							
						6.6	0.2	134	23.1		8.0		30.3		92.5		6.7	4.6			5	5	91					<0.2	0.5							
IM12	Cloudy	Moderate	07:19	8.0	Surface	1.0	0.3	128	23.0	23.0	8.0	8.0	30.2	30.2	90.3	90.3	6.5	6.5	3.4		5		85		88	821175	811500	<0.2	0.5	0.5						
						1.0	0.3	121	23.0		8.0		30.2		90.3		6.5	3.4			5	5	86					<0.2	0.5							
					Middle	4.0	0.3	119	22.9	22.9	8.0	8.0	30.2	30.2	90.3	90.3	6.5	6.5	3.6	3.5	5	5	87					<0.2	0.5							
						4.0	0.3	115	22.9		8.0		30.2		90.3		6.5	3.6			6	5	88					<0.2	0.5							
					Bottom	7.0	0.3	141	22.9	22.9	8.0	8.0	30.2	30.2	90.7	90.8	6.6	6.6	3.4	3.4	5	5	90					<0.2	0.4							
						7.0	0.4	146	22.9		8.0		30.2		90.8		6.6	3.4			5	5	91					<0.2	0.5							
SR1A	Cloudy	Moderate	06:48	5.9	Surface	1.0	0.0	101	23.0	23.0	8.0	8.0	30.5	30.5	89.6	89.7	6.4	6.4	3.2		8	-	-		-	819977	812653	-	-	-						
						1.0	0.0	99	23.0		8.0		30.5		89.7		6.4	3.3	6.4	3.3	8	-	-					-	-							
					Middle	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
						3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
					Bottom	4.9	0.0	116	23.1	23.1	8.0	8.0	30.6	30.6	91.3	91.5	6.6	6.6	3.5	3.5	6	6	-	-				-	-		-	-	-	-	-	-
						4.9	0.0	118	23.1		8.0		30.6		91.7		6.6	3.5			6	6	-	-				-	-		-	-	-	-	-	-
SR2	Cloudy	Moderate	06:32	4.9	Surface	1.0	0.6	31	22.8	22.8	8.0	8.0	30.4	30.4	92.2	92.3	6.7	6.7	4.4		6		86		88	821456	814181	<0.2	0.6	0.6						
						1.0	0.6	24	22.8		8.0		30.4		92.3		6.7	4.5	6.7	4.5	5	5	85					<0.2	0.6							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
					Bottom	3.9	0.6	7	22.8	22.8	8.0	8.0	30.4	30.4	93.4	93.5	6.8	6.8	4.6	4.6	6	6	90					<0.2	0.5							
						3.9	0.6	6	22.8		8.0		30.4		93.6		6.8	4.6			6	6	91					<0.2	0.5							
SR3	Cloudy	Moderate	08:03	8.4	Surface	1.0	0.4	174	23.2	23.2	8.0	8.0	30.2	30.2	89.3	89.3	6.4	6.4	4.9		6		-		-	822145	807576	-	-	-						
						1.0	0.3	172	23.2		8.0		30.2		89.3		6.4	5.0	6.4	5.0	5	5	-	-				-	-							
					Middle	4.2	0.3	167	23.1	23.1	8.0	8.0	30.3	30.3	89.0	89.0	6.4	6.4	5.2	5.1	5	5	-	-				-	-		-	-	-	-	-	
						4.2	0.3	162	23.1		8.0		30.3		89.0		6.4	5.2			6	5	-	-				-	-		-	-	-	-	-	
					Bottom	7.4	0.3	167	23.1	23.1	8.0	8.0	30.3	30.3	89.2	89.2	6.4	6.4	5.2	5.2	6	6	-	-				-	-		-	-	-	-	-	-
						7.4	0.3	172	23.1		8.0		30.3		89.2		6.4	5.2			4	5	-	-				-	-		-	-	-	-	-	-
SR4A	Fine	Moderate	07:37	9.2	Surface	1.0	0.0	297	22.4	22.4	8.1	8.1	30.5	30.5	87.3	87.3	6.4	6.4	4.3		7		-		-	817202	807802	-	-	-						
						1.0	0.0	298	22.3		8.1		30.5		87.3		6.4	4.3	6.4	4.3	7	7	-	-				-	-							
					Middle	4.6	0.0	297	22.3	22.3	8.1	8.1	30.4	30.4	87.3	87.3	6.4	6.4	5.4	5.4	8	8	-	-				-	-		-	-	-	-	-	
						4.6	0.0	289	22.3		8.1		30.4		87.3		6.4	5.4			8	8	-	-				-	-		-	-	-	-	-	
					Bottom	8.2	0.0	325	22.3	22.3	8.1	8.1	30.5	30.5	87.2	87.2	6.4	6.4	6.4	6.4	8	8	-	-				-	-		-	-	-	-	-	-
						8.2	0.0	326	22.3		8.1		30.5		87.2		6.4	6.5			7	6	-	-				-	-		-	-	-	-	-	-
SR5A	Fine	Moderate	07:22	5.0	Surface	1.0	0.0	349	22.4	22.4	8.1	8.1	30.6	30.6	88.2	88.3	6.4	6.4	4.2		7		-		-	816574	810676	-	-	-						
						1.0	0.0	343	22.4		8.1		30.6		88.4		6.4	4.2	6.4	4.2	7	7	-	-				-	-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
					Bottom	4.0	0.0	320	22.4	22.4	8.1	8.1	30.7	30.7	89.8	90.0	6.5	6.6	5.9	5.9	7	7	-	-				-	-		-	-	-	-	-	-
						4.0	0.0	318	22.3		8.1		30.7		90.1		6.6	6.0			8	8	-	-				-	-		-	-	-	-	-	-
SR6	Fine	Moderate	06:58	4.0	Surface	1.0	0.0	273	22.6	22.6	8.1	8.1	30.3	30.3	82.3	82.3	6.0	6.0	3.9		9		-		-	817875	814648	-	-	-						
						1.0	0.0	274	22.6		8.1		30.3		82.3		6.0	3.8	6.0	3.8	7	7	-	-				-	-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
					Bottom	3.0	0.0	271	22.6	22.6	8.1	8.1	30.4	30.4	82.3	82.3	6.0	6.0	4.4	4.4	8	8	-	-				-	-		-	-	-	-	-	-
						3.0	0.0	271	22.6		8.1		30.4		82.3		6.0	4.4			8	8	-	-				-	-		-	-	-	-	-	-
SR7	Cloudy	Moderate	05:33	16.8	Surface	1.0	1.1	65	23.6	23.6	7.9	7.9	31.2	31.2	82.7	82.7	5.9	5.9	1.6		4		-		-	823644	823759	-	-	-						
						1.0	1.2	61	23.6		7.9		31.2		82.6		5.9	1.6	4	4	-	-	-	-												
					Middle	8.4	1.1	61	24.0	24.0	7.9	7.9	31.4	31.4	83.0	83.0	5.8	5.8	3.0	2.6	4	4	-	-				-	-		-	-	-	-	-	
						8.4	1.1	61	24.0		7.9		31.4		83.0		5.8	3.0			4	4	-	-				-	-		-	-	-	-	-	
					Bottom	15.8	1.1	72	24.0	24.0	7.9	7.9	31.5	31.5	83.9	84.0	5.9	5.9	3.2	3.2	3	3	-	-				-	-		-	-	-	-	-	-
						15.8	1.1	74	24.0		7.9		31.5		84.0		5.9	3.2			4	4	-	-				-	-		-	-	-	-	-	-
SR8	Cloudy	Moderate	07:11	5.0	Surface	1.0	-	-	23.1	23.1	8.0	8.0	30.3	30.3	91.0	91.0	6.6	6.6	11.8																	

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 November 23 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	Fine	Moderate	14:57	7.0	Surface	1.0	0.2	52	22.4	22.4	8.1	8.1	30.7	30.7	87.9	88.0	6.4	6.5	4.3	5.3	6	9	82	87	815607	804260	<0.2	<0.2	0.7	
						1.0	0.1	51	22.4		8.1		30.7		88.1		6.4		4.3		7		82				<0.2	<0.2	0.7	
					Middle	3.5	0.1	48	22.5	22.5	8.1	8.1	30.8	30.8	89.2	89.3	6.5	6.5	5.7		10	9	86	87			<0.2	<0.2	0.7	
						3.5	0.1	46	22.5		8.1		30.8		89.4		6.5		5.6		9		87				<0.2	<0.2	0.6	
					Bottom	6.0	0.1	32	22.5	22.5	8.1	8.1	30.8	30.8	90.0	90.1	6.5	6.5	6.0		9	9	91	91			<0.2	<0.2	0.7	
						6.0	0.2	30	22.5		8.1		30.8		90.2		6.5		6.0		10		91				<0.2	<0.2	0.8	
C2	Cloudy	Moderate	13:26	11.4	Surface	1.0	0.2	334	23.3	23.3	7.9	7.9	28.9	28.9	89.1	89.1	6.4	6.3	2.2	3.6	4	5	85	84	825706	806945	<0.2	<0.2	1.0	
						1.0	0.2	334	23.3		7.9		28.9		89.0		6.4		2.2		5		84				<0.2	<0.2	0.9	
					Middle	5.7	0.2	349	23.3	23.3	7.9	7.9	30.0	30.0	86.5	86.5	6.2	6.2	3.4		5	5	87	87			<0.2	<0.2	0.7	
						5.7	0.2	348	23.3		7.9		30.0		86.4		6.2		3.5		4		88				<0.2	<0.2	0.8	
					Bottom	10.4	0.2	6	23.3	23.3	7.9	7.9	30.2	30.2	86.3	86.3	6.2	6.2	5.2		5	5	89	89			<0.2	<0.2	1.0	
						10.4	0.2	12	23.3		7.9		30.2		86.3		6.2		5.2		5		90				<0.2	<0.2	1.1	
C3	Cloudy	Moderate	15:29	11.4	Surface	1.0	0.0	47	23.7	23.7	8.0	8.0	31.1	31.1	84.4	84.4	6.0	6.0	2.7	6.8	6	6	83	84	822105	817783	<0.2	<0.2	0.8	
						1.0	0.0	48	23.7		8.0		31.1		84.3		6.0		3.1		5		84				<0.2	<0.2	0.8	
					Middle	5.7	0.0	43	23.6	23.6	7.9	7.9	31.2	31.2	83.2	83.2	5.9	5.9	7.4		6	6	86	87			<0.2	<0.2	0.5	
						5.7	0.0	45	23.6		7.9		31.2		83.2		5.9		7.7		6		87				<0.2	<0.2	0.5	
					Bottom	10.4	0.0	70	23.6	23.6	7.9	7.9	31.2	31.2	83.4	83.4	5.9	5.9	10.2		6	6	90	90			<0.2	<0.2	0.4	
						10.4	0.0	72	23.6		7.9		31.2		83.4		5.9		9.9		7		88				<0.2	<0.2	0.5	
IM1	Fine	Moderate	14:49	6.8	Surface	1.0	0.1	14	22.4	22.4	8.1	8.1	30.8	30.8	86.8	86.9	6.3	6.4	3.6	4.3	7	9	83	83	818335	806480	<0.2	<0.2	0.7	
						1.0	0.1	8	22.4		8.1		30.8		86.9		6.3		3.8		8		83				<0.2	<0.2	0.8	
					Middle	2.0	0.1	36	22.5	22.5	8.1	8.1	30.9	30.9	87.6	87.8	6.4	6.4	4.1		10	9	87	87			<0.2	<0.2	0.7	
						3.0	0.1	33	22.5		8.1		30.9		87.9		6.4		4.1		10		87				<0.2	<0.2	0.8	
					Bottom	5.8	0.1	17	22.5	22.5	8.1	8.1	31.0	31.0	89.1	89.2	6.5	6.5	5.1		10	9	91	91			<0.2	<0.2	0.7	
						5.8	0.1	20	22.5		8.1		31.0		89.3		6.5		5.1		11		91				<0.2	<0.2	0.8	
IM2	Fine	Moderate	14:34	6.6	Surface	1.0	0.2	14	22.5	22.5	8.1	8.1	30.7	30.8	87.0	87.0	6.3	6.3	4.0	5.1	10	10	83	83	818829	806174	<0.2	<0.2	0.8	
						1.0	0.2	21	22.5		8.1		30.8		86.9		6.3		4.0		10		83				<0.2	<0.2	0.7	
					Middle	3.3	0.2	41	22.4	22.4	8.1	8.1	30.8	30.8	86.8	86.9	6.3	6.3	5.1		9	10	88	89			<0.2	<0.2	0.7	
						3.3	0.2	46	22.4		8.1		30.8		86.9		6.3		5.1		10		89				<0.2	<0.2	0.7	
					Bottom	5.6	0.2	20	22.4	22.4	8.1	8.1	30.8	30.8	87.8	87.9	6.4	6.4	6.1		9	9	91	91			<0.2	<0.2	0.9	
						5.6	0.2	15	22.4		8.1		30.8		88.0		6.4		6.0		10		91				<0.2	<0.2	0.8	
IM3	Fine	Moderate	14:30	8.2	Surface	1.0	0.2	29	22.5	22.5	8.1	8.1	30.2	30.2	87.9	87.9	6.4	6.4	2.9	3.6	9	8	85	85	819419	806001	<0.2	<0.2	0.8	
						1.0	0.2	26	22.5		8.1		30.2		87.9		6.4		2.8		8		85				<0.2	<0.2	0.7	
					Middle	4.1	0.2	36	22.5	22.5	8.1	8.1	30.2	30.2	88.3	88.4	6.4	6.4	3.2		8	8	88	88			<0.2	<0.2	0.7	
						4.1	0.2	39	22.5		8.1		30.1		88.4		6.4		3.2		9		88				<0.2	<0.2	0.7	
					Bottom	7.2	0.2	22	22.6	22.6	8.1	8.1	30.0	30.0	89.6	89.8	6.5	6.5	4.6		8	8	90	90			<0.2	<0.2	0.7	
						7.2	0.2	17	22.6		8.1		30.0		89.9		6.5		4.6		8		90				<0.2	<0.2	0.7	
IM4	Fine	Moderate	14:23	8.0	Surface	1.0	0.2	36	22.7	22.7	8.1	8.1	30.4	30.4	87.3	87.4	6.3	6.4	3.1	4.1	9	10	82	82	819598	805046	<0.2	<0.2	0.6	
						1.0	0.2	32	22.7		8.1		30.4		87.4		6.3		3.1		9		82				<0.2	<0.2	0.7	
					Middle	4.0	0.2	49	22.7	22.7	8.1	8.1	30.4	30.4	88.0	88.1	6.4	6.4	4.1		10	10	87	87			<0.2	<0.2	0.8	
						4.0	0.1	50	22.7		8.1		30.4		88.2		6.4		4.1		9		87				<0.2	<0.2	0.7	
					Bottom	7.0	0.2	42	22.7	22.8	8.1	8.1	30.3	30.3	89.8	90.0	6.5	6.5	5.2		11	9	92	92			<0.2	<0.2	0.7	
						7.0	0.2	42	22.8		8.1		30.3		90.1		6.5		5.2		10		92				<0.2	<0.2	0.8	
IM5	Fine	Moderate	14:11	7.6	Surface	1.0	0.1	19	22.7	22.7	8.1	8.1	30.3	30.4	87.3	87.3	6.3	6.4	3.1	4.1	10	9	84	84	820581	804934	<0.2	<0.2	0.7	
						1.0	0.1	26	22.7		8.1		30.4		87.2		6.3		3.1		9		84				<0.2	<0.2	0.7	
					Middle	3.8	0.1	11	22.7	22.7	8.1	8.1	30.3	30.3	87.8	87.9	6.4	6.4	4.5		8	8	87	87			<0.2	<0.2	0.7	
						3.8	0.1	11	22.7		8.1		30.3		88.0		6.4		4.4		8		87				<0.2	<0.2	0.8	
					Bottom	6.6	0.2	359	22.8	22.8	8.1	8.1	30.2	30.2	89.7	89.9	6.5	6.5	4.7		9	9	90	90			<0.2	<0.2	0.7	
						6.6	0.2	6	22.8		8.1		30.2		90.0		6.5		4.6		9		90				<0.2	<0.2	0.6	
IM6	Fine	Moderate	14:06	7.8	Surface	1.0	0.1	31	22.7	22.7	8.1	8.1	30.4	30.4	86.5	86.5	6.3	6.3	1.0	2.4	10	11	83	83	821048	805848	<0.2	<0.2	0.7	
						1.0	0.2	24	22.7		8.1		30.3		86.5		6.3		1.0		11		83				<0.2	<0.2	0.6	
					Middle	3.9	0.2	44	22.7	22.7	8.1	8.1	30.3	30.3	86.5	86.5	6.3	6.3	2.1		9	8	86	86			<0.2	<0.2	0.7	
						3.9	0.2	48	22.7		8.1		30.3		86.5		6.3		2.1		8		86				<0.2	<0.2	0.7	
					Bottom	6.8	0.2	30	22.7	22.7	8.1	8.1	30.3	30.3	86.8	86.8	6.3	6.3	4.0		9	9	91	91			<0.2	<0.2	0.7	
						6.8	0.2	35	22.7		8.1		30.3		86.8		6.3		3.9		8		91				<0.2	<0.2	0.6	
IM7	Fine	Moderate	13:54	7.4	Surface	1.0	0.2	38	22.7	22.7	8.1	8.1	30.3	30.3	87.7	87.8	6.4	6.4	2.1	3.2	10	11	83	83	821329	806852	<0.2	<0.2	0.8	
						1.0	0.2	31	22.7		8.1		30.3		87.8		6.4		2.1		11		83				<0.2	<0.2	0.7	
					Middle	3.7	0.2	15	22.8	22.9	8.1	8.1	30.2	30.2	88.9	89.1	6.4	6.5	3.3		7	7	88	88			<0.2	<0.2	0.6	
						3.7	0.1	13	22.9		8.1		30.2		89.3		6.5		3.3		7		88				<0.2	<0.2	0.6	
					Bottom	6.4	0.2	21	23.1	23.1	8.1	8.1	30.0	30.0	90.3	90.4	6.5	6.5	4.1		7	7	91	91			<0.2	<0.2	0.8	
						6.4	0.1	23	23.1		8.1		29.9		90.5		6.5		4.1		7		91				<0.2	<0.2	0.7	
IM8	Cloudy	Moderate	13:53	7.3	Surface	1.0	0.2	27	23.9	23.9	8.0	8.0	30.0	30.0	92.1	92.1	6.5	6.5	3.1	2.5	5	4	85	84	821683	807841	<0.2	<0.2	0.7	
						1.0	0.3	34	23.9		8.0		29.9		92.1		6.5		3.1		4		84				<0.2	<0.2	0.6	
					Middle	3.7	0.2	9	23.3	23.3	8.0	8.0	30.1	30.1	90.6	90.6	6.5	6.5	2.3		5	5	89	89			<0.2	<0.2	0.6	
						3.7	0.2	10	23.3		8.0		30.1		90.6		6.5		2.2		4		90				<0.2	<0.2	0.6	
					Bottom	6.3	0.2	359	23.3	23.3	8.0	8.0	30.1	30.1	90.7	90.7	6.5	6.5	2.1		5	5	84	84			<0.2	<0		

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 November 23 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	
IM9	Cloudy	Moderate	14:01	7.0	Surface	1.0	0.2	346	23.3	23.3	8.0	8.0	30.2	30.2	91.2	91.2	6.6	6.5	2.9		4		86		822069	808798	<0.2	0.6	0.6				
						1.0	0.2	340	23.2		8.0		30.2		91.1		6.5	2.9		5		87											
					Middle	3.5	0.1	355	23.2	23.2	8.0	8.0	30.2	30.2	91.0	91.0	6.5	3.0	3.0	5	5	89											
						3.5	0.1	1	23.2		8.0		30.2		90.9		6.5	3.0		4		90											
					Bottom	6.0	0.1	326	23.2	23.2	8.0	8.0	30.2	30.2	90.8	90.8	6.5	3.0		4		85											
						6.0	0.1	332	23.2		8.0		30.2		90.8		6.5	2.9		5		84											
IM10	Cloudy	Moderate	14:11	7.5	Surface	1.0	0.2	328	23.2	23.2	8.0	8.0	30.2	30.2	90.5	90.5	6.5	6.5	1.9		3		87		822257	809840	<0.2	0.6	0.6				
						1.0	0.2	330	23.2		8.0		30.2		90.4		6.5	1.9		3		86											
					Middle	3.8	0.1	309	23.0	23.0	8.0	8.0	30.3	30.3	89.5	89.5	6.4	2.6	2.4	4	3	89											
						3.8	0.1	313	23.0		8.0		30.3		89.5		6.4	2.5		3		90											
					Bottom	6.5	0.1	315	23.0	23.0	8.0	8.0	30.3	30.3	89.4	89.4	6.4	2.8		3		85											
						6.5	0.2	317	23.0		8.0		30.3		89.4		6.4	2.8		3		84											
IM11	Cloudy	Moderate	13:24	7.9	Surface	1.0	0.2	304	23.5	23.5	8.0	8.0	30.1	30.1	91.5	91.5	6.5	6.6	3.8		6		86		821487	810538	<0.2	0.5	0.5				
						1.0	0.2	301	23.5		8.0		30.1		91.5		6.5	3.8		5		88											
					Middle	4.0	0.1	284	23.5	23.5	8.0	8.0	30.1	30.1	92.0	92.0	6.6	3.8	4.3	6	5	89											
						4.0	0.1	282	23.5		8.0		30.1		92.0		6.6	3.8		5		88											
					Bottom	6.9	0.2	268	23.5	23.5	8.0	8.0	30.1	30.1	93.2	93.3	6.7	4.9		5		84											
						6.9	0.1	265	23.5		8.0		30.1		93.4		6.7	5.9		5		85											
IM12	Cloudy	Moderate	13:34	8.1	Surface	1.0	0.2	289	23.6	23.6	8.0	8.0	30.1	30.1	91.1	91.1	6.5	6.5	4.8		4		86		821157	811519	<0.2	0.4	0.4				
						1.0	0.2	283	23.5		8.0		30.1		91.1		6.5	4.8		4		86											
					Middle	4.1	0.2	295	23.5	23.5	8.0	8.0	30.1	30.1	91.1	91.2	6.5	3.8	4.2	5	4	89											
						4.1	0.3	293	23.5		8.0		30.1		91.2		6.5	3.9		5		90											
					Bottom	7.1	0.3	279	23.5	23.5	8.0	8.0	30.1	30.1	91.8	91.9	6.6	3.9		4		85											
						7.1	0.3	276	23.5		8.0		30.1		91.9		6.6	4.0		4		84											
SR1A	Cloudy	Moderate	14:50	4.9	Surface	1.0	0.0	283	23.4	23.4	7.9	7.9	30.6	30.6	89.0	89.0	6.4	6.4	8.4		6		-		819955	812680	-	-	-				
						1.0	0.1	290	23.4		7.9		30.6		89.0		6.4	8.8		7		-											
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	9.5	-	7							-		-	
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-			
					Bottom	3.9	0.0	300	23.4	23.4	7.9	7.9	30.6	30.6	89.0	89.0	6.4	10.3		7		-											
						3.9	0.0	305	23.4		7.9		30.6		89.0		6.4	10.6		6		-											
SR2	Cloudy	Moderate	15:05	4.9	Surface	1.0	0.1	160	23.3	23.3	8.0	8.0	30.6	30.6	89.5	89.5	6.4	6.4	3.2		3		86		821457	814147	<0.2	0.5	0.6				
						1.0	0.1	161	23.3		8.0		30.6		89.4		6.4	3.4		3		87											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	4.3	-	4							-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-			
					Bottom	3.9	0.0	158	23.2	23.2	8.0	8.0	30.7	30.7	88.8	88.8	6.4	5.2		4		88											
						3.9	0.0	161	23.2		8.0		30.7		88.7		6.4	5.3		4		87											
SR3	Cloudy	Moderate	13:46	9.6	Surface	1.0	0.2	7	23.5	23.5	7.9	7.9	29.8	29.8	89.4	89.4	6.4	6.4	2.3		4		-		822147	807574	-	-	-				
						1.0	0.2	6	23.5		7.9		29.8		89.4		6.4	2.3		4		-											
					Middle	4.8	0.2	345	23.3	23.3	7.9	7.9	29.9	29.9	88.3	88.3	6.3	2.4	2.5	3	4	-											
						4.8	0.2	340	23.3		7.9		29.9		88.3		6.3	2.4		4		-											
					Bottom	8.6	0.2	7	23.3	23.3	7.9	7.9	30.1	30.1	89.0	89.1	6.4	2.9		4		-											
						8.6	0.3	10	23.3		7.9		30.1		89.1		6.4	2.9		4		-											
SR4A	Fine	Moderate	15:09	9.6	Surface	1.0	0.0	134	22.6	22.6	8.1	8.1	30.6	30.6	88.3	88.3	6.4	6.4	5.5		6		-		817190	807828	-	-	-				
						1.0	0.0	132	22.6		8.1		30.6		88.3		6.4	5.4		5		-											
					Middle	4.8	0.0	120	22.6	22.6	8.1	8.1	30.6	30.6	88.6	88.6	6.4	6.0	6.3	5	5	-											
						4.8	0.1	121	22.6		8.1		30.6		88.6		6.4	6.0		6		-											
					Bottom	8.6	0.0	123	22.6	22.6	8.1	8.1	30.6	30.6	89.2	89.3	6.5	7.3		5		-											
						8.6	0.1	123	22.6		8.1		30.6		89.3		6.5	7.3		5		-											
SR5A	Fine	Moderate	15:17	4.4	Surface	1.0	0.0	92	22.7	22.7	8.1	8.1	30.7	30.8	89.7	89.7	6.5	6.5	3.6		6		-		816583	810700	-	-	-				
						1.0	0.0	84	22.7		8.1		30.8		89.7		6.5	3.5		6		-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	4.1	-	6							-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-			
					Bottom	3.4	0.0	95	22.7	22.7	8.1	8.1	30.7	30.7	89.7	89.7	6.5	4.6		7		-											
						3.4	0.0	91	22.7		8.1		30.7		89.6		6.5	4.5		6		-											
SR6	Fine	Moderate	15:28	4.4	Surface	1.0	0.0	65	22.7	22.7	8.1	8.1	30.6	30.7	89.6	89.7	6.5	6.5	3.0		6		-		817885	814646	-	-	-				
						1.0	0.0	69	22.7		8.1		30.7		89.7		6.5	3.0		6		-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	3.9	-	6							-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-			
					Bottom	3.4	0.0	85	22.7	22.7	8.1	8.1	30.7	30.7	89.7	89.7	6.5	4.7		6		-											
						3.4	0.0	89	22.7		8.1		30.7		89.7		6.5	4.7		6		-											
SR7	Cloudy	Moderate	16:04	17.4	Surface	1.0	0.1	240	24.0	24.0	7.9	7.9	31.4	31.4	82.5	82.5	5.8	5.8	2.5		4		-		823642	823726	-	-	-				
						1.0	0.1	237	24.0		7.9		31.4		82.5		5.8	2.5		3		-											
					Middle	8.7	0.2	268	24.0	24.0	7.9	7.9	31.4	31.4	82.4	82.4	5.8	2.9	2.9	4	4	-											
						8.7	0.2	267	24.0		7.9		31.4		82.4		5.8	2.9		3		-											
					Bottom	16.4	0.2	273	24.0	24.0	7.9	7.9	31.4	31.4	82.8	82.8	5.8	3.2		3		-											
						16.4	0.2	269	24.0		7.9		31.4		82.8		5.8	3.2		4		-											
SR8	Cloudy	Moderate	13:40	4.5	Surface	1.0	-	-	23.5	23.5	8.0	8.0	30.0	30.0	92.8	92.8	6.6	6.6	7.1		4		-		820371	811642	-	-	-				
						1.0	-	-	23.5		8.0		30.0		92.8		6.6	7.3		5		-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	6.6	-	4							-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-			
					Bottom	3.5	-	-	23.4	23.4	8.0	8.0	30.2	30.2	94.1	94.4	6.8	5.8		4		-											
						3.5	-	-	23.4		8.0		30.2		94.7		6.8	6.3		4		-											

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 November 23 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
C1	Fine	Moderate	09:51	7.8	Surface	1.0	0.2	14	23.0	23.0	8.2	8.2	30.4	30.4	87.1	87.1	6.3	6.3	1.5		4		78				<0.2		0.7		
						1.0	0.1	17	23.0		8.2		30.4		87.0		6.3	1.4			5		77				<0.2		0.6		
					Middle	3.9	0.1	42	22.9	22.9	8.2	8.2	30.4	30.5	87.1	87.2	6.3	2.2	2.3	2.3	5	6	86	85			<0.2	<0.2	0.7	0.7	
						3.9	0.1	40	22.8		8.2		30.5		87.3		6.3				6		86				<0.2	<0.2	0.7		
					Bottom	6.8	0.1	30	22.8	22.8	8.2	8.2	30.5	30.5	88.7	88.8	6.4	3.2	3.2		7		90				<0.2	<0.2	0.6	0.6	
						6.8	0.1	30	22.8		8.2		30.5		88.9		6.4				7		90				<0.2	<0.2	0.7		
C2	Cloudy	Moderate	10:53	11.6	Surface	1.0	0.1	354	23.6	23.6	8.0	8.0	29.1	29.1	90.8	90.8	6.5	2.5	2.5		8		84	88		825690	806922	<0.2	<0.2	0.5	0.6
						1.0	0.1	355	23.6		8.0		29.1		90.8		6.5	2.5			6		85				<0.2	<0.2	0.6		
					Middle	5.8	0.1	325	23.5	23.5	8.0	8.0	29.3	29.3	90.2	90.3	6.5	4.6	4.6	4.1	7	6	88				<0.2	<0.2	0.5		
						5.8	0.1	321	23.5		8.0		29.3		90.3		6.5	4.0			6		88				<0.2	<0.2	0.6	0.6	
					Bottom	10.6	0.1	351	23.5	23.5	8.0	8.0	29.3	29.3	90.5	90.5	6.5	5.4	5.4		5		91				<0.2	<0.2	0.6	0.6	
						10.6	0.1	348	23.5		8.0		29.3		90.5		6.5	5.5			5		89				<0.2	<0.2	0.7		
C3	Cloudy	Moderate	08:40	11.5	Surface	1.0	0.3	276	23.5	23.5	7.9	7.9	30.6	30.6	84.7	84.6	6.0	3.5	3.5		5		85	87		822090	817802	<0.2	<0.2	0.6	0.6
						1.0	0.3	270	23.5		7.9		30.6		84.5		6.0	3.7			5		84				<0.2	<0.2	0.6		
					Middle	5.8	0.2	308	23.6	23.7	7.9	7.9	30.9	30.9	83.5	83.5	5.9	5.9	5.9	4.3	5	6	87				<0.2	<0.2	0.7	0.7	
						5.8	0.2	302	23.7		7.9		30.9		83.5		5.9				6		88				<0.2	<0.2	0.6		
					Bottom	10.5	0.3	302	23.7	23.7	7.9	7.9	31.1	31.1	84.3	84.4	6.0	3.2	3.2		6		89				<0.2	<0.2	0.6	0.6	
						10.5	0.3	295	23.7		7.9		31.1		84.4		6.0	3.3			7		90				<0.2	<0.2	0.6		
IM1	Fine	Moderate	10:01	7.0	Surface	1.0	0.0	24	22.9	22.9	8.2	8.2	30.2	30.2	88.4	88.4	6.4	3.3	3.3		4		73	78		818362	806446	<0.2	<0.2	0.7	0.7
						1.0	0.0	17	22.9		8.2		30.2		88.4		6.4	3.3			5		73				<0.2	<0.2	0.7		
					Middle	3.5	0.1	10	22.9	22.9	8.2	8.2	30.2	30.3	89.7	89.8	6.5	3.7	3.7	3.7	3	79				<0.2	<0.2	0.6	0.6		
						3.5	0.1	15	22.9		8.2		30.3		89.8		6.5	3.7			2		79				<0.2	<0.2	0.7		
					Bottom	6.0	0.0	9	22.9	22.9	8.2	8.2	30.3	30.3	91.0	91.2	6.6	4.1	4.1		2		83				<0.2	<0.2	0.6	0.6	
						6.0	0.0	2	22.9		8.2		30.3		91.3		6.6	4.0			3		83				<0.2	<0.2	0.6		
IM2	Fine	Moderate	10:07	8.2	Surface	1.0	0.1	268	23.0	23.0	8.2	8.2	29.9	29.9	89.3	89.4	6.4	1.9	1.9		5		45	74		818828	806205	<0.2	<0.2	0.6	0.7
						1.0	0.1	270	23.0		8.2		29.9		89.4		6.5	1.9			4		45				<0.2	<0.2	0.7		
					Middle	4.1	0.1	249	23.1	23.1	8.2	8.2	30.1	30.1	90.6	90.7	6.5	2.0	2.0	2.0	4	87				<0.2	<0.2	0.6	0.6		
						4.1	0.1	254	23.1		8.2		30.1		90.7		6.5	1.9			3		87				<0.2	<0.2	0.7	0.7	
					Bottom	7.2	0.1	231	23.1	23.1	8.2	8.2	30.0	30.0	91.5	91.6	6.6	2.1	2.1		4		89				<0.2	<0.2	0.7	0.7	
						7.2	0.1	235	23.1		8.2		30.0		91.7		6.6	2.0			3		89				<0.2	<0.2	0.8		
IM3	Fine	Moderate	10:22	7.6	Surface	1.0	0.1	357	22.9	22.9	8.2	8.2	29.2	29.2	90.2	90.3	6.5	1.9	1.9		4		46	74		819391	806035	<0.2	<0.2	0.8	0.8
						1.0	0.1	350	22.9		8.2		29.2		90.3		6.6	1.9			4		46				<0.2	<0.2	0.9		
					Middle	3.8	0.1	2	22.9	22.9	8.2	8.2	29.3	29.3	91.2	91.3	6.6	2.1	2.1	2.1	4	87				<0.2	<0.2	0.8	0.8		
						3.8	0.1	357	22.9		8.2		29.3		91.4		6.6	2.0			5		87				<0.2	<0.2	0.7		
					Bottom	6.6	0.2	339	22.9	22.9	8.2	8.2	29.3	29.3	92.2	92.3	6.7	2.3	2.3		4		90				<0.2	<0.2	0.7	0.7	
						6.6	0.2	337	22.9		8.2		29.3		92.4		6.7	2.4			6		90				<0.2	<0.2	0.7		
IM4	Fine	Moderate	10:36	8.0	Surface	1.0	0.2	333	22.9	22.9	8.2	8.2	29.5	29.5	89.8	89.9	6.5	2.5	2.5		3		82	85		819563	805028	<0.2	<0.2	0.7	0.7
						1.0	0.2	325	22.9		8.2		29.5		89.9		6.5	2.5			3		83				<0.2	<0.2	0.7		
					Middle	4.0	0.1	335	22.9	22.9	8.2	8.2	29.5	29.5	91.0	91.1	6.6	3.0	3.0	3.0	4	86				<0.2	<0.2	0.7	0.7		
						4.0	0.1	331	22.9		8.2		29.5		91.1		6.6	3.1			4		86				<0.2	<0.2	0.8		
					Bottom	7.0	0.2	317	22.9	22.9	8.2	8.2	29.5	29.5	91.9	92.0	6.7	3.4	3.4		4		86				<0.2	<0.2	0.6	0.6	
						7.0	0.2	322	22.9		8.2		29.5		92.1		6.7	3.4			5		86				<0.2	<0.2	0.6		
IM5	Fine	Moderate	10:46	8.6	Surface	1.0	0.2	324	22.9	22.9	8.2	8.2	29.5	29.5	88.7	88.8	6.4	1.1	1.1		5		69	82		820560	804924	<0.2	<0.2	0.8	0.8
						1.0	0.3	318	22.9		8.2		29.5		88.8		6.4	1.1			4		69				<0.2	<0.2	0.7		
					Middle	4.3	0.2	317	22.9	22.9	8.2	8.2	29.5	29.5	88.8	88.8	6.4	2.1	2.1	1.9	4	4	87				<0.2	<0.2	0.7	0.7	
						4.3	0.2	322	22.9		8.2		29.5		88.8		6.4				3		87				<0.2	<0.2	0.8		
					Bottom	7.6	0.2	329	22.9	22.9	8.2	8.2	29.4	29.4	89.0	89.0	6.5	2.6	2.6		3		91				<0.2	<0.2	0.8	0.8	
						7.6	0.3	334	22.9		8.2		29.4		89.0		6.5	2.6			4		91				<0.2	<0.2	0.8		
IM6	Fine	Moderate	10:57	7.6	Surface	1.0	0.2	306	22.9	22.9	8.2	8.2	29.8	29.8	88.5	88.6	6.4	1.1	1.1		3		46	75		821082	805810	<0.2	<0.2	0.6	0.7
						1.0	0.2	309	22.9		8.2		29.8		88.6		6.4	1.1			4		45				<0.2	<0.2	0.7		
					Middle	3.8	0.2	298	22.9	22.9	8.2	8.2	29.8	29.9	89.9	89.0	6.4	2.2	2.2	2.2	4	4	87				<0.2	<0.2	0.6	0.7	
						3.8	0.1	298	22.9		8.2		29.8		89.1		6.5	2.2			4		87				<0.2	<0.2	0.7		
					Bottom	6.6	0.2	304	22.9	22.9	8.2	8.2	29.7	29.7	90.2	90.3	6.5	3.2	3.2		4		91				<0.2	<0.2	0.7	0.7	
						6.6	0.1	303	22.9		8.2		29.7		90.3		6.5	3.2			5		91				<0.2	<0.2	0.7		
IM7	Fine	Moderate	11:10	8.0	Surface	1.0	0.2	330	22.9	22.9	8.2	8.2	29.8	29.8	87.9	87.9	6.4	2.6	2.6		5		43	74		821331	806854	<0.2	<0.2	0.6	0.7
						1.0	0.1	336	22.9		8.2		29.8		87.9		6.4	2.6			4		43				<0.2	<0.2	0.7		
					Middle	4.0	0.2	322	22.9	22.9	8.2	8.2	29.8	29.8	87.9	87.9	6.4	3.0	3.0	3.3	5	5	88				<0.2	<0.2	0.6	0.6	
						4.0	0.2	325	22.9		8.2		29.8		87.9		6.4	3.0			4		88				<0.2	<0.2	0.6		
					Bottom	7.0	0.2	322	22.9	22.9	8.2	8.2	29.8	29.8	88.3	88.4	6.4	4.4	4.4		5		90				<0.2	<0.2	0.7	0.7	
						7.0	0.2	327	22.9		8.2		29.8		88.4		6.4	4.3			6		91				<0.2	<0.2	0.7		
IM8	Cloudy	Moderate	10:21	7.2	Surface	1.0	0.2	270	23.6	23.6	8.0	8.0	29.1	29.1	91.6	91.6	6.6	1.6	1.6		3		85	87		821714	807842	<0.2	<0.2	0.6	0.6
						1.0	0.1	265	23.6		8.0		29.1																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 November 23 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
IM9	Cloudy	Moderate	10:16	6.8	Surface	1.0	0.2	252	23.7	23.7	8.0	8.0	29.2	29.2	91.6	91.6	6.6	6.6	1.1	6.6	5	85	87	822073	808792	<0.2	<0.2	0.5	0.6		
						1.0	0.2	252	23.7		8.0		29.2		91.6		6.6	6.6	1.2	6.6	6	85					<0.2	<0.2	0.5	0.6	
					Middle	3.4	0.2	266	23.6	23.6	8.0	8.0	29.3	29.3	91.2	91.2	6.5	6.5	2.1	2.1	5	86	87			<0.2	<0.2	0.5	0.6		
						3.4	0.3	265	23.6		8.0		29.3		91.2		6.5	6.5	2.2	4	4	86					<0.2	<0.2	0.5	0.6	
					Bottom	5.8	0.2	258	23.6	23.6	8.0	8.0	29.3	29.3	91.5	91.5	6.6	6.6	2.7	5	5	89	87			<0.2	<0.2	0.5	0.6		
						5.8	0.3	261	23.6		8.0		29.3		91.5		6.6	6.6	3.0	4	4	90					<0.2	<0.2	0.5	0.6	
IM10	Cloudy	Moderate	10:09	7.0	Surface	1.0	0.3	273	23.6	23.6	8.0	8.0	29.4	29.4	91.6	91.6	6.6	6.6	1.2	6.6	4	85	87	822218	809829	<0.2	<0.2	0.5	0.5		
						1.0	0.3	269	23.6		8.0		29.4		91.6		6.6	6.6	1.3	4	4	84					<0.2	<0.2	0.5	0.6	
					Middle	3.5	0.2	255	23.5	23.5	8.0	8.0	29.5	29.5	92.0	92.1	6.6	6.6	1.8	1.6	4	86	87			<0.2	<0.2	0.5	0.5		
						3.5	0.2	261	23.5		8.0		29.5		92.1		6.6	6.6	1.9	4	4	88					<0.2	<0.2	0.5	0.6	
					Bottom	6.0	0.2	289	23.5	23.6	8.0	8.0	29.5	29.5	92.8	92.9	6.7	6.7	1.7	5	5	89	87			<0.2	<0.2	0.5	0.5		
						6.0	0.3	290	23.6		8.0		29.5		93.0		6.7	6.7	1.7	4	4	88					<0.2	<0.2	0.5	0.5	
IM11	Cloudy	Moderate	10:00	7.6	Surface	1.0	0.3	264	23.5	23.5	8.0	8.0	29.6	29.6	90.0	90.0	6.5	6.5	1.8	6.5	4	85	87	821481	810534	<0.2	<0.2	0.5	0.5		
						1.0	0.4	266	23.5		8.0		29.6		90.0		6.5	6.5	1.8	3	3	84					<0.2	<0.2	0.5	0.5	
					Middle	3.8	0.3	281	23.5	23.5	8.0	8.0	29.6	29.6	89.8	89.8	6.4	6.4	1.9	2.0	3	88	87			<0.2	<0.2	0.5	0.5		
						3.8	0.3	279	23.5		8.0		29.6		89.8		6.4	6.4	2.0	4	4	86					<0.2	<0.2	0.5	0.5	
					Bottom	6.6	0.2	291	23.5	23.5	8.0	8.0	29.6	29.6	89.8	89.8	6.4	6.4	2.3	4	4	89	87			<0.2	<0.2	0.5	0.5		
						6.6	0.2	287	23.5		8.0		29.6		89.8		6.4	6.4	2.4	4	4	90					<0.2	<0.2	0.5	0.5	
IM12	Cloudy	Moderate	09:52	8.8	Surface	1.0	0.3	296	23.8	23.8	8.0	8.0	29.2	29.3	91.7	91.6	6.6	6.6	1.1	6.5	3	84	87	821144	811518	<0.2	<0.2	0.4	0.4		
						1.0	0.3	293	23.8		8.0		29.3		91.5		6.5	6.5	1.2	4	4	85					<0.2	<0.2	0.5	0.5	
					Middle	4.4	0.3	273	23.5	23.5	8.0	8.0	29.6	29.6	89.8	89.8	6.4	6.4	2.2	2.3	6	86	87			<0.2	<0.2	0.5	0.5		
						4.4	0.3	273	23.4		8.0		29.6		89.8		6.4	6.4	2.2	5	5	87					<0.2	<0.2	0.5	0.5	
					Bottom	7.8	0.3	283	23.4	23.4	8.0	8.0	29.7	29.7	89.7	89.8	6.4	6.5	3.4	6	6	89	87			<0.2	<0.2	0.6	0.6		
						7.8	0.3	282	23.4		8.0		29.7		89.8		6.5	6.5	3.4	7	7	90					<0.2	<0.2	0.5	0.5	
SR1A	Cloudy	Moderate	09:20	5.5	Surface	1.0	0.0	75	23.4	23.4	8.0	8.0	29.9	29.9	91.8	91.8	6.6	6.6	2.6	6.6	5	-	-	819982	812654	-	-	-	-		
						1.0	0.1	80	23.4		8.0		29.9		91.8		6.6	6.6	2.6	6	6	-	-			-	-	-	-		
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	-	-	-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.5	-	51	23.4	23.4	8.0	8.0	30.4	30.4	95.0	95.1	6.8	6.8	4.5	6	6	-	-			-	-	-	-	-	-
						4.5	-	50	23.4		8.0		30.4		95.2		6.8	6.8	4.2	5	5	-	-			-	-	-	-	-	-
SR2	Cloudy	Moderate	09:04	4.3	Surface	1.0	0.2	13	23.4	23.4	8.0	8.0	29.7	29.7	92.6	92.6	6.7	6.7	2.4	6.7	6	85	87	821440	814177	<0.2	<0.2	0.5	0.6		
						1.0	0.1	11	23.4		8.0		29.7		92.6		6.7	6.7	2.4	5	5	84					<0.2	<0.2	0.5	0.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.3	0.1	12	23.4	23.4	8.0	8.0	29.7	29.7	93.4	93.5	6.7	6.7	3.1	4	4	89	87			<0.2	<0.2	0.5	0.6		
						3.3	0.1	14	23.4		8.0		29.7		93.6		6.7	6.7	3.0	4	4	90					<0.2	<0.2	0.5	0.6	
SR3	Cloudy	Moderate	10:30	8.3	Surface	1.0	0.0	297	23.6	23.6	8.0	8.0	29.1	29.1	91.9	91.9	6.6	6.6	1.7	6.6	3	-	-	822170	807558	-	-	-	-		
						1.0	0.0	302	23.6		8.0		29.1		91.9		6.6	6.6	1.8	3	3	-	-			-	-	-	-		
					Middle	4.2	0.1	302	23.6	23.6	8.0	8.0	29.2	29.2	91.6	91.6	6.6	6.6	3.7	5.1	3	4	-	-	-	-	-	-	-	-	
						4.2	0.1	304	23.6		8.0		29.2		91.6		6.6	6.6	3.8	4	4	-	-			-	-	-	-	-	
					Bottom	7.3	0.1	305	23.6	23.6	8.0	8.0	29.2	29.2	91.5	91.5	6.6	6.6	9.4	4	4	-	-			-	-	-	-	-	
						7.3	0.1	298	23.6		8.0		29.2		91.5		6.6	6.6	9.9	5	5	-	-			-	-	-	-	-	
SR4A	Fine	Moderate	09:11	9.0	Surface	1.0	0.0	236	23.1	23.1	8.2	8.2	30.4	30.4	91.2	91.3	6.6	6.6	1.1	6.6	4	-	-	817203	807809	-	-	-	-		
						1.0	0.0	242	23.1		8.2		30.3		91.4		6.6	6.6	1.1	3	3	-	-			-	-	-	-		
					Middle	4.5	0.1	239	23.1	23.1	8.2	8.2	30.4	30.4	89.9	90.1	6.5	6.5	2.2	2.2	4	-	-	-	-	-	-	-	-		
						4.5	0.1	241	23.1		8.2		30.4		90.2		6.5	6.5	2.2	3	3	-	-			-	-	-	-	-	
					Bottom	8.0	0.1	212	22.9	22.9	8.2	8.2	30.5	30.5	91.0	91.1	6.6	6.6	3.3	4	4	-	-			-	-	-	-	-	
						8.0	0.0	218	22.9		8.2		30.5		91.1		6.6	6.6	3.3	4	4	-	-			-	-	-	-	-	
SR5A	Fine	Moderate	08:46	4.8	Surface	1.0	0.2	307	22.8	22.8	8.1	8.1	30.3	30.4	86.9	86.9	6.3	6.3	4.3	6.3	5	-	-	816583	810687	-	-	-	-		
						1.0	0.2	313	22.8		8.1		30.4		86.8		6.3	6.3	4.3	4	4	-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	3.8	0.1	303	22.9	22.9	8.1	8.1	30.5	30.5	87.1	87.2	6.3	6.3	5.0	3	3	-	-			-	-	-	-	-	
						3.8	0.1	296	22.9		8.1		30.5		87.2		6.3	6.3	5.0	4	4	-	-			-	-	-	-	-	
SR6	Fine	Moderate	08:42	4.4	Surface	1.0	0.1	242	22.9	22.9	8.1	8.1	30.4	30.8	87.4	87.4	6.3	6.3	1.2	6.3	4	-	-	817883	814655	-	-	-	-		
						1.0	0.1	239	22.9		8.1		31.1		87.4		6.3	6.3	1.1	4	4	-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	3.4	0.1	237	22.8	22.8	8.1	8.1	30.4	30.4	87.1	87.1	6.3	6.3	2.0	3	3	-	-			-	-	-	-	-	
						3.4	0.1	239	22.8		8.1		30.4		87.1		6.3	6.3	2.0	4	4	-	-			-	-	-	-	-	
SR7	Cloudy	Moderate	08:01	16.4	Surface	1.0	0.2	53	23.4	23.4	7.9	7.9	30.6	30.6	86.4	86.3	6.2	6.2	1.1	6.1	3	-	-	823637	823727	-	-	-	-		
						1.0	0.3	49	23.4		7.9		30.6		86.2		6.2	6.2	1.1	2	2	-	-			-	-	-	-		
					Middle	8.2	0.3	76	23.8	23.8	7.9	7.9	31.2	31.2	83.8	83.8	5.9	5.9	2.3	2.1	2	3	-	-	-	-	-	-	-		
						8.2	0.3	78	23.8		7.9		31.2		83.8		5.9	5.9	2.4	3	3	-	-			-	-	-	-		
					Bottom	15.4	0.3	52	23.8	23.8	7.9	7.9	31.3	31.3	84.5	84.6	6.0														

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 November 23 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		
C1	Fine	Moderate	17:13	7.2	Surface	1.0	0.1	200	22.9	22.9	8.2	8.2	29.4	29.5	88.2	88.3	6.4	6.4	1.0	1.0	3	4	84	84	815634	804235	<0.2	<0.2	0.6	0.7						
						1.0	0.1	192	22.9	22.9	8.2	8.2	29.5	29.5	88.3	88.3	6.4	6.4	1.1	1.1	3	4	84	84												
					Middle	3.6	0.1	190	22.9	22.9	8.2	8.2	29.4	29.5	88.6	88.7	6.4	6.4	1.1	1.1	4	4	87	87							87	815634	<0.2	<0.2	0.6	0.7
						3.6	0.1	195	22.9	22.9	8.2	8.2	29.5	29.5	88.7	88.7	6.4	6.4	1.1	1.1	4	4	87	87												
					Bottom	6.2	0.0	187	23.0	23.0	8.2	8.2	29.4	29.4	89.1	89.1	6.5	6.5	2.3	2.3	4	4	91	91							87	815634	<0.2	<0.2	0.6	0.7
						6.2	0.1	191	23.0	23.0	8.2	8.2	29.4	29.4	89.1	89.1	6.5	6.5	2.3	2.3	4	4	91	91												
C2	Cloudy	Moderate	14:37	10.8	Surface	1.0	0.1	332	23.7	23.7	7.9	7.9	27.5	27.5	90.6	90.6	6.6	6.6	1.1	1.1	4	4	78	78	825704	806932	<0.2	<0.2	0.9	0.9						
						1.0	0.1	334	23.7	23.7	7.9	7.9	27.5	27.5	90.5	90.6	6.5	6.5	1.1	1.1	4	4	78	78												
					Middle	5.4	0.1	330	23.5	23.5	7.9	7.9	29.6	29.6	84.8	84.8	6.1	6.1	4.2	4.2	5	5	80	80							80	825704	<0.2	<0.2	0.8	0.9
						5.4	0.1	330	23.5	23.5	7.9	7.9	29.6	29.6	84.8	84.8	6.1	6.1	4.4	4.4	4	4	81	81												
					Bottom	9.8	0.1	322	23.5	23.5	7.9	7.9	29.7	29.7	84.8	84.8	6.1	6.1	9.1	9.1	5	5	82	82							80	825704	<0.2	<0.2	0.8	0.8
						9.8	0.1	315	23.5	23.5	7.9	7.9	29.7	29.7	84.8	84.8	6.1	6.1	9.0	9.0	6	6	83	83												
C3	Cloudy	Moderate	16:23	10.6	Surface	1.0	0.1	95	23.8	23.8	7.9	7.9	30.9	30.9	84.9	84.9	6.0	6.0	1.8	1.8	6	5	78	78	822125	817791	<0.2	<0.2	0.4	0.5						
						1.0	0.1	88	23.8	23.8	7.9	7.9	30.9	30.9	84.8	84.8	6.0	6.0	1.8	1.8	5	5	78	78												
					Middle	5.3	0.1	89	23.8	23.8	7.9	7.9	31.0	31.0	85.1	85.2	6.0	6.0	13.4	13.0	6	6	81	81							81	822125	<0.2	<0.2	0.4	0.5
						5.3	0.1	88	23.8	23.8	7.9	7.9	31.0	31.0	85.2	85.2	6.0	6.0	13.0	13.0	6	6	81	81												
					Bottom	9.6	0.1	72	23.8	23.8	7.9	7.9	31.0	31.0	87.1	87.4	6.2	6.2	9.1	9.5	6	7	84	82							81	822125	<0.2	<0.2	0.5	0.5
						9.6	0.1	78	23.8	23.8	7.9	7.9	31.0	31.0	87.1	87.4	6.2	6.2	9.1	9.5	6	7	84	82												
IM1	Fine	Moderate	17:04	6.6	Surface	1.0	0.0	175	22.9	22.9	8.2	8.2	29.6	29.6	89.9	90.0	6.5	6.5	1.0	1.0	5	5	82	82	818351	806473	<0.2	<0.2	0.8	0.8						
						1.0	0.0	168	22.9	22.9	8.2	8.2	29.6	29.6	90.1	90.0	6.5	6.6	1.0	1.0	5	5	82	82												
					Middle	3.3	-	169	22.9	22.9	8.2	8.2	29.6	29.6	90.7	90.8	6.6	6.6	1.0	1.0	4	4	86	86							85	818351	<0.2	<0.2	0.9	0.9
						3.3	0.0	172	22.9	22.9	8.2	8.2	29.6	29.6	90.9	90.8	6.6	6.6	1.0	1.0	5	5	86	86												
					Bottom	5.6	0.0	173	22.9	22.9	8.2	8.2	29.6	29.6	92.0	92.2	6.7	6.7	1.1	1.1	4	4	87	87							85	818351	<0.2	<0.2	0.6	0.6
						5.6	0.0	167	22.9	22.9	8.2	8.2	29.6	29.6	92.4	92.2	6.7	6.7	1.1	1.1	4	4	87	87												
IM2	Fine	Moderate	16:39	6.8	Surface	1.0	0.0	104	23.0	23.0	8.2	8.2	30.1	30.1	91.8	91.8	6.6	6.6	2.1	2.1	3	4	46	46	818840	806188	<0.2	<0.2	0.7	0.7						
						1.0	0.1	105	23.0	23.0	8.2	8.2	30.1	30.1	91.8	91.8	6.6	6.7	2.1	2.1	4	4	46	46												
					Middle	3.4	0.0	103	23.0	23.0	8.2	8.2	30.3	30.3	92.5	92.5	6.7	6.7	3.1	3.1	4	5	87	87							75	818840	<0.2	<0.2	0.7	0.8
						3.4	0.0	109	23.0	23.0	8.2	8.2	30.3	30.3	92.5	92.5	6.7	6.7	3.1	3.1	5	5	87	87												
					Bottom	5.8	0.0	108	23.0	23.0	8.2	8.2	30.3	30.3	92.7	92.8	6.7	6.7	4.2	4.3	6	9	91	92							75	818840	<0.2	<0.2	0.7	0.7
						5.8	0.0	108	23.0	23.0	8.2	8.2	30.2	30.3	92.8	92.8	6.7	6.7	4.3	5	92	91														
IM3	Fine	Moderate	16:31	8.4	Surface	1.0	0.1	106	23.3	23.3	8.2	8.2	30.3	30.3	88.8	88.8	6.4	6.4	2.0	2.0	5	6	44	44	819402	806038	<0.2	<0.2	0.6	0.7						
						1.0	0.1	103	23.3	23.3	8.2	8.2	30.3	30.3	88.8	88.8	6.4	6.4	2.0	2.0	6	4	44	44												
					Middle	4.2	0.0	125	23.3	23.3	8.2	8.2	30.3	30.3	88.9	88.9	6.4	6.4	3.4	3.4	5	5	91	91							76	819402	<0.2	<0.2	0.6	0.7
						4.2	0.0	124	23.3	23.3	8.2	8.2	30.3	30.3	88.9	88.9	6.4	6.4	3.4	3.4	4	4	91	91												
					Bottom	7.4	0.0	97	23.3	23.3	8.2	8.2	30.3	30.3	89.1	89.1	6.4	6.4	4.6	4.6	4	5	94	94							76	819402	<0.2	<0.2	0.8	0.7
						7.4	0.1	97	23.3	23.3	8.2	8.2	30.3	30.3	89.1	89.1	6.4	6.4	4.6	4.6	5	94	94	94												
IM4	Fine	Moderate	16:25	8.0	Surface	1.0	0.0	127	23.3	23.3	8.2	8.2	30.3	30.3	90.5	90.6	6.5	6.5	3.1	3.1	5	4	83	83	819573	805036	<0.2	<0.2	0.6	0.7						
						1.0	0.1	134	23.3	23.3	8.2	8.2	30.3	30.3	90.6	90.6	6.5	6.6	3.1	3.1	4	3	83	90												
					Middle	4.0	0.1	123	23.3	23.3	8.2	8.2	30.3	30.3	91.7	91.8	6.6	6.6	4.1	4.1	3	3	90	90							89	819573	<0.2	<0.2	0.6	0.8
						4.0	0.1	122	23.3	23.3	8.2	8.2	30.3	30.3	91.9	91.8	6.6	6.6	4.1	3	3	90	90													
					Bottom	7.0	0.0	116	23.1	23.1	8.2	8.2	30.3	30.3	87.5	87.5	6.3	6.3	6.4	6.5	3	2	95	95							89	819573	<0.2	<0.2	0.9	0.9
						7.0	0.0	117	23.1	23.1	8.2	8.2	30.3	30.3	87.5	87.5	6.3	6.3	6.5	2	2	95	95													
IM5	Fine	Moderate	16:18	8.2	Surface	1.0	0.1	136	23.1	23.1	8.2	8.2	30.4	30.4	87.4	87.4	6.3	6.3	4.3	4.3	2	3	46	46	820575	804918	<0.2	<0.2	0.7	0.8						
						1.0	0.1	142	23.1	23.1	8.2	8.2	30.4	30.4	87.4	87.4	6.3	6.3	4.3	4.3	3	4	46	88												
					Middle	4.1	0.1	119	23.1	23.1	8.2	8.2	30.4	30.4	87.5	87.5	6.3	6.3	5.7	5.8	4	5	88	88							75	820575	<0.2	<0.2	0.7	1.0
						4.1	0.1	115	23.1	23.1	8.2	8.2	30.4	30.4	87.4	87.5	6.3	6.3	5.8	5	5	90	90													
					Bottom	7.2	0.1	128	23.1	23.1	8.2	8.2	30.4	30.4	87.6	87.7	6.3	6.3	6.3	6.3	5	5	90	90							75	820575	<0.2	<0.2	1.0	1.0
						7.2	0.1	120	23.1	23.1	8.2	8.2	30.4	30.4	87.7	87.7	6.3	6.3	6.3	6.3	5	5	90	90												
IM6	Fine	Moderate	16:11	7.6	Surface	1.0	0.1	96	23.1	23.1	8.2	8.2	30.3	30.3	89.3	89.5	6.4	6.4	2.0	2.0	4	4	45	45	821066	805842	<0.2	<0.2	0.7	0.9						
						1.0	0.2	92	23.1	23.1	8.2	8.2	30.3	30.3	89.6	90.5	6.5	6.5	3.2	3.2	4	4	88	88												
					Middle	3.8	0.1	110	23.1	23.1	8.2	8.2	30.3	30.3	90.5	90.6	6.5	6.5	3.2	3.2	4	4	88	88							75	821066	<0.2	<0.2	0.9	1.0
						3.8	0.1	107	23.1	23.1	8.2	8.2	30.3	30.3	90.6	90.6	6.5	6.6	3.2	4	4	91	91													
					Bottom	6.6	0.1	108	23.1	23.1	8.2	8.2	30.3	30.3	91.6	91.8	6.6	6.6	4.3	4.3	4	5	91	91							75	821066	<0.2	<0.2	0.9	0.9
						6.6	0.1	101	23.1	23.1	8.2	8.2	30.3	30.3	91.9	91.8	6.6	6.6	4.3	5	91	91														
IM7	Fine	Moderate	16:05	7.6	Surface	1.0	0.2	54	22.9	22.9	8.2	8.2	29.7	29.7	88.3	88.3	6.4	6.4	3.8	3.7	4	3	47	47	821342	806834	<0.2	<0.2	0.7	0.7						
						1.0	0.2	61	22.9	22.9	8.2	8.2	29.7	29.7	88.2	88.2	6.4	6.4	5.2	5.2	4	3	88	88												
					Middle	3.8	0.1	48	22.9	22.9	8.2	8.2	29.6	29.6	88.2	88.2	6.4	6.4	5.2	5.2	4	3	88	88							75	821342	<0.2	<0.2	0.7	0.7
						3.8	0.1	51	22.9	22.9	8.2	8.2	29.6	29.6	88.2	88.2	6.4	6.4	5.2	3	3	90	90													
					Bottom	6.6	0.1	86	22.9	22.9	8.2	8.2	30.3	30.3	9																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 November 23 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
IM9	Cloudy	Moderate	15:13	6.8	Surface	1.0	0.1	30	23.7	23.7	8.0	8.0	29.2	29.2	92.6	92.6	6.6	6.6	2.6	2.6	3	79	81	822089	808793	<0.2	<0.2	0.8	0.8					
						1.0	0.1	28	23.7	23.7	8.0	8.0	29.2	29.2	92.5	92.5	6.6	6.6	2.6	2.6	2	80	81	822089	808793	<0.2	<0.2	0.9	0.9					
					Middle	3.4	0.1	25	23.6	23.6	8.0	8.0	29.2	29.2	91.9	91.9	6.6	6.6	2.7	2.7	4	82	83	822089	808793	<0.2	<0.2	0.7	0.7					
						3.4	0.1	18	23.6	23.6	8.0	8.0	29.2	29.2	91.9	91.9	6.6	6.6	2.8	2.8	3	83	84	822089	808793	<0.2	<0.2	0.4	0.4					
					Bottom	5.8	0.1	51	23.6	23.6	7.9	7.9	29.2	29.2	91.6	91.6	6.6	6.6	2.7	2.7	6	78	79	822089	808793	<0.2	<0.2	0.8	0.8					
						5.8	0.2	45	23.6	23.6	7.9	7.9	29.2	29.2	91.6	91.6	6.6	6.6	2.7	2.7	5	83	84	822089	808793	<0.2	<0.2	0.8	0.8					
IM10	Cloudy	Moderate	15:24	7.5	Surface	1.0	0.1	12	23.8	23.8	8.0	8.0	29.3	29.3	92.5	92.5	6.6	6.6	1.6	1.6	3	81	84	822218	809855	<0.2	<0.2	0.7	0.8					
						1.0	0.1	19	23.8	23.8	8.0	8.0	29.3	29.3	92.4	92.4	6.6	6.6	1.7	1.7	3	79	84	822218	809855	<0.2	<0.2	0.8	0.8					
					Middle	3.8	0.0	6	23.7	23.7	7.9	7.9	29.4	29.4	91.5	91.5	6.6	6.6	3.1	3.1	4	82	84	822218	809855	<0.2	<0.2	0.7	0.8					
						3.8	-	0	23.7	23.7	7.9	7.9	29.4	29.4	91.5	91.5	6.6	6.6	3.2	3.2	3	84	84	822218	809855	<0.2	<0.2	0.8	0.8					
					Bottom	6.5	0.0	17	23.6	23.7	7.9	7.9	29.4	29.4	91.2	91.2	6.5	6.5	3.3	3.3	4	88	88	822218	809855	<0.2	<0.2	0.8	0.8					
						6.5	0.1	20	23.7	23.7	7.9	7.9	29.4	29.4	91.2	91.2	6.5	6.5	3.3	3.3	5	87	87	822218	809855	<0.2	<0.2	0.7	0.7					
IM11	Cloudy	Moderate	15:45	8.2	Surface	1.0	0.0	72	22.7	22.7	8.1	8.1	30.4	30.4	81.2	81.3	5.9	5.9	1.0	1.0	6	79	83	821495	810534	<0.2	<0.2	0.5	0.5					
						1.0	0.0	77	22.7	22.7	8.1	8.1	30.4	30.4	81.4	81.4	5.9	5.9	1.0	1.0	5	81	83	821495	810534	<0.2	<0.2	0.5	0.5					
					Middle	4.1	0.0	81	22.6	22.6	8.1	8.1	30.4	30.4	82.0	82.1	6.0	6.0	2.1	2.1	6	82	82	821495	810534	<0.2	<0.2	0.4	0.4					
						4.1	0.0	87	22.6	22.6	8.1	8.1	30.4	30.4	82.2	82.1	6.0	6.0	2.1	2.1	5	82	82	821495	810534	<0.2	<0.2	0.5	0.5					
					Bottom	7.2	0.0	46	22.6	22.6	8.1	8.1	30.4	30.4	88.0	88.3	6.4	6.4	3.2	3.2	5	87	87	821495	810534	<0.2	<0.2	0.5	0.5					
						7.2	0.0	52	22.6	22.6	8.1	8.1	30.4	30.4	88.6	88.6	6.5	6.5	3.2	3.2	5	87	87	821495	810534	<0.2	<0.2	0.4	0.4					
IM12	Cloudy	Moderate	15:50	10.0	Surface	1.0	0.1	52	22.7	22.7	8.1	8.1	30.4	30.4	81.2	81.3	5.9	5.9	1.1	1.1	4	79	83	821185	811524	<0.2	<0.2	0.5	0.5					
						1.0	0.0	52	22.7	22.7	8.1	8.1	30.4	30.4	81.4	81.4	5.9	5.9	1.1	1.1	5	79	83	821185	811524	<0.2	<0.2	0.5	0.5					
					Middle	5.0	0.0	68	22.6	22.6	8.1	8.1	30.4	30.4	82.1	82.1	6.0	6.0	2.7	2.7	3	82	83	821185	811524	<0.2	<0.2	0.5	0.5					
						5.0	0.0	69	22.6	22.6	8.1	8.1	30.4	30.4	82.1	82.1	6.0	6.0	2.7	2.7	4	83	83	821185	811524	<0.2	<0.2	0.5	0.5					
					Bottom	9.0	0.0	40	22.6	22.6	8.1	8.1	30.3	30.3	88.1	88.3	6.4	6.4	3.0	3.0	3	88	88	821185	811524	<0.2	<0.2	0.4	0.4					
						9.0	0.1	34	22.6	22.6	8.1	8.1	30.3	30.3	88.4	88.4	6.5	6.5	3.0	3.0	4	87	87	821185	811524	<0.2	<0.2	0.5	0.5					
SR1A	Cloudy	Moderate	16:11	5.1	Surface	1.0	-	186	23.9	23.9	7.9	7.9	29.9	29.9	91.8	91.8	6.5	6.5	2.5	2.5	3	-	-	819973	812654	-	-	-	-					
						1.0	-	182	23.9	23.9	7.9	7.9	29.9	29.9	91.8	91.8	6.5	6.5	2.7	2.7	4	-	-	819973	812654	-	-	-	-					
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	819973	812654	-	-	-	-		
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819973	812654	-	-	-	-		
					Bottom	4.1	0.1	193	23.9	23.9	7.9	7.9	30.0	30.0	91.8	91.8	6.5	6.5	2.9	2.9	5	-	-	-	-	-	819973	812654	-	-	-	-		
						4.1	0.1	187	23.8	23.8	7.9	7.9	30.0	30.0	91.7	91.7	6.5	6.5	2.9	2.9	4	-	-	-	-	-	819973	812654	-	-	-	-		
SR2	Cloudy	Moderate	16:18	4.9	Surface	1.0	0.1	104	23.6	23.6	8.0	8.0	30.0	30.0	90.2	90.2	6.4	6.4	5.1	5.1	3	80	81	821478	814174	<0.2	<0.2	0.4	0.5					
						1.0	0.1	107	23.6	23.6	8.0	8.0	30.0	30.0	90.2	90.2	6.4	6.4	5.3	5.3	3	81	81	821478	814174	<0.2	<0.2	0.5	0.5					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	821478	814174	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821478	814174	-	-	-	-		
					Bottom	3.9	0.1	75	23.6	23.6	7.9	7.9	30.0	30.0	89.9	89.9	6.4	6.4	10.7	10.7	5	82	82	821478	814174	<0.2	<0.2	0.4	0.5					
						3.9	0.1	72	23.6	23.6	7.9	7.9	30.0	30.0	89.9	89.9	6.4	6.4	12.0	12.0	4	82	82	821478	814174	<0.2	<0.2	0.5	0.5					
SR3	Cloudy	Moderate	14:57	8.2	Surface	1.0	0.1	9	23.9	23.9	7.9	7.9	27.5	27.6	94.1	94.1	6.8	6.8	0.5	0.5	3	-	-	822123	807583	-	-	-	-					
						1.0	0.1	3	23.9	23.9	7.9	7.9	27.6	27.6	94.0	94.0	6.8	6.8	0.5	0.5	2	-	-	822123	807583	-	-	-	-					
					Middle	4.1	0.2	8	23.8	23.8	7.9	7.9	28.2	28.3	92.1	92.1	6.6	6.6	0.8	0.8	2	-	-	822123	807583	-	-	-	-					
						4.1	0.2	7	23.8	23.8	7.9	7.9	28.3	28.3	92.0	92.1	6.6	6.6	0.7	0.7	3	-	-	822123	807583	-	-	-	-					
					Bottom	7.2	0.1	359	23.7	23.7	7.9	7.9	28.4	28.4	91.7	91.7	6.6	6.6	0.5	0.5	3	-	-	822123	807583	-	-	-	-					
						7.2	0.1	355	23.7	23.7	7.9	7.9	28.4	28.4	91.7	91.7	6.6	6.6	0.5	0.5	3	-	-	822123	807583	-	-	-	-					
SR4A	Fine	Moderate	17:24	9.4	Surface	1.0	0.1	75	22.9	22.9	8.2	8.2	29.5	29.5	87.5	87.5	6.4	6.4	1.1	1.1	4	-	-	817201	807797	-	-	-	-					
						1.0	0.0	73	22.9	22.9	8.2	8.2	29.5	29.5	87.5	87.5	6.4	6.4	1.1	1.1	3	-	-	817201	807797	-	-	-	-					
					Middle	4.7	0.0	96	22.9	22.9	8.2	8.2	29.6	29.6	87.7	87.8	6.4	6.4	2.1	2.1	4	-	-	817201	807797	-	-	-	-					
						4.7	0.0	96	22.9	22.9	8.2	8.2	29.6	29.6	87.8	87.8	6.4	6.4	2.1	2.1	5	-	-	817201	807797	-	-	-	-					
					Bottom	8.4	0.0	63	22.9	23.0	8.2	8.2	29.5	29.5	88.3	88.4	6.4	6.4	3.6	3.6	4	-	-	817201	807797	-	-	-	-					
						8.4	0.0	56	23.0	23.0	8.2	8.2	29.5	29.5	88.4	88.4	6.4	6.4	3.5	3.5	5	-	-	817201	807797	-	-	-	-					
SR5A	Fine	Moderate	17:43	4.0	Surface	1.0	0.0	126	22.9	22.9	8.2	8.2	29.3	29.4	88.2	88.2	6.4	6.4	3.2	3.2	2	-	-	816582	810696	-	-	-	-					
						1.0	0.0	123	22.9	22.9	8.2	8.2	29.4	29.4	88.1	88.1	6.4	6.4	3.2	3.2	4	-	-	816582	810696	-	-	-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	816582	810696	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816582	810696	-	-	-	-		
					Bottom	3.0	0.1	133	22.9	22.9	8.2	8.2	29.4	29.4	87.9	87.9	6.4	6.4	4.1	4.1	4	-	-	816582	810696	-	-	-	-					
						3.0	0.1	129	22.9	22.9	8.2	8.2	29.4	29.4	87.8	87.8	6.4	6.4	4.1	4.1	4	-	-	816582	810696	-	-	-	-					
SR6	Fine	Moderate	18:04	4.2	Surface	1.0	0.0	210	22.9	22.9	8.2	8.2	29.5	29.5	87.2	87.2	6.3	6.3	1.1	1.1	2	-	-	817915	814682	-	-	-	-					
						1.0	0.0	212	22.9	22.9	8.2	8.2	29.5	29.5	87.1	87.1	6.3	6.3	1.1	1.1	3	-	-	817915	814682	-	-	-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	817915	814682	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											

Water Quality Monitoring Results on

25 November 23 during Mid-Ebb Tide

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

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 25 November 23 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	Value	DA
IM9	Cloudy	Moderate	11:41	6.8	Surface	1.0	0.3	147	22.8	22.8	8.2	8.2	29.8	29.8	88.3	88.3	6.4	0.7	6.4	1.3	5	4	85	87	822084	808821	<0.2	0.6	0.7					
						1.0	0.2	141	22.8	8.2	29.8	88.3	6.4	0.7	6	85	<0.2	0.7																
					Middle	3.4	0.3	161	22.8	22.8	8.2	8.2	29.9	29.9	88.2	88.2	6.4	1.2	2	86	<0.2	0.8												
						3.4	0.3	164	22.8	8.2	29.9	88.2	6.4	1.3	4	86	<0.2	0.7																
					Bottom	5.8	0.3	129	22.7	22.7	8.2	8.2	30.0	30.0	88.2	88.2	6.4	1.8	4	89	<0.2	0.7												
						5.8	0.3	134	22.7	8.2	30.0	88.2	6.4	2.0	3	90	<0.2	0.8																
IM10	Cloudy	Moderate	11:34	6.8	Surface	1.0	0.3	110	22.9	22.9	8.2	8.2	29.7	29.7	88.2	88.2	6.4	0.5	6.4	1.4	4	4	85	87	822255	809834	<0.2	0.7	0.8					
						1.0	0.3	106	22.9	8.2	29.7	88.2	6.4	0.5	4	84	<0.2	0.7																
					Middle	3.4	0.4	118	22.8	22.8	8.2	8.2	29.9	29.9	87.5	87.5	6.4	1.2	4	86	<0.2	0.8												
						3.4	0.4	124	22.7	8.2	29.9	87.5	6.3	1.3	4	88	<0.2	0.7																
					Bottom	5.8	0.3	96	22.7	22.7	8.2	8.2	30.0	30.0	87.2	87.2	6.3	2.4	4	89	<0.2	0.8												
						5.8	0.3	102	22.7	8.2	30.0	87.2	6.3	2.5	4	88	<0.2	0.8																
IM11	Cloudy	Moderate	11:29	7.6	Surface	1.0	0.3	112	22.8	22.8	8.2	8.2	29.7	29.7	88.6	88.6	6.4	0.6	6.4	1.4	6	5	85	87	821484	810556	<0.2	0.8	0.8					
						1.0	0.4	105	22.8	8.2	29.7	88.6	6.4	0.6	5	84	<0.2	0.8																
					Middle	3.8	0.4	83	22.8	22.8	8.2	8.2	29.9	29.9	88.6	88.6	6.4	1.5	5	88	<0.2	0.8												
						3.8	0.4	78	22.7	8.2	29.9	88.6	6.4	1.5	4	86	<0.2	0.9																
					Bottom	6.6	0.4	87	22.7	22.7	8.2	8.2	30.0	30.0	89.4	89.5	6.5	2.2	5	89	<0.2	0.7												
						6.6	0.3	84	22.7	8.2	30.0	89.6	6.5	2.2	4	90	<0.2	0.7																
IM12	Cloudy	Moderate	11:07	8.2	Surface	1.0	0.4	112	22.7	22.7	8.2	8.2	29.9	29.9	87.7	87.7	6.4	1.1	6.4	1.2	4	4	84	87	821177	811528	<0.2	0.8	0.8					
						1.0	0.4	115	22.7	8.2	29.9	87.7	6.4	1.2	3	85	<0.2	0.8																
					Middle	4.1	0.4	99	22.7	22.7	8.2	8.2	30.0	30.0	87.9	88.0	6.4	1.3	3	86	<0.2	0.8												
						4.1	0.4	93	22.7	8.2	30.0	88.0	6.4	1.3	4	87	<0.2	0.7																
					Bottom	7.2	0.3	100	22.7	22.7	8.2	8.2	30.0	30.0	89.5	89.7	6.5	1.2	4	89	<0.2	0.8												
						7.2	0.3	94	22.7	8.2	30.0	89.8	6.5	1.2	5	90	<0.2	0.8																
SR1A	Cloudy	Moderate	10:41	4.9	Surface	1.0	0.0	90	22.8	22.8	8.2	8.2	29.9	29.9	86.4	86.5	6.3	0.7	6.3	0.8	4	5	-	-	819983	812663	-	-	-					
						1.0	0.0	93	22.8	8.2	29.9	86.5	6.3	0.7	3	-	-	-																
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-		
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-		
					Bottom	3.9	-	111	22.7	22.7	8.2	8.2	29.9	29.9	88.1	88.3	6.4	0.9	5	-	-	-	-				-	-		-	-	-	-	
						3.9	0.0	107	22.7	8.2	29.9	88.4	6.4	0.9	6	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
SR2	Cloudy	Moderate	10:26	4.7	Surface	1.0	0.2	36	23.0	23.0	8.1	8.1	30.4	30.4	83.8	83.8	6.0	0.9	6.0	1.1	4	4	85	87	821457	814177	<0.2	0.7	0.7					
						1.0	0.3	34	23.0	8.1	30.4	83.7	6.0	0.9	5	84	<0.2	0.7																
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
					Bottom	3.7	0.2	53	23.0	23.0	8.1	8.2	30.6	30.6	83.5	83.5	6.0	1.3	3	89	<0.2	0.7												
						3.7	0.2	45	23.0	8.2	30.6	83.5	6.0	1.3	4	90	<0.2	0.7																
SR3	Cloudy	Moderate	11:50	8.3	Surface	1.0	0.4	156	23.0	23.0	8.2	8.2	29.7	29.7	88.1	88.1	6.4	1.2	6.4	2.2	5	4	-	-	822142	807580	-	-	-					
						1.0	0.3	149	22.9	8.2	29.7	88.0	6.4	1.3	4	-	-	-																
					Middle	4.2	0.3	155	22.7	22.7	8.2	8.2	30.2	30.2	87.8	87.8	6.4	2.4	4	-	-	-	-				-	-		-	-	-	-	
						4.2	0.3	153	22.7	8.2	30.2	87.8	6.4	2.5	4	-	-	-	-	-	-	-	-				-	-		-	-	-		
					Bottom	7.3	0.3	176	22.7	22.7	8.2	8.2	30.3	30.3	89.2	89.3	6.5	2.9	4	-	-	-	-				-	-		-	-	-	-	-
						7.3	0.3	179	22.7	8.2	30.3	89.4	6.5	2.9	3	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
SR4A	Sunny	Moderate	10:44	9.7	Surface	1.0	0.0	81	23.2	23.2	8.0	8.0	31.2	31.2	90.4	90.4	6.5	3.1	6.5	3.8	5	5	-	-	817184	807811	-	-	-					
						1.0	0.0	87	23.2	8.0	31.2	90.4	6.5	3.1	5	-	-	-																
					Middle	4.9	0.0	83	23.2	23.2	8.0	8.0	31.2	31.2	90.3	90.3	6.5	3.7	6	-	-	-	-				-	-		-	-	-	-	
						4.9	0.0	76	23.2	8.0	31.2	90.3	6.5	3.7	5	-	-	-	-	-	-	-	-				-	-		-	-	-		
					Bottom	8.7	0.0	107	23.2	23.2	8.0	8.0	31.2	31.2	91.1	91.1	6.5	4.6	6	-	-	-	-				-	-		-	-	-	-	-
						8.7	0.0	112	23.2	8.0	31.2	91.1	6.5	4.6	5	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
SR5A	Sunny	Calm	10:19	4.4	Surface	1.0	0.1	124	23.2	23.2	8.0	8.0	30.5	30.5	91.2	91.3	6.5	4.9	6.5	4.2	4	4	-	-	816580	810712	-	-	-					
						1.0	0.1	124	23.2	8.0	30.5	91.3	6.5	4.9	4	-	-	-																
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
					Bottom	3.4	0.1	87	23.1	23.1	8.0	8.0	30.8	30.8	94.5	94.7	6.8	3.4	4	-	-	-	-				-	-		-	-	-	-	-
						3.4	0.2	86	23.1	8.0	30.8	94.8	6.8	3.4	5	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
SR6	Sunny	Calm	10:02	4.7	Surface	1.0	0.0	58	23.1	23.1	8.0	8.0	30.2	30.2	87.7	87.7	6.3	1.5	6.3	1.5	6	6	-	-	817889	814681	-	-	-					
						1.0	0.1	56	23.1	8.0	30.2	87.6	6.3	1.6	5	-	-	-																
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
					Bottom	3.7	0.1	69	23.2	23.2	8.0	8.0	30.2	30.2	87.5	87.5	6.3	1.4	6	-	-	-	-				-	-		-	-	-	-	-
						3.7	0.1	67	23.2	8.0	30.2	87.4	6.3	1.3	6	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
SR7	Cloudy	Moderate	09:41	16.5	Surface	1.0	0.1	98	23.4	23.4	8.1	8.1	31.2	31.3	77.5	77.5	5.5	1.6	5.5	3.8	2	3	-	-	823616	823737	-	-	-					
						1.0	0.1	100	23.4	8.1	31.3	77.5	5.5	1.7	3	-	-	-																
					Middle	8.3	0.1	94	23.4	23.4	8.1	8.1	31.3	31.3	77.5	77.5	5.5	2.1	2	-	-	-	-				-	-		-	-	-	-	
						8.3	0.1	89	23.4	8.1	31.3	77.5	5.5	2.1	3	-	-	-	-	-	-	-	-				-	-		-	-	-		
					Bottom	15.5	0.1	91	23.4	23.4	8.1	8.1	31.4	31.4	75.8	75.8	5.4	7.2	4	-	-	-	-				-	-		-	-	-	-	-
						15.5	0.1	89	23.4	8.1	31.4	75.8	5.4	7.2	3	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
SR8	Cloudy	Moderate	11:02	5.8	Surface	1.0	-	-	22.8	22.8	8.2	8.2	30.0	30.0	87.1	87.1	6.3	1.4	6.3	1.6	5	4	-	-	820373	811605	-	-	-					
						1.0	-	-	22.8	8.2	30.0	87.1	6.3	1.5	4	-	-	-																
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	
					Bottom	4.8	-	-	22.8	22.8	8.2	8.2	30.1	30.1	88.1	88.2	6.4	1.7	3	-	-	-	-				-	-		-	-	-	-	-
						4.8	-	-	22.8	8.2	30.1	88.3	6.4	1.7	2	-	-	-	-	-	-	-	-				-	-		-	-	-	-	

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 November 23 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	Moderate	17:11	7.1	Surface	1.0	0.4	17	23.6	23.6	8.0	8.0	31.0	31.0	91.9	91.9	6.5	1.4	4	4	84	87	81	85	815643	804264	<0.2	0.4	0.4	
						1.0	0.4	18	23.6		8.0		31.0		91.9		6.5	1.5	3		84		84				<0.2	0.4		
					Middle	3.6	0.3	43	23.5	23.5	8.0	8.0	31.4	31.4	90.5	90.5	6.4	4.6	4	4	87	87	87	87			<0.2	0.4	0.4	
						3.6	0.3	45	23.5		8.0		31.4		90.5		6.4	4.6	4		87		87				<0.2	0.4		
					Bottom	6.1	0.3	43	23.5	23.5	8.0	8.0	31.7	31.7	89.3	89.3	6.3	6.9	5	5	90	90	90	90			<0.2	0.4	0.4	
						6.1	0.3	48	23.5		8.0		31.7		89.3		6.3	6.9	5		90		90				<0.2	0.4		
C2	Cloudy	Moderate	15:33	11.4	Surface	1.0	0.1	175	22.7	22.8	8.2	8.2	30.2	30.2	87.8	87.1	6.4	2.0	5	5	78	78	80	80	825658	806929	<0.2	0.8	0.7	
						1.0	0.2	169	22.8		8.2		30.1		86.4		6.3	2.1	4	4	78		80				<0.2	0.7	0.7	
					Middle	5.7	0.1	200	22.8	22.8	8.2	8.2	30.2	30.2	86.0	86.0	6.2	6.1	3	3	81	81	81	81			<0.2	0.7	0.7	
						5.7	0.1	199	22.8		8.2		30.2		86.0		6.2	6.4	3		81		81				<0.2	0.7		
					Bottom	10.4	0.1	183	22.9	22.9	8.2	8.2	30.1	30.1	86.2	86.3	6.2	10.5	3	3	82	82	82	82			<0.2	0.8	0.8	
						10.4	0.1	189	22.9		8.2		30.0		86.3		6.2	10.2	3		83		83				<0.2	0.7		
C3	Cloudy	Moderate	17:37	10.2	Surface	1.0	0.4	267	23.1	23.1	8.2	8.2	30.4	30.4	85.8	85.7	6.2	0.6	3	3	78	78	81	81	822097	817790	<0.2	0.8	0.8	
						1.0	0.4	264	23.1		8.2		30.4		85.6		6.2	0.7	3		78		81				<0.2	0.8		
					Middle	5.1	0.5	255	23.1	23.1	8.1	8.1	30.8	30.8	83.3	83.3	6.0	2.3	3	3	81	81	81	81			<0.2	0.7	0.7	
						5.1	0.5	252	23.1		8.1		30.8		83.3		6.0	2.5	3		81		81				<0.2	0.7		
					Bottom	9.2	0.5	249	23.1	23.1	8.1	8.1	30.7	30.7	84.4	84.5	6.1	6.5	3	3	84	84	84	84			<0.2	0.9	0.9	
						9.2	0.5	242	23.1		8.1		30.7		84.5		6.1	6.5	3		82		82				<0.2	0.8		
IM1	Sunny	Moderate	16:49	6.2	Surface	1.0	0.2	8	23.7	23.7	8.0	8.0	30.7	30.7	91.3	91.3	6.5	2.8	5	5	85	85	85	85	818358	806451	<0.2	0.5	0.5	
						1.0	0.1	7	23.7		8.0		30.7		91.3		6.5	2.9	4	4	85		85				<0.2	0.5		
					Middle	3.1	0.1	23	23.5	23.5	8.0	8.0	30.9	30.9	90.6	90.6	6.5	5.1	4	4	87	87	87	87			<0.2	0.5	0.5	
						3.1	0.1	16	23.5		8.0		30.9		90.6		6.5	5.1	4		87		87				<0.2	0.5		
					Bottom	5.2	0.2	1	23.4	23.4	8.0	8.0	31.7	31.7	90.5	90.5	6.4	6.4	4	4	91	91	91	91			<0.2	0.5	0.5	
						5.2	0.2	2	23.4		8.0		31.7		90.5		6.4	6.5	3		91		91				<0.2	0.4		
IM2	Sunny	Moderate	16:39	6.5	Surface	1.0	0.1	322	23.5	23.5	8.0	8.0	31.0	31.0	90.5	90.5	6.4	3.3	5	5	83	83	86	86	818849	806171	<0.2	0.5	0.5	
						1.0	0.1	323	23.5		8.0		31.0		90.5		6.4	3.3	4	4	83		86				<0.2	0.5		
					Middle	3.3	0.2	294	23.4	23.4	8.0	8.0	31.5	31.5	90.2	90.2	6.4	5.4	4	4	86	86	86	86			<0.2	0.5	0.5	
						3.3	0.2	299	23.4		8.0		31.5		90.2		6.4	5.4	5	5	86		86				<0.2	0.5		
					Bottom	5.5	0.1	328	23.4	23.4	8.0	8.0	31.7	31.7	89.8	89.8	6.4	9.5	5	5	90	90	90	90			<0.2	0.4	0.4	
						5.5	0.1	329	23.4		8.0		31.7		89.8		6.4	9.5	4		90		90				<0.2	0.5		
IM3	Sunny	Moderate	16:30	6.9	Surface	1.0	0.1	329	23.4	23.4	8.0	8.0	31.0	31.0	90.1	90.1	6.4	5.3	4	4	82	82	86	86	819424	806017	<0.2	0.5	0.5	
						1.0	0.1	322	23.4		8.0		31.0		90.1		6.4	5.3	2	2	82		86				<0.2	0.4		
					Middle	3.5	0.1	349	23.4	23.4	8.0	8.0	31.3	31.3	89.6	89.6	6.4	8.4	4	4	86	86	86	86			<0.2	0.4	0.4	
						3.5	0.2	354	23.4		8.0		31.3		89.6		6.4	8.3	3	3	87	87	87	87			<0.2	0.5	0.5	
					Bottom	5.9	0.1	350	23.4	23.4	8.0	8.0	31.6	31.6	89.4	89.5	6.4	6.6	4	4	91	91	91	91			<0.2	0.5	0.5	
						5.9	0.0	350	23.4		8.0		31.6		89.5		6.4	6.6	4		92		92				<0.2	0.6		
IM4	Sunny	Moderate	16:21	7.9	Surface	1.0	0.1	309	23.4	23.4	8.0	8.0	30.6	30.6	90.6	90.6	6.5	3.4	3	3	83	83	88	88	819584	805026	<0.2	0.5	0.5	
						1.0	0.1	314	23.4		8.0		30.6		90.6		6.5	3.4	3	3	83		88				<0.2	0.4		
					Middle	4.0	0.1	340	23.4	23.4	8.0	8.0	31.1	31.1	90.2	90.2	6.4	6.7	4	4	88	88	88	88			<0.2	0.4	0.4	
						4.0	0.1	346	23.4		8.0		31.1		90.2		6.4	6.7	3	3	88		88				<0.2	0.5	0.5	
					Bottom	6.9	0.1	304	23.4	23.4	8.0	8.0	31.5	31.5	89.8	89.9	6.4	8.0	4	4	91	91	91	91			<0.2	0.5	0.5	
						6.9	0.1	307	23.4		8.0		31.5		89.9		6.4	8.0	3		91		91				<0.2	0.5		
IM5	Sunny	Rough	16:09	6.8	Surface	1.0	0.2	334	23.5	23.6	8.0	8.0	30.5	30.5	92.6	92.6	6.6	2.1	5	5	84	84	87	87	820578	804916	<0.2	0.5	0.5	
						1.0	0.2	330	23.6		8.0		30.4		92.6		6.6	2.0	5		84		87				<0.2	0.5		
					Middle	3.4	0.2	337	23.4	23.4	8.0	8.0	31.3	31.3	90.9	90.9	6.5	9.9	4	4	87	87	87	87			<0.2	0.5	0.5	
						3.4	0.2	337	23.4		8.0		31.3		90.9		6.5	10.0	3	3	87		87				<0.2	0.5		
					Bottom	5.8	0.2	317	23.4	23.4	8.0	8.0	31.4	31.4	89.1	89.1	6.4	8.3	3	3	90	90	90	90			<0.2	0.5	0.5	
						5.8	0.2	309	23.4		8.0		31.4		89.1		6.4	8.4	2		90		90				<0.2	0.6		
IM6	Sunny	Rough	15:53	7.1	Surface	1.0	0.2	302	23.4	23.4	8.0	8.0	31.3	31.3	90.9	90.9	6.5	7.3	9	9	83	83	87	87	821076	805825	<0.2	0.5	0.5	
						1.0	0.2	308	23.4		8.0		31.3		90.9		6.5	7.3	10	10	83		87				<0.2	0.4		
					Middle	3.6	0.2	277	23.4	23.4	8.0	8.0	31.3	31.3	90.8	90.8	6.5	6.9	9	8	87	87	87	87			<0.2	0.5	0.5	
						3.6	0.2	273	23.4		8.0		31.3		90.8		6.5	6.9	8		87		87				<0.2	0.5		
					Bottom	6.1	0.1	269	23.4	23.4	8.0	8.0	31.4	31.4	90.8	90.8	6.5	9.8	6	6	90	90	90	90			<0.2	0.5	0.5	
						6.1	0.1	264	23.4		8.0		31.4		90.8		6.5	9.8	6		90		90				<0.2	0.5		
IM7	Sunny	Rough	15:38	7.5	Surface	1.0	0.2	255	23.5	23.5	8.0	8.0	30.2	30.2	95.4	95.4	6.8	1.3	3	3	82	83	86	86	821338	806824	<0.2	0.5	0.5	
						1.0	0.2	256	23.5		8.0		30.2		95.4		6.8	1.4	4	4	83		86				<0.2	0.5		
					Middle	3.8	0.2	237	23.5	23.5	8.0	8.0	30.3	30.4	91.4	91.4	6.5	2.6	3	3	86	86	86	86			<0.2	0.5	0.5	
						3.8	0.1	229	23.5		8.0		30.4		91.3		6.5	2.7	3	3	86		86				<0.2	0.5		
					Bottom	6.5	0.1	260	23.4	23.4	8.0	8.0	31.0	31.0	90.9	90.9	6.5	5.0	3	3	91	91	91	91			<0.2	0.5	0.5	
						6.5	0.2	252	23.3		8.0		31.0		90.9		6.5	5.1	2		91		91				<0.2	0.5		
IM8	Cloudy	Moderate	16:10	7.9	Surface	1.0	0.2	266	22.8	22.8	8.2	8.2	29.9	29.9	88.3	88.3	6.4	13.8	2	2	78	78	82	82	821695	807855	<0.2	0.7	0.8	
						1.0	0.1	272	22.8		8.2		29.8		88.3		6.4	13.9	2	2	78		82				<0.2	0.8		
					Middle	4.0	0.2	247	22.7	22.7	8.2	8.2	30.4	30.5	88.1	88.1	6.4	2.3	2	2	82	82	82	82			<0.2	0.7	0.8	
						4.0	0.2	23																						

Water Quality Monitoring

25 November 23 during Mid-Flood Tide

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 28 November 23 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
C1	Cloudy	Moderate	13:10	8.4	Surface	1.0	0.1	191	23.7	23.7	8.2	8.2	28.7	28.7	96.8	96.8	6.9	2.7	6.8	2.7	4.1	3		83		86	815642	804250	<0.2		0.7
						1.0	0.1	187	23.7		8.2		28.7		96.7		6.9	2.7		4		84		85			<0.2		0.6		
					Middle	4.2	0.1	202	23.6	23.6	8.2	8.2	29.3	29.4	95.6	94.0	6.9	4.3		3	3	86	86	87			<0.2		0.7		
						4.2	0.1	197	23.6		8.2		29.4		92.3		6.6	4.5		3		87		88			<0.2		0.8		
					Bottom	7.4	0.1	209	23.5	23.5	8.2	8.2	29.5	29.5	91.3	91.3	6.6	5.3		3		89		90			<0.2		0.8		
						7.4	0.2	209	23.5		8.2		29.5		91.3		6.6	5.3		2		88			<0.2		0.9				
C2	Misty	Moderate	11:51	11.0	Surface	1.0	0.2	338	23.4	23.4	8.0	8.0	27.9	28.0	94.9	95.1	6.9	1.7	7.0	1.7	2.6	2		47		47	825666	806967	<0.2		0.7
						1.0	0.2	345	23.4	23.4	7.9		28.0		95.2		7.0	1.7		2		47		48			<0.2		0.6		
					Middle	5.5	0.2	341	23.4	23.4	7.9	7.9	28.0	28.0	96.1	96.3	7.0	2.9		3	3	82	82	83			<0.2		0.6		
						5.5	0.3	343	23.4		7.9		28.0		96.4		7.1	2.9		3		83		84			<0.2		0.7		
					Bottom	10.0	0.2	16	23.4	23.4	7.9	7.9	28.0	28.0	97.4	97.7	7.1	3.2		3		92		92			<0.2		0.7		
						10.0	0.2	23	23.4		7.9		28.0		97.9		7.2	3.1		3		91			<0.2		0.7				
C3	Misty	Moderate	13:47	11.2	Surface	1.0	0.1	66	23.9	23.9	8.0	8.0	30.2	30.2	88.6	88.7	6.3	1.5	6.4	1.5	2.4	2		52		52	822112	817805	<0.2		0.7
						1.0	0.1	71	23.9		8.0		30.2		88.8		6.4	1.5		2		52		53			<0.2		0.6		
					Middle	5.6	0.1	76	23.9	23.9	8.0	8.0	30.2	30.2	89.6	89.8	6.4	2.6		2	3	85	85	86			<0.2		0.7		
						5.6	0.1	82	23.9		8.0		30.2		90.0		6.4	2.6		3		85		86			<0.2		0.7		
					Bottom	10.2	0.2	78	23.9	23.9	8.0	8.0	30.2	30.2	91.8	93.8	6.6	3.1		4		87		88			<0.2		0.7		
						10.2	0.2	83	23.9	23.9	8.0	8.0	30.2	30.2	95.8	93.8	6.9	3.1		3		87			<0.2		0.6				
IM1	Cloudy	Moderate	12:42	6.6	Surface	1.0	0.0	87	23.6	23.6	8.2	8.2	28.2	28.3	97.7	97.6	7.1	2.9	6.8	2.9	5.6	4		85		85	818358	806450	<0.2		0.7
						1.0	0.0	82	23.6		8.2		28.3		97.5		7.0	2.9		4		87		88			<0.2		0.7		
					Middle	3.3	0.0	95	23.3	23.3	8.2	8.2	28.6	28.6	91.2	91.2	6.6	3.4		4	4	87	87	88			<0.2		0.8		
						3.3	0.1	99	23.3		8.2		28.6		91.1		6.6	3.4		5		87		88			<0.2		0.7		
					Bottom	5.6	0.0	114	23.4	23.4	8.2	8.2	28.5	28.5	91.6	91.8	6.6	10.6		5		88		89			<0.2		0.7		
						5.6	0.0	117	23.4	23.4	8.2	8.2	28.5	28.5	92.0	91.8	6.7	10.3		5		91			<0.2		0.7				
IM2	Cloudy	Moderate	12:39	6.8	Surface	1.0	0.1	67	23.5	23.5	8.2	8.2	28.3	28.3	95.5	95.5	6.9	3.0	6.7	3.0	4.8	<2		85		85	818868	806201	<0.2		0.7
						1.0	0.1	62	23.5		8.2		28.3		95.4		6.9	3.0		<2		84		85			<0.2		0.6		
					Middle	3.4	0.1	67	23.3	23.3	8.2	8.2	28.5	28.5	89.2	89.1	6.5	2.8		3	3	88	88	89			<0.2		0.7		
						3.4	0.1	64	23.3		8.2		28.5		88.9		6.4	2.9		2		89		90			<0.2		0.6		
					Bottom	5.8	0.1	44	23.2	23.2	8.2	8.2	28.7	28.7	87.2	87.2	6.3	8.6	6.3	3		94		94			<0.2		0.7		
						5.8	0.1	45	23.2		8.2		28.7		87.2		6.3	8.5		4		93			<0.2		0.8				
IM3	Cloudy	Moderate	12:36	6.8	Surface	1.0	0.1	48	23.4	23.4	8.2	8.2	28.5	28.5	91.4	91.3	6.6	3.8	6.6	4	4	85		85	819407	806003	<0.2		0.7		
						1.0	0.1	54	23.4	23.4	8.2		28.5		91.2		6.6	4.0		5		86		87			<0.2		0.7		
					Middle	3.4	0.1	47	23.4	23.4	8.2	8.2	28.9	28.9	90.9	91.0	6.6	5.0	4.6	3	4	88	88	89			<0.2		0.7		
						3.4	0.1	50	23.4		8.2		28.9		91.0		6.6	5.0		4		87		88			<0.2		0.6		
					Bottom	5.8	0.1	54	23.3	23.3	8.2	8.2	28.9	28.9	91.7	91.8	6.6	4.9	6.6	4		93		93			<0.2		0.7		
						5.8	0.1	60	23.3		8.2		28.8		91.9		6.6	4.8		3		92			<0.2		0.7				
IM4	Cloudy	Moderate	12:29	7.0	Surface	1.0	0.0	81	23.6	23.6	8.2	8.2	28.2	28.2	97.1	97.1	7.0	3.5	7.0	3.5	5.1	5		86		86	819566	805021	<0.2		0.7
						1.0	0.0	86	23.6		8.2		28.1		97.0		7.0	3.4		4		85		86			<0.2		0.6		
					Middle	3.5	0.0	56	23.5	23.5	8.2	8.2	28.4	28.5	96.1	96.0	6.9	4.6		4	4	88	88	89			<0.2		0.6		
						3.5	0.1	59	23.5		8.2		28.5		95.9		6.9	4.9		3		89		90			<0.2		0.7		
					Bottom	6.0	0.0	80	23.4	23.4	8.2	8.2	29.1	29.1	90.1	90.2	6.5	7.0	6.5	4		93		93			<0.2		0.7		
						6.0	0.0	74	23.4		8.2		29.1		90.2		6.5	7.1		2		92			<0.2		0.7				
IM5	Cloudy	Moderate	12:21	7.2	Surface	1.0	0.1	53	23.6	23.6	8.2	8.2	28.0	28.0	94.2	94.3	6.8	2.0	6.8	2	3	85		85	820586	804906	<0.2		0.7		
						1.0	0.1	58	23.6		8.2		28.0		94.3		6.8	2.0		2		85		86			<0.2		0.8		
					Middle	3.6	0.1	35	23.5	23.5	8.2	8.2	28.2	28.3	94.0	94.0	6.8	2.5		4	3	87	87	88			<0.2		0.7		
						3.6	0.1	41	23.5		8.2		28.3		93.9		6.8	2.6		3		89		90			<0.2		0.7		
					Bottom	6.2	0.1	49	23.5	23.5	8.2	8.2	28.4	28.4	93.8	93.8	6.8	2.8	6.8	3		84		85			<0.2		0.7		
						6.2	0.1	51	23.5		8.2		28.4		93.8		6.8	2.8		4		89			<0.2		0.7				
IM6	Cloudy	Moderate	12:13	7.6	Surface	1.0	0.2	51	23.6	23.6	8.2	8.2	28.1	28.1	92.2	92.2	6.7	1.7	6.6	1.7	1.6	4		84		84	821081	805828	<0.2		0.6
						1.0	0.1	52	23.6		8.2		28.1		92.1		6.7	1.7		4		83		84			<0.2		0.7		
					Middle	3.8	0.1	64	23.3	23.3	8.2	8.2	28.5	28.5	90.4	90.5	6.5	1.6		4	4	88	88	89			<0.2		0.6		
						3.8	0.0	63	23.3		8.2		28.5		90.5		6.6	1.6		3		89		90			<0.2		0.6		
					Bottom	6.6	0.1	72	23.4	23.4	8.2	8.2	28.4	28.4	91.9	92.1	6.7	1.6	6.7	4		90		91			<0.2		0.6		
						6.6	0.1	67	23.4		8.2		28.4		92.2		6.7	1.6		4		91			<0.2		0.7				
IM7	Cloudy	Moderate	11:52	7.7	Surface	1.0	0.2	49	23.5	23.5	8.2	8.2	28.3	28.4	90.2	90.2	6.5	1.9	6.5	1.9	4.0	2		83		83	821362	806827	<0.2		0.7
						1.0	0.2	56	23.5		8.2		28.4		90.1		6.5	1.9		3		83		84			<0.2		0.7		
					Middle	3.9	0.1	47	23.4	23.4	8.2	8.2	28.4	28.4	89.6	89.6	6.5	2.0		2	3	85	85	86			<0.2		0.7		
						3.9	0.2	42	23.4		8.2		28.4		89.6		6.5	2.0		4		87		88			<0.2		0.7		
					Bottom	6.7	0.1	69	23.4	23.4	8.2	8.2	28.4	28.4	89.6	89.7	6.5	8.0	6.5	4		88		89			<0.2		0.6		
						6.7	0.2	76	23.4		8.2		28.4		89.7		6.5	8.4		3		89			<0.2		0.6				
IM8	Misty	Moderate	12:10	7.0	Surface	1.0	0.2	43	23.4	23.4	8.0	8.0	28.0	28.0	93.3	93.5	6.8	1.0	6.9	1.1	2.1	3		45		45	821675	807826	<0.2		0.7
						1.0	0.2	40	23.4	23.4	8.0		28.0		93.7		6.9	1.1		4		45		46			<0.2		0.6		
					Middle	3.5	0.2	45	23.3	23.3	8.0	8.0	28.2	28.2	95.2	95.4	7.0	2.1		3	4	81	81	82			<0.2		0.6		
						3.5	0.2	51	23.3		8.0		28.2		95.																

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 November 23 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	Misty	Moderate	12:16	7.2	Surface	1.0	0.1	17	23.3	23.3	8.0	8.0	29.3	29.4	90.6	90.7	6.6	6.8	1.2	2.4	3	4	56	76	822098	808802	<0.2	-	0.7	-			
						1.0	0.1	18	23.3	23.3	8.0	8.0	29.4	29.5	94.8	95.0	6.9	6.9	1.3	2.8	4	4	56	82	<0.2	-	0.6	-					
					Middle	3.6	0.1	15	23.3	23.3	8.0	8.0	29.5	29.6	94.8	95.1	6.9	6.9	2.8	2.8	4	4	82	83	<0.2	-	0.6	-					
						3.6	0.2	15	23.3	23.3	8.0	8.0	29.6	29.6	96.7	97.1	7.0	7.1	3.2	3.1	4	4	90	90	<0.2	-	0.6	-					
					Bottom	6.2	0.2	17	23.3	23.3	8.0	8.0	29.6	29.6	96.7	97.1	7.0	7.1	3.2	3.1	4	4	90	90	<0.2	-	0.6	-					
						6.2	0.1	14	23.3	23.3	8.0	8.0	29.6	29.6	97.5	97.5	7.1	7.1	3.1	3.1	4	4	90	90	<0.2	-	0.6	-					
IM10	Misty	Moderate	12:25	7.6	Surface	1.0	0.1	26	23.4	23.4	8.0	8.0	29.6	29.6	91.0	91.1	6.6	6.7	1.0	1.6	3	4	52	77	822250	809826	<0.2	-	0.6	-			
						1.0	0.1	22	23.4	23.4	8.0	8.0	29.6	29.6	91.2	91.1	6.6	6.8	1.1	1.4	4	4	52	89	<0.2	-	0.6	-					
					Middle	3.8	0.0	14	23.4	23.4	8.0	8.0	29.6	29.6	93.8	94.2	6.8	6.9	1.4	1.5	4	3	89	89	<0.2	-	0.8	-					
						3.8	0.1	8	23.4	23.4	8.0	8.0	29.6	29.6	94.5	94.5	6.9	6.8	1.5	1.3	3	3	89	89	<0.2	-	0.7	-					
					Bottom	6.6	0.1	7	23.4	23.4	8.0	8.0	29.5	29.6	96.6	97.0	7.0	7.1	2.1	2.1	4	4	90	90	<0.2	-	0.6	-					
						6.6	0.2	1	23.4	23.4	8.0	8.0	29.5	29.6	97.4	97.4	7.1	7.1	2.2	2.2	4	4	90	90	<0.2	-	0.6	-					
IM11	Misty	Moderate	12:39	8.0	Surface	1.0	0.1	69	23.4	23.4	8.0	8.0	29.6	29.6	90.3	90.4	6.6	6.6	1.1	2.4	3	3	62	75	821524	810540	<0.2	-	0.8	-			
						1.0	0.0	63	23.4	23.4	8.0	8.0	29.6	29.6	90.5	90.5	6.6	6.6	1.2	2.7	4	3	63	78	<0.2	-	0.7	-					
					Middle	4.0	0.1	65	23.3	23.3	8.0	8.0	29.6	29.6	91.1	91.2	6.6	6.6	2.6	3.0	3	3	78	78	<0.2	-	0.9	-					
						4.0	0.1	61	23.3	23.3	8.0	8.0	29.6	29.6	91.3	91.2	6.6	6.6	2.7	3.0	3	3	78	78	<0.2	-	0.9	-					
					Bottom	7.0	0.1	47	23.3	23.3	8.0	8.0	29.6	29.6	97.1	97.4	7.0	7.1	3.3	3.3	3	2	85	85	<0.2	-	0.8	-					
						7.0	0.1	44	23.3	23.3	8.0	8.0	29.6	29.6	97.7	97.7	7.1	7.1	3.3	3.3	2	2	85	85	<0.2	-	0.9	-					
IM12	Misty	Moderate	12:46	8.0	Surface	1.0	0.1	85	23.4	23.4	8.0	8.0	29.6	29.6	90.3	90.4	6.5	6.6	1.0	1.5	3	3	48	71	821182	811504	<0.2	-	0.9	-			
						1.0	0.1	88	23.4	23.4	8.0	8.0	29.6	29.6	90.5	90.5	6.6	6.6	1.1	1.2	3	3	48	79	<0.2	-	0.9	-					
					Middle	4.0	0.1	97	23.3	23.3	8.0	8.0	29.6	29.6	91.2	91.2	6.6	6.6	1.2	1.2	4	3	79	79	<0.2	-	0.6	-					
						4.0	0.0	92	23.3	23.3	8.0	8.0	29.6	29.6	91.2	91.2	6.6	6.6	1.2	1.2	3	3	79	79	<0.2	-	0.6	-					
					Bottom	7.0	0.1	114	23.3	23.3	8.0	8.0	29.6	29.6	97.2	97.4	7.1	7.1	2.1	2.1	4	4	87	87	<0.2	-	0.8	-					
						7.0	0.1	119	23.3	23.3	8.0	8.0	29.6	29.6	97.5	97.5	7.1	7.1	2.2	2.2	2	2	87	87	<0.2	-	0.9	-					
SR1A	Misty	Moderate	13:16	4.2	Surface	1.0	0.0	27	23.2	23.2	8.0	8.0	29.6	29.6	90.3	92.3	6.6	6.8	1.1	1.9	3	-	-	-	819970	812659	-	-	-	-			
						1.0	0.0	24	23.2	23.2	8.0	8.0	29.6	29.6	94.2	94.2	6.9	6.9	1.2	1.2	2	-	-	-	-	-	-	-	-	-			
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.2	0.0	16	23.2	23.2	8.0	8.0	29.5	29.6	95.7	96.1	7.0	7.0	2.7	2.7	4	-	-	-	-	-	-	-	-	-	-	-	-
						3.2	0.0	21	23.2	23.2	8.0	8.0	29.5	29.6	96.4	96.4	7.0	7.0	2.6	2.6	3	-	-	-	-	-	-	-	-	-	-	-	-
SR2	Misty	Moderate	13:27	5.0	Surface	1.0	0.1	46	23.4	23.4	8.0	8.0	29.6	29.6	94.9	95.1	6.9	6.9	2.1	2.7	3	72	-	821482	814145	<0.2	-	0.8	-				
						1.0	0.2	38	23.4	23.4	8.0	8.0	29.6	29.6	95.2	95.2	6.9	6.9	2.2	2.2	2	72	-	72	<0.2	-	0.9	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	4.0	0.1	24	23.4	23.4	8.0	8.0	29.6	29.6	98.0	98.5	7.1	7.2	3.2	3.1	4	102	-	102	<0.2	-	0.8	-					
						4.0	0.2	20	23.4	23.4	8.0	8.0	29.6	29.6	99.0	99.0	7.2	7.2	3.1	3.1	4	102	-	102	<0.2	-	0.9	-					
SR3	Misty	Moderate	11:54	9.2	Surface	1.0	0.2	11	23.5	23.5	8.0	8.0	27.9	27.9	90.1	90.2	6.6	6.7	1.1	2.1	4	-	-	-	822149	807551	-	-	-	-			
						1.0	0.2	13	23.5	23.5	8.0	8.0	27.9	27.9	90.2	90.2	6.6	6.6	1.2	3	-	-	-	-	-	-	-	-	-	-	-		
					Middle	4.6	0.2	3	23.5	23.5	8.0	8.0	27.9	27.9	91.3	91.6	6.7	6.7	2.1	2.2	3	4	-	-	-	-	-	-	-	-	-	-	
						4.6	0.1	357	23.5	23.5	8.0	8.0	27.9	27.9	91.9	91.9	6.7	6.7	2.2	2.4	4	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	8.2	0.2	359	23.4	23.4	8.0	8.0	27.9	27.9	94.2	94.4	6.9	6.9	3.1	3.1	5	-	-	-	-	-	-	-	-	-	-	-	-
						8.2	0.2	352	23.4	23.4	8.0	8.0	27.9	27.9	94.5	94.5	6.9	6.9	3.1	3.1	4	-	-	-	-	-	-	-	-	-	-	-	-
SR4A	Cloudy	Moderate	13:35	8.5	Surface	1.0	0.0	30	23.7	23.7	8.2	8.2	28.3	28.3	98.3	98.3	7.1	7.0	2.4	2.3	3	-	-	-	817186	807805	-	-	-	-			
						1.0	0.1	35	23.7	23.7	8.2	8.2	28.3	28.5	98.3	98.3	7.1	6.8	2.5	4	-	-	-	-	-	-	-	-	-	-	-		
					Middle	4.3	0.0	47	23.5	23.5	8.2	8.2	28.5	28.5	93.9	93.9	6.8	6.8	2.1	2.2	3	3	-	-	-	-	-	-	-	-	-	-	
						4.3	0.0	43	23.5	23.5	8.2	8.2	28.5	28.5	93.8	93.8	6.8	6.8	2.2	2.4	4	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	7.5	0.1	22	23.5	23.5	8.2	8.2	28.5	28.5	93.9	94.0	6.8	6.8	2.3	2.4	2	-	-	-	-	-	-	-	-	-	-	-	-
						7.5	0.0	16	23.5	23.5	8.2	8.2	28.5	28.5	94.0	94.0	6.8	6.8	2.4	2.4	4	-	-	-	-	-	-	-	-	-	-	-	-
SR5A	Cloudy	Moderate	13:50	4.2	Surface	1.0	0.1	98	23.7	23.7	8.2	8.2	28.8	28.8	94.6	94.6	6.8	6.8	4.0	7.5	3	-	-	-	816601	810682	-	-	-	-			
						1.0	0.1	98	23.7	23.7	8.2	8.2	28.8	28.8	94.6	94.6	6.8	6.8	3.9	4	-	-	-	-	-	-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.2	0.1	103	23.7	23.7	8.2	8.2	28.8	28.8	95.0	95.1	6.8	6.8	11.0	11.1	4	-	-	-	-	-	-	-	-	-	-	-	-
						3.2	0.1	109	23.7	23.7	8.2	8.2	28.8	28.8	95.1	95.1	6.8	6.8	11.1	11.1	3	-	-	-	-	-	-	-	-	-	-	-	-
SR6	Cloudy	Moderate	14:14	4.4	Surface	1.0	0.0	60	23.8	23.8	8.2	8.2	28.4	28.4	97.0	97.0	7.0	7.0	12.2	10.8	3	-	-	-	817903	814681	-	-	-	-			
						1.0	0.1	53	23.8	23.8	8.2	8.2	28.4	28.4	97.0	97.0	7.0	7.0	12.2	4	-	-	-	-	-	-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.4	0.1	49	23.7	23.7	8.2	8.2	28.6	28.6	96.4	96.5	6.9	6.9	9.6	9.2	4	-	-	-	-	-	-	-	-	-	-	-	
						3.4	0.1	44	23.7	23.7	8.2	8.2	28.6	28.6	96.5	96.5	6.9	6.9	9.2	9.2	3	-	-	-	-	-	-	-	-	-	-	-	-
SR7	Misty	Moderate	14:18	15.0	Surface	1.0	0.2	78	23.8	23.8	8.0	8.0	30.1	30.1	89.6	89.8	6.4	6.5	0.5	1.1	3	-	-	-	823657	823739	-	-</					

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

Water Quality Monitoring

Water Quality Monitoring Results on

28 November 23 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	08:43	8.3	Surface	1.0	0.4	19	23.5	23.5	8.2	8.2	28.0	28.0	95.7	95.7	6.9	6.7	10.2		3		85		87	815632	804269	<0.2	0.7	
						1.0	0.4	20	23.5		8.2		28.0		95.7		6.9	6.7	10.2		2		85					<0.2	0.7	
					Middle	4.2	0.5	37	23.4	23.4	8.2	8.2	29.0	29.1	90.7	90.7	6.5	6.5	7.4		3	3	87					0.8		
						4.2	0.5	44	23.4		8.2		29.1		90.6		6.5	6.5	7.6		3		88					<0.2	0.8	
					Bottom	7.3	0.4	11	23.3	23.3	8.2	8.2	29.5	29.5	90.4	90.4	6.5	6.5	8.8		3		89					<0.2	0.7	
						7.3	0.4	8	23.3		8.2		29.4		90.4		6.5	6.5	8.3		3		90					<0.2	0.7	
C2	Misty	Moderate	10:00	11.0	Surface	1.0	0.4	338	23.3	23.3	8.0	8.0	29.1	29.1	92.3	92.3	6.7	6.7	1.2		3		53		78	825681	806926	<0.2	0.9	
						1.0	0.4	336	23.3		8.0		29.1		92.3		6.7	6.7	1.2		2		52					<0.2	1.0	
					Middle	5.5	0.4	351	23.3	23.3	8.0	8.0	29.2	29.2	92.4	92.4	6.7	6.7	1.6		3	4	91					<0.2	0.6	
						5.5	0.4	348	23.3		8.0		29.1		92.4		6.7	6.7	1.5		4		91					<0.2	0.7	
					Bottom	10.0	0.5	14	23.3	23.3	8.0	8.0	29.2	29.2	93.0	93.1	6.7	6.7	2.2		5		90					<0.2	1.0	
						10.0	0.5	19	23.3		8.0		29.1		93.1		6.7	6.7	2.2		4		90					<0.2	0.9	
C3	Misty	Moderate	08:07	10.2	Surface	1.0	0.5	250	23.6	23.6	7.9	7.9	30.9	30.9	84.0	84.0	6.0	6.1	2.2		4		44		72	822120	817820	<0.2	0.6	
						1.0	0.5	246	23.6		7.9		30.9		84.0		6.0	6.1	2.1		3		44					<0.2	0.7	
					Middle	5.1	0.5	272	23.6	23.6	7.9	7.9	30.9	30.9	85.7	85.8	6.1	6.1	3.0		3	4	86					<0.2	1.0	
						5.1	0.6	272	23.6		7.9		30.9		85.9		6.1	6.1	3.1		4		86					<0.2	0.9	
					Bottom	9.2	0.5	240	23.6	23.6	7.9	7.9	30.9	30.9	89.5	89.7	6.4	6.4	4.2		4		86					<0.2	0.9	
						9.2	0.5	241	23.6		7.9		30.9		89.9		6.4	6.4	4.6		5		87					<0.2	1.0	
IM1	Cloudy	Moderate	08:55	7.0	Surface	1.0	0.3	12	23.5	23.5	8.2	8.2	28.3	28.3	92.7	92.8	6.7	6.6	3.0		4		85		89	818370	806436	<0.2	0.8	
						1.0	0.3	6	23.5		8.2		28.3		92.8		6.7	6.6	3.0		3		85					<0.2	0.8	
					Middle	3.5	0.3	15	23.3	23.3	8.2	8.2	28.7	28.7	88.3	88.3	6.4	6.4	4.3		3	4	89					<0.2	0.8	
						3.5	0.3	17	23.3		8.2		28.7		88.3		6.4	6.4	4.3		4		88					<0.2	0.8	
					Bottom	6.0	0.3	21	23.3	23.3	8.2	8.2	28.7	28.7	90.9	91.0	6.6	6.6	4.8		4		92					<0.2	0.7	
						6.0	0.3	18	23.3		8.2		28.7		91.1		6.6	6.6	4.8		4		93					<0.2	0.8	
IM2	Cloudy	Moderate	09:00	6.6	Surface	1.0	0.4	16	23.5	23.5	8.2	8.2	28.3	28.4	93.4	93.4	6.8	6.6	3.7		4		87		88	818850	806198	<0.2	0.7	
						1.0	0.4	18	23.5		8.2		28.4		93.4		6.8	6.6	3.7		5		87					<0.2	0.6	
					Middle	3.3	0.4	31	23.3	23.3	8.2	8.2	28.6	28.6	88.8	88.8	6.4	6.4	7.8		2	4	89					<0.2	0.7	
						3.3	0.3	31	23.3		8.2		28.6		88.8		6.4	6.4	8.1		4		86					<0.2	0.7	
					Bottom	5.6	0.4	12	23.3	23.3	8.2	8.2	28.7	28.7	89.0	89.0	6.4	6.4	4.0		3		89					<0.2	0.8	
						5.6	0.3	13	23.3		8.2		28.7		89.0		6.4	6.4	3.9		3		90					<0.2	0.8	
IM3	Cloudy	Moderate	09:03	7.0	Surface	1.0	0.3	17	23.6	23.6	8.2	8.2	28.1	28.1	95.5	95.5	6.9	6.9	2.9		3		87		90	819428	806017	<0.2	0.7	
						1.0	0.3	21	23.6		8.2		28.1		95.5		6.9	6.9	2.9		3		86					<0.2	0.8	
					Middle	3.5	0.3	17	23.3	23.3	8.2	8.2	28.7	28.7	88.1	88.1	6.4	6.4	3.8		3	3	89					<0.2	0.7	
						3.5	0.3	12	23.3		8.2		28.7		88.1		6.4	6.4	3.9		4		90					<0.2	0.8	
					Bottom	6.0	0.3	14	23.3	23.3	8.2	8.2	28.8	28.8	90.6	90.8	6.6	6.6	7.1		3		95					<0.2	0.7	
						6.0	0.4	16	23.3		8.2		28.8		90.9		6.6	6.6	7.4		4		94					<0.2	0.8	
IM4	Cloudy	Moderate	09:10	7.8	Surface	1.0	0.3	19	23.5	23.5	8.2	8.2	28.1	28.1	96.7	96.7	7.0	6.8	3.4		3		85		87	819596	805027	<0.2	0.9	
						1.0	0.3	17	23.5		8.2		28.1		96.7		7.0	6.8	3.4		2		85					<0.2	0.8	
					Middle	3.9	0.3	352	23.3	23.3	8.2	8.2	28.6	28.6	90.3	90.3	6.5	6.5	5.9		3	3	87					<0.2	0.8	
						3.9	0.2	357	23.3		8.2		28.6		90.3		6.5	6.5	6.0		3		87					<0.2	0.7	
					Bottom	6.8	0.4	28	23.2	23.2	8.2	8.2	28.7	28.7	90.9	91.0	6.6	6.6	6.2		3		91					<0.2	0.7	
						6.8	0.4	29	23.2		8.2		28.7		91.0		6.6	6.6	6.2		4		89					<0.2	0.6	
IM5	Cloudy	Moderate	09:18	7.2	Surface	1.0	0.3	348	23.4	23.4	8.2	8.2	28.4	28.4	91.8	91.8	6.6	6.6	3.0		4		84		87	820555	804931	<0.2	0.8	
						1.0	0.4	347	23.4		8.2		28.4		91.7		6.6	6.6	3.0		3		85					<0.2	0.7	
					Middle	3.6	0.4	12	23.4	23.4	8.2	8.2	28.5	28.5	91.0	91.0	6.6	6.6	2.7		3	3	87					<0.2	0.8	
						3.6	0.4	8	23.4		8.2		28.5		91.0		6.6	6.6	2.7		3		88					<0.2	0.7	
					Bottom	6.2	0.4	6	23.3	23.3	8.2	8.2	28.5	28.5	90.7	90.8	6.6	6.6	2.4		3		87					<0.2	0.6	
						6.2	0.3	9	23.3		8.2		28.5		90.8		6.6	6.6	2.4		3		88					<0.2	0.7	
IM6	Cloudy	Moderate	09:23	7.5	Surface	1.0	0.2	5	23.4	23.4	8.2	8.2	28.2	28.2	90.1	90.1	6.5	6.5	1.9		3		88		91	821063	805817	<0.2	0.7	
						1.0	0.2	0	23.4		8.2		28.2		90.0		6.5	6.5	2.0		3		87					<0.2	0.7	
					Middle	3.8	0.3	2	23.3	23.3	8.2	8.2	28.5	28.5	89.2	89.2	6.5	6.5	2.0		3	3	89					<0.2	0.8	
						3.8	0.3	6	23.3		8.2		28.5		89.2		6.5	6.5	2.0		4		91					<0.2	0.7	
					Bottom	6.5	0.2	354	23.3	23.3	8.2	8.2	28.5	28.5	90.4	90.6	6.5	6.6	2.5		3		95					<0.2	0.7	
						6.5	0.3	359	23.3		8.2		28.5		90.7		6.5	6.6	2.5		4		94					<0.2	0.7	
IM7	Cloudy	Moderate	09:31	7.2	Surface	1.0	0.2	13	23.5	23.5	8.2	8.2	28.3	28.3	91.6	91.6	6.6	6.6	1.9		3		87		90	821330	806815	<0.2	0.7	
						1.0	0.1	7	23.5		8.2		28.3		91.5		6.6	6.6	1.9		4		88					<0.2	0.7	
					Middle	3.6	0.2	2	23.4	23.4	8.2	8.2	28.4	28.4	90.5	90.5	6.5	6.5	2.0		3	3	89					<0.2	0.8	
						3.6	0.2	4	23.4		8.2		28.4		90.4		6.5	6.5	2.0		3		89					<0.2	0.8	
					Bottom	6.2	0.2	33	23.3	23.3	8.2	8.2	28.5	28.5	91.1	91.2	6.6	6.6	2.2		2		94					<0.2	0.8	
						6.2	0.3	37	23.3		8.2		28.5		91.3		6.6	6.6	2.3		3		94					<0.2	0.7	
IM8	Misty	Moderate	09:32	7.6	Surface	1.0	0.3	354	23.3	23.3	8.0	8.0	29.6	29.6	93.4	93.4	6.7	6.7	1.7		2		44		68	821678	807845	<0.2	0.8	
						1.0	0.3	357	23.3		8.0		29.6		93.4		6.7	6.7	1.6		2		44					<0.2	0.7	
					Middle	3.8	0.2	334	23.3	23.3	8.0	8.0	29.7	29.7	93.5	93.6	6.7	6.7	1.9		3	2	78					<0.2	1.1	
						3.8	0.3	331	23.3		8.0		29.6		93.6		6.7	6.7	1.8		2		78					<0.2	1.0	
					Bottom	6.6	0.2	345	23.2	23.3	8.0	8.0	29.6	29.6	93.8	93.9	6.8	6.8	2.7		3		82					<0.2	0.8	
						6.6	0.2	346	23.2		8.0		29.6		94.0		6.8	6.8	2.7		2		82					<0.2	0.9	

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

Water Quality Monitoring

Water Quality Monitoring Results on

28 November 23 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Misty	Moderate	09:18	8.0	Surface	1.0	0.4	325	23.4	23.4	8.0	8.0	29.3	29.4	93.7	93.7	6.7	1.1	1.1	3	43	69	822113	808805	<0.2	<0.2	0.9	0.7		
						1.0	0.4	332	23.4		8.0		29.4		93.7		6.7	1.1	1.1	3	44				<0.2	<0.2	0.7			
					Middle	4.0	0.4	312	23.3	23.3	8.0	8.0	29.6	29.6	93.6	93.6	6.7	1.7	1.7	3	79	69			<0.2	<0.2	0.6	0.7		
						4.0	0.3	304	23.3		8.0		29.6		93.6		6.7	1.6	1.6	4	79				<0.2	<0.2	0.7			
					Bottom	7.0	0.3	290	23.3	23.3	8.0	8.0	29.6	29.6	93.7	93.8	6.8	2.8	2.8	4	83	69			<0.2	<0.2	0.7	0.7		
						7.0	0.3	284	23.3		8.0		29.6		93.8		6.8	2.9	2.9	3	83				<0.2	<0.2	0.6	0.6		
IM10	Misty	Moderate	09:03	7.2	Surface	1.0	0.4	304	23.3	23.3	8.0	8.0	29.2	29.2	92.0	92.0	6.6	1.1	1.1	3	48	74	822226	809816	<0.2	<0.2	0.9	0.8		
						1.0	0.4	306	23.3		8.0		29.2		92.0		6.6	1.1	1.1	3	48				<0.2	<0.2	0.8			
					Middle	3.6	0.5	277	23.3	23.3	8.0	8.0	29.4	29.4	92.6	92.7	6.7	1.6	1.6	2	86	74			<0.2	<0.2	0.8	0.8		
						3.6	0.4	272	23.3		8.0		29.4		92.7		6.7	1.7	1.7	3	86				<0.2	<0.2	0.8			
					Bottom	6.2	0.4	271	23.3	23.3	8.0	8.0	29.4	29.4	93.2	93.3	6.7	1.7	1.7	2	87	74			<0.2	<0.2	0.9	0.9		
						6.2	0.4	276	23.3		8.0		29.3		93.4		6.7	1.8	1.8	3	87				<0.2	<0.2	0.8	0.8		
IM11	Misty	Moderate	08:51	8.0	Surface	1.0	0.5	284	23.4	23.4	8.0	8.0	29.2	29.3	93.5	93.5	6.7	1.2	1.2	3	52	76	821484	810542	<0.2	<0.2	0.8	0.8		
						1.0	0.6	287	23.4		8.0		29.3		93.5		6.7	1.2	1.2	4	52				<0.2	<0.2	0.9			
					Middle	4.0	0.5	283	23.3	23.3	8.0	8.0	29.6	29.6	93.6	93.7	6.7	1.6	1.6	4	87	76			<0.2	<0.2	0.7	0.7		
						4.0	0.4	289	23.3		8.0		29.6		93.7		6.7	1.5	1.5	3	87				<0.2	<0.2	0.9			
					Bottom	7.0	0.5	295	23.3	23.3	8.0	8.0	29.7	29.7	94.2	94.3	6.8	2.0	2.0	3	90	76			<0.2	<0.2	0.9	0.9		
						7.0	0.5	288	23.3		8.0		29.7		94.3		6.8	2.1	2.1	3	90				<0.2	<0.2	0.7	0.7		
IM12	Misty	Moderate	08:44	8.2	Surface	1.0	0.5	289	23.5	23.5	8.0	8.0	29.9	29.9	93.7	93.7	6.7	1.4	1.4	4	45	73	821148	811500	<0.2	<0.2	0.7	0.8		
						1.0	0.5	292	23.5		8.0		29.9		93.7		6.7	1.5	1.5	3	46				<0.2	<0.2	0.8			
					Middle	4.1	0.5	290	23.5	23.5	8.0	8.0	29.9	29.9	93.6	93.7	6.7	1.7	1.7	2	86	73			<0.2	<0.2	0.9	0.9		
						4.1	0.4	297	23.5		8.0		29.9		93.7		6.7	1.6	1.6	3	86				<0.2	<0.2	0.8	0.8		
					Bottom	7.2	0.5	299	23.4	23.4	8.0	8.0	29.9	29.9	94.3	94.4	6.8	2.6	2.6	2	87	73			<0.2	<0.2	0.9	0.9		
						7.2	0.4	296	23.4		8.0		29.9		94.4		6.8	2.5	2.5	3	87				<0.2	<0.2	0.8	0.8		
SR1A	Misty	Moderate	08:34	5.6	Surface	1.0	0.0	181	23.3	23.3	8.0	8.0	29.9	29.9	93.2	93.3	6.7	0.7	0.7	2	-	-	819982	812655	-	-	-	-		
						1.0	0.1	177	23.3		8.0		29.9		93.3		6.7	0.7	0.7	2	-	-			-	-	-	-		
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	-	2	-	-	-	-	-	
						2.8	-	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	4.6	0.0	178	23.3	23.3	8.0	8.0	29.9	29.9	93.6	93.7	6.7	2.1	2.1	3	-	-	-		-	-	-	-	-	
						4.6	0.0	176	23.3		8.0		29.9		93.7		6.7	2.2	2.2	2	-	-			-	-	-	-	-	
SR2	Misty	Moderate	08:25	5.0	Surface	1.0	0.1	228	23.5	23.5	7.9	8.0	29.9	29.9	93.9	93.3	6.7	1.1	1.1	2	43	65	821460	814144	<0.2	<0.2	0.6	0.8		
						1.0	0.1	228	23.5		8.0		29.9		92.7		6.6	1.1	1.1	2	43				<0.2	<0.2	0.8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	2	-	-	-	<0.2	-	0.7
						-	-	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	4.0	0.2	219	23.5	23.5	8.0	8.0	30.0	30.0	93.3	93.4	6.7	2.1	2.1	2	87	65			<0.2	<0.2	0.7	0.7		
						4.0	0.2	221	23.5		8.0		30.0		93.4		6.7	2.2	2.2	2	87				<0.2	<0.2	0.6	0.6		
SR3	Misty	Moderate	09:46	9.2	Surface	1.0	0.3	336	23.3	23.3	8.0	8.0	29.4	29.4	96.9	97.1	7.0	1.0	1.0	3	-	-	822170	807583	-	-	-	-		
						1.0	0.3	335	23.3		8.0		29.4		97.2		7.0	1.1	1.1	2	-	-			-	-	-	-		
					Middle	4.6	0.4	331	23.2	23.2	8.0	8.0	29.4	29.5	97.7	97.8	7.0	1.1	1.1	2	-	-	-	-	-	-	-	-		
						4.6	0.4	331	23.2		8.0		29.5		97.9		7.1	1.1	1.1	3	-	-			-	-	-	-		
					Bottom	8.2	0.4	5	23.2	23.2	8.0	8.0	29.5	29.5	98.5	98.6	7.1	1.9	1.9	4	-	-	-		-	-	-	-		
						8.2	0.4	9	23.2		8.0		29.5		98.7		7.1	1.9	1.9	3	-	-			-	-	-	-		
SR4A	Cloudy	Moderate	08:25	8.6	Surface	1.0	0.0	255	23.4	23.4	8.2	8.2	28.5	28.5	92.7	92.7	6.7	10.5	10.5	2	-	-	817166	807825	-	-	-	-		
						1.0	0.0	251	23.4		8.2		28.5		92.6		6.7	10.5	10.5	2	-	-			-	-	-	-		
					Middle	4.3	0.0	271	23.4	23.4	8.2	8.2	28.7	28.7	91.5	91.5	6.6	2.8	2.8	2	-	-	-		-	-	-	-		
						4.3	0.1	267	23.4		8.2		28.7		91.5		6.6	2.8	2.8	2	-	-			-	-	-	-		
					Bottom	7.6	0.0	273	23.4	23.4	8.2	8.2	28.7	28.7	91.3	91.3	6.6	3.0	3.0	2	-	-	-		-	-	-	-		
						7.6	0.0	270	23.4		8.2		28.7		91.3		6.6	3.0	3.0	2	-	-			-	-	-	-		
SR5A	Cloudy	Moderate	08:07	4.0	Surface	1.0	0.2	296	23.4	23.4	8.2	8.2	29.0	29.0	89.7	89.8	6.5	3.1	3.1	2	-	-	816583	810699	-	-	-	-		
						1.0	0.2	299	23.4		8.2		29.0		89.8		6.5	3.3	3.3	2	-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	-	3	-	-	-	-	-
						-	-	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.0	0.2	297	23.4	23.4	8.2	8.2	29.0	29.0	90.0	90.1	6.5	5.7	5.7	4	-	-	-		-	-	-	-	-	
						3.0	0.2	301	23.4		8.2		29.0		90.1		6.5	5.8	5.8	2	-	-			-	-	-	-	-	
SR6	Cloudy	Moderate	07:42	5.1	Surface	1.0	0.1	245	23.5	23.5	8.2	8.2	28.7	28.7	89.1	89.1	6.4	3.6	4.0	3	-	-	817886	814641	-	-	-	-		
						1.0	0.0	249	23.5		8.2		28.7		89.0		6.4	4.0	4.0	4	-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	3	-	-	-	-	-
						-	-	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	4.1	0.1	259	23.6	23.6	8.2	8.2	28.9	28.9	88.8	88.8	6.4	9.5	9.5	2	-	-	-		-	-	-	-	-	
						4.1	0.1	255	23.6		8.2		28.9		88.8		6.4	9.3	9.3	2	-	-			-	-	-	-	-	
SR7	Misty	Moderate	07:40	11.0	Surface	1.0	1.0	248	23.6	23.6	7.9	7.9	30.8	30.8	84.3	84.3	6.0	1.6	1.6	3	-	-	823621	823749	-	-	-	-		
						1.0	1.0	242	23.6		7.9		30.8		84.3		6.0	1.6	1.6	4	-	-			-	-	-	-		
					Middle	5.5	0.9	253	23.6	23.6	7.9	7.9	30.9	30.9	84.5	84.6	6.0	1.7	1.7	3	-	-	-	-	-	-	-	-		
						5.5	1.0	250	23.6		7.9		30.9		84.6		6.0	1.7	1.7	4	-	-			-	-	-	-		
					Bottom	10.0	1.0	267	23.7	23.7	7.9	7.9	31.0	31.0	86.8	87.1	6.2	2.1	2.1	3	-	-	-		-	-	-	-		
						10.0	1.0	262	23.7		7.9		31.0		87.4		6.2	2.2	2.2	3	-	-			-	-	-	-		
SR8	Misty	Moderate	08:39	4.6	Surface	1.0	-	-	23.5	23.5	8.0	8.0	29.9	29.9	93.0	93.1	6.7	1.4	1.4	4	-	-	820408	811636	-	-	-	-		
						1.0	-	-	23.5		8.0		29.9	</																

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

Water Quality Monitoring

Water Quality Monitoring Results on 30 November 23 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	14:09	8.4	Surface	1.0	0.0	54	22.7	22.7	8.3	8.3	29.2	29.3	90.2	90.2	6.6	6.6	5.1	5.1	3	3	86	87	815642	804237	<0.2	0.8	0.9	
						1.0	0.1	61	22.7		8.3		29.3		90.1		6.6	6.6	5.6	5.6	3	3	87	87					0.8	
					Middle	4.2	0.0	57	22.6	22.6	8.3	8.3	29.7	29.7	89.8	89.8	6.5	6.5	8.5	8.1	3	3	87	87					<0.2	0.8
						4.2	0.0	55	22.6		8.3		29.7		89.8		6.5	6.5			4	4	87	87					<0.2	0.8
					Bottom	7.4	0.0	49	22.6	22.6	8.3	8.3	29.9	29.9	90.0	90.1	6.5	6.6	12.6	13.0	3	3	89	89					<0.2	0.8
						7.4	0.1	41	22.6		8.3		29.9		90.2		6.6	6.6			4	4	88	88					<0.2	0.8
C2	Misty	Moderate	13:16	11.0	Surface	1.0	0.1	1	23.4	23.4	8.1	8.1	27.9	28.0	86.5	86.7	6.3	6.4	2.9	3.0	4	4	47	47	825662	806966	<0.2	0.9	0.9	
						1.0	0.2	356	23.4		8.0		28.0		86.8		6.4	6.4	3.0	4	4	47	47	<0.2					0.9	
					Middle	5.5	0.2	353	23.4	23.4	8.0	8.0	28.0	28.0	87.7	87.9	6.4	6.4	4.1	4.1	3	3	82	83					<0.2	0.7
						5.5	0.2	348	23.4		8.0		28.0		88.0		6.4	6.4	4.2	4	4	83	83	<0.2					0.8	
					Bottom	10.0	0.2	354	23.4	23.4	8.0	8.0	28.0	28.0	89.0	89.3	6.5	6.6	4.4	4.4	3	3	91	91					<0.2	0.9
						10.0	0.2	348	23.4		8.0		28.0		89.5		6.6	6.6			4	4	91	91					<0.2	0.9
C3	Misty	Moderate	15:12	10.8	Surface	1.0	0.1	89	23.9	23.9	8.1	8.1	28.1	28.1	84.4	84.5	6.1	6.2	2.7	2.8	4	5	52	52	822118	817819	<0.2	0.8	0.8	
						1.0	0.1	86	23.9		8.1		28.1		84.6		6.1	6.2	2.8	5	5	52	52	<0.2					0.8	
					Middle	5.4	0.2	82	23.9	23.9	8.1	8.1	28.1	28.1	85.4	85.6	6.2	6.2	3.8	3.9	4	4	85	85					<0.2	0.8
						5.4	0.1	87	23.9		8.1		28.1		85.8		6.2	6.3			3	3	87	87					<0.2	0.7
					Bottom	9.8	0.1	83	23.9	23.9	8.1	8.1	28.1	28.1	87.6	89.6	6.4	6.5	4.3	4.3	3	3	87	87					<0.2	0.9
						9.8	0.1	80	23.9		8.1		28.1		91.6		6.6	6.6			4	4	87	87					<0.2	0.7
IM1	Cloudy	Moderate	13:46	6.8	Surface	1.0	0.1	16	22.8	22.8	8.2	8.2	29.9	29.9	90.6	90.5	6.6	6.6	4.2	4.3	3	4	86	87	818361	806450	<0.2	0.8	0.8	
						1.0	0.2	9	22.7		8.2		29.9		90.4		6.6	6.6			4	4	87	87					<0.2	0.8
					Middle	3.4	0.1	30	22.7	22.7	8.2	8.2	30.2	30.2	88.9	88.9	6.5	6.5	6.2	6.7	4	4	87	87					<0.2	0.8
						3.4	0.1	25	22.7		8.2		30.2		88.9		6.5	6.5			4	4	87	87					<0.2	0.9
					Bottom	5.8	0.1	47	22.7	22.7	8.2	8.2	30.1	30.1	88.9	88.9	6.5	6.5	7.6	7.3	4	4	88	88					<0.2	0.8
						5.8	0.1	39	22.7		8.2		30.1		88.9		6.5	6.5			4	4	88	88					<0.2	0.8
IM2	Cloudy	Moderate	13:42	7.2	Surface	1.0	0.2	24	22.7	22.7	8.2	8.2	29.7	29.7	90.4	90.4	6.6	6.6	3.9	4.0	4	5	86	87	818841	806172	<0.2	0.8	0.8	
						1.0	0.2	16	22.7		8.2		29.7		90.3		6.6	6.6			5	5	87	88					<0.2	0.8
					Middle	3.6	0.2	26	22.7	22.7	8.2	8.2	29.8	29.9	88.8	88.8	6.5	6.5	5.4	5.6	4	5	88	87					<0.2	0.8
						3.6	0.2	28	22.7		8.2		29.8		88.8		6.5	6.5			5	5	87	88					<0.2	0.8
					Bottom	6.2	0.1	45	22.7	22.7	8.2	8.2	29.9	29.9	89.1	89.2	6.5	6.5	7.1	7.7	4	6	88	88					<0.2	0.8
						6.2	0.1	38	22.7		8.2		29.9		89.2		6.5	6.5			6	6	88	88					<0.2	0.8
IM3	Cloudy	Moderate	13:38	7.5	Surface	1.0	0.1	56	22.8	22.8	8.2	8.2	29.7	29.7	91.4	91.3	6.6	6.6	4.2	4.2	3	4	85	86	819402	806006	<0.2	0.8	0.8	
						1.0	0.1	52	22.8		8.2		29.7		91.2		6.6	6.6			4	4	86	86					<0.2	0.8
					Middle	3.8	0.1	46	22.7	22.7	8.2	8.2	29.9	29.9	90.0	89.9	6.5	6.5	5.0	5.2	5	4	86	87					<0.2	0.8
						3.8	0.1	45	22.7		8.2		29.9		89.8		6.5	6.5			4	4	87	87					<0.2	0.8
					Bottom	6.5	0.1	56	22.6	22.6	8.2	8.2	30.0	30.0	89.7	89.8	6.5	6.5	7.0	7.1	5	4	88	87					<0.2	0.8
						6.5	0.1	59	22.6		8.2		30.0		89.8		6.5	6.5			4	4	87	87					<0.2	0.7
IM4	Cloudy	Moderate	13:31	7.4	Surface	1.0	0.2	25	22.7	22.7	8.2	8.2	30.1	30.1	90.9	90.9	6.6	6.6	5.7	5.7	5	4	86	86	819575	805033	<0.2	0.8	0.8	
						1.0	0.2	23	22.7		8.2		30.1		90.9		6.6	6.6			4	4	86	86					<0.2	0.8
					Middle	3.7	0.1	52	22.6	22.6	8.2	8.2	30.2	30.2	90.4	90.4	6.6	6.6	8.6	9.2	4	3	88	88					<0.2	0.8
						3.7	0.1	56	22.6		8.2		30.2		90.4		6.6	6.6			3	3	88	88					<0.2	0.8
					Bottom	6.4	0.2	13	22.6	22.6	8.2	8.2	30.2	30.2	90.9	91.0	6.6	6.6	11.0	11.3	3	3	88	87					<0.2	0.8
						6.4	0.1	6	22.6		8.2		30.2		91.0		6.6	6.6			3	3	87	87					<0.2	0.8
IM5	Cloudy	Moderate	13:21	7.6	Surface	1.0	0.2	31	22.7	22.7	8.2	8.2	29.8	29.8	91.1	91.1	6.6	6.6	4.1	4.1	4	3	85	86	820573	804908	<0.2	0.8	0.8	
						1.0	0.1	27	22.7		8.2		29.8		91.1		6.6	6.6			3	4	86	86					<0.2	0.8
					Middle	3.8	0.2	22	22.7	22.7	8.2	8.2	29.9	29.9	91.0	91.0	6.6	6.6	4.3	4.4	4	4	87	87					<0.2	0.8
						3.8	0.2	21	22.7		8.2		29.9		91.0		6.6	6.6			4	4	87	87					<0.2	0.8
					Bottom	6.5	0.1	43	22.7	22.7	8.2	8.2	29.8	29.8	91.4	91.5	6.6	6.7	4.6	4.6	4	5	88	88					<0.2	0.8
						6.5	0.1	44	22.7		8.2		29.8		91.6		6.7	6.7			5	4	88	88					<0.2	0.8
IM6	Cloudy	Moderate	13:15	7.6	Surface	1.0	0.2	43	22.8	22.8	8.2	8.2	29.2	29.3	89.8	89.8	6.5	6.5	2.3	2.3	4	5	86	87	821061	805815	<0.2	0.8	0.8	
						1.0	0.2	42	22.7		8.2		29.3		89.8		6.5	6.5			5	5	87	88					<0.2	0.8
					Middle	3.8	0.2	18	22.7	22.7	8.2	8.2	29.7	29.7	90.5	90.6	6.6	6.6	2.7	2.7	4	4	87	87					<0.2	0.8
						3.8	0.2	12	22.7		8.2		29.7		90.6		6.6	6.6			4	4	87	87					<0.2	0.8
					Bottom	6.6	0.1	39	22.7	22.7	8.2	8.2	29.7	29.7	91.2	91.3	6.6	6.6	2.7	2.7	4	4	88	88					<0.2	0.8
						6.6	0.1	32	22.7		8.2		29.7		91.4		6.6	6.6			3	3	88	88					<0.2	0.8
IM7	Cloudy	Moderate	13:10	7.8	Surface	1.0	0.1	33	22.8	22.8	8.2	8.2	28.2	28.2	89.1	89.1	6.5	6.5	1.9	1.8	4	5	86	86	821336	806847	<0.2	0.8	0.8	
						1.0	0.2	30	22.8		8.2		28.2		89.1		6.5	6.5			5	5	86	88					<0.2	0.8
					Middle	3.9	0.2	20	22.7	22.7	8.2	8.2	29.9	30.0	88.8	88.9	6.5	6.5	1.6	1.6	4	4	88	88					<0.2	0.8
						3.9	0.2	21	22.7		8.2		30.0		88.9		6.5	6.5			4	4	88	88					<0.2	0.8
					Bottom	6.8	0.2	30	22.6	22.6	8.2	8.2	30.2	30.3	90.0	90.1	6.5	6.5	1.7	1.7	5	4	88	87					<0.2	0.8
						6.8	0.3	25	22.6		8.2		30.3		90.1		6.5	6.5			4	4	87	87					<0.2	0.8
IM8	Misty	Moderate	13:35	7.2	Surface	1.0	0.1	35	23.4	23.4	8.1	8.1	28.0	28.0	84.9	85.1	6.2	6.2	2.3	2.3	4	4	45	45	821687	807848	<0.2	0.9	0.9	
						1.0	0.2	38	23.4		8.1		28.0		85.3		6.2	6.3			4	4	45	45					<0.2	0.8
					Middle	3.6	0.2	24	23.3	23.3	8.1	8.1	28.2	28.2	86.8	87.1	6.4	6.4	3.3	3.4	4	4	81	81					<0.2	0.8
						3.6	0.3	24	23.3		8.1		28.2		87.1		6.4	6.4			4	4	81	81					<0.2	0.9
					Bottom	6.2	0.2	42	23.3	23.3	8.1	8.1	28.4	28.5	88.3	88.5	6.5	6.5	4.3	4.3	3	4	84	84					<0.2	0.9
						6.2	0.2	48	23.3		8.1		28.5		88.7		6.5	6.5			4	4	84	84					<0.2	0.8

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

Water Quality Monitoring

Water Quality Monitoring Results on 30 November 23 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	Misty	Moderate	13:41	7.4	Surface	1.0	0.2	14	23.3	23.3	8.1	8.1	29.3	29.4	82.2	82.3	6.0	2.4	2.4	6	56	76	56	82	822076	808791	<0.2	1.0	1.0	
						1.0	0.2	8	23.3		8.1		29.4		82.3		6.0	2.5	5	56			82				<0.2	0.9	0.9	
					Middle	3.7	0.2	9	23.3	23.3	8.1	8.1	29.5	29.6	86.4	86.6	6.3	4.0	4.0	5	82	76	82	82	822076	808791	<0.2	0.9	0.9	
						3.7	0.1	11	23.3		8.1		29.6		86.7		6.3	4.0	4	82			90				<0.2	1.0	1.0	
					Bottom	6.4	0.2	29	23.3	23.3	8.1	8.1	29.6	29.6	88.3	88.7	6.4	4.4	4	90	76	90	90	90	822076	808791	<0.2	1.0	1.0	
						6.4	0.2	31	23.3		8.1		29.6		89.1		6.5	4.3	3	90			90				<0.2	0.9	0.9	
IM10	Misty	Moderate	13:50	7.6	Surface	1.0	0.1	350	23.4	23.4	8.1	8.1	29.6	29.6	82.6	82.7	6.0	2.2	2.2	2	51	77	52	89	822262	809855	<0.2	0.9	0.9	
						1.0	0.1	346	23.4		8.1		29.6		82.8		6.0	2.3	3	52			89				<0.2	0.8	0.8	
					Middle	3.8	0.1	335	23.4	23.4	8.1	8.1	29.6	29.6	85.4	85.8	6.2	2.7	2.7	3	89	77	89	89	822262	809855	<0.2	0.9	0.9	
						3.8	0.2	336	23.4		8.1		29.6		86.1		6.3	2.7	3	89			90				<0.2	0.9	0.9	
					Bottom	6.6	0.1	331	23.4	23.4	8.1	8.1	29.5	29.6	88.2	88.6	6.4	3.3	4	90	77	90	90	90	822262	809855	<0.2	0.9	0.9	
						6.6	0.1	330	23.4		8.1		29.6		89.0		6.5	3.4	4	90			90				<0.2	0.9	0.9	
IM11	Misty	Moderate	14:05	8.2	Surface	1.0	0.1	333	23.4	23.4	8.1	8.1	29.6	29.6	86.1	86.2	6.2	2.3	2.3	3	62	75	62	78	821487	810540	<0.2	0.8	0.9	
						1.0	0.1	330	23.4		8.1		29.6		86.3		6.3	2.4	2	62			78				<0.2	0.9	0.9	
					Middle	4.1	0.1	354	23.3	23.3	8.1	8.1	29.6	29.6	86.9	87.0	6.3	3.9	3	78	75	78	78	821487	810540	<0.2	0.8	0.8		
						4.1	0.1	349	23.3		8.1		29.6		87.1		6.3	3.9	3	78			84				<0.2	0.8	0.8	
					Bottom	7.2	0.0	359	23.3	23.3	8.1	8.1	29.6	29.6	92.9	93.2	6.8	4.5	2	84	75	84	84	85	821487	810540	<0.2	1.0	1.0	
						7.2	0.0	5	23.3		8.1		29.6		93.5		6.8	4.6	4	85			85				<0.2	0.9	0.9	
IM12	Misty	Moderate	14:11	8.4	Surface	1.0	0.0	73	23.4	23.4	8.1	8.1	29.6	29.6	86.1	86.2	6.2	2.2	2.2	3	48	71	48	48	821185	811500	<0.2	0.9	0.9	
						1.0	0.0	67	23.4		8.1		29.6		86.3		6.3	2.3	4	48			79				<0.2	0.8	0.8	
					Middle	4.2	0.0	94	23.3	23.3	8.1	8.1	29.6	29.6	87.0	87.0	6.3	2.4	2	79	71	79	79	821185	811500	<0.2	0.9	0.9		
						4.2	0.1	96	23.3		8.1		29.6		87.0		6.3	2.4	3	79			87				<0.2	1.0	1.0	
					Bottom	7.4	0.0	86	23.3	23.3	8.1	8.1	29.6	29.6	93.0	93.2	6.8	3.3	2	87	71	87	87	821185	811500	<0.2	0.8	0.8		
						7.4	0.1	86	23.3		8.1		29.6		93.3		6.8	3.4	3	87			87				<0.2	0.9	0.9	
SR1A	Misty	Moderate	14:41	5.0	Surface	1.0	-	4	23.2	23.2	8.1	8.1	29.6	29.6	81.9	83.9	6.0	2.3	2.3	4	-	-	-	-	819972	812657	-	-	-	
						1.0	0.0	359	23.2		8.1		29.6		85.8		6.2	2.4	4	-			-				-	-	-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-	5	-	-	-	-	-	-	-	-	-
						2.5	-	-	-		-		-		-		-	-	-	-		-	-	-			-	-	-	
					Bottom	4.0	-	334	23.2	23.2	8.1	8.1	29.5	29.6	87.3	87.7	6.4	3.9	6	-	-	-	-	-			-	-	-	
						4.0	0.0	329	23.2		8.1		29.6		88.0		6.4	3.8	4	-			-	-			-	-	-	
SR2	Misty	Moderate	14:52	5.0	Surface	1.0	0.1	55	23.4	23.4	8.1	8.1	29.6	29.6	86.5	86.7	6.3	3.3	3.3	4	72	87	72	72	821471	814188	<0.2	0.9	0.8	
						1.0	0.1	53	23.4		8.1		29.6		86.8		6.3	3.4	4	-			-				<0.2	0.8	0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	4	-	-	-	-	-	-	-	-	-
						-	-	-	-		-		-		-		-	-	-	-		-	-	-			-	-	-	
					Bottom	4.0	0.2	56	23.4	23.4	8.1	8.1	29.6	29.6	89.6	90.1	6.5	4.4	4	102	87	102	102	102	821471	814188	<0.2	0.9	0.9	
						4.0	0.2	54	23.4		8.1		29.6		90.6		6.6	4.3	3	-			102				<0.2	1.0	1.0	
SR3	Misty	Moderate	13:19	9.2	Surface	1.0	0.2	3	23.5	23.5	8.1	8.1	27.9	27.9	85.9	86.0	6.3	2.3	2.3	3	-	-	-	-	822142	807567	-	-	-	
						1.0	0.2	357	23.5		8.1		27.9		86.0		6.3	2.4	3	-			-	-			-	-	-	
					Middle	4.6	0.2	0	23.5	23.5	8.1	8.1	27.9	27.9	87.1	87.4	6.4	3.3	3	-	-	-	-	-	-	-	-	-	-	
						4.6	0.2	7	23.5		8.1		27.9		87.7		6.4	3.4	3	-			-	-			-	-	-	
					Bottom	8.2	0.2	12	23.4	23.4	8.1	8.1	27.9	27.9	90.0	90.2	6.6	4.4	3	-	-	-	-	-	-	-	-	-	-	
						8.2	0.1	6	23.4		8.1		27.9		90.3		6.6	4.3	4	-			-	-			-	-	-	
SR4A	Cloudy	Moderate	14:24	8.8	Surface	1.0	0.0	100	22.8	22.8	8.2	8.2	30.2	30.2	90.2	90.2	6.5	3.5	3.5	3	-	-	-	-	817194	807800	-	-	-	
						1.0	0.1	105	22.8		8.2		30.2		90.2		6.5	3.5	4	-			-	-			-	-	-	
					Middle	4.4	0.0	84	22.7	22.7	8.2	8.2	30.2	30.2	90.0	90.0	6.5	3.7	3	-	-	-	-	-	-	-	-	-	-	
						4.4	0.0	77	22.7		8.2		30.2		90.0		6.5	3.7	4	-			-	-			-	-	-	
					Bottom	7.8	0.0	114	22.7	22.7	8.2	8.2	30.3	30.3	90.1	90.1	6.5	5.3	4	-	-	-	-	-	-	-	-	-	-	
						7.8	0.0	116	22.7		8.2		30.3		90.1		6.5	5.3	4	-			-	-			-	-	-	
SR5A	Cloudy	Moderate	14:37	3.4	Surface	1.0	0.1	94	22.7	22.7	8.2	8.2	30.1	30.1	89.5	89.5	6.5	1.9	1.9	3	-	-	-	-	816587	810676	-	-	-	
						1.0	0.0	94	22.7		8.2		30.1		89.5		6.5	1.9	4	-			-	-			-	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	4	-	-	-	-	-	-	-	-	
						-	-	-	-		-		-		-		-	-	-	-		-	-	-			-	-	-	
					Bottom	2.4	0.1	89	22.7	22.7	8.2	8.2	30.1	30.1	89.7	89.7	6.5	2.1	4	-	-	-	-	-	-	-	-	-	-	-
						2.4	0.1	84	22.7		8.2		30.1		89.7		6.5	2.1	4	-			-	-			-	-	-	
SR6	Cloudy	Moderate	15:14	4.4	Surface	1.0	0.0	83	22.9	23.0	8.2	8.2	30.0	30.0	90.9	90.9	6.6	1.4	1.4	4	-	-	-	-	817911	814677	-	-	-	
						1.0	0.1	76	23.0		8.2		30.0		90.9		6.6	1.4	4	-			-	-			-	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	3	-	-	-	-	-	-	-	-	
						-	-	-	-		-		-		-		-	-	-	-		-	-	-			-	-	-	
					Bottom	3.4	0.0	90	22.9	23.0	8.2	8.2	30.0	30.0	91.0	91.1	6.6	1.4	3	-	-	-	-	-	-	-	-	-	-	-
						3.4	0.0	84	23.0		8.2		30.0		91.1		6.6	1.3	2	-			-	-			-	-	-	
SR7	Misty	Moderate	15:43	15.0	Surface	1.0	0.1	52	23.8	23.8	8.1	8.1	28.0	28.0	85.4	85.6	6.2	1.7	1.7	5	-	-	-	-	823614	823725	-	-	-	
						1.0	0.0	57	23.8		8.1		28.0		85.7		6.2	1.7	4	-			-	-			-	-	-	
					Middle	7.5	0.0	40	23.8	23.8	8.1	8.1	28.0	28.0	86.3	86.5	6.3	2.2	3	-	-	-	-	-	-	-	-	-	-	
						7.5	0.0	35	23.8		8.1		28.0		86.6		6.3	2.2	4	-			-	-			-	-	-	
					Bottom	14.0	0.0	26	23.8	23.8	8.1	8.1	28.1	28.1	88.5	90.1	6.4	3.2	3	-	-	-	-	-	-	-	-	-	-	
						14.0	0.0	24	23.8		8.1		28.0		91.7		6.7	3.2	4	-			-	-			-	-	-	
SR8	Misty	Moderate	14:25	4.8	Surface	1.0	-	-	23.4	23.4	8.1	8.1	29.6	29.6	82.8	82.8	6.0	4.8	3	-	-	-	-	820392</						

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

Water Quality Monitoring

Water Quality Monitoring Results on 30 November 23 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	09:57	8.0	Surface	1.0	0.4	40	22.7	22.7	8.2	8.2	29.4	29.4	90.8	90.8	6.6	5.5	3	3	83	86	86	86	86	815601	804259	<0.2	0.8	0.8
						1.0	0.4	33	22.7	8.2	8.2	29.4	29.4	90.7	90.7	6.6	5.5	3	3	86	86	86	86	<0.2				0.8		
					Middle	4.0	0.3	51	22.6	22.6	8.2	8.2	29.9	29.9	88.5	88.5	6.4	11.2	4	4	87	86	87	86				<0.2	0.8	
						4.0	0.4	44	22.6	8.2	8.2	29.9	29.9	88.4	88.4	6.4	11.8	3	3	86	87	86	87	<0.2				0.8		
					Bottom	7.0	0.4	8	22.6	22.6	8.2	8.2	30.1	30.1	87.2	87.2	6.3	11.6	4	4	87	88	87	88				<0.2	0.8	
						7.0	0.3	2	22.6	8.2	8.2	30.1	30.1	87.1	87.1	6.3	11.5	3	3	88	87	88	87	<0.2				0.8		
C2	Misty	Moderate	11:32	11.0	Surface	1.0	0.3	5	23.3	23.3	8.1	8.1	29.1	29.1	83.9	83.9	6.1	2.4	4	5	52	52	52	52	78	825700	806927	<0.2	1.0	1.0
						1.0	0.3	2	23.3	8.1	8.1	29.1	29.1	83.9	83.9	6.1	2.4	5	5	91	91	91	91	<0.2				1.0		
					Middle	5.5	0.3	350	23.3	23.3	8.1	8.1	29.2	29.2	84.0	84.0	6.1	2.8	5	4	91	91	91	91				<0.2	1.1	
						5.5	0.3	347	23.3	8.1	8.1	29.1	29.1	84.0	84.0	6.1	2.7	4	4	90	90	90	90	<0.2				1.0		
					Bottom	10.0	0.3	358	23.3	23.3	8.1	8.1	29.2	29.2	84.6	84.7	6.2	3.4	4	4	90	90	90	90				<0.2	0.9	
						10.0	0.2	358	23.3	8.1	8.1	29.1	29.1	84.7	84.7	6.2	3.4	4	4	90	90	90	90	<0.2				1.0		
C3	Misty	Moderate	09:40	10.4	Surface	1.0	0.5	267	23.6	23.6	8.0	8.0	28.8	28.8	84.0	84.0	6.1	3.4	5	4	44	44	44	44	72	822088	817788	<0.2	0.8	0.9
						1.0	0.6	273	23.6	8.0	8.0	28.8	28.8	84.0	84.0	6.1	3.3	4	4	86	86	86	86	<0.2				0.9		
					Middle	5.2	0.4	260	23.6	23.6	8.0	8.0	28.8	28.8	85.7	85.8	6.2	4.2	4	3	86	86	86	86				<0.2	0.9	
						5.2	0.5	259	23.6	8.0	8.0	28.8	28.8	85.9	85.8	6.2	4.3	3	3	86	86	86	86	<0.2				0.8		
					Bottom	9.4	0.5	278	23.6	23.6	8.1	8.1	28.8	28.8	89.5	89.7	6.5	5.5	3	3	86	86	86	86				<0.2	1.1	
						9.4	0.5	283	23.6	8.1	8.1	28.8	28.8	89.9	89.7	6.5	5.8	4	4	86	86	86	86	<0.2				1.0		
IM1	Cloudy	Moderate	10:20	6.7	Surface	1.0	0.2	29	22.7	22.7	8.2	8.2	30.0	30.0	89.1	89.2	6.5	7.2	4	5	85	86	86	86	86	818340	806464	<0.2	0.8	0.8
						1.0	0.2	26	22.7	8.2	8.2	30.0	30.0	89.2	89.2	6.5	7.1	5	4	87	86	87	86	<0.2				0.7		
					Middle	3.4	0.2	2	22.7	22.7	8.2	8.2	30.0	30.0	89.5	89.5	6.5	10.3	4	4	87	86	87	86				<0.2	0.8	
						3.4	0.2	5	22.7	8.2	8.2	30.0	30.0	89.5	89.5	6.5	10.9	4	4	86	87	86	87	<0.2				0.8		
					Bottom	5.7	0.2	29	22.7	22.7	8.2	8.2	30.0	30.0	90.3	90.4	6.6	10.4	3	3	87	87	87	87				<0.2	0.8	
						5.7	0.2	31	22.7	8.2	8.2	30.0	30.0	90.5	90.4	6.6	10.4	3	3	87	87	87	87	<0.2				0.8		
IM2	Cloudy	Moderate	10:43	7.1	Surface	1.0	0.3	13	22.7	22.7	8.2	8.2	29.9	29.9	87.2	87.3	6.3	8.6	4	4	85	86	86	86	86	818830	806206	<0.2	0.8	0.8
						1.0	0.3	17	22.7	8.2	8.2	29.9	29.9	87.4	87.4	6.4	8.9	4	4	86	86	86	86	<0.2				0.9		
					Middle	3.6	0.3	31	22.7	22.7	8.2	8.2	29.9	29.9	88.1	88.1	6.4	7.5	5	5	86	86	86	86				<0.2	0.8	
						3.6	0.3	24	22.7	8.2	8.2	29.9	29.9	88.0	88.1	6.4	7.8	4	4	86	86	86	86	<0.2				0.8		
					Bottom	6.1	0.3	16	22.7	22.7	8.2	8.2	30.0	30.0	87.3	87.3	6.3	8.8	4	4	87	87	87	87				<0.2	0.8	
						6.1	0.3	15	22.7	8.2	8.2	30.0	30.0	87.3	87.3	6.3	8.9	3	3	87	87	87	87	<0.2				0.8		
IM3	Cloudy	Moderate	10:48	8.0	Surface	1.0	0.3	5	22.7	22.7	8.2	8.2	29.8	29.8	87.7	87.7	6.4	5.7	4	5	85	86	86	86	87	819393	806027	<0.2	0.9	0.8
						1.0	0.3	6	22.7	8.2	8.2	29.8	29.8	87.7	87.7	6.4	5.6	5	4	87	88	87	88	<0.2				0.8		
					Middle	4.0	0.2	26	22.7	22.7	8.2	8.2	29.7	29.8	87.3	87.3	6.3	7.1	4	3	87	88	87	88				<0.2	0.8	
						4.0	0.3	28	22.7	8.2	8.2	29.8	29.8	87.3	87.3	6.3	7.2	3	3	88	88	87	88	<0.2				0.8		
					Bottom	7.0	0.2	40	22.7	22.7	8.2	8.2	29.8	29.8	87.5	87.6	6.4	5.1	3	3	88	88	88	88				<0.2	0.8	
						7.0	0.2	41	22.7	8.2	8.2	29.8	29.8	87.6	87.6	6.4	5.8	4	4	87	88	88	88	<0.2				0.8		
IM4	Cloudy	Moderate	10:53	7.6	Surface	1.0	0.2	0	22.7	22.7	8.2	8.2	29.7	29.7	89.6	89.6	6.5	5.2	4	5	85	86	86	86	87	819572	805019	<0.2	0.8	0.8
						1.0	0.3	359	22.7	8.2	8.2	29.7	29.7	89.5	89.5	6.5	5.2	5	4	87	87	87	87	<0.2				0.9		
					Middle	3.8	0.3	28	22.7	22.7	8.2	8.2	29.8	29.8	89.4	89.4	6.5	6.5	4	4	87	87	87	87				<0.2	0.8	
						3.8	0.3	31	22.7	8.2	8.2	29.8	29.8	89.4	89.4	6.5	6.5	4	4	87	87	87	87	<0.2				0.8		
					Bottom	6.6	0.3	10	22.7	22.7	8.2	8.2	29.8	29.8	89.4	89.4	6.5	7.0	3	3	87	88	87	88				<0.2	0.8	
						6.6	0.3	6	22.7	8.2	8.2	29.8	29.8	89.4	89.4	6.5	7.2	4	4	88	88	87	88	<0.2				0.8		
IM5	Cloudy	Moderate	10:59	7.2	Surface	1.0	0.3	5	22.7	22.7	8.2	8.2	29.7	29.7	87.9	87.9	6.4	6.2	4	3	85	86	86	86	87	820568	804938	<0.2	0.8	0.8
						1.0	0.3	5	22.7	8.2	8.2	29.7	29.7	87.8	87.8	6.4	6.6	3	4	87	86	87	86	<0.2				0.8		
					Middle	3.6	0.3	352	22.6	22.6	8.2	8.2	29.9	29.9	87.0	87.0	6.3	9.0	4	3	87	86	87	86				<0.2	0.8	
						3.6	0.3	348	22.6	8.2	8.2	29.9	29.9	86.9	86.9	6.3	9.3	3	4	86	87	86	87	<0.2				0.8		
					Bottom	6.2	0.4	22	22.6	22.6	8.2	8.2	29.9	29.9	86.9	86.9	6.3	10.3	4	4	87	87	87	87				<0.2	0.8	
						6.2	0.3	17	22.6	8.2	8.2	29.9	29.9	86.9	86.9	6.3	10.3	5	5	88	88	87	88	<0.2				0.8		
IM6	Cloudy	Moderate	11:05	7.0	Surface	1.0	0.3	4	22.8	22.8	8.2	8.2	29.3	29.3	88.9	88.9	6.5	2.3	3	4	85	86	86	86	87	821051	805824	<0.2	0.8	0.9
						1.0	0.2	5	22.8	8.2	8.2	29.3	29.3	88.9	88.9	6.5	2.3	4	4	87	88	87	88	<0.2				0.8		
					Middle	3.5	0.3	11	22.8	22.8	8.2	8.2	29.5	29.6	88.7	88.7	6.5	2.5	4	4	87	88	87	88				<0.2	0.9	
						3.5	0.2	9	22.8	8.2	8.2	29.6	29.6	88.7	88.7	6.4	2.6	4	4	88	88	87	88	<0.2				0.9		
					Bottom	6.0	0.3	25	22.7	22.7	8.2	8.2	29.8	29.8	88.5	88.5	6.4	2.8	4	4	88	88	87	88				<0.2	0.8	
						6.0	0.3	17	22.7	8.2	8.2	29.8	29.8	88.5	88.5	6.4	2.9	4	4	87	88	87	88	<0.2				0.9		
IM7	Cloudy	Moderate	11:09	7.7	Surface	1.0	0.2	4	22.8	22.8	8.2	8.2	28.9	29.0	89.0	89.0	6.5	1.9	3	4	85	85	86	86	86	821346	806827	<0.2	0.9	0.8
						1.0	0.2	358	22.8	8.2	8.2	29.0	29.0	88.9	88.9	6.5	1.9	4	3	86	86	86	86	<0.2				0.8		
					Middle	3.9	0.2	27	22.7	22.7	8.2	8.2	29.8	29.9	88.5	88.5	6.4	1.6	3	4	86	86	86	86				<0.2	0.8	
						3.9	0.2	23	22.7	8.2	8.2	29.9	29.9	88.5	88.5	6.4	1.6	4	4	86	86	86	86	<0.2				0.9		
					Bottom	6.7	0.2	355	22.6	22.6	8.2	8.2	30.2	30.2	88.9	89.0	6.5	2.1	4	4	87	87	87	87				<0.2	0.8	
						6.7	0.1	354	22.6	8.2	8.2	30.2	30.2	89.1	89.0	6.5	2.0	5	5	87	87	87	87	<0.2				0.8		
IM8	Misty	Moderate	11:04	7.8	Surface	1.0	0.2	333	23.3	23.3	8.1	8.1	29.6	29.6	85.0	85.0	6.2	2.9	4	3	44	44	44	44	68	821680	807855	<0.2	0.9	0.9
						1.0	0.2	335	23.3	8.1	8.1	29.6	29.6	85.0	85.0	6.2	2.9	3	4	78	78	78	78	<0.2				1.0		
					Middle	3.9	0.2	330	23.3	23.3	8.1	8.1	29.7	29.7	85.1	85.2	6.2	3.1	3	4	78	78	78	78				<0.2	0.8	
						3.9	0.2	324	23.3																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 30 November 23 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 (µg/L)		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	Misty	Moderate	10:50	8.2	Surface	1.0	0.2	321	23.4	23.4	8.1	8.1	29.3	29.4	85.3	85.3	6.2	6.2	2.3	3	43	68	822112	808792	<0.2	1.0	1.0			
						1.0	0.2	317	23.4	23.4	8.1	8.1	29.4	29.4	85.3	85.3	6.2	6.2	2.3	3	43	68	822112	808792	<0.2	0.9	0.9			
					Middle	4.1	0.3	302	23.3	23.3	8.1	8.1	29.6	29.6	85.2	85.2	6.2	6.2	2.9	4	79	68	822112	808792	<0.2	0.8	0.9			
						4.1	0.3	300	23.3	23.3	8.1	8.1	29.6	29.6	85.2	85.2	6.2	6.2	2.9	4	79	68	822112	808792	<0.2	0.9	1.0			
					Bottom	7.2	0.3	296	23.3	23.3	8.1	8.1	29.6	29.6	85.3	85.4	6.2	6.2	4.1	5	83	68	822112	808792	<0.2	1.1	1.0			
						7.2	0.3	303	23.3	23.3	8.1	8.1	29.6	29.6	85.4	85.4	6.2	6.2	4.1	6	83	68	822112	808792	<0.2	1.0	1.0			
IM10	Misty	Moderate	10:35	7.4	Surface	1.0	0.3	285	23.3	23.3	8.1	8.1	29.2	29.2	83.6	83.6	6.1	6.1	2.4	4	48	74	822234	809820	<0.2	1.0	1.0			
						1.0	0.3	282	23.3	23.3	8.1	8.1	29.2	29.2	83.6	83.6	6.1	6.1	2.3	4	48	74	822234	809820	<0.2	1.0	1.0			
					Middle	3.7	0.4	293	23.3	23.3	8.1	8.1	29.4	29.4	84.2	84.3	6.1	6.1	2.9	4	86	74	822234	809820	<0.2	0.8	0.9			
						3.7	0.4	294	23.3	23.3	8.1	8.1	29.4	29.4	84.3	84.3	6.1	6.1	2.9	5	86	74	822234	809820	<0.2	0.9	0.9			
					Bottom	6.4	0.3	311	23.3	23.3	8.1	8.1	29.4	29.4	84.8	84.9	6.2	6.2	3.0	5	87	74	822234	809820	<0.2	0.9	1.0			
						6.4	0.3	315	23.3	23.3	8.1	8.1	29.3	29.4	85.0	84.9	6.2	6.2	3.0	6	87	74	822234	809820	<0.2	1.0	1.0			
IM11	Misty	Moderate	10:23	8.0	Surface	1.0	0.3	298	23.4	23.4	8.1	8.1	29.2	29.3	85.1	85.1	6.2	6.2	2.4	5	52	76	821522	810556	<0.2	0.9	0.9			
						1.0	0.3	297	23.4	23.4	8.1	8.1	29.3	29.3	85.1	85.1	6.2	6.2	2.4	6	52	76	821522	810556	<0.2	0.9	0.9			
					Middle	4.0	0.3	279	23.3	23.3	8.1	8.1	29.6	29.6	85.2	85.3	6.2	6.2	2.8	5	87	76	821522	810556	<0.2	0.9	0.9			
						4.0	0.3	286	23.3	23.3	8.1	8.1	29.6	29.6	85.3	85.3	6.2	6.2	2.7	5	87	76	821522	810556	<0.2	0.9	0.9			
					Bottom	7.0	0.3	288	23.3	23.3	8.1	8.1	29.7	29.7	85.8	85.9	6.2	6.2	3.2	4	90	76	821522	810556	<0.2	1.0	0.9			
						7.0	0.4	282	23.3	23.3	8.1	8.1	29.7	29.7	85.9	85.9	6.2	6.2	3.3	5	90	76	821522	810556	<0.2	0.9	0.9			
IM12	Misty	Moderate	10:16	8.0	Surface	1.0	0.4	276	23.5	23.5	8.1	8.1	29.9	29.9	85.3	85.3	6.2	6.2	2.7	4	45	73	821161	811504	<0.2	0.9	0.9			
						1.0	0.4	272	23.5	23.5	8.1	8.1	29.9	29.9	85.3	85.3	6.2	6.2	2.7	4	45	73	821161	811504	<0.2	1.0	1.0			
					Middle	4.0	0.4	304	23.5	23.5	8.1	8.1	29.9	29.9	85.2	85.3	6.2	6.2	2.9	4	86	73	821161	811504	<0.2	0.9	0.9			
						4.0	0.4	298	23.5	23.5	8.1	8.1	29.9	29.9	85.3	85.3	6.2	6.2	2.9	4	86	73	821161	811504	<0.2	1.0	1.0			
					Bottom	7.0	0.4	273	23.4	23.4	8.1	8.1	29.9	29.9	85.9	86.0	6.2	6.2	3.8	6	87	73	821161	811504	<0.2	0.8	0.8			
						7.0	0.3	276	23.4	23.4	8.1	8.1	29.9	29.9	86.0	86.0	6.2	6.2	3.8	5	87	73	821161	811504	<0.2	0.8	0.8			
SR1A	Misty	Moderate	10:06	5.4	Surface	1.0	0.0	193	23.3	23.3	8.1	8.1	29.9	29.9	89.0	89.1	6.5	6.5	2.0	6	-	-	819974	812656	-	-	-			
						1.0	0.1	187	23.3	23.3	8.1	8.1	29.9	29.9	89.1	89.1	6.5	6.5	1.9	5	-	-	819974	812656	-	-	-			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	819974	812656	-	-	-		
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	819974	812656	-	-	-		
					Bottom	4.4	0.0	191	23.3	23.3	8.1	8.1	29.9	29.9	89.4	89.5	6.5	6.5	3.3	5	-	-	-	819974	812656	-	-	-		
						4.4	0.0	187	23.3	23.3	8.1	8.1	29.9	29.9	89.5	89.5	6.5	6.5	3.4	4	-	-	-	819974	812656	-	-	-		
SR2	Misty	Moderate	09:57	5.2	Surface	1.0	0.1	248	23.5	23.5	8.0	8.1	29.9	29.9	89.7	89.1	6.5	6.5	2.3	4	43	65	821446	814170	<0.2	1.0	1.0			
						1.0	0.1	255	23.5	23.5	8.1	8.1	29.9	29.9	88.5	89.1	6.4	6.4	2.4	5	43	65	821446	814170	<0.2	1.0	1.0			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	821446	814170	<0.2	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	821446	814170	<0.2	-	-		
					Bottom	4.2	0.1	252	23.5	23.5	8.1	8.1	30.0	30.0	89.1	89.2	6.4	6.5	3.3	3	87	65	821446	814170	<0.2	0.9	0.8			
						4.2	0.1	245	23.5	23.5	8.1	8.1	30.0	30.0	89.2	89.2	6.5	6.5	3.4	4	87	65	821446	814170	<0.2	0.8	0.8			
SR3	Misty	Moderate	11:18	9.0	Surface	1.0	0.2	349	23.3	23.3	8.1	8.1	29.4	29.4	88.5	88.7	6.4	6.5	2.3	3	-	-	822167	807575	-	-	-			
						1.0	0.2	341	23.3	23.3	8.1	8.1	29.4	29.4	88.8	88.8	6.5	6.5	2.3	3	-	-	822167	807575	-	-	-			
					Middle	4.5	0.2	345	23.2	23.2	8.1	8.1	29.4	29.5	89.3	89.4	6.5	6.5	2.3	4	-	-	822167	807575	-	-	-			
						4.5	0.2	350	23.2	23.2	8.1	8.1	29.5	29.5	89.5	89.5	6.5	6.5	2.3	4	-	-	822167	807575	-	-	-			
					Bottom	8.0	0.3	4	23.2	23.2	8.1	8.1	29.5	29.5	90.1	90.2	6.6	6.6	3.1	4	-	-	822167	807575	-	-	-			
						8.0	0.3	6	23.2	23.2	8.1	8.1	29.5	29.5	90.3	90.3	6.6	6.6	3.1	4	-	-	822167	807575	-	-	-			
SR4A	Cloudy	Moderate	09:39	8.4	Surface	1.0	0.0	222	22.6	22.6	8.2	8.2	30.4	30.4	86.4	86.4	6.3	6.3	1.9	4	-	-	817178	807794	-	-	-			
						1.0	0.0	221	22.6	22.6	8.2	8.2	30.4	30.4	86.4	86.4	6.3	6.3	1.9	3	-	-	817178	807794	-	-	-			
					Middle	4.2	-	229	22.6	22.6	8.2	8.2	30.5	30.5	86.2	86.2	6.3	6.3	2.2	4	-	-	817178	807794	-	-	-			
						4.2	0.0	229	22.6	22.6	8.2	8.2	30.5	30.5	86.2	86.2	6.2	6.2	2.2	5	-	-	817178	807794	-	-	-			
					Bottom	7.4	0.0	216	22.6	22.6	8.2	8.2	30.5	30.5	86.1	86.2	6.2	6.3	2.6	5	-	-	817178	807794	-	-	-			
						7.4	0.0	215	22.6	22.6	8.2	8.2	30.5	30.5	86.2	86.2	6.3	6.3	2.4	5	-	-	817178	807794	-	-	-			
SR5A	Cloudy	Moderate	09:23	3.6	Surface	1.0	0.1	305	22.6	22.6	8.2	8.2	30.0	30.0	87.5	87.5	6.4	6.4	1.4	5	-	-	816614	810707	-	-	-			
						1.0	0.1	304	22.6	22.6	8.2	8.2	30.0	30.0	87.5	87.5	6.4	6.4	1.4	4	-	-	816614	810707	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	816614	810707	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	816614	810707	-	-	-		
					Bottom	2.6	0.2	284	22.6	22.6	8.2	8.2	30.1	30.1	87.6	87.6	6.4	6.4	1.4	4	-	-	816614	810707	-	-	-			
						2.6	0.1	278	22.6	22.6	8.2	8.2	30.1	30.1	87.6	87.6	6.4	6.4	1.4	4	-	-	816614	810707	-	-	-			
SR6	Cloudy	Moderate	08:56	4.2	Surface	1.0	0.1	247	22.7	22.7	8.2	8.2	30.0	30.0	85.5	85.5	6.2	6.2	6.9	3	-	-	817882	814641	-	-	-			
						1.0	0.1	242	22.7	22.7	8.2	8.2	30.0	30.0	85.5	85.5	6.2	6.2	6.9	4	-	-	817882	814641	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	817882	814641	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	817882	814641	-	-	-		
					Bottom	3.2	0.1	242	22.7	22.7	8.2	8.2	30.0	30.0	85.7	85.7	6.2	6.2	2.9	4	-	-	817882	814641	-	-	-			
						3.2	0.0	248	22.7	22.7	8.2	8.2	30.0	30.0	85.7	85.7	6.2	6.2	3.0	4	-	-	817882	814641	-	-	-			
SR7	Misty	Moderate	09:12	11.2	Surface	1.0	0.8	234	23.6	23.6	8.1	8.1	28.7	28.7	84.3	84.3	6.1	6.1	2.8	4	-	-	823630	823752	-	-	-			
						1.0	0.9	232	23.6	23.6	8.1	8.1	28.7	28.7	84.3	84.3	6.1	6.1	2.8	5	-	-	823630	823752	-	-	-			
					Middle	5.6	0.9	236	23.6	23.6	8.1	8.1	28.8	28.8	84.5	84.6	6.1	6.1	2.9	4	-	-	823630</							

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 December 23 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	Fine	Rough	03:20	7.9	Surface	1.0	0.6	218	22.1	22.1	8.2	8.2	30.3	30.3	89.4	89.4	6.6	6.6	3.4	3.4	6	6	83	83	87	815618	804248	<0.2	0.8	0.7
						1.0	0.5	225	22.1		8.2	8.2	30.3		89.4		6.6	6.6	3.4	3.4	7	7	83	83				<0.2	0.7	
					Middle	4.0	0.5	229	22.1	22.1	8.2	8.2	30.4	30.4	88.4	88.4	6.5	6.5	3.6	3.6	5	5	87	87				<0.2	0.7	
						4.0	0.5	231	22.1		8.2	8.2	30.4		88.4		6.5	6.5	3.7	3.7	6	6	87	87				<0.2	0.8	
					Bottom	6.9	0.5	191	22.2	22.2	8.2	8.2	30.8	30.8	87.4	87.4	6.4	6.4	6.4	6.4	6	6	90	90				<0.2	0.7	
						6.9	0.5	186	22.2		8.2	8.2	30.8		87.4		6.4	6.4	6.4	6.4	5	5	90	90				<0.2	0.7	
C2	Cloudy	Moderate	05:27	12.4	Surface	1.0	0.9	178	22.4	22.4	8.1	8.2	28.4	28.5	88.0	88.0	6.5	6.5	4.3	4.3	3	3	86	86	88	825701	806954	<0.2	1.6	1.4
						1.0	0.9	173	22.4		8.2	8.2	28.5		87.9		6.5	6.5	4.5	4.5	3	3	87	87				<0.2	1.5	
					Middle	6.2	0.9	162	22.2	22.2	8.2	8.2	28.6	28.6	88.3	88.4	6.6	6.6	5.7	5.7	3	3	87	87				<0.2	1.6	
						6.2	0.9	165	22.2		8.2	8.2	28.6		88.4		6.6	6.6	6.2	6.2	3	3	85	85				<0.2	1.6	
					Bottom	11.4	1.0	167	22.3	22.3	8.2	8.2	28.6	28.6	90.7	90.9	6.7	6.7	9.8	9.8	3	3	90	90				<0.2	1.1	
						11.4	1.0	169	22.3		8.2	8.2	28.6		91.0		6.8	6.8	9.8	9.8	3	3	90	90				<0.2	1.1	
C3	Cloudy	Moderate	03:37	12.0	Surface	1.0	0.5	69	22.9	22.9	8.1	8.1	29.6	29.6	81.8	81.8	6.0	6.0	2.8	2.8	3	3	84	84	87	822108	817817	<0.2	1.1	1.1
						1.0	0.5	69	22.9		8.1	8.1	29.6		81.8		6.0	6.0	2.9	2.9	3	3	85	85				<0.2	1.1	
					Middle	6.0	0.5	66	22.9	22.9	8.1	8.1	29.7	29.7	81.1	81.1	5.9	5.9	7.0	7.0	3	3	86	86				<0.2	1.2	
						6.0	0.5	67	22.9	22.9	8.1	8.1	29.7	29.7	81.1	81.1	5.9	5.9	7.0	7.0	3	3	87	87				<0.2	1.1	
					Bottom	11.0	0.5	71	22.9	22.9	8.1	8.1	29.7	29.7	80.2	80.0	5.9	5.9	5.4	5.4	4	4	90	90				<0.2	1.1	
						11.0	0.5	74	22.9	22.9	8.1	8.1	29.7	29.7	79.8	80.0	5.9	5.9	6.0	6.0	3	3	91	91				<0.2	1.1	
IM1	Fine	Rough	03:37	7.1	Surface	1.0	0.5	201	22.2	22.2	8.2	8.2	30.2	30.2	88.9	88.9	6.5	6.5	2.3	2.3	5	5	82	82	86	818336	806445	<0.2	0.7	0.7
						1.0	0.5	204	22.2	22.2	8.2	8.2	30.2	30.2	88.9	88.9	6.5	6.5	2.3	2.3	4	4	82	82				<0.2	0.7	
					Middle	3.6	0.5	196	22.2	22.2	8.2	8.2	30.2	30.2	87.3	87.3	6.4	6.4	2.6	2.6	5	5	86	86				<0.2	0.7	
						3.6	0.5	194	22.2	22.2	8.2	8.2	30.2	30.2	87.3	87.3	6.4	6.4	2.6	2.6	5	5	86	86				<0.2	0.7	
					Bottom	6.1	0.5	190	22.1	22.1	8.2	8.2	30.3	30.3	87.2	87.3	6.4	6.4	2.8	2.8	4	4	91	91				<0.2	0.7	
						6.1	0.5	195	22.1	22.1	8.2	8.2	30.3	30.3	87.3	87.3	6.4	6.4	2.9	2.9	3	3	91	91				<0.2	0.8	
IM2	Fine	Rough	03:49	7.3	Surface	1.0	0.5	204	22.2	22.2	8.2	8.2	30.1	30.1	87.3	87.3	6.4	6.4	3.1	3.1	4	4	82	82	86	818850	806190	<0.2	0.8	0.8
						1.0	0.5	196	22.2	22.2	8.2	8.2	30.1	30.1	87.3	87.3	6.4	6.4	3.1	3.1	4	4	83	83				<0.2	0.8	
					Middle	3.7	0.5	206	22.2	22.2	8.2	8.2	30.2	30.2	87.2	87.2	6.4	6.4	2.4	2.4	4	4	86	86				<0.2	0.8	
						3.7	0.4	199	22.2	22.2	8.2	8.2	30.2	30.2	87.2	87.2	6.4	6.4	2.4	2.4	5	5	86	86				<0.2	0.8	
					Bottom	6.3	0.5	188	22.2	22.2	8.2	8.2	30.2	30.2	86.5	86.5	6.3	6.3	2.5	2.5	4	4	90	90				<0.2	0.8	
						6.3	0.5	194	22.2	22.2	8.2	8.2	30.2	30.2	86.5	86.5	6.3	6.3	2.5	2.5	4	4	90	90				<0.2	0.8	
IM3	Fine	Rough	04:02	7.5	Surface	1.0	0.5	211	22.2	22.2	8.2	8.2	30.0	30.0	87.3	87.3	6.4	6.4	3.1	3.1	5	5	83	83	87	819423	806013	<0.2	0.8	0.8
						1.0	0.5	205	22.2	22.2	8.2	8.2	30.0	30.0	87.3	87.3	6.4	6.4	3.1	3.1	5	5	83	83				<0.2	0.8	
					Middle	3.8	0.5	204	22.2	22.2	8.2	8.2	30.0	30.0	87.1	87.2	6.4	6.4	3.8	3.8	4	4	88	88				<0.2	0.8	
						3.8	0.5	208	22.2	22.2	8.2	8.2	30.0	30.0	87.2	87.2	6.4	6.4	3.8	3.8	7	7	88	88				<0.2	0.8	
					Bottom	6.5	0.5	183	22.2	22.2	8.2	8.2	30.1	30.1	86.8	86.8	6.4	6.4	8.2	8.2	5	5	90	90				<0.2	0.8	
						6.5	0.5	190	22.2	22.2	8.2	8.2	30.1	30.1	86.8	86.8	6.4	6.4	8.2	8.2	5	5	91	91				<0.2	0.9	
IM4	Fine	Rough	04:17	7.7	Surface	1.0	0.6	186	22.2	22.2	8.2	8.2	29.8	29.8	89.4	89.4	6.5	6.5	2.8	2.8	4	5	87	83	87	819555	805042	<0.2	0.9	0.8
						1.0	0.6	187	22.2	22.2	8.2	8.2	29.8	29.8	89.4	89.4	6.5	6.5	2.8	2.8	5	5	83	83				<0.2	0.8	
					Middle	3.9	0.5	184	22.2	22.2	8.2	8.2	29.8	29.8	87.2	87.2	6.4	6.4	2.9	2.9	5	5	86	86				<0.2	0.8	
						3.9	0.4	178	22.2	22.2	8.2	8.2	29.8	29.8	87.2	87.2	6.4	6.4	2.9	2.9	6	6	87	87				<0.2	0.8	
					Bottom	6.7	0.5	171	22.2	22.2	8.2	8.2	30.1	30.1	87.0	87.0	6.4	6.4	3.3	3.3	6	6	90	90				<0.2	0.6	
						6.7	0.5	177	22.2	22.2	8.2	8.2	30.1	30.1	87.0	87.0	6.4	6.4	3.3	3.3	5	5	91	91				<0.2	0.7	
IM5	Fine	Rough	04:34	7.2	Surface	1.0	0.5	199	22.2	22.2	8.2	8.2	30.3	30.3	89.5	89.5	6.6	6.6	3.8	3.8	6	6	87	87	88	820562	804926	<0.2	0.7	0.7
						1.0	0.5	192	22.2	22.2	8.2	8.2	30.2	30.3	89.5	89.5	6.6	6.6	3.7	3.7	6	6	83	83				<0.2	0.7	
					Middle	3.6	0.6	174	22.2	22.2	8.2	8.2	30.3	30.4	86.4	86.4	6.3	6.3	6	6	87	87	<0.2	0.6						
						3.6	0.6	177	22.2	22.2	8.2	8.2	30.4	30.4	86.4	86.4	6.3	6.3	6.2	6.2	6	6	87	87				<0.2	0.7	
					Bottom	6.2	0.5	175	22.2	22.2	8.2	8.2	30.4	30.4	86.2	86.2	6.3	6.3	8.2	8.2	5	5	91	91				<0.2	0.8	
						6.2	0.5	168	22.2	22.2	8.2	8.2	30.4	30.4	86.2	86.2	6.3	6.3	8.3	8.3	5	5	91	91				<0.2	0.8	
IM6	Fine	Rough	04:44	7.6	Surface	1.0	0.5	188	22.3	22.3	8.2	8.2	29.2	29.2	87.8	87.8	6.4	6.4	1.6	1.6	4	4	83	83	87	821043	805823	<0.2	0.9	0.9
						1.0	0.5	186	22.3	22.3	8.2	8.2	29.2	29.2	87.7	87.7	6.4	6.4	1.5	1.5	4	4	83	83				<0.2	0.9	
					Middle	3.8	0.4	212	22.3	22.3	8.2	8.2	29.2	29.2	87.4	87.4	6.4	6.4	3.5	3.5	3	3	87	87				<0.2	0.9	
						3.8	0.4	209	22.3	22.3	8.2	8.2	29.2	29.2	87.4	87.4	6.4	6.4	3.5	3.5	4	4	87	87				<0.2	1.0	
					Bottom	6.6	0.5	203	22.3	22.3	8.2	8.2	29.5	29.5	86.5	86.5	6.3	6.3	6.8	6.8	5	5	90	90				<0.2	1.0	
						6.6	0.5	201	22.3	22.3	8.2	8.2	29.5	29.5	86.6	86.6	6.4	6.4	6.8	6.8	5	5	91	91				<0.2	0.9	
IM7	Fine	Rough	04:57	8.2	Surface	1.0	0.4	202	22.2	22.2	8.2	8.2	29.0	29.0	88.4	88.4	6.5	6.5	2.3	2.3	4	4	82	82	87	821335	806819	<0.2	1.1	1.0
						1.0	0.5	197	22.2	22.2	8.2	8.2	29.0	29.0	88.4	88.4	6.5	6.5	2.3	2.3	3	3	83	83				<0.2	1.0	
					Middle	4.1	0.4	226	22.2	22.2	8.2	8.2	29.0	29.0	87.6	87.6	6.4	6.4	2.2	2.2	4	4	86	86				<0.2	1.0	
						4.1	0.4	221	22.2	22.2	8.2	8.2	29.0	29.0	87.5	87.6	6.4	6.4	2.3	2.3	4	4	86	86				<0.2	1.0	
					Bottom	7.2	0.5	216	22.3	22.3	8.2	8.2	29.4	29.4	86.8	86.8	6.4	6.4	2.6	2.6	5	5	91	91				<0.2	1.0	
						7.2	0.5	211	22.3	22.3	8.2	8.2	29.4	29.4	86.8	86.8	6.4	6.4	2.6	2.6	4	4	91	91				<0.2	1.0	
IM8	Cloudy	Moderate	05:02	7.2	Surface	1.0	0.6	194	22.4	22.4	8.2	8.2	28.3	28.3	89.4	89.4	6.7	6.7	2.2	2.2	2	3	86	86	88	821694	807833	<0.2	1.0	1.0
						1.0	0.5	188	22.3	22.4	8.2	8.2	28.3																	

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 December 23 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	Value	DA	
IM9	Cloudy	Moderate	04:57	6.8	Surface	1.0	0.6	156	22.3	22.3	8.2	8.2	28.3	28.3	89.7	89.7	6.7	1.9	3		3		85		87	822075	808811	<0.2	1.1						
						1.0	0.6	155	22.3		8.2	8.2	28.3		89.7	89.7	6.7	2.0	3		86		<0.2	1.1											
					Middle	3.4	0.6	143	22.3	22.3	8.2	8.2	28.3	28.4	89.6	89.6	6.7	2.4	3		3		87					<0.2	1.2						
						3.4	0.6	147	22.3		8.2	8.2	28.4		89.6	89.6	6.7	2.5	3		3		84					<0.2	1.3						
					Bottom	5.8	0.6	158	22.2	22.2	8.2	8.2	28.5	28.5	89.6	89.6	6.7	3.0	4		4		90					<0.2	1.3						
						5.8	0.6	153	22.2		8.2	8.2	28.5		89.6	89.6	6.7	3.2	3		3		89					<0.2	1.2						
IM10	Cloudy	Moderate	04:50	6.8	Surface	1.0	0.6	125	22.4	22.4	8.2	8.2	28.1	28.1	89.6	89.6	6.7	1.7	3		3		85		87	822237	809851	<0.2	1.3						
						1.0	0.6	124	22.4		8.2	8.2	28.1		89.6	89.6	6.7	1.8	3		3		85					<0.2	1.2						
					Middle	3.4	0.6	122	22.3	22.3	8.2	8.2	28.3	28.4	88.9	88.9	6.6	2.4	3		3		87					<0.2	1.2						
						3.4	0.6	127	22.2		8.2	8.2	28.4		88.9	88.9	6.6	2.6	3		3		87					<0.2	1.2						
					Bottom	5.8	0.6	122	22.2	22.2	8.2	8.2	28.5	28.5	88.6	88.6	6.6	3.7	3		3		88					<0.2	1.3						
						5.8	0.6	115	22.2	22.2	8.2	8.2	28.5		88.6	88.6	6.6	3.7	3		3		91					<0.2	1.2						
IM11	Cloudy	Moderate	04:46	7.1	Surface	1.0	0.6	87	22.3	22.3	8.2	8.2	28.1	28.1	90.0	90.0	6.7	1.8	4		4		85		86	821488	810536	<0.2	1.3						
						1.0	0.6	85	22.3		8.2	8.2	28.1		90.0	90.0	6.7	1.8	3		3		85					<0.2	1.2						
					Middle	3.6	0.6	83	22.3	22.3	8.2	8.2	28.4	28.4	90.0	90.0	6.7	2.7	4		4		86					<0.2	1.1						
						3.6	0.6	84	22.2		8.2	8.2	28.4		90.0	90.0	6.7	2.8	4		4		84					<0.2	1.2						
					Bottom	6.1	0.6	104	22.2	22.2	8.2	8.2	28.4	28.5	90.8	90.9	6.8	3.4	4		4		89					<0.2	1.1						
						6.1	0.6	96	22.2	22.2	8.2	8.2	28.5		91.0	91.0	6.8	3.5	4		4		88					<0.2	1.0						
IM12	Cloudy	Moderate	04:23	8.2	Surface	1.0	0.7	97	22.2	22.2	8.1	8.1	28.4	28.4	89.1	89.1	6.6	2.4	4		4		84		87	821178	811532	<0.2	1.1						
						1.0	0.7	95	22.2		8.1	8.1	28.4		89.1	89.1	6.6	2.4	3		3		85					<0.2	1.0						
					Middle	4.1	0.7	85	22.2	22.2	8.1	8.1	28.4	28.5	89.3	89.4	6.6	2.5	4		4		87					<0.2	1.1						
						4.1	0.7	88	22.2		8.1	8.1	28.5		89.4	89.4	6.7	2.5	4		4		86					<0.2	1.2						
					Bottom	7.2	0.7	116	22.2	22.2	8.1	8.1	28.5	28.5	90.9	91.1	6.8	2.4	4		4		87					<0.2	1.2						
						7.2	0.7	109	22.2	22.2	8.1	8.1	28.5		91.2	91.2	6.8	2.4	3		3		90					<0.2	1.2						
SR1A	Cloudy	Moderate	03:57	4.9	Surface	1.0	-	-	22.3	22.3	8.1	8.1	28.3	28.3	87.8	87.9	6.5	1.9	4		4		-		-	819974	812662	-	-						
						1.0	-	-	22.3		8.1	8.1	28.3		87.9	87.9	6.5	1.9	4		4		-					-	-						
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
						2.5	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
					Bottom	3.9	-	-	22.2	22.2	8.1	8.1	28.4	28.4	89.5	89.7	6.7	2.1	3		3		-					-	-	-	-	-	-		
						3.9	-	-	22.2		8.1	8.1	28.4		89.8	89.8	6.7	2.1	4		4		-					-	-	-	-	-	-		
SR2	Cloudy	Moderate	03:42	4.7	Surface	1.0	0.6	49	22.5	22.5	8.1	8.1	28.9	28.9	85.2	85.2	6.3	2.1	4		4		85		87	821440	814165	<0.2	1.0						
						1.0	0.6	46	22.5		8.1	8.1	28.9		85.1	85.1	6.3	2.1	4		4		87					<0.2	1.1						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
						-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
					Bottom	3.7	0.6	27	22.5	22.5	8.1	8.1	29.0	29.0	84.9	84.9	6.3	2.5	4		4		88					<0.2	1.2						
						3.7	0.6	33	22.5		8.1	8.1	29.0		84.9	84.9	6.3	2.5	4		4		87					<0.2	1.3						
SR3	Cloudy	Moderate	05:06	8.2	Surface	1.0	0.7	156	22.5	22.5	8.2	8.2	28.2	28.2	89.5	89.5	6.6	2.4	4		4		-		-	822139	807547	-	-						
						1.0	0.7	163	22.4		8.2	8.2	28.2		89.4	89.4	6.6	2.5	4		4		-					-	-						
					Middle	4.1	0.7	177	22.2	22.2	8.2	8.2	28.6	28.6	89.2	89.2	6.6	3.7	3		3		-					-	-						
						4.1	0.7	173	22.2		8.2	8.2	28.6		89.2	89.2	6.6	3.7	4		4		-					-	-						
					Bottom	7.2	0.7	149	22.2	22.2	8.2	8.2	28.7	28.8	90.6	90.7	6.7	4.1	4		4		-					-	-						
						7.2	0.7	153	22.2	22.2	8.2	8.2	28.8		90.8	90.8	6.7	4.1	4		4		-					-	-						
SR4A	Fine	Rough	02:58	10.3	Surface	1.0	0.0	86	22.1	22.1	8.2	8.2	30.1	30.1	86.1	86.1	6.3	3.3	6		6		-		-	817204	807812	-	-						
						1.0	0.0	83	22.1		8.2	8.2	30.1		86.1	86.1	6.3	3.2	6		6		-					-	-						
					Middle	5.2	0.0	93	22.1	22.1	8.2	8.2	30.1	30.1	85.9	85.9	6.3	3.3	6		6		-					-	-						
						5.2	0.1	87	22.1		8.2	8.2	30.1		85.9	85.9	6.3	3.3	7		7		-					-	-						
					Bottom	9.3	0.0	96	22.0	22.0	8.2	8.2	30.2	30.2	86.0	86.1	6.3	3.7	6		6		-					-	-						
						9.3	0.0	100	22.0	22.0	8.2	8.2	30.2		86.1	86.1	6.3	3.7	6		6		-					-	-						
SR5A	Fine	Rough	02:43	4.8	Surface	1.0	0.2	120	22.2	22.2	8.2	8.2	30.0	30.0	86.3	86.3	6.3	2.8	7		7		-		-	816582	810684	-	-						
						1.0	0.3	121	22.2		8.2	8.2	30.0		86.3	86.3	6.3	2.9	12		12		-					-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
						-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
					Bottom	3.8	0.3	106	22.2	22.2	8.2	8.2	30.0	30.0	86.6	86.6	6.3	3.7	5		5		-					-	-						
						3.8	0.3	101	22.2	22.2	8.2	8.2	30.0		86.6	86.6	6.3	3.7	6		6		-					-	-						
SR6	Fine	Rough	02:19	5.2	Surface	1.0	0.2	66	22.0	22.0	8.1	8.1	29.9	29.9	87.3	87.3	6.4	2.9	7		7		-		-	817900	814684	-	-						
						1.0	0.1	64	22.0		8.1	8.1	29.9		87.3	87.3	6.4	3.0	6		6		-					-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
						-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-				-	-	-	-	-			
					Bottom	4.2	0.2	57	21.9	21.9	8.1	8.1	29.9	29.9	87.4	87.5	6.4	3.4	8		8		-					-	-						
						4.2	0.2	56	21.9	21.9	8.1	8.1	29.9		87.5	87.5	6.4	3.4	9		9		-					-	-						
SR7	Cloudy	Moderate	02:57	16.5	Surface	1.0	1.1	57	22.9	22.9	8.1	8.1	29.7	29.7	80.9	80.9	5.9	2.9	5		5		-		-	823643	823748	-	-						
						1.0	1.1	58	22.9		8.1	8.1	29.7		80.9	80.9	5.9	2.9	4		4		-					-	-						
					Middle	8.3	1.0	79	22.9	22.9	8.1	8.1	29.8	29.8	80.9	80.9	5.9	3.3	4		4		-					-	-						
						8.3	1.0	81	22.9		8.1	8.1	29.8		80.9	80.9	5.9	3.3	5		5		-					-	-						
					Bottom	15.5	1.0	86	22.9	22.9	8.1	8.1	29.9	29.9	79.2	79.2	5.8	8.4	4		4		-					-	-						
						15.5	1.0	91	22.9	22.9	8.1	8.1	29.9		79.2	79.2	5.8	9.3	3		3		-					-	-						
SR8	Cloudy	Moderate	04:18	5.8	Surface	1.0	-	-	22.3	22.3	8.1	8.1	28.5	28.5	88.5	88.5	6.6	2.6	4		4		-		-	820405	811622	-	-						
						1.0	-	-	22.3																										

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

Water Quality Monitoring

Water Quality Monitoring Results on

02 December 23 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	Fine	Rough	15:59	7.3	Surface	1.0	0.0	75	22.3	22.3	8.2	8.2	31.0	31.0	88.4	88.4	6.4	8.1	6.4	8.1	12		82		86	815641	804255		<0.2	0.6
						1.0	0.0	80	22.3		8.2		31.0		88.4		6.4	8.0			13		83						<0.2	0.7
					Middle	3.7	0.0	69	22.3	22.3	8.2	8.2	31.0	31.0	88.4	88.4	6.4	6.9	8.1	12	12	86	86							
						3.7	0.0	62	22.3		8.2		31.0		88.4		6.4	7.0			12		86						<0.2	0.6
					Bottom	6.3	0.1	93	22.3	22.3	8.2	8.2	31.1	31.1	87.8	87.8	6.4	9.4	8.1	12	90	90								
						6.3	0.1	94	22.3		8.2		31.1		87.8		6.4	9.4			11		90						<0.2	0.5
C2	Cloudy	Moderate	14:24	12.3	Surface	1.0	0.1	338	23.0	23.0	8.1	8.1	27.5	27.5	87.1	87.0	6.4	6.9	6.3	6.9	4		85		87	825702	806965		<0.2	1.1
						1.0	0.2	344	23.0		8.1		27.5		86.9		6.4	6.9			4		85						<0.2	1.1
					Middle	6.2	0.1	10	23.2	23.2	8.1	8.1	27.9	27.9	84.9	84.9	6.2	7.7	8.2	3	3	87	87							
						6.2	0.2	11	23.2		8.1		27.9		84.8		6.2	7.7			3		87						<0.2	1.1
					Bottom	11.3	0.1	327	23.2	23.2	8.1	8.1	27.9	27.9	84.6	84.6	6.2	10.0	8.2	3	3	88	88							
						11.3	0.1	334	23.2		8.1		27.9		84.6		6.2	10.1			3		91						<0.2	1.1
C3	Cloudy	Moderate	16:20	8.2	Surface	1.0	0.0	99	23.3	23.3	8.1	8.1	29.3	29.3	82.5	82.6	5.9	1.6	6.0	1.6	3		85		88	822129	817792		<0.2	1.0
						1.0	0.0	92	23.3		8.1		29.3		82.6		6.0	1.7			3		86						<0.2	1.0
					Middle	4.1	0.0	87	23.3	23.3	8.1	8.1	29.4	29.4	83.3	83.5	6.0	2.1	4.0	3	3	87	87							
						4.1	0.0	81	23.3		8.1		29.4		83.6		6.0	2.2			3		88						<0.2	1.1
					Bottom	7.2	0.1	99	23.3	23.3	8.1	8.1	29.4	29.4	85.8	86.2	6.2	8.5	6.2	3	3	90	90							
						7.2	0.0	95	23.3		8.1		29.4		86.6		6.2	8.0			3		89						<0.2	1.2
IM1	Fine	Rough	15:37	6.2	Surface	1.0	0.1	36	22.2	22.2	8.2	8.2	30.3	30.6	88.4	88.4	6.5	5.1	6.5	5.1	9		82		86	818365	806474		<0.2	0.6
						1.0	0.1	36	22.2		8.2		30.3		88.4		6.5	5.1			10		82						<0.2	0.6
					Middle	3.1	0.1	39	22.2	22.2	8.2	8.2	30.6	30.7	88.5	88.5	6.5	6.4	6.7	8	9	86	86							
						3.1	0.0	35	22.2		8.2		30.7		88.5		6.5	6.4			9		86						<0.2	0.5
					Bottom	5.2	0.0	40	22.2	22.2	8.2	8.2	30.7	30.8	88.3	88.4	6.4	8.4	6.4	8.4	9	91	91							
						5.2	0.0	46	22.2		8.2		30.8		88.4		6.4	8.5			6		91						<0.2	0.5
IM2	Fine	Rough	15:25	6.6	Surface	1.0	0.1	26	22.2	22.2	8.2	8.2	30.7	30.7	88.8	88.8	6.5	2.1	6.5	2.1	6		82		87	818843	806214		<0.2	0.6
						1.0	0.1	32	22.2		8.2		30.7		88.8		6.5	2.1			6		83						<0.2	0.6
					Middle	3.3	0.2	36	22.2	22.2	8.2	8.2	30.5	30.5	87.8	87.8	6.4	3.4	3.2	6	6	87	87							
						3.3	0.2	30	22.2		8.2		30.5		87.8		6.4	3.5			6		87						<0.2	0.6
					Bottom	5.6	0.2	29	22.2	22.2	8.2	8.2	30.4	30.7	87.6	87.6	6.4	4.2	6.4	4.2	7	90	90							
						5.6	0.2	31	22.2		8.2		31.0		87.6		6.4	4.1			6		91						<0.2	0.6
IM3	Fine	Rough	15:11	6.8	Surface	1.0	0.1	29	22.1	22.1	8.2	8.2	30.5	30.5	88.4	88.4	6.5	4.5	6.5	4.5	7		83		86	819414	806031		<0.2	0.6
						1.0	0.1	23	22.1		8.2		30.5		88.4		6.5	4.5			6		83						<0.2	0.6
					Middle	3.4	0.1	45	22.1	22.1	8.2	8.2	30.5	30.5	88.3	88.3	6.5	5.1	4.9	6	6	86	86							
						3.4	0.1	51	22.1		8.2		30.5		88.2		6.5	5.1			5		86						<0.2	0.6
					Bottom	5.8	0.1	35	22.1	22.1	8.2	8.2	30.4	30.4	88.1	88.1	6.4	5.2	6.4	5.2	5	90	90							
						5.8	0.1	38	22.1		8.2		30.4		88.1		6.4	5.2			4		90						<0.2	0.6
IM4	Fine	Rough	14:56	7.4	Surface	1.0	0.1	55	22.1	22.1	8.2	8.2	30.4	30.4	88.7	88.7	6.5	4.0	6.5	4.0	5		83		87	819598	805036		<0.2	0.6
						1.0	0.1	49	22.1		8.2		30.4		88.7		6.5	4.1			6		83						<0.2	0.6
					Middle	3.7	0.1	32	22.1	22.1	8.2	8.2	30.5	30.5	89.2	89.2	6.5	3.7	3.9	6	6	87	87							
						3.7	0.1	29	22.1		8.2		30.5		89.2		6.5	3.6			6		87						<0.2	0.6
					Bottom	6.4	0.1	39	22.1	22.1	8.2	8.2	30.5	30.5	89.6	89.7	6.6	3.9	6.6	3.9	7	90	90							
						6.4	0.2	37	22.1		8.2		30.5		89.8		6.6	3.9			5		90						<0.2	0.6
IM5	Fine	Rough	14:46	7.2	Surface	1.0	0.1	43	22.2	22.2	8.2	8.2	30.0	30.9	90.4	90.5	6.6	3.1	6.5	3.1	6		83		87	820564	804900		<0.2	0.8
						1.0	0.2	36	22.2		8.2		31.7		90.5		6.6	3.1			5		83						<0.2	0.8
					Middle	3.6	0.1	18	22.2	22.2	8.2	8.2	30.6	30.5	87.3	87.4	6.4	4.5	4.4	5	5	87	87							
						3.6	0.1	20	22.2		8.2		30.4		87.4		6.4	4.4			4		87						<0.2	0.8
					Bottom	6.2	0.1	36	22.2	22.2	8.2	8.2	30.5	30.5	86.8	86.8	6.3	5.7	6.3	5.7	5	90	90							
						6.2	0.1	30	22.2		8.2		30.5		86.8		6.3	5.7			4		90						<0.2	0.8
IM6	Fine	Rough	14:32	7.1	Surface	1.0	0.2	36	22.3	22.3	8.2	8.2	29.5	29.5	89.3	89.3	6.6	1.4	6.5	1.4	2		82		86	821054	805819		<0.2	0.8
						1.0	0.1	40	22.3		8.2		29.4		89.2		6.5	1.5			3		83						<0.2	0.8
					Middle	3.6	0.1	24	22.3	22.3	8.2	8.2	29.5	29.5	88.5	88.5	6.5	1.3	6.5	1.3	6	3	86	86						
						3.6	0.2	24	22.3		8.2		29.5		88.5		6.5	1.3			3		87						<0.2	0.8
					Bottom	6.1	0.1	59	22.3	22.3	8.2	8.2	30.4	30.4	87.3	87.3	6.4	2.2	6.4	2.2	3	3	90	90						
						6.1	0.2	64	22.3		8.2		30.4		87.3		6.4	2.2			3		90						<0.2	0.8
IM7	Fine	Rough	14:19	7.8	Surface	1.0	0.2	32	22.2	22.2	8.2	8.2	28.9	28.9	88.6	88.6	6.5	1.9	6.5	1.9	4		83		87	821355	806832		<0.2	0.9
						1.0	0.2	28	22.2		8.2		28.9		88.6		6.5	1.9			4		83						<0.2	0.9
					Middle	3.9	0.2	35	22.3	22.3	8.2	8.2	29.1	29.1	87.7	87.7	6.5	3.6	6.5	3.6	3	3	87	87						
						3.9	0.2	36	22.3		8.2		29.1		87.7		6.5	3.6			3		87						<0.2	0.9
					Bottom	6.8	0.1	32	22.3	22.3	8.2	8.2	29.4	29.4	87.6	87.7	6.4	4.2	6.4	4.2	2	90	90							
						6.8	0.1	36	22.3		8.2		29.4		87.7		6.4	4.3			3		90						<0.2	0.8
IM8	Cloudy	Moderate	14:57	7.2	Surface	1.0	0.1	25	22.9	22.9	8.2	8.2	28.4	28.4	87.8	87.8	6.4	10.1	6.4	10.1	2		85		87	821713	807838		<0.2	1.2
						1.0	0.2	21	22.9		8.2		28.4		87.7		6.4	10.2			3		86						<0.2	1.2
					Middle	3.6	0.1	40	22.9	22.9	8.2	8.2	28.5	28.5	86.9	86.9	6.3	12.6	6.3	12.6	2	2	86	86						
						3.6	0.1	41	22.8		8.2		28.5		86.8		6.3	12.5			2		84						<0.2	1.1
					Bottom	6.2	0.2	48	22.8	22.8	8.2	8.2	28.4	28.4	87.7	87.7	6.4	9.8	6.4	9.8	2	90	90							
						6.2	0.2	54	22.8		8.2		28.4		87.7		6.4	9.7			2		89						<0.2	1.1

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 December 23 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	15:02	8.0	Surface	1.0	0.1	32	22.9	22.9	8.2	8.2	28.5	28.5	87.7	87.7	6.4	6.4	2.6		2		85	88	822083	808829	<0.2	1.2				
						1.0	0.1	29	22.9		8.2	8.2	28.5		87.7		6.4	2.7		2		86										
					Middle	4.0	0.2	15	22.9	22.9	8.2	8.2	28.5	28.5	88.2	88.3	6.4	3.0	4.0	2	2	88	88	<0.2			1.2					
						4.0	0.2	14	22.9		8.2	8.2	28.5		88.3		6.5	3.1		3		87										
					Bottom	7.0	0.1	41	22.8	22.8	8.2	8.2	28.4	28.4	89.7	89.8	6.6	6.2		2		88		<0.2			1.0					
						7.0	0.1	36	22.8		8.2	8.2	28.4		89.9		6.6	6.2		2		91		<0.2			1.1					
IM10	Cloudy	Moderate	15:07	7.7	Surface	1.0	0.1	9	22.9	22.9	8.2	8.2	28.5	28.5	87.2	87.2	6.4	6.4	2.7		3		86	87	822262	809820	<0.2	1.1				
						1.0	0.1	14	22.9		8.2	8.2	28.5		87.2		6.4	2.7		2		87										
					Middle	3.9	0.1	9	22.9	22.9	8.2	8.2	28.5	28.5	87.5	87.6	6.4	3.0	3.1	2	2	87	85	<0.2			1.1					
						3.9	0.1	8	22.9		8.2	8.2	28.5		87.6		6.4	3.0		3		85										
					Bottom	6.7	0.0	20	22.8	22.8	8.2	8.2	28.5	28.5	89.2	89.3	6.5	3.6		2		90		<0.2			1.1					
						6.7	0.0	12	22.8		8.2	8.2	28.5		89.3		6.5	3.5		2		90		<0.2			1.2					
IM11	Cloudy	Moderate	15:14	7.7	Surface	1.0	0.0	25	23.0	23.0	8.2	8.2	28.5	28.5	87.6	87.6	6.4	6.4	2.4		2		84	86	821500	810533	<0.2	1.1				
						1.0	0.0	20	23.0		8.2	8.2	28.5		87.6		6.4	2.4		3		86										
					Middle	3.9	0.1	28	23.0	23.0	8.2	8.2	28.6	28.6	87.5	87.5	6.4	2.5	2.5	3	3	87	88	<0.2			1.0					
						3.9	0.1	24	23.0		8.2	8.2	28.6		87.5		6.4	2.5		2		88										
					Bottom	6.7	0.0	48	23.0	23.0	8.2	8.2	28.6	28.6	88.3	88.4	6.4	2.7		3		91		<0.2			1.1					
						6.7	0.0	41	22.9		8.2	8.2	28.6		88.5		6.4	2.7		2		91		<0.2			1.1					
IM12	Cloudy	Moderate	15:23	8.2	Surface	1.0	0.1	66	23.0	23.0	8.1	8.1	28.5	28.5	86.9	87.0	6.3	6.4	3.1		2		86	87	821171	811537	<0.2	1.0				
						1.0	0.0	69	23.0		8.1	8.1	28.5		87.0		6.3	3.2		2		87										
					Middle	4.1	0.1	83	22.9	22.9	8.2	8.2	28.5	28.5	87.7	87.9	6.4	3.4	5.0	2	3	88	88	<0.2			1.2					
						4.1	0.1	79	22.9		8.2	8.2	28.5		88.0		6.4	3.5		3		88										
					Bottom	7.2	0.1	99	22.9	22.9	8.2	8.2	28.5	28.5	89.3	89.4	6.5	8.5		3		85		<0.2			1.2					
						7.2	0.1	100	22.9		8.2	8.2	28.5		89.5		6.5	8.4		3		85		<0.2			1.1					
SR1A	Cloudy	Moderate	15:46	5.2	Surface	1.0	-	-	22.9	22.9	8.2	8.2	28.4	28.4	86.8	86.9	6.3	6.3	3.4		4		-	-	819974	812654	-	-				
						1.0	-	-	22.9		8.2	8.2	28.4		86.9		6.3	3.4		4		-	-									
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	3.5	-	4	-			-	-	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-
					Bottom	4.2	-	-	22.8	22.8	8.2	8.2	28.4	28.4	87.8	88.0	6.4	3.6		4		-	-									
						4.2	-	-	22.8		8.2	8.2	28.4		88.1		6.4	3.7		3		-	-									
SR2	Cloudy	Moderate	15:59	5.2	Surface	1.0	0.1	43	23.1	23.1	8.1	8.1	28.6	28.6	86.7	86.8	6.3	6.3	2.0		3		87	87	821456	814177	<0.2	1.1				
						1.0	0.1	49	23.1		8.1	8.1	28.6		86.8		6.3	2.0		3		87										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	2.0	-	3	-			-	-	<0.2	1.1		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-
					Bottom	4.2	0.1	49	23.1	23.1	8.2	8.2	28.7	28.7	87.4	87.6	6.4	2.0		3		88		<0.2			1.1					
						4.2	0.1	54	23.1		8.2	8.2	28.7		87.7		6.4	2.0		4		91		<0.2			1.1					
SR3	Cloudy	Moderate	14:50	8.4	Surface	1.0	0.2	353	23.0	23.0	8.1	8.1	27.7	27.8	88.4	88.4	6.5	6.5	3.4		4		-	-	822144	807570	-	-				
						1.0	0.1	347	23.0		8.1	8.1	27.8		88.3		6.5	3.4		5		-	-									
					Middle	4.2	0.1	13	23.0	23.0	8.1	8.1	28.1	28.1	88.2	88.3	6.4	2.9	4.1	4	4	-	-	-			-	-	-	-	-	-
						4.2	0.1	11	23.0		8.1	8.1	28.1		88.3		6.4	2.9		4		-	-									
					Bottom	7.4	0.2	29	22.8	22.8	8.1	8.1	28.3	28.3	88.9	89.1	6.5	5.9		4		-	-									
						7.4	0.2	24	22.8		8.1	8.1	28.3		89.2		6.5	5.8		5		-	-									
SR4A	Fine	Rough	16:21	9.8	Surface	1.0	0.0	97	22.2	22.2	8.2	8.2	30.4	30.4	89.3	89.3	6.5	6.4	2.5		5		-	-	817181	807819	-	-				
						1.0	0.1	92	22.2		8.2	8.2	30.3		89.3		6.5	2.5		5		-	-									
					Middle	4.9	0.0	85	22.3	22.3	8.2	8.2	30.8	30.8	86.4	86.4	6.3	3.7		4		-	-	-			-	-	-	-	-	
						4.9	0.0	86	22.3		8.2	8.2	30.8		86.4		6.3	3.8		5		-	-									
					Bottom	8.8	0.0	87	22.3	22.3	8.2	8.2	30.9	30.9	85.5	85.5	6.2	5.3		5		-	-									
						8.8	0.1	85	22.3		8.2	8.2	30.9		85.5		6.2	5.3		6		-	-									
SR5A	Fine	Moderate	16:36	4.9	Surface	1.0	0.1	100	22.1	22.1	8.2	8.2	30.1	30.1	87.5	87.5	6.4	6.4	2.0		8		-	-	816612	810680	-	-				
						1.0	0.1	95	22.1		8.2	8.2	30.1		87.5		6.4	2.0		12		-	-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-	-			-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.9	0.0	103	22.1	22.1	8.2	8.2	30.2	30.2	86.9	86.9	6.4	2.1		4		-	-									
						3.9	0.0	105	22.1		8.2	8.2	30.2		86.9		6.4	2.1		4		-	-									
SR6	Fine	Moderate	16:57	4.4	Surface	1.0	0.0	102	22.5	22.5	8.2	8.2	30.2	30.2	87.5	87.5	6.4	6.4	1.4		4		-	-	817886	814646	-	-				
						1.0	0.0	101	22.5		8.2	8.2	30.2		87.5		6.4	1.4		4		-	-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-	-			-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	3.4	0.0	73	22.5	22.5	8.2	8.2	30.3	30.4	85.5	85.6	6.2	1.1		3		-	-									
						3.4	0.0	77	22.5		8.2	8.2	30.4		85.6		6.2	1.1		4		-	-									
SR7	Cloudy	Moderate	16:51	16.4	Surface	1.0	0.0	256	23.4	23.4	8.1	8.1	29.5	29.5	81.3	81.3	5.8	5.9	1.8		3		-	-	823631	823727	-	-				
						1.0	0.0	262	23.4		8.1	8.1	29.5		81.3		5.8	1.8		4		-	-									
					Middle	8.2	0.0	244	23.4	23.4	8.1	8.1	29.5	29.6	81.5	81.6	5.9	2.2		4		-	-									
						8.2	0.0	242	23.4		8.1	8.1	29.6		81.6		5.9	2.2		4		-	-									
					Bottom	15.4	0.0	238	23.3	23.3	8.1	8.1	29.6	29.6	82.1	82.4	5.9	6.1		3		-	-									
						15.4	0.0	244	23.3		8.1	8.1	29.5		82.7		6.0	6.1		2		-	-									
SR8	Cloudy	Moderate	15:28	5.0	Surface	1.0	-	-	23.0	23.0	8.2	8.2	28.4	28.4	87.7	87.7	6.4	6.4	1.8		3		-	-	820395	811625	-	-				
						1.0	-	-	23.0		8.2	8.2	28.4		87.7		6.4	1.9		3		-	-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-	-			-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	
					Bottom	4.0	-	-	23.0	23.0	8.2	8.2	28.5	28.5	89.2	89.3	6.5	4.3		3		-	-									
						4.0	-	-	23.0		8.2	8.2	28.5		89.3		6.5	4.1		3		-	-									

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 05 December 23 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 Gnd (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	06:21	8.4	Surface	1.0	0.4	218	22.0	22.0	8.2	8.2	30.4	30.4	88.8	88.8	6.5	6.5	11.7	10.3	3	2	85	88	88	815629	804244	<0.2	0.8	0.9
						1.0	0.4	214	22.0	21.9	8.2	8.2	30.4	30.8	88.8	88.5	6.5	6.5	11.9	10.3	2	2	86	87				<0.2	0.9	
					Middle	4.2	0.4	220	21.9	21.9	8.2	8.2	30.8	30.8	88.5	88.5	6.5	6.5	6.5	10.3	3	2	88	88				<0.2	0.9	
						4.2	0.4	225	21.9	21.9	8.2	8.2	30.8	30.8	88.5	88.5	6.5	6.5	6.7	10.3	2	2	87	88				<0.2	0.9	
					Bottom	7.4	0.4	206	22.0	22.0	8.2	8.2	31.1	31.1	87.8	87.8	6.4	6.4	12.6	12.6	2	2	88	91				<0.2	0.9	
						7.4	0.4	208	22.0	22.0	8.2	8.2	31.1	31.1	87.8	87.8	6.4	6.4	12.6	12.6	2	2	88	91				<0.2	0.8	
C2	Misty	Moderate	07:00	11.2	Surface	1.0	0.5	170	22.4	22.4	8.1	8.1	29.1	29.1	85.7	85.7	6.3	6.3	4.6	5.1	3	2	52	52	78	825673	806964	<0.2	0.8	0.8
						1.0	0.5	167	22.4	22.4	8.1	8.1	29.1	29.1	85.7	85.8	6.3	6.3	4.6	5.0	2	2	52	91				<0.2	0.8	
					Middle	5.6	0.5	153	22.4	22.4	8.1	8.1	29.2	29.2	85.8	85.8	6.3	6.3	5.0	5.0	2	2	91	91				<0.2	0.8	
						5.6	0.4	145	22.4	22.4	8.1	8.1	29.1	29.1	85.8	85.8	6.3	6.3	5.0	5.0	2	2	91	90				<0.2	0.8	
					Bottom	10.2	0.5	186	22.4	22.4	8.1	8.1	29.2	29.2	86.4	86.5	6.4	6.4	5.7	5.7	<2	<2	90	90				<0.2	0.8	
						10.2	0.5	190	22.4	22.4	8.1	8.1	29.1	29.2	86.5	86.5	6.4	6.4	5.7	5.7	<2	<2	90	90				<0.2	0.8	
C3	Misty	Moderate	05:07	10.6	Surface	1.0	0.3	76	22.7	22.7	8.0	8.0	28.8	28.8	85.8	85.8	6.3	6.3	5.6	6.3	3	3	44	86	72	822092	817805	<0.2	0.8	0.8
						1.0	0.2	68	22.7	22.7	8.0	8.0	28.8	28.8	85.8	85.8	6.3	6.4	5.6	6.5	2	3	44	86				<0.2	0.8	
					Middle	5.3	0.3	67	22.7	22.7	8.0	8.0	28.8	28.8	87.5	87.6	6.4	6.4	6.5	6.5	3	3	86	86				<0.2	0.8	
						5.3	0.3	65	22.7	22.7	8.0	8.0	28.8	28.8	87.7	87.6	6.5	6.5	6.5	6.5	2	3	86	86				<0.2	0.8	
					Bottom	9.6	0.2	73	22.7	22.7	8.1	8.1	28.8	28.8	91.3	91.5	6.7	6.7	6.8	6.8	3	3	86	86				<0.2	0.7	
						9.6	0.2	72	22.7	22.7	8.1	8.1	28.8	28.8	91.7	91.5	6.7	6.7	6.7	6.7	3	3	86	86				<0.2	0.7	
IM1	Cloudy	Moderate	06:46	6.2	Surface	1.0	0.4	179	22.1	22.1	8.2	8.2	30.4	30.4	88.4	88.4	6.5	6.5	2.4	4.3	2	2	86	86	87	818361	806438	<0.2	0.9	0.9
						1.0	0.4	185	22.1	22.1	8.2	8.2	30.4	30.4	88.3	88.4	6.5	6.5	2.5	4.3	2	2	86	84				<0.2	0.9	
					Middle	3.1	0.3	204	22.1	22.1	8.2	8.2	30.9	30.9	87.3	87.2	6.4	6.4	3.6	3.9	2	2	87	84				<0.2	0.9	
						3.1	0.3	210	22.1	22.1	8.2	8.2	30.9	30.9	87.2	87.3	6.4	6.4	3.9	4.3	2	2	84	90				<0.2	0.9	
					Bottom	5.2	0.3	196	22.1	22.1	8.1	8.1	31.3	31.3	87.4	87.4	6.4	6.4	6.8	6.3	2	2	90	89				<0.2	0.9	
						5.2	0.3	190	22.1	22.1	8.1	8.1	31.3	31.3	87.4	87.4	6.4	6.4	6.3	6.3	2	2	89	92				<0.2	0.8	
IM2	Cloudy	Moderate	06:50	6.4	Surface	1.0	0.4	193	22.1	22.1	8.2	8.2	30.3	30.2	88.1	88.1	6.5	6.5	2.1	3.7	<2	<2	86	86	88	818873	806195	<0.2	0.8	0.8
						1.0	0.4	194	22.1	22.1	8.2	8.2	30.1	30.2	88.1	88.1	6.5	6.4	2.1	4.4	<2	<2	86	88				<0.2	0.8	
					Middle	3.2	0.4	218	22.1	22.1	8.2	8.2	31.3	31.2	86.1	86.1	6.3	6.3	4.4	4.9	2	2	88	88				<0.2	0.8	
						3.2	0.4	220	22.1	22.1	8.2	8.2	31.0	31.2	86.1	86.1	6.3	6.3	4.9	4.2	2	2	88	88				<0.2	0.8	
					Bottom	5.4	0.4	202	22.1	22.1	8.2	8.2	31.1	31.1	85.9	86.0	6.3	6.3	4.4	4.3	2	2	89	92				<0.2	0.8	
						5.4	0.4	203	22.1	22.1	8.2	8.2	31.1	31.1	86.0	86.0	6.3	6.3	4.3	4.2	2	2	92	92				<0.2	0.9	
IM3	Cloudy	Moderate	06:54	6.8	Surface	1.0	0.4	206	22.1	22.1	8.2	8.2	30.3	30.3	87.6	87.6	6.4	6.4	8.8	8.3	3	4	87	88	88	819401	806041	<0.2	0.8	0.9
						1.0	0.4	210	22.1	22.1	8.2	8.2	30.2	30.3	87.5	87.6	6.4	6.4	9.1	8.8	2	4	87	85				<0.2	0.9	
					Middle	3.4	0.4	215	22.2	22.2	8.2	8.2	31.2	31.2	86.3	86.3	6.3	6.3	6.8	6.8	4	3	88	85				<0.2	0.9	
						3.4	0.4	211	22.2	22.2	8.2	8.2	31.2	31.2	86.3	86.3	6.3	6.3	6.8	6.8	3	3	85	91				<0.2	0.9	
					Bottom	5.8	0.3	213	22.2	22.2	8.2	8.2	31.3	31.3	86.9	87.0	6.3	6.3	9.0	9.2	5	4	91	90				<0.2	0.9	
						5.8	0.4	219	22.2	22.2	8.2	8.2	31.3	31.3	87.0	87.0	6.3	6.3	9.2	9.2	4	4	90	90				<0.2	0.9	
IM4	Cloudy	Moderate	06:59	7.3	Surface	1.0	0.4	197	22.2	22.2	8.2	8.2	30.5	30.5	88.3	88.2	6.5	6.4	1.6	2.9	2	2	85	86	88	819593	805049	<0.2	0.8	0.8
						1.0	0.3	198	22.2	22.2	8.2	8.2	30.5	30.8	88.1	86.5	6.5	6.3	1.7	2.5	3	2	86	87				<0.2	0.8	
					Middle	3.7	0.4	205	22.1	22.1	8.2	8.2	30.8	30.8	86.5	86.5	6.3	6.3	2.5	2.5	3	2	87	88				<0.2	0.8	
						3.7	0.4	209	22.1	22.1	8.2	8.2	30.8	30.8	86.4	86.4	6.3	6.3	2.5	2.5	2	2	87	91				<0.2	0.8	
					Bottom	6.3	0.3	176	22.2	22.2	8.2	8.2	31.4	31.4	86.3	86.4	6.3	6.3	4.6	4.6	2	2	91	92				<0.2	0.8	
						6.3	0.4	183	22.2	22.2	8.2	8.2	31.4	31.4	86.4	86.4	6.3	6.3	4.6	4.6	2	2	92	92				<0.2	0.9	
IM5	Cloudy	Moderate	07:08	7.7	Surface	1.0	0.4	183	22.1	22.1	8.2	8.2	29.4	29.2	87.9	87.9	6.5	6.5	1.4	2.6	2	2	86	88	87	820575	804907	<0.2	0.9	0.9
						1.0	0.4	177	22.1	22.1	8.2	8.2	29.0	29.2	87.8	87.8	6.5	6.4	1.4	2.9	2	2	88	89				<0.2	0.9	
					Middle	3.9	0.4	182	22.2	22.2	8.2	8.2	30.1	30.1	86.8	86.8	6.4	6.4	2.9	2.9	3	2	89	88				<0.2	0.9	
						3.9	0.3	178	22.2	22.2	8.2	8.2	30.1	30.1	86.8	86.8	6.4	6.4	2.9	2.9	2	2	88	85				<0.2	0.8	
					Bottom	6.7	0.3	219	22.3	22.3	8.2	8.2	31.3	31.4	87.0	87.1	6.3	6.3	3.5	3.5	3	2	85	86				<0.2	0.8	
						6.7	0.3	223	22.3	22.3	8.2	8.2	31.4	31.4	87.1	87.1	6.3	6.3	3.5	3.5	2	2	86	86				<0.2	0.8	
IM6	Cloudy	Moderate	07:15	7.0	Surface	1.0	0.3	193	22.2	22.2	8.2	8.2	29.5	28.9	89.4	89.4	6.5	6.6	0.8	0.9	3	3	85	86	88	821036	805813	<0.2	0.9	0.9
						1.0	0.4	187	22.2	22.2	8.2	8.2	28.2	29.3	89.4	89.3	6.5	6.6	0.9	0.9	4	3	86	87				<0.2	0.8	
					Middle	3.5	0.3	198	22.2	22.2	8.2	8.2	29.3	29.6	89.3	89.3	6.6	6.6	0.9	0.9	3	2	87	88				<0.2	0.9	
						3.5	0.3	196	22.2	22.2	8.2	8.2	29.3	29.9	89.3	89.3	6.6	6.6	0.9	0.9	3	2	88	91				<0.2	0.9	
					Bottom	6.0	0.3	227	22.1	22.1	8.2	8.2	29.1	29.1	89.6	89.7	6.6	6.6	1.0	1.0	2	2	91	92				<0.2	0.9	
						6.0	0.3	224	22.1	22.1	8.2	8.2	29.1	29.1	89.7	89.7	6.6	6.6	1.0	1.0	2	2	92	92				<0.2	0.9	
IM7	Cloudy	Moderate	07:21	7.4	Surface	1.0	0.3	196	22.5	22.5	8.2	8.2	29.4	29.5	89.7	89.7	6.6	6.6	0.6	0.7	2	3	86	88	87	821332	806812	<0.2	0.8	0.9
						1.0	0.3	191	22.5	22.4	8.2	8.2	29.5	29.0	89.6	89.4	6.6	6.6	0.7	0.6	3	3	88	89				<0.2	0.9	
					Middle	3.7	0.3	209	22.4	22.4	8.2	8.2	29.0	29.2	89.4	89.4	6.6	6.5	0.6	0.6	3	3	89	88				<0.2	0.9	
						3.7	0.4	203	22.4	22.4	8.2	8.2	29.3	29.3	89.4	89.4	6.5	6.5	0.6	0.7	2	3	88	85				<0.2	0.8	
					Bottom	6.4	0.3	210	22.4	22.4	8.2	8.2	29.3	29.3	89.2	89.2	6.5	6.5	0.7	0.7	3	2	85	86				<0.2	0.9	
						6.4	0.3	204	22.4	22.4	8.2	8.2	29.3	29.3	89.2	89.2	6.5	6.5	0.7	0.7	2	2	86	86				<0.2	0.9	
IM8	Misty	Moderate	06:32	8.0	Surface	1.0	0.3	177	22.4	22.4	8.1	8.1	29.6	29.6	86.8	86.8	6.4	6.4	4.7	5.4	3	2	44	78</						

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

Water Quality Monitoring

Water Quality Monitoring Results on 05 December 23 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
IM9	Misty	Moderate	06:18	8.0	Surface	1.0	0.4	157	22.5	22.5	8.1	8.1	29.3	29.4	87.1	87.1	6.4	6.4	4.6	2	43	68	822100	808822	<0.2	0.8	0.8	0.8								
						1.0	0.4	162	22.5		8.1		29.4		87.1		6.4	6.4	4.5	2	43				<0.2	0.8										
					Middle	4.0	0.3	136	22.4	22.4	8.1	8.1	29.6	29.6	87.0	87.0	6.4	6.4	5.1	3	79	79				<0.2	0.8	0.8	0.8							
						4.0	0.3	138	22.4		8.1		29.6		87.0		6.4	6.4	5.1	2	79				<0.2	0.8										
					Bottom	7.0	0.3	153	22.4	22.4	8.1	8.1	29.6	29.6	87.1	87.2	6.4	6.4	6.3	3	83	83				<0.2	0.8	0.8	0.8							
						7.0	0.3	148	22.4	22.4	8.1	8.1	29.6	29.6	87.2	87.2	6.4	6.4	6.3	3	83	83				<0.2	0.7									
IM10	Misty	Moderate	06:03	7.2	Surface	1.0	0.3	121	22.4	22.4	8.1	8.1	29.2	29.2	85.4	85.4	6.3	6.3	4.6	2	48	74	822257	809821	<0.2	0.8	0.8	0.8								
						1.0	0.3	119	22.4		8.1		29.2		85.4		6.3	6.3	4.6	2	48				<0.2	0.7										
					Middle	3.6	0.4	117	22.4	22.4	8.1	8.1	29.4	29.4	86.0	86.1	6.3	6.3	5.1	2	86	86				<0.2	0.8	0.8	0.8							
						3.6	0.4	123	22.4		8.1		29.4		86.1		6.3	6.3	5.0	3	86				<0.2	0.8										
					Bottom	6.2	0.4	127	22.4	22.4	8.0	8.0	29.4	29.4	86.6	86.7	6.4	6.4	5.2	3	87	87				<0.2	0.8	0.8	0.8							
						6.2	0.3	134	22.4	22.4	8.0	8.0	29.3	29.4	86.8	86.7	6.4	6.4	5.2	4	87	87				<0.2	0.8									
IM11	Misty	Moderate	05:51	8.0	Surface	1.0	0.4	82	22.5	22.5	8.1	8.1	29.2	29.3	86.9	86.9	6.4	6.4	3.3	2	52	76	821497	810540	<0.2	0.7	0.8	0.8								
						1.0	0.4	76	22.5		8.1		29.3		86.9		6.4	6.4	3.3	3	52				<0.2	0.8										
					Middle	4.0	0.3	90	22.4	22.4	8.1	8.1	29.6	29.6	87.0	87.1	6.4	6.4	5.0	3	87	87				<0.2	0.7	0.8	0.8							
						4.0	0.4	93	22.4		8.1		29.6		87.1		6.4	6.4	5.0	2	87				<0.2	0.7										
					Bottom	7.0	0.4	81	22.4	22.4	8.1	8.1	29.7	29.7	87.6	87.7	6.4	6.5	5.5	3	90	90				<0.2	0.8	0.8	0.8							
						7.0	0.4	81	22.4	22.4	8.1	8.1	29.7	29.7	87.7	87.7	6.5	6.5	5.4	4	90	90				<0.2	0.8									
IM12	Misty	Moderate	05:44	8.2	Surface	1.0	0.5	116	22.6	22.6	8.1	8.1	29.9	29.9	87.1	87.1	6.4	6.4	4.9	2	45	73	821164	811525	<0.2	0.7	0.8	0.8								
						1.0	0.4	112	22.6		8.1		29.9		87.1		6.4	6.4	4.8	2	45				<0.2	0.8										
					Middle	4.1	0.4	122	22.6	22.6	8.1	8.1	29.9	29.9	87.0	87.1	6.4	6.4	5.1	2	86	86				<0.2	0.8	0.8	0.8							
						4.1	0.5	121	22.6		8.1		29.9		87.1		6.4	6.4	5.1	2	86				<0.2	0.8										
					Bottom	7.2	0.5	89	22.5	22.5	8.1	8.1	29.9	29.9	87.7	87.8	6.4	6.4	6.0	2	87	87				<0.2	0.8	0.8	0.8							
						7.2	0.5	83	22.5	22.5	8.1	8.1	29.9	29.9	87.8	87.8	6.4	6.4	6.0	3	87	87				<0.2	0.9									
SR1A	Misty	Moderate	05:34	5.0	Surface	1.0	-	-	22.4	22.4	8.1	8.1	29.9	29.9	90.8	90.9	6.7	6.7	4.2	2	-	-	819983	812656	-	-	-	-								
						1.0	-	-	22.4		8.1		29.9		90.9		6.7	6.7	4.2	2	-	-			-	-	-	-								
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-			-	-	-	-					
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-					
					Bottom	4.0	-	-	22.4	22.4	8.0	8.0	29.9	29.9	91.2	91.3	6.7	6.7	4.3	3	-	-				-	-	-	-	-	-					
						4.0	-	-	22.4	22.4	8.0	8.0	29.9	29.9	91.3	91.3	6.7	6.7	4.3	2	-	-				-	-	-	-	-	-					
SR2	Misty	Moderate	05:25	5.4	Surface	1.0	0.3	50	22.6	22.6	8.0	8.1	29.9	29.9	91.5	90.9	6.7	6.7	4.6	2	43	65	821484	814184	<0.2	0.7	0.8	0.8								
						1.0	0.4	54	22.6		8.1		29.9		90.3		6.6	6.6	4.6	2	43				<0.2	0.8										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-			-	<0.2	-	-					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-					
					Bottom	4.4	0.4	23	22.6	22.6	8.0	8.0	30.0	30.0	90.9	91.0	6.7	6.7	5.0	2	87	87				<0.2	0.8	0.8	0.8							
						4.4	0.3	18	22.6	22.6	8.0	8.0	30.0	30.0	91.0	91.0	6.7	6.7	5.0	2	87	87				<0.2	0.8									
SR3	Misty	Moderate	06:46	9.2	Surface	1.0	0.4	154	22.4	22.4	8.1	8.1	29.4	29.4	90.3	90.5	6.7	6.7	3.0	3	-	-	822147	807593	-	-	-	-								
						1.0	0.5	153	22.4		8.1		29.4		90.6		6.7	6.7	3.1	2	-	-				-	-	-	-							
					Middle	4.6	0.4	161	22.3	22.3	8.1	8.1	29.4	29.5	91.1	91.2	6.7	6.7	4.6	3	-	-	3	-	-			-	-	-	-					
						4.6	0.4	164	22.3		8.1		29.5		91.3		6.7	6.7	4.6	2	-	-	-	-	-			-	-	-	-					
					Bottom	8.2	0.4	147	22.3	22.3	8.1	8.1	29.5	29.5	91.9	92.0	6.8	6.8	5.3	3	-	-				-	-	-	-	-	-					
						8.2	0.4	141	22.3	22.3	8.1	8.1	29.5	29.5	92.1	92.1	6.8	6.8	5.3	3	-	-				-	-	-	-	-	-					
SR4A	Cloudy	Moderate	06:03	8.5	Surface	1.0	0.0	70	22.3	22.3	8.2	8.2	30.9	30.9	86.6	86.7	6.3	6.3	4.4	2	-	-	817181	807828	-	-	-	-								
						1.0	0.0	76	22.3		8.2		30.9		86.7		6.3	6.3	4.5	3	-	-				-	-	-	-	-						
					Middle	4.3	0.0	73	22.3	22.3	8.2	8.2	31.0	31.0	86.8	86.8	6.3	6.3	5.0	2	-	-	3	-	-			-	-	-	-					
						4.3	0.0	72	22.3		8.2		31.0		86.8		6.3	6.3	5.0	3	-	-	-	-	-			-	-	-	-					
					Bottom	7.5	0.0	64	22.3	22.3	8.2	8.2	31.0	31.0	86.9	86.9	6.3	6.3	6.8	3	-	-				-	-	-	-	-	-					
						7.5	0.0	58	22.3	22.3	8.2	8.2	30.9	31.0	86.9	86.9	6.3	6.3	6.8	3	-	-				-	-	-	-	-	-					
SR5A	Cloudy	Moderate	05:49	3.7	Surface	1.0	0.1	103	22.3	22.3	8.2	8.2	30.8	30.8	87.0	87.0	6.3	6.3	3.9	<2	-	-	816593	810710	-	-	-	-								
						1.0	0.1	98	22.3		8.2		30.8		87.0		6.3	6.3	3.9	<2	-	-	-	-			-	-	-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-			-	-	-	-					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-					
					Bottom	2.7	0.1	133	22.3	22.3	8.2	8.2	30.8	30.9	87.4	87.5	6.4	6.4	6.3	3	-	-				-	-	-	-	-	-					
						2.7	0.2	130	22.3	22.3	8.2	8.2	30.9	30.9	87.5	87.5	6.4	6.4	6.9	3	-	-				-	-	-	-	-	-					
SR6	Cloudy	Moderate	05:27	4.6	Surface	1.0	0.1	59	22.1	22.1	8.1	8.1	30.2	30.2	87.0	87.0	6.4	6.4	0.5	<2	-	-	817916	814684	-	-	-	-								
						1.0	0.1	52	22.1		8.1		30.2		87.0		6.4	6.4	0.5	<2	-	-	-	-			-	-	-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-			-	-	-	-					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-					
					Bottom	3.6	0.1	61	22.1	22.1	8.1	8.1	30.4	30.4	86.8	86.8	6.4	6.4	1.3	2	-	-				-	-	-	-	-	-					
						3.6	0.1	68	22.1	22.1	8.1	8.1	30.4	30.4	86.8	86.8	6.4	6.4	1.3	2	-	-				-	-	-	-	-	-					
SR7	Misty	Moderate	04:40	14.2	Surface	1.0	0.4	65	22.7	22.7	8.1	8.1	28.7	28.7	86.1	86.1	6.3	6.3	4.1	3	-	-	823643	823731	-	-	-	-								
						1.0	0.4	63	22.7		8.1		28.7		86.1		6.3	6.3	4.1	2	-	-				-	-	-	-	-						
					Middle	7.1	0.3	82	22.7	22.7	8.1	8.1	28.8	28.8	86.3	86.4	6.4	6.4	5.1	3	-	-	3	-	-			-	-	-	-					
						7.1	0.3	81	22.7		8.1		28.8		86.4		6.4	6.4	5.1	2	-	-	-	-	-			-	-	-	-					
					Bottom	13.2	0.4	90	22.8	22.8	8.0	8.0	28.9	28.9	88.6	88.9	6.5	6.5	5.6	2	-	-				-	-</									

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

Water Quality Monitoring

Water Quality Monitoring Results on 05 December 23 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 (µg/L)		Coordinate HK Gnd (Northing)	Coordinate HK Gnd (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	17:48	8.3	Surface	1.0	0.1	0.1	51	22.1	22.1	8.2	8.2	30.1	30.2	90.3	90.3	6.6	6.6	1.6	1.7	2	2	87	88	815609	804257	<0.2	0.8	0.8						
						1.0	0.1	57	22.1	8.2	8.2	30.3	30.2	90.2	90.3	6.6	6.6	1.7	2	88	<0.2	0.8														
						4.2	-	61	22.0	22.0	8.2	8.2	28.5	29.2	89.7	89.7	6.6	3.3	<2	2	89	<0.2	0.7													
					4.2	0.0	65	22.0	8.2	8.2	29.8	29.8	89.7	89.7	6.6	3.5	<2	2	89	<0.2	0.7															
					7.3	0.0	55	22.0	22.0	8.2	8.2	31.7	31.0	89.8	89.8	6.5	3.5	<2	2	86	<0.2	0.7														
					7.3	0.0	50	22.0	8.2	8.2	30.3	31.0	89.8	89.8	6.6	3.7	<2	2	86	<0.2	0.8															
C2	Misty	Moderate	16:37	11.2	Surface	1.0	0.0	0.0	331	22.5	22.5	8.0	8.0	27.9	28.0	88.3	88.5	6.5	6.6	4.3	4.3	2	2	47	47	825676	806962	<0.2	0.8	0.8						
						1.0	0.0	335	22.5	8.0	8.0	28.0	28.0	88.6	88.5	6.6	6.6	4.3	2	47	<0.2	0.7														
						5.6	0.0	341	22.5	22.5	8.0	8.0	28.0	28.0	89.5	89.7	6.6	5.5	2	82	<0.2	0.8														
					5.6	0.1	338	22.5	8.0	8.0	28.0	28.0	89.8	89.7	6.7	5.4	2	83	<0.2	0.9																
					10.2	0.0	356	22.5	22.5	8.0	8.0	28.0	28.0	90.8	90.8	6.7	6.6	2	91	<0.2	0.7															
					10.2	0.0	348	22.5	8.0	8.0	28.0	28.0	91.3	91.1	6.8	6.6	2	91	<0.2	0.7																
C3	Misty	Moderate	18:34	10.2	Surface	1.0	0.1	0.1	103	23.0	23.0	8.0	8.0	28.1	28.1	86.2	86.3	6.3	6.4	5.0	5.0	2	3	52	52	822095	817816	<0.2	0.8	0.8						
						1.0	0.1	105	23.0	8.0	8.0	28.1	28.1	86.4	86.3	6.3	6.4	5.0	3	52	<0.2	0.8														
						5.1	0.1	117	23.0	23.0	8.0	8.0	28.1	28.1	87.2	87.4	6.4	6.1	2	85	<0.2	0.7														
					5.1	0.1	122	23.0	8.0	8.0	28.1	28.1	87.6	87.6	6.4	6.1	3	85	<0.2	0.8																
					9.2	0.1	94	23.0	23.0	8.0	8.0	28.1	28.1	89.4	91.4	6.6	6.5	3	87	<0.2	0.7															
					9.2	0.1	93	23.0	8.0	8.0	28.1	28.1	93.4	91.4	6.9	6.5	4	87	<0.2	0.7																
IM1	Cloudy	Moderate	17:27	6.4	Surface	1.0	0.1	0.1	35	22.2	22.2	8.2	8.2	30.2	30.2	89.2	89.2	6.5	6.4	1.7	1.8	2	3	85	87	818345	806448	<0.2	0.7	0.8						
						1.0	0.1	33	22.2	8.2	8.2	30.2	30.2	89.1	89.2	6.5	6.4	1.8	3	87	<0.2	0.8														
						3.2	0.1	15	22.2	22.2	8.2	8.2	31.0	31.0	86.7	86.7	6.3	6.7	2	88	<0.2	0.7														
					3.2	0.0	11	22.2	8.2	8.2	30.9	31.0	86.7	86.7	6.3	7.1	2	89	<0.2	0.9																
					5.4	0.0	40	22.2	22.2	8.2	8.2	31.0	31.0	87.5	87.6	6.4	9.6	<2	92	<0.2	0.7															
					5.4	0.0	44	22.2	8.2	8.2	31.0	31.0	87.7	87.6	6.4	10.0	<2	92	<0.2	0.8																
IM2	Cloudy	Moderate	17:23	6.6	Surface	1.0	0.1	0.1	36	22.2	22.2	8.2	8.2	29.8	29.9	88.6	88.6	6.5	6.4	1.9	2.0	2	2	86	88	818851	806208	<0.2	0.7	0.8						
						1.0	0.1	30	22.2	8.2	8.2	30.0	29.9	88.5	88.5	6.5	6.4	2.0	2	88	<0.2	0.8														
						3.3	0.1	46	22.2	22.2	8.2	8.2	30.7	30.7	86.9	86.9	6.3	3.1	<2	89	<0.2	0.8														
					3.3	0.1	39	22.2	8.2	8.2	30.7	30.7	86.8	86.9	6.3	3.2	<2	88	<0.2	0.8																
					5.6	0.1	44	22.1	22.1	8.2	8.2	30.8	30.8	86.9	87.0	6.3	4.0	<2	86	<0.2	0.8															
					5.6	0.1	41	22.1	8.2	8.2	30.8	30.8	87.0	87.0	6.3	4.0	<2	86	<0.2	0.7																
IM3	Cloudy	Moderate	17:20	7.2	Surface	1.0	0.1	0.1	42	22.2	22.2	8.2	8.2	29.6	29.5	87.2	87.1	6.4	6.3	2.0	2.1	3	2	85	87	819414	806021	<0.2	0.8	0.8						
						1.0	0.2	36	22.2	8.2	8.2	29.4	29.5	87.0	87.0	6.3	6.3	2.0	2	87	<0.2	0.8														
						3.6	0.1	61	22.1	22.1	8.2	8.2	30.8	30.8	85.4	85.4	6.2	8.2	2	88	<0.2	0.8														
					3.6	0.0	65	22.1	8.2	8.2	30.8	30.8	85.4	85.4	6.2	8.7	3	89	<0.2	0.8																
					6.2	0.1	54	22.1	22.1	8.2	8.2	32.1	32.2	85.8	85.9	6.3	6.5	<2	92	<0.2	0.8															
					6.2	0.1	53	22.1	8.2	8.2	32.3	32.2	85.9	85.9	6.2	6.6	<2	92	<0.2	0.8																
IM4	Cloudy	Moderate	17:13	6.6	Surface	1.0	0.1	0.1	60	22.2	22.2	8.2	8.2	30.3	30.4	87.9	87.8	6.4	6.4	1.8	1.9	2	2	87	88	819551	805042	<0.2	0.7	0.7						
						1.0	0.1	61	22.2	8.2	8.2	30.4	30.4	87.7	87.8	6.4	6.4	1.9	2	88	<0.2	0.8														
						3.3	0.1	55	22.2	22.2	8.2	8.2	30.5	30.5	86.1	86.1	6.3	4.9	2	86	<0.2	0.6														
					3.3	0.1	61	22.2	8.2	8.2	30.5	30.5	86.1	86.1	6.3	4.9	2	86	<0.2	0.7																
					5.6	0.1	38	22.2	22.2	8.2	8.2	31.1	31.2	86.4	86.5	6.3	7.5	<2	91	<0.2	0.8															
					5.6	0.1	37	22.2	8.2	8.2	31.2	31.2	86.5	86.5	6.3	7.6	<2	91	<0.2	0.8																
IM5	Cloudy	Moderate	17:03	7.3	Surface	1.0	0.0	0.0	24	22.2	22.2	8.2	8.2	29.9	30.2	89.6	89.6	6.6	6.6	1.1	1.1	<2	2	86	87	820581	804925	<0.2	0.7	0.7						
						1.0	0.0	19	22.2	8.2	8.2	30.4	30.2	89.6	89.6	6.6	6.6	1.1	<2	87	<0.2	0.7														
						3.7	0.1	41	22.3	22.3	8.2	8.2	30.7	30.7	89.0	89.0	6.5	2.2	2	89	<0.2	0.7														
					3.7	0.1	42	22.3	22.3	8.2	8.2	30.6	30.7	88.9	89.0	6.4	2.3	2	88	<0.2	0.7															
					6.3	0.1	47	22.3	22.3	8.2	8.2	31.3	31.3	89.0	89.1	6.5	3.9	3	89	<0.2	0.6															
					6.3	0.1	47	22.3	8.2	8.2	31.3	31.3	89.1	89.1	6.5	3.8	2	92	<0.2	0.6																
IM6	Cloudy	Moderate	16:58	6.7	Surface	1.0	0.1	0.1	56	22.2	22.2	8.2	8.2	29.2	29.2	89.3	89.3	6.6	6.6	0.8	0.8	<2	2	86	87	821048	805809	<0.2	0.8	0.8						
						1.0	0.1	62	22.2	8.2	8.2	29.2	29.2	89.3	89.3	6.6	6.6	0.8	<2	87	<0.2	0.9														
						3.4	0.1	54	22.2	22.2	8.2	8.2	29.1	29.1	89.0	89.0	6.6	0.9	2	85	<0.2	0.8														
					3.4	0.1	57	22.2	8.2	8.2	29.1	29.1	89.0	89.0	6.6	0.8	2	85	<0.2	0.8																
					5.7	0.1	43	22.2	22.2	8.2	8.2	29.2	29.2	89.1	89.2	6.6	0.8	2	90	<0.2	0.7															
					5.7	0.1	50	22.2	8.2	8.2	29.2	29.2	89.2	89.2	6.6	0.8	3	90	<0.2	0.8																
IM7	Cloudy	Moderate	16:37	7.4	Surface	1.0	0.1	0.1	18	22.4	22.4	8.2	8.2	29.4	29.4	89.4	89.4	6.6	6.5	0.7	0.7	2	2	86	86	821372	806838	<0.2	0.7	0.8						
						1.0	0.1	18	22.4	22.4	8.2	8.2	29.4	29.4	89.4	89.4	6.5	0.7	2	86	<0.2	0.7														
						3.7	0.1	32	22.4	22.4	8.2	8.2	29.9	29.8	89.0	89.0	6.5	0.7	2	88	<0.2	0.7														
					3.7	0.2	38	22.4	8.2	8.2	29.7	29.8	89.0	89.0	6.5	0.7	3	87	<0.2	0.8																
					6.4	0.1	12	22.4	22.4	8.2	8.2	29.4	29.5	88.9	88.9	6.5	0.6	2	88	<0.2	0.8															
					6.4	0.1	12	22.4	8.2	8.2	29.6	29.5	88.9	88.9	6.5	0.6	3	91	<0.2	0.8																
IM8	Misty	Moderate	16:56	7.4	Surface	1.0	0.1	0.1	33	22.5	22.5	8.1	8.1	28.0	28.0	86.7	86.9	6.4	6.5	3.3	3.3	<2	<2	45	45	821674	807818	<0.2	0.8	0.8						
						1.0	0.1	28	22.5	8.1	8.1	28.0	28.0	87.1	86.9	6.5	3.3	<2	45	<0.2	0.7															
						3.7	0.1	51	22.4	22.4	8.1	8.1	28.2	28.2	88.6	88.8	6.6	4.3	<2	81	<0.2	0.7														
					3.7	0.1	45	22.4	8.1	8.1	28.2	28.2	88.9	88.8	6.6	4.3	<2	81	<0.2	0.8																
					6.4	0.1	14	22.4	22.4	8.1	8.1	28.4	28.5	90.1	90.3	6.7	5.7	<2	84	<0.2	0.7															
					6.4	0.2	8	22.4	8.1	8.1	28.5	28.5	90.5	90.5	6.7	5.7	<2	84	<0.2	0.8																

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

Water Quality Monitoring

Water Quality Monitoring Results on 05 December 23 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	Value	DA
IM9	Misty	Moderate	17:02	7.2	Surface	1.0	0.1	32	22.4	22.4	8.1	8.1	29.3	29.4	84.0	84.1	6.2		5.0		<2		56		822077	808822	<0.2		0.8							
						1.0	0.1	29	22.4		8.1		29.4		84.1		6.2	6.4	5.0		<2		56				<0.2		0.8							
					Middle	3.6	0.0	29	22.4	22.4	8.1	8.1	29.5	29.6	88.2	88.4	6.5		6.2	5.9	<2	<2	82	76			<0.2		0.7							
						3.6	0.0	22	22.4		8.1		29.6		88.5		6.5		6.2		<2		82				<0.2	<0.2	0.7	0.7						
					Bottom	6.2	0.1	33	22.4	22.4	8.1	8.1	29.6	29.6	90.1	90.5	6.6		6.6		<2		90				<0.2		0.7							
						6.2	0.1	26	22.4		8.1		29.6		90.9		6.7	6.7	6.6		<2		90				<0.2		0.7							
IM10	Misty	Moderate	17:11	7.8	Surface	1.0	0.1	65	22.5	22.5	8.1	8.1	29.6	29.6	84.4	84.5	6.2		3.2		3		51		822216	809821	<0.2		0.7							
						1.0	0.1	59	22.5		8.1		29.6	29.6	84.6		6.2	6.3	3.2		2		52				<0.2		0.7							
					Middle	3.9	0.1	56	22.5	22.5	8.1	8.1	29.6	29.6	87.2	87.6	6.4		4.9	4.6	2	2	89	77			<0.2		0.8							
						3.9	0.1	59	22.5		8.1		29.6		87.9		6.5		4.9		2		89				<0.2	<0.2	0.7	0.7						
					Bottom	6.8	0.0	51	22.5	22.5	8.1	8.1	29.5	29.6	90.0	90.4	6.6		5.6		<2		90				<0.2		0.7							
						6.8	0.0	44	22.5		8.1		29.6		90.8		6.7	6.7	5.6		<2		90				<0.2		0.8							
IM11	Misty	Moderate	17:26	8.4	Surface	1.0	0.0	77	22.5	22.5	8.1	8.1	29.6	29.6	87.9	88.0	6.5		4.6		2		62		821494	810525	<0.2		0.8							
						1.0	0.0	77	22.5		8.1		29.6	29.6	88.1		6.5	6.5	4.6		2		62				<0.2		0.8							
					Middle	4.2	0.0	58	22.4	22.4	8.1	8.1	29.6	29.6	88.7	88.8	6.5		5.3	5.6	3	3	78	75			<0.2		0.8							
						4.2	0.0	55	22.4		8.1		29.6		88.9		6.5		5.3		3		78				<0.2	<0.2	0.8	0.8						
					Bottom	7.4	0.0	51	22.4	22.4	8.1	8.1	29.6	29.6	94.7	95.0	7.0		6.8		3		84				<0.2		0.7							
						7.4	0.0	53	22.4		8.1		29.6		95.3		7.0	7.0	6.8		2		85				<0.2		0.8							
IM12	Misty	Moderate	17:32	8.2	Surface	1.0	0.0	64	22.5	22.5	8.1	8.1	29.6	29.6	87.9	88.0	6.5		4.5		2		48		821163	811527	<0.2		0.7							
						1.0	0.0	58	22.5		8.1		29.6	29.6	88.1		6.5	6.5	4.5		2		48				<0.2		0.7							
					Middle	4.1	0.1	69	22.4	22.4	8.1	8.1	29.6	29.6	88.8	88.8	6.5		4.6	4.9	<2	2	79	71			<0.2		0.8							
						4.1	0.1	67	22.4		8.1		29.6		88.8		6.5		4.6		<2		79				<0.2	<0.2	0.7	0.8						
					Bottom	7.2	0.1	56	22.4	22.4	8.1	8.1	29.6	29.6	94.8	95.0	7.0		5.6		<2		87				<0.2		0.8							
						7.2	0.1	60	22.4		8.1		29.6		95.1		7.0	7.0	5.6		<2		87				<0.2		0.8							
SR1A	Misty	Moderate	18:02	4.4	Surface	1.0	-	-	22.3	22.3	8.0	8.1	29.6	29.6	83.7	85.7	6.2		4.6		<2		-		819970	812659	-		-							
						1.0	-	-	22.3		8.1		29.6	29.6	87.6		6.5	6.4	4.6		<2		-				-		-							
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2				-		-		-				
						2.2	-	-	-		-		-		-		-		-		-		-				-		-		-					
					Bottom	3.4	-	-	22.3	22.3	8.1	8.1	29.5	29.6	89.1	89.5	6.6		6.1		<2		-				-		-		-		-			
						3.4	-	-	22.3		8.1		29.6		89.8		6.6	6.6	6.1		<2		-				-		-		-					
SR2	Misty	Moderate	18:14	4.2	Surface	1.0	0.1	78	22.5	22.5	8.1	8.1	29.6	29.6	88.3	88.5	6.5		5.6		2		72		821479	814154	<0.2		0.8							
						1.0	0.1	80	22.5		8.1		29.6	29.6	88.6		6.5	6.5	5.6		2		72				<0.2		0.8							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	<0.2		-					
						-	-	-	-		-		-		-		-		-		-		-				-		-		-					
					Bottom	3.2	0.1	85	22.5	22.5	8.1	8.1	29.6	29.6	91.4	91.9	6.7		6.6		2		102				<0.2		0.6							
						3.2	0.0	89	22.5		8.1		29.6		92.4		6.8	6.8	6.6		3		102				<0.2		0.7							
SR3	Misty	Moderate	16:40	9.4	Surface	1.0	0.1	349	22.6	22.6	8.0	8.0	27.9	27.9	87.7	87.8	6.5		4.5		2		-		822166	807568	-		-							
						1.0	0.1	347	22.6		8.0		27.9	27.9	87.8		6.5	6.6	4.6		2		-				-		-							
					Middle	4.7	0.1	17	22.6	22.6	8.0	8.0	27.9	27.9	88.9	89.2	6.6		5.6	5.6	2	2	-	-			-		-		-					
						4.7	0.1	18	22.6		8.0		27.9		89.5		6.6		5.6		2		-				-		-		-					
					Bottom	8.4	0.2	11	22.5	22.5	8.0	8.0	27.9	27.9	91.8	92.0	6.8		6.6		3		-				-		-		-					
						8.4	0.2	15	22.5		8.0		27.9		92.1		6.8	6.8	6.6		2		-				-		-		-					
SR4A	Cloudy	Moderate	18:04	8.4	Surface	1.0	0.0	320	22.5	22.5	8.2	8.2	30.7	30.7	87.3	87.3	6.3		3.0		<2		-		817169	807792	-		-							
						1.0	0.0	316	22.5		8.2		30.7	30.7	87.3		6.3	6.3	2.9		<2		-				-		-							
					Middle	4.2	0.0	323	22.5	22.5	8.2	8.2	30.7	30.7	87.4	87.4	6.3		3.0	3.0	<2	<2	-	-			-		-		-					
						4.2	0.0	320	22.5		8.2		30.7		87.4		6.3		3.0		<2		-				-		-		-					
					Bottom	7.4	0.0	339	22.5	22.5	8.2	8.2	30.7	30.7	87.6	87.6	6.4		3.0		<2		-				-		-		-					
						7.4	0.0	331	22.5		8.2		30.7		87.6		6.4	6.4	3.0		<2		-				-		-		-					
SR5A	Cloudy	Moderate	18:19	3.4	Surface	1.0	0.1	97	22.5	22.5	8.2	8.2	30.6	30.6	89.3	89.3	6.5		4.6		2		-		816594	810710	-		-							
						1.0	0.0	93	22.5		8.2		30.6	30.6	89.3		6.5		4.6		3		-				-		-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-		-				
						-	-	-	-		-		-		-		-		-		-		-				-		-		-					
					Bottom	2.4	0.1	87	22.5	22.5	8.2	8.2	30.7	30.7	89.6	89.6	6.5		4.7		<2		-				-		-		-					
						2.4	0.0	87	22.5		8.2		30.7		89.6		6.5	6.5	4.7		<2		-				-		-		-					
SR6	Cloudy	Moderate	18:44	4.1	Surface	1.0	0.0	40	22.5	22.5	8.2	8.2	30.3	30.3	92.8	92.8	6.8		3.4		<2		-		817886	814643	-		-							
						1.0	0.0	45	22.5		8.2		30.3		92.8		6.8	6.8	3.8		<2		-				-		-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-		-				
						-	-	-	-		-		-		-		-		-		-		-				-		-		-					
					Bottom	3.1	0.0	60	22.4	22.4	8.2	8.2	30.2	30.2	92.6	92.6	6.7		5.7		<2		-				-		-		-					
						3.1	0.1	64	22.4		8.2		30.2		92.5		6.7	6.7	5.4		<2		-				-		-		-					
SR7	Misty	Moderate	19:04	15.2	Surface	1.0	0.0	103	22.9	22.9	8.1	8.1	28.0	28.0	87.2	87.4	6.4		4.0		<2		-		823644	823765	-		-							
						1.0	0.0	96	22.9		8.1		28.0	28.0	87.5		6.4	6.5	4.0		<2		-				-		-							
					Middle	7.6	0.1	96	22.9	22.9	8.1	8.1	28.0	28.0	88.1	88.3	6.5		4.4	4.4	<2	2	-	-			-		-		-					
						7.6	0.0	101	22.9		8.1		28.0		88.4		6.5		4.4		<2		-				-		-		-					
					Bottom	14.2	0.0	115	22.9	22.9	8.1	8.1	28.1	28.1	90.3	91.9	6.6		5.4		3		-				-		-		-					
						14.2	0.0	120	22.9		8.1		28.0		93.5		6.9	6.8	5.5		2		-				-		-		-					
SR8	Misty	Moderate	17:46	4.8	Surface	1.0	-	-	22.5	22.5	8.1	8.1	29.6	29.6	84.6	84.6	6.2		7.1		2		-		820374	811600	-		-							
						1.0	-	-	22.5		8.1		29.5	29.5	84.6																					

Water Quality Monitoring Results on

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

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 07 December 23 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	Misty	Moderate	09:08	8.0	Surface	1.0	0.3	149	22.4	22.4	8.1	8.1	29.3	29.3	86.2	86.2	6.4	6.4	2.2	2.1	4	3	43	68	822115	808800	<0.2	0.7	0.8				
						1.0	0.3	152	22.4		8.1		29.3		86.2		6.4		2.1		3		43				<0.2	0.8					
					Middle	4.0	0.3	148	22.4	22.6	8.1	8.1	29.5	29.6	86.1	86.1	6.4	6.4	2.7	2.7	4	3	79	79	79	74	822115	808800	<0.2	0.7	0.8		
						4.0	0.4	144	22.7		8.1		29.6		86.1		6.3	6.3	2.7	2.7	3		79				<0.2	0.7					
					Bottom	7.0	0.3	129	22.4	22.4	8.1	8.1	29.6	29.6	86.2	86.3	6.3	6.4	3.9	4.0	5	5	83	83	83	83	822115	808800	<0.2	0.8	0.8		
						7.0	0.3	129	22.4		8.1		29.6		86.3		6.4	6.4	4.0		5		83				<0.2	0.8					
IM10	Misty	Moderate	08:54	7.2	Surface	1.0	0.3	117	22.4	22.4	8.1	8.1	29.1	29.2	84.5	84.5	6.3	6.3	2.2	2.2	3	4	48	74	822263	809839	<0.2	0.8	0.7				
						1.0	0.3	116	22.4		8.1		29.2		84.5		6.2	6.3	2.2	2.2	4	4	48	86	74	822263	809839	<0.2	0.7	0.8			
					Middle	3.6	0.3	118	22.4	22.4	8.1	8.1	29.4	29.4	85.1	85.2	6.3	6.3	2.7	2.7	3	4	86	86	86	86	822263	809839	<0.2	0.8	0.8		
						3.6	0.3	113	22.4		8.1		29.4		85.2		6.3	6.3	2.7	2.7	4		86				<0.2	0.7					
					Bottom	6.2	0.3	135	22.4	22.4	8.0	8.0	29.3	29.3	85.7	85.8	6.3	6.4	2.8	2.9	4	4	87	87	87	87	822263	809839	<0.2	0.7	0.7		
						6.2	0.4	129	22.4		8.0		29.3		85.9		6.4	6.4	2.9		5		87				<0.2	0.7					
IM11	Misty	Moderate	08:41	8.0	Surface	1.0	0.3	99	22.5	22.5	8.1	8.1	29.1	29.2	86.0	86.0	6.4	6.4	2.2	2.2	3	4	52	76	821480	810557	<0.2	0.7	0.7				
						1.0	0.3	100	22.5		8.1		29.2		86.0		6.3	6.3	2.2	2.2	4	4	52	87	76	821480	810557	<0.2	0.7	0.7			
					Middle	4.0	0.4	111	22.4	22.4	8.1	8.1	29.5	29.6	86.1	86.2	6.3	6.4	2.6	2.6	4	4	87	87	87	87	821480	810557	<0.2	0.7	0.7		
						4.0	0.4	113	22.4		8.1		29.6		86.2		6.4	6.4	2.6	2.6	3		87				<0.2	0.7					
					Bottom	7.0	0.4	95	22.4	22.4	8.1	8.1	29.7	29.7	86.7	86.8	6.4	6.4	3.1	3.1	4	4	90	90	90	90	821480	810557	<0.2	0.8	0.7		
						7.0	0.4	89	22.4		8.1		29.7		86.8		6.4	6.4	3.1		4		90				<0.2	0.7					
IM12	Misty	Moderate	08:34	8.2	Surface	1.0	0.3	101	22.6	22.6	8.1	8.1	29.9	29.9	86.2	86.2	6.4	6.4	2.5	2.5	3	4	45	73	821152	811530	<0.2	0.8	0.8				
						1.0	0.3	93	22.6		8.1		29.9		86.2		6.4	6.4	2.5	2.5	4	4	45	86	73	821152	811530	<0.2	0.7	0.8			
					Middle	4.1	0.4	88	22.4	22.4	8.1	8.1	29.9	29.9	86.1	86.2	6.4	6.4	2.7	2.7	4	4	86	86	86	86	821152	811530	<0.2	0.7	0.8		
						4.1	0.4	81	22.4		8.1		29.9		86.2		6.4	6.4	2.7	2.7	3		86				<0.2	0.7					
					Bottom	7.2	0.4	118	22.4	22.4	8.1	8.1	29.9	29.9	86.8	86.9	6.4	6.4	3.6	3.6	4	4	87	87	87	87	821152	811530	<0.2	0.7	0.7		
						7.2	0.4	119	22.4		8.1		29.9		86.9		6.4	6.4	3.6		4		87				<0.2	0.7					
SR1A	Misty	Moderate	08:25	5.6	Surface	1.0	-	-	22.6	22.6	8.1	8.1	29.9	29.9	89.9	90.0	6.6	6.6	1.8	1.8	4	3	-	-	819971	812657	-	-	-				
						1.0	-	-	22.6		8.1		29.9		90.0		6.6	6.6	1.8	1.8	3	4	-	-	-	-	819971	812657	-	-	-		
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	819971	812657	-	-	-	
						2.8	-	-	-		-		-		-		-		-		-		-		-		-	-	-	-			
					Bottom	4.6	-	-	22.6	22.6	8.0	8.0	29.9	29.9	90.3	90.4	6.7	6.7	3.2	3.2	4	4	-	-	-	-	-	-	819971	812657	-	-	-
						4.6	-	-	22.6		8.0		29.9		90.4		6.7	6.7	3.2		4		-				-	-	-	-	-		
SR2	Misty	Moderate	08:15	5.0	Surface	1.0	0.3	38	22.5	22.5	8.0	8.1	29.9	29.9	90.6	90.0	6.7	6.7	2.2	2.2	2	3	43	65	821486	814149	<0.2	0.7	0.8				
						1.0	0.2	32	22.5		8.1		29.9		89.4		6.6	6.6	2.2	2.2	3	3	43	43	65	821486	814149	<0.2	0.8				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	821486	814149	-	<0.2	-	
						-	-	-	-		-		-		-		-		-		-		-		-		-	-	-	-			
					Bottom	4.0	0.3	42	22.5	22.5	8.0	8.0	29.9	29.9	90.0	90.1	6.6	6.6	3.2	3.2	3	4	87	87	87	87	821486	814149	<0.2	0.7	0.8		
						4.0	0.3	45	22.5		8.0		29.9		90.1		6.6	6.6	3.2		4		87				<0.2	0.8					
SR3	Misty	Moderate	09:36	9.2	Surface	1.0	0.4	179	22.4	22.6	8.1	8.1	29.3	29.3	89.4	89.6	6.6	6.6	2.1	2.1	3	2	-	-	822139	807574	-	-	-				
						1.0	0.4	186	22.7		8.1		29.3		89.7		6.6	6.6	2.1	2.1	2	3	-	-	-	-	822139	807574	-	-	-		
					Middle	4.6	0.4	162	22.7	22.7	8.1	8.1	29.4	29.4	90.2	90.3	6.6	6.6	2.2	2.2	2	3	-	-	-	-	822139	807574	-	-	-		
						4.6	0.4	159	22.7		8.1		29.4		90.4		6.7	6.7	2.2	2.2	3	3	-	-	-	-	-	-	-	-			
					Bottom	8.2	0.4	154	22.7	22.7	8.1	8.1	29.4	29.4	91.0	91.1	6.7	6.7	3.0	2.9	3	3	-	-	-	-	-	-	822139	807574	-	-	-
						8.2	0.4	148	22.7		8.1		29.4		91.2		6.7	6.7	2.9		3		-				-	-	-	-			
SR4A	Cloudy	Moderate	07:46	8.3	Surface	1.0	0.0	64	21.7	21.7	8.2	8.2	30.5	30.5	84.3	84.1	6.2	6.2	1.7	1.7	2	3	-	-	817182	807828	-	-	-				
						1.0	0.0	68	21.7		8.2		30.5		83.9		6.2	6.2	1.7	1.7	3	3	-	-	-	-	817182	807828	-	-	-		
					Middle	4.2	0.0	72	22.3	22.3	8.2	8.2	31.6	31.6	81.4	81.4	5.9	5.9	2.5	2.5	3	3	-	-	-	-	817182	807828	-	-	-		
						4.2	0.0	78	22.3		8.2		31.6		81.4		5.9	5.9	2.5	2.5	2	3	-	-	-	-	-	-	-	-			
					Bottom	7.3	0.0	50	22.3	22.3	8.2	8.2	31.9	31.9	81.9	82.0	5.9	5.9	3.1	3.1	4	4	-	-	-	-	-	-	817182	807828	-	-	-
						7.3	0.1	43	22.3		8.1		31.9		82.0		5.9	5.9	3.1		3		-				-	-	-	-			
SR5A	Cloudy	Moderate	07:30	3.3	Surface	1.0	0.2	119	21.5	21.5	8.1	8.1	30.2	30.2	87.3	87.3	6.5	6.5	1.7	1.7	3	3	-	-	816603	810680	-	-	-				
						1.0	0.2	120	21.5		8.1		30.2		87.3		6.5	6.5	1.7	1.7	3	3	-	-	-	-	816603	810680	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	816603	810680	-	-	-	
						-	-	-	-		-		-		-		-		-		-		-		-		-	-	-				
					Bottom	2.3	0.1	135	21.3	21.3	8.1	8.1	30.4	30.4	87.2	87.3	6.5	6.5	1.7	1.7	3	3	-	-	-	-	-	-	816603	810680	-	-	-
						2.3	0.2	141	21.3		8.1		30.4		87.3		6.5	6.5	1.7	1.7	3	3	-	-	-	-	-	-	-	-	-		
SR6	Cloudy	Moderate	07:07	4.0	Surface	1.0	0.0	58	21.4	21.4	8.1	8.1	30.2	30.2	84.0	84.1	6.2	6.2	2.2	2.3	2	3	-	-	817892	814646	-	-	-				
						1.0	0.0	53	21.4		8.0		30.2		84.1		6.2	6.2	2.3	2.3	3	3	-	-	-	-	817892	814646	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	817892	814646	-	-	-	
						-	-	-	-		-		-		-		-		-		-		-		-		-	-	-				
					Bottom	3.0	0.1	40	21.4	21.4	8.0	8.0	30.3	30.3	86.0	86.2	6.4	6.4	3.6	3.6	2	2	-	-	-	-	-	-	817892	814646	-	-	-
						3.0	0.1	32	21.4		8.0		30.3		86.4		6.4	6.4	3.6		2		-				-	-	-	-			
SR7	Misty	Moderate	07:30	11.0	Surface	1.0	0.5	76	22.4	22.6	8.1	8.1	28.7	28.7	85.2	85.2	6.3	6.3	2.7	2.6	3	4	-	-	823658	823732	-	-	-				
						1.0	0.4	80	22.7		8.1		28.7		85.2		6.3	6.3	2.7	2.6	4	3	-	-	-	-							

Water Quality Monitoring Results on

07 December 23 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	Cloudy	Moderate	14:54	8.3	Surface	1.0	0.3	34	22.1	22.1	8.2	8.2	31.6	30.8	88.7	88.7	6.5	6.5	1.6	2	87							<0.2	0.8					
						1.0	0.3	36	22.1	8.2	30.0			88.6		6.5	1.6	3	88									<0.2	0.8					
					Middle	4.2	0.3	23	22.3	22.3	8.2	8.2	32.1	32.1	88.3	88.4	6.4	6.4	3.0	3	89								<0.2	0.8				
						4.2	0.3	22	22.3	22.3	8.2				88.4		6.4	3.1	4	89										<0.2	0.8			
					Bottom	7.3	0.3	38	22.4	22.4	8.2	8.2	32.4	32.5	89.3	89.6	6.4	6.5	3.4	4	86										<0.2	0.7		
						7.3	0.3	36	22.4	22.4	8.2				89.8		6.5	3.4	5	86											<0.2	0.7		
C2	Misty	Moderate	13:43	11.0	Surface	1.0	0.1	344	22.5	22.5	8.0	8.0	28.9	28.9	87.4	87.6	6.3	6.3	2.8	3	47								<0.2	0.7				
						1.0	0.1	349	22.5	8.0				87.7		6.3	2.8	4	47										<0.2	0.7				
					Middle	5.5	0.2	331	22.5	22.5	8.0	8.0	28.9	28.9	88.6	88.8	6.3	6.3	4.0	3	82								<0.2	0.8				
						5.5	0.2	327	22.5	22.5	8.0				88.9		6.3	4.0	4	83										<0.2	0.8			
					Bottom	10.0	0.2	349	22.5	22.5	8.0	8.0	28.9	28.9	89.9		6.3	4.2	4	91											<0.2	0.8		
						10.0	0.2	342	22.5	22.5	8.0				90.4		6.4	4.2	5	91											<0.2	0.7		
C3	Misty	Moderate	15:39	11.2	Surface	1.0	0.3	253	22.3	22.4	8.0	8.0	28.0	28.0	85.3	85.4	6.4	6.4	2.6	2	52								<0.2	0.8				
						1.0	0.3	246	22.5	8.0				85.5		6.4	2.6	3	52										<0.2	0.8				
					Middle	5.6	0.3	237	22.5	22.5	8.0	8.0	28.0	28.0	86.3	86.5	6.4	6.4	3.7	3	85									<0.2	0.8			
						5.6	0.4	240	22.5	22.5	8.0				86.7		6.4	3.7	2	85										<0.2	0.8			
					Bottom	10.2	0.3	254	22.5	22.4	8.0	8.0	28.0	28.1	88.5		6.6	4.1	2	87											<0.2	0.8		
						10.2	0.4	249	22.3	22.4	8.0				92.5		6.9	4.1	2	87											<0.2	0.8		
IM1	Cloudy	Moderate	14:35	6.4	Surface	1.0	0.1	9	22.0	22.0	8.2	8.2	31.2	31.2	87.9	87.9	6.4	6.4	1.8	<2	85								<0.2	0.8				
						1.0	0.1	7	22.0	8.2	31.2	31.2	87.8		6.4	1.8	<2	87											<0.2	0.8				
					Middle	3.2	0.1	27	22.1	22.1	8.2	8.2	31.5	31.5	87.3	87.3	6.3	6.3	4.3	<2	88								<0.2	0.9				
						3.2	0.1	30	22.1	22.1	8.2				87.3		6.3	4.3	<2	89										<0.2	0.8			
					Bottom	5.4	0.1	22	22.1	22.1	8.2	8.2	31.7	31.7	87.6	87.7	6.4	6.4	11.9	2	92										<0.2	0.8		
						5.4	0.1	20	22.1	22.1	8.2				87.7		6.4	11.2	2	92											<0.2	0.8		
IM2	Cloudy	Moderate	14:29	6.6	Surface	1.0	0.1	332	21.8	21.8	8.2	8.2	30.8	30.8	88.2	88.2	6.5	6.5	1.7	4	86								<0.2	0.9				
						1.0	0.1	329	21.8	21.8	8.2				88.2		6.5	1.8	3	88									<0.2	0.8				
					Middle	3.3	0.1	340	21.8	21.8	8.2	8.2	30.9	30.9	88.2	88.2	6.5	6.5	2.1	3	89								<0.2	0.8				
						3.3	0.1	342	21.8	21.8	8.2				88.2		6.5	2.1	4	88										<0.2	0.8			
					Bottom	5.6	0.2	333	21.8	21.8	8.2	8.2	30.9	30.9	88.4		6.5	2.1	2	86										<0.2	0.8			
						5.6	0.2	327	21.8	21.8	8.2				88.5		6.5	2.2	3	86										<0.2	0.9			
IM3	Cloudy	Moderate	14:26	6.7	Surface	1.0	0.1	346	21.8	21.8	8.2	8.2	30.8	30.8	88.2	88.3	6.5	6.5	1.7	2	85								<0.2	0.8				
						1.0	0.1	347	21.8	21.8	8.2				88.3		6.5	1.8	3	87									<0.2	0.8				
					Middle	3.4	0.1	329	21.8	21.8	8.2	8.2	30.8	30.8	88.3	88.3	6.5	6.5	1.9	3	88								<0.2	0.8				
						3.4	0.1	323	21.8	21.8	8.2				88.3		6.5	1.9	2	89										<0.2	0.8			
					Bottom	5.7	0.1	4	21.7	21.7	8.2	8.2	30.9	30.9	89.0		6.5	2.0	2	92										<0.2	0.8			
						5.7	0.2	5	21.7	21.7	8.2				89.1		6.6	2.0	2	92											<0.2	0.8		
IM4	Cloudy	Moderate	14:19	7.0	Surface	1.0	0.1	336	21.8	21.8	8.2	8.2	30.7	30.7	88.9	88.9	6.5	6.5	1.3	2	87								<0.2	0.9				
						1.0	0.2	335	21.8	21.8	8.2				88.9		6.5	1.3	3	88									<0.2	0.8				
					Middle	3.5	0.1	318	21.7	21.7	8.2	8.2	30.9	30.9	88.6	88.6	6.5	6.5	2.8	3	88								<0.2	0.8				
						3.5	0.2	319	21.7	21.7	8.2				88.6		6.5	3.0	2	86									<0.2	0.8				
					Bottom	6.0	0.1	325	21.7	21.7	8.2	8.2	31.0	31.0	89.0		6.5	3.7	2	91										<0.2	0.8			
						6.0	0.0	331	21.7	21.7	8.2				89.2		6.6	3.6	3	91										<0.2	0.8			
IM5	Cloudy	Moderate	14:05	7.3	Surface	1.0	0.1	327	21.8	21.8	8.2	8.2	30.6	30.6	88.2	88.2	6.5	6.5	1.6	2	86								<0.2	0.8				
						1.0	0.2	322	21.7	21.7	8.2				88.2		6.5	1.7	3	87									<0.2	0.8				
					Middle	3.7	0.1	344	21.7	21.7	8.2	8.2	30.8	30.8	87.8	87.9	6.5	6.5	2.4	2	89								<0.2	0.7				
						3.7	0.2	349	21.7	21.7	8.2				87.9		6.5	2.5	2	88									<0.2	0.8				
					Bottom	6.3	0.2	352	21.7	21.7	8.2	8.2	30.8	30.8	87.9		6.5	2.6	3	89										<0.2	0.7			
						6.3	0.1	346	21.7	21.7	8.2				88.0		6.5	2.6	3	92										<0.2	0.7			
IM6	Cloudy	Moderate	13:55	7.4	Surface	1.0	0.2	308	21.8	21.8	8.2	8.2	30.6	30.6	87.4	87.4	6.4	6.4	1.2	2	86								<0.2	0.8				
						1.0	0.1	311	21.8	21.8	8.2				87.3		6.4	1.3	3	87									<0.2	0.9				
					Middle	3.7	0.2	326	21.8	21.8	8.2	8.2	30.9	30.9	86.9	86.9	6.4	6.4	1.7	2	87								<0.2	0.8				
						3.7	0.2	328	21.8	21.8	8.2				86.8		6.4	1.8	2	85									<0.2	0.8				
					Bottom	6.4	0.2	309	21.8	21.8	8.2	8.2	31.1	31.1	87.0		6.4	1.8	<2	90										<0.2	0.9			
						6.4	0.2	309	21.8	21.8	8.2				87.1		6.4	1.8	<2	90										<0.2	0.8			
IM7	Cloudy	Moderate	13:42	8.0	Surface	1.0	0.1	261	21.7	21.7	8.2	8.2	30.3	30.3	87.9	87.9	6.5	6.5	0.6	2	86							<0.2	0.9					
						1.0	0.1	267	21.7	21.7	8.2				87.8		6.5	0.6	2	86								<0.2	0.8					
					Middle	4.0	0.1	283	21.7	21.7	8.2	8.2	30.4	30.5	86.7	86.7	6.4	6.4	0.9	4	88								<0.2	0.8				
						4.0	0.1	277	21.7	21.7	8.2				86.6		6.4	1.0	3	87									<0.2	0.8				
					Bottom	7.0	0.1	292	21.9	21.9	8.2	8.2	31.0	31.0	86.2	86.3	6.3	6.3	1.8	4	88									<0.2	0.9			
						7.0	0.1	293	21.9	21.9	8.2				86.3		6.3	1.8	3	91										<0.2	0.8			
IM8	Misty	Moderate	14:02	7.0	Surface	1.0	0.2	258	22.7	22.7	8.1	8.1	27.9	28.0	85.8	86.0	6.3	6.3	2.1	4	45								<0.2	0.7				
						1.0	0.1	259	22.7	22.7	8.1				86.2		6.3	2.1	3	45									<0.2	0.8				
					Middle	3.5	0.1	269	22.7	22.7																								

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 07 December 23 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Misty	Moderate	14:08	7.2	Surface	1.0	0.2	268	22.4	22.4	8.1	8.1	28.9	28.9	83.1	83.2	6.3		2.2		4		56		822106	808821	<0.2		0.9	
						1.0	0.2	263	22.4		8.1		28.9		83.2		6.3		2.2		3		56				<0.2		0.8	
					Middle	3.6	0.2	259	22.4	22.4	8.1	8.1	29.1	29.1	87.3	87.4	6.4	6.4	3.9	3.4	5	5	82	76			<0.2	<0.2	0.8	0.9
						3.6	0.3	264	22.4		8.1		29.1		87.6	87.5	6.4		3.8		6		82				<0.2		0.9	
					Bottom	6.2	0.2	288	22.4	22.4	8.1	8.1	29.2	29.2	89.2	89.6	6.6	6.6	4.2		6		90				<0.2		0.9	
						6.2	0.1	281	22.4		8.1		29.2		90.0		6.6		4.2		5		90				<0.2		0.8	
					Surface	1.0	0.2	266	22.5	22.5	8.1	8.1	29.1	29.1	83.5	83.6	6.4		2.1		6		51		822232	809861	<0.2		0.8	
						1.0	0.2	273	22.5		8.1		29.1		83.7		6.4	6.4	2.1		5	5	52	77			<0.2	<0.2	0.7	
IM10	Misty	Moderate	14:17	7.6	Surface	3.8	0.3	269	22.5	22.5	8.1	8.1	29.1	29.1	86.3	86.7	6.4	6.4	2.5	2.6	5	5	89				<0.2	<0.2	0.8	0.8
						3.8	0.3	270	22.5		8.1		29.1		87.0		6.4		2.5		4		89				<0.2		0.8	
					Middle	6.6	0.3	288	22.5	22.5	8.1	8.1	29.1	29.1	89.1	89.5	6.4	6.4	3.2		4		90				<0.2		0.8	
						6.6	0.3	283	22.5		8.1		29.1		89.9		6.4	6.4	3.2		5		90				<0.2		0.8	
					Surface	1.0	0.4	276	22.5	22.5	8.1	8.1	29.2	29.2	87.0	87.1	6.4		2.2		3		62		821521	810537	<0.2		0.8	
						1.0	0.4	282	22.5		8.1		29.2		87.2		6.3	6.4	2.2		4		62				<0.2	<0.2	0.8	
					Middle	4.0	0.3	280	22.4	22.4	8.1	8.1	29.2	29.2	87.8	87.9	6.3	6.4	3.7	3.4	4	5	78	75			<0.2	<0.2	0.7	0.8
						4.0	0.3	275	22.4		8.1		29.2		88.0		6.4		3.7		5		78				<0.2		0.8	
IM11	Misty	Moderate	14:32	8.0	Surface	7.0	0.4	290	22.4	22.4	8.1	8.1	29.2	29.2	93.8	94.1	6.4	6.4	4.4		6		84				<0.2		0.8	
						7.0	0.3	283	22.4		8.1		29.2		94.4		6.4	6.4	4.4		6		85				<0.2		0.9	
					Middle	1.0	0.4	275	22.5	22.5	8.1	8.1	29.2	29.2	87.0	87.1	6.3		2.1		4		48		821168	811517	<0.2		0.8	
						1.0	0.4	271	22.5		8.1		29.2		87.2		6.2	6.3	2.1		5	5	48				<0.2	<0.2	0.8	
					Bottom	4.0	0.4	286	22.4	22.4	8.1	8.1	29.2	29.2	87.9	87.9	6.3	6.3	2.2	2.5	4	5	79	71			<0.2	<0.2	0.8	0.8
						4.0	0.4	292	22.4		8.1		29.2		87.9		6.3		2.2		5		79				<0.2		0.8	
					Surface	7.0	0.3	291	22.4	22.4	8.1	8.1	29.1	29.1	93.9	94.1	6.3	6.4	3.2		5		87				<0.2		0.8	
						7.0	0.3	292	22.4		8.1		29.1		94.2		6.3	6.4	3.2		6		87				<0.2		0.8	
SR1A	Misty	Moderate	15:08	4.2	Surface	1.0	-	-	22.3	22.3	8.0	8.1	29.1	29.1	82.8	84.8	6.1		2.2		5		-		819980	812659	-	-	-	-
						1.0	-	-	22.3		8.1		29.1		86.7		6.4	6.3	2.2		6		-				-	-	-	-
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-			-		-		-		-	-	-	-	-
						2.1	-	-	-		-		-		-		-			-		-		-		-	-	-	-	-
					Bottom	3.2	-	-	22.3	22.3	8.1	8.1	29.1	29.1	88.2	88.6	6.5	6.6	3.7		4		-				-	-	-	-
						3.2	-	-	22.3		8.1		29.1		88.9		6.6	6.6	3.7		5		-				-	-	-	-
					Surface	1.0	0.2	206	22.5	22.5	8.1	8.1	29.1	29.1	87.4	87.6	6.5		3.2		5		72		821456	814161	<0.2		0.8	
						1.0	0.3	207	22.5		8.1		29.1		87.7		6.5	6.5	3.2		4		72				<0.2	<0.2	0.8	
SR2	Misty	Moderate	15:19	5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	-			-		-		87		-	<0.2	-	-	0.8
						-	-	-	-		-		-		-		-			-		-		-		-	<0.2	-	-	-
					Bottom	4.0	0.2	244	22.5	22.5	8.1	8.1	29.1	29.1	90.5	91.0	6.7	6.8	4.2		3		102				<0.2		0.8	
						4.0	0.2	251	22.5		8.1		29.1		91.5		6.8	6.8	4.2		4		102				<0.2		0.9	
					Surface	1.0	0.1	310	22.6	22.6	8.0	8.0	28.9	28.9	86.8	86.9	6.6		2.2		3		-		822134	807589	-	-	-	-
						1.0	0.2	314	22.6		8.0		28.9		86.9		6.6	6.6	2.2		2		-				-	-	-	-
					Middle	4.6	0.1	284	22.6	22.6	8.0	8.0	28.9	28.9	88.0	88.3	6.6	6.6	3.2	3.2	3	3	-	-			-	-	-	-
						4.6	0.0	277	22.6		8.0		28.9		88.6		6.7	6.7	3.2		2		-				-	-	-	-
SR3	Misty	Moderate	13:46	9.2	Bottom	8.2	0.1	320	22.5	22.5	8.0	8.0	28.9	28.9	90.9	91.1	6.7	6.7	4.2		3		-				-	-	-	-
						8.2	0.1	323	22.5		8.0		28.9		91.2		6.7	6.7	4.2		4		-				-	-	-	-
					Surface	1.0	0.0	201	22.0	22.0	8.2	8.2	30.4	30.4	86.6	86.6	6.4		2.3		5		-		817176	807825	-	-	-	-
						1.0	0.0	199	22.0		8.2		30.4		86.5		6.3	6.2	2.3		4		-				-	-	-	-
					Middle	4.1	0.0	226	22.3	22.3	8.2	8.2	31.6	31.6	82.2	82.2	6.0	6.0	2.7	2.5	3	4	-	-			-	-	-	-
						4.1	0.0	227	22.3		8.2		31.6		82.2		6.0	6.0	2.7		4		-				-	-	-	-
					Bottom	7.2	0.1	225	22.3	22.3	8.2	8.2	31.8	31.8	83.3	83.4	6.0	6.0	2.6		4		-				-	-	-	-
						7.2	0.0	226	22.3		8.2		31.8		83.4		6.0	6.0	2.6		3		-				-	-	-	-

Water Quality Monitoring Results on 09 December 23 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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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C1	Cloudy	Moderate	11:01	8.5	Surface	1.0	0.3	207	22.8	22.8	8.3	8.3	30.2	30.2	97.3	97.2	7.0	7.0			3		80		815623	804270		806949		817785	818328	806476		819415	806020		819595	805033		820569	804907		821043	805812		821353	806837		821708	807845		821999	808497		822300	809000		822600	809500		822900	810000		823200	810500		823500	811000		823800	811500		824100	812000		824400	812500		824700	813000		825000	813500		825300	814000		825600	814500		825900	815000		826200	815500		826500	816000		826800	816500		827100	817000		827400	817500		827700	818000		828000	818500		828300	819000		828600	819500		828900	820000		829200	820500		829500	821000		829800	821500		830100	822000		830400	822500		830700	823000		831000	823500		831300	824000		831600	824500		831900	825000		832200	825500		832500	826000		832800	826500		833100	827000		833400	827500		833700	828000		834000	828500		834300	829000		834600	829500		834900	830000		835200	830500		835500	831000		835800	831500		836100	832000		836400	832500		836700	833000		837000	833500		837300	834000		837600	834500		837900	835000		838200	835500		838500	836000		838800	836500		839100	837000		839400	837500		839700	838000		840000	838500		840300	839000		840600	839500		840900	840000		841200	840500		841500	841000		841800	841500		842100	842000		842400	842500		842700	843000		843000	843500		843300	844000		843600	844500		843900	845000		844200	845500		844500	846000		844800	846500		845100	847000		845400	847500		845700	848000		846000	848500		846300	849000		846600	849500		846900	850000		847200	850500		847500	851000		847800	851500		848100	852000		848400	852500		848700	853000		849000	853500		849300	854000		849600	854500		849900	855000		850200	855500		850500	856000		850800	856500		851100	857000		851400	857500		851700	858000		852000	858500		852300	859000		852600	859500		852900	860000		853200	860500		853500	861000		853800	861500		854100	862000		854400	862500		854700	863000		855000	863500		855300	864000		855600	864500		855900	865000		856200	865500		856500	866000		856800	866500		857100	867000		857400	867500		857700	868000		858000	868500		858300	869000		858600	869500		858900	870000		859200	870500		859500	871000		859800	871500		860100	872000		860400	872500		860700	873000		861000	873500		861300	874000		861600	874500		861900	875000		862200	875500		862500	876000		862800	876500		863100	877000		863400	877500		863700	878000		864000	878500		864300	879000		864600	879500		864900	880000		865200	880500		865500	881000		865800	881500		866100	882000		866400	882500		866700	883000		867000	883500		867300	884000		867600	884500		867900	885000		868200	885500		868500	886000		868800	886500		869100	887000		869400	887500		869700	888000		870000	888500		870300	889000		870600	889500		870900	890000		871200	890500		871500	891000		871800	891500		872100	892000		872400	892500		872700	893000		873000	893500		873300	894000		873600	894500		873900	895000		874200	895500		874500	896000		874800	896500		875100	897000		875400	897500		875700	898000		876000	898500		876300	899000		876600	899500		876900	900000		877200	900500		877500	901000		877800	901500		878100	902000		878400	902500		878700	903000		879000	903500		879300	904000		879600	904500		879900	905000		880200	905500		880500	906000		880800	906500		881100	907000		881400	907500		881700	908000		882000	908500		882300	909000		882600	909500		882900	910000		883200	910500		883500	911000		883800	911500		884100	912000		884400	912500		884700	913000		885000	913500		885300	914000		885600	914500		885900	915000		886200	915500		886500	916000		886800	916500		887100	917000		887400	917500		887700	918000		888000	918500		888300	919000		888600	919500		888900	920000		889200	920500		889500	921000		889800	921500		890100	922000		890400	922500		890700	923000		891000	923500		891300	924000		891600	924500		891900	925000		892200	925500		892500	926000		892800	926500		893100	927000		893400	927500		893700	928000		894000	928500		894300	929000		894600	929500		894900	930000		895200	930500		895500	931000		895800	931500		896100	932000		896400	932500		896700	933000		897000	933500		897300	934000		897600	934500		897900	935000		898200	935500		898500	936000		898800	936500		899100	937000		899400	937500		899700	938000		900000	938500		900300	939000		900600	939500		900900	940000		901200	940500		901500	941000		901800	941500		902100	942000		902400	942500		902700	943000		903000	943500		903300	944000		903600	944500		903900	945000		904200	945500		904500	946000		904800	946500		905100	947000		905400	947500		905700	948000		906000	948500		906300	949000		906600	949500		906900	950000		907200	950500		907500	951000		907800	951500		908100	952000		908400	952500		908700	953000		909000	953500		909300	954000		909600	954500		909900	955000		910200	955500		910500	956000		910800	956500		911100	957000		911400	957500		911700	958000		912000	958500		912300	959000		912600	959500		912900	960000		913200	960500		913500	961000		913800	961500		914100	962000		914400	962500		914700	963000		915000	963500		915300	964000		915600	964500		915900	965000		916200	965500		916500	966000		916800	966500		917100	967000		917400	967500		917700	968000		918000	968500		918300	969000		918600	969500		918900	970000		919200	970500		919500	971000		919800	971500		920100	972000

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 09 December 23 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
IM9	Fine	Moderate	11:11	8.0	Surface	1.0	0.3	151	22.6	22.6	8.1	8.1	29.0	29.0	85.5	85.5	6.3		2.1		4		44		69	822100	808803	<0.2	0.8	0.8						
						1.0	0.3	156	22.6	8.1		29.0		85.5		6.3	6.3	2.0		3		44														
					Middle	4.0	0.3	133	22.6	22.8	8.1	8.1	29.2	29.2	85.4	85.4	6.3		2.7		3		4					79			<0.2	0.9				
						4.0	0.3	137	22.9	8.1		29.2		85.4		6.3	6.3	2.6		4		79														
					Bottom	7.0	0.3	129	22.6	22.6	8.1	8.1	29.3	29.3	85.5	85.6	6.3	6.3	3.8		4		4					83			<0.2	0.8				
						7.0	0.3	126	22.6	8.1		29.3		85.6		6.3	6.3	3.9		4		83														
IM10	Fine	Moderate	10:57	7.2	Surface	1.0	0.3	112	22.6	22.6	8.1	8.1	28.8	28.9	83.8	83.8	6.2		2.1		4		48		74	822237	809844	<0.2	0.8	0.8						
						1.0	0.3	112	22.6	8.1		28.9		83.8		6.2	6.2	2.1		2		48														
					Middle	3.6	0.3	129	22.6	22.6	8.1	8.1	29.0	29.0	84.4	84.5	6.2		2.6		4		3					86			<0.2	0.8				
						3.6	0.3	128	22.6	8.1		29.0		84.5		6.2	6.2	2.7		3		87														
					Bottom	6.2	0.3	118	22.6	22.6	8.1	8.1	29.0	29.0	85.0	85.1	6.3	6.3	2.7		3		3					87			<0.2	0.9				
						6.2	0.3	122	22.6	8.1		28.9		85.2		6.3	6.3	2.8		3		87														
IM11	Fine	Moderate	10:44	8.2	Surface	1.0	0.3	88	22.7	22.7	8.1	8.1	28.8	28.9	85.3	85.3	6.3		2.2		4		52		77	821522	810562	<0.2	0.8	0.8						
						1.0	0.3	93	22.7	8.1		28.9		85.3		6.3	6.3	2.2		3		53														
					Middle	4.1	0.3	89	22.6	22.6	8.1	8.1	29.2	29.2	85.4	85.5	6.3		2.5		3		3					87			<0.2	0.9				
						4.1	0.3	85	22.6	8.1		29.2		85.5		6.3	6.3	2.5		2		87														
					Bottom	7.2	0.3	119	22.6	22.6	8.1	8.1	29.4	29.4	86.0	86.1	6.3	6.3	3.0		2		2					90			<0.2	0.8				
						7.2	0.3	117	22.6	8.1		29.3		86.1		6.3	6.3	3.0		3		90														
IM12	Fine	Moderate	10:37	8.0	Surface	1.0	0.4	95	22.8	22.8	8.1	8.1	29.6	29.6	85.5	85.5	6.3		2.4		2		45		73	821149	811523	<0.2	0.8	0.8						
						1.0	0.4	92	22.8	8.1		29.6		85.5		6.3	6.3	2.5		3		46														
					Middle	4.0	0.4	102	22.6	22.6	8.1	8.1	29.6	29.6	85.4	85.5	6.3		2.7		3		3					86			<0.2	0.8				
						4.0	0.4	99	22.6	8.1		29.6		85.5		6.3	6.3	2.6		2		86														
					Bottom	7.0	0.4	106	22.6	22.6	8.1	8.1	29.5	29.5	86.1	86.2	6.3	6.3	3.5		4		4					87			<0.2	0.8				
						7.0	0.4	102	22.6	8.1		29.5		86.2		6.3	6.3	3.5		3		87														
SR1A	Fine	Moderate	10:28	5.0	Surface	1.0	-	-	22.8	22.8	8.1	8.1	29.6	29.6	89.2	89.3	6.5		1.7		2		-		-	819977	812659	-	-	-						
						1.0	-	-	22.8	8.1		29.6		89.3		6.5	6.5	1.7		4		-														
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-		-		2.4					3			-		-	-		
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-					-			-	-				
					Bottom	4.0	-	-	22.8	22.8	8.1	8.1	29.5	29.5	89.6	89.7	6.6	6.6	3.1		3		-					-			-		-	-		
						4.0	-	-	22.8	8.1		29.5		89.7		6.6	6.6	3.1		2		-														
SR2	Fine	Moderate	10:18	5.2	Surface	1.0	0.2	47	22.7	22.7	8.0	8.1	29.6	29.6	89.9	89.3	6.6		2.1		3		43		65	821486	814152	<0.2	0.7	0.8						
						1.0	0.3	48	22.7	8.1		29.6		88.7		6.5	6.5	2.1		2		43														
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		2.6		4					-			<0.2	0.8			
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-			-	-			
					Bottom	4.2	0.2	64	22.7	22.7	8.1	8.1	29.6	29.6	89.3	89.4	6.5	6.6	3.1		5		87					-			<0.2	0.9				
						4.2	0.2	65	22.7	8.1		29.6		89.4		6.6	6.6	3.1		4		87														
SR3	Fine	Moderate	11:40	9.0	Surface	1.0	0.3	155	22.6	22.8	8.1	8.1	29.0	29.0	88.7	88.9	6.5		2.0		4		-		-	822136	807567	-	-	-						
						1.0	0.3	154	22.9	8.1		29.0		89.0		6.5	6.5	2.0		3		-														
					Middle	4.5	0.3	162	22.9	22.9	8.1	8.1	29.1	29.1	89.5	89.6	6.6		2.1		3		3					-			-	-				
						4.5	0.3	156	22.9	8.1		29.1		89.7		6.6	6.6	2.1		3		-														
					Bottom	8.0	0.3	154	22.9	22.9	8.1	8.1	29.1	29.1	90.3	90.4	6.6	6.6	2.9		2		-					-			-	-				
						8.0	0.3	149	22.9	8.1		29.1		90.5		6.6	6.6	2.9		3		-														
SR4A	Cloudy	Moderate	10:33	8.7	Surface	1.0	0.0	41	22.9	22.9	8.3	8.3	30.1	30.1	92.6	92.6	6.7		1.5		2		-		-	817189	807833	-	-	-						
						1.0	0.0	37	22.9	8.3		30.1		92.6		6.7	6.7	1.5		3		-														
					Middle	4.4	0.0	61	22.9	22.9	8.3	8.3	30.1	30.1	92.5	92.5	6.7		1.5		2		3					-			-	-				
						4.4	0.0	64	22.9	8.3		30.1		92.5		6.7	6.7	1.5		3		-														
					Bottom	7.7	0.0	30	22.9	22.9	8.3	8.3	30.1	30.1	92.7	92.7	6.7	6.7	1.7		3		-					-			-	-				
						7.7	0.1	24	22.9	8.3		30.1		92.7		6.7	6.7	1.7		3		-														
SR5A	Cloudy	Moderate	10:16	3.8	Surface	1.0	0.2	95	22.9	22.9	8.3	8.3	29.5	29.5	88.9	89.0	6.4		3.2		2		-		-	816575	810709	-	-	-						
						1.0	0.2	92	22.9	8.3		29.5		89.0		6.5	6.5	3.0		3		-														
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		3.1		3					-			-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-		-					
					Bottom	2.8	0.1	88	23.0	23.0	8.3	8.3	29.5	29.5	89.1	89.2	6.5	6.5	3.0		3		4					-			-	-				
						2.8	0.1	89	23.0	8.3		29.5		89.3		6.5	6.5	3.3		4		-														
SR6	Cloudy	Moderate	09:47	5.3	Surface	1.0	0.0	47	22.8	22.8	8.2	8.2	29.4	29.4	83.7	83.7	6.1		1.9		5		-		-	817888	814644	-	-	-						
						1.0	0.0	53	22.8	8.2		29.4		83.7		6.1	6.1	1.9		4		-														
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		2.1		4					-			-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-		-					
					Bottom	4.3	0.1	37	22.8	22.8	8.2	8.2	29.4	29.4	83.6	83.6	6.1	6.1	2.2		2		3					-			-	-				
						4.3	0.0	30	22.8	8.2		29.4		83.6		6.1	6.1	2.2		3		-														
SR7	Fine	Moderate	09:33	14.2	Surface	1.0	0.4	84	22.6	22.8	8.1	8.1	28.4	28.4	84.5	84.5	6.3		2.6		3		-		-	823634	823719	-	-	-						
						1.0	0.3	89	22.9	8.1		28.4		84.5		6.2	6.2	2.5		3		-														
					Middle	7.1	0.4	91	22.9	22.9	8.1	8.1	28.4	28.4	84.7	84.8	6.2		2.6		4		3					-			-	-				
						7.1	0.3	83	22.9	8.1		28.4		84.8		6.2	6.2	2.6		4		-														
					Bottom	13.2	0.3	61	23.0	23.0	8.1	8.1	28.5	28.5	87.0	87.6	6.4	6.4	3.1		3		-					-			-	-				
						13.2	0.4	61	23.0	8.1		28.5		87.6		6.4	6.4	3.1		4		-														
SR8	Fine	Moderate	10:32	4.8	Surface	1.0	-	-	22.6	22.7	8.1	8.1	29.6	29.6	84.8	84.9	6.2		2.4		3		-		-	820391	811630	-	-	-						
						1.0	-	-	22.8	8.1		29.6		84.9		6.2	6.2	2.4		3		-														
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		3.2		3					-			-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-					-		-					
					Bottom	3.8	-	-	22.8	22.8	8.1	8.1	29.6	29.6	85.6	85.7	6.3	6.3	4.0		2		-					-			-	-				
						3.8	-	-	22.8	8.1		29.6		85.8		6.3	6.3	4.0		3		-														

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 December 23 during Mid-Flood Tide

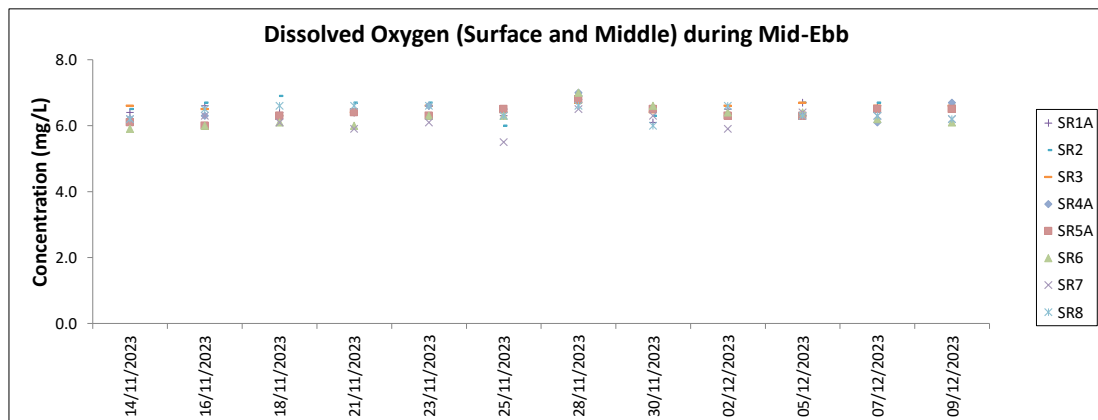
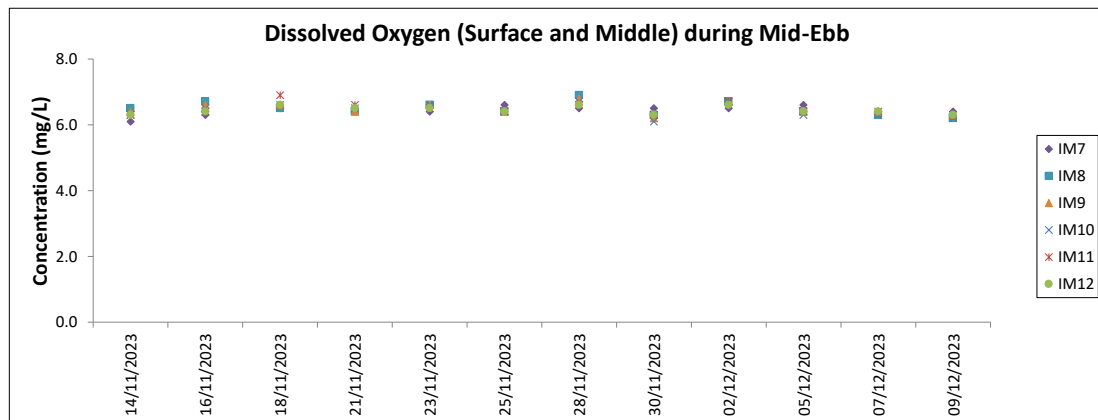
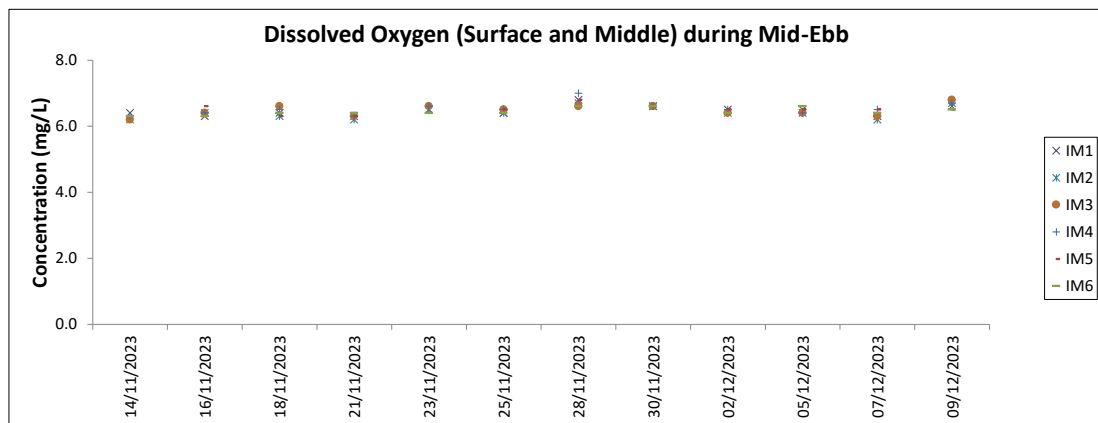
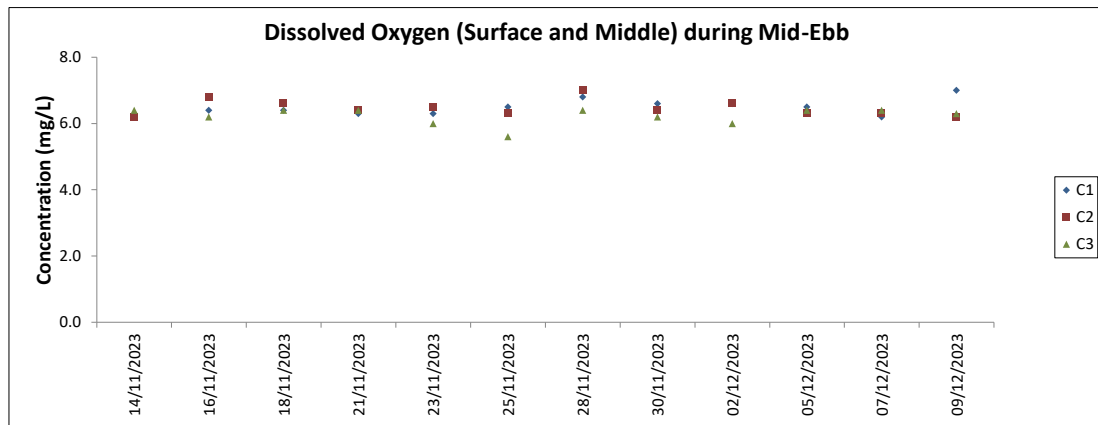
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (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	Value	DA
C1	Cloudy	Moderate	16:05	8.2	Surface	1.0	0.3	27	23.4	23.4	8.2	8.2	29.7	29.7	93.6	93.6	6.7		2.0		3		86		86	815634	804264	<0.2	0.8	0.8						
						1.0	0.3	27	23.4		8.2		29.7		93.6		6.7	6.7	2.0	3	87	<0.2	0.8													
					Middle	4.1	0.2	23	22.8	22.8	8.2	8.2	30.1	30.1	91.1	91.1	6.6		3.2	2.5	3	3	88	86				<0.2	0.8							
						4.1	0.2	24	22.8		8.2		30.1		91.0		6.6		3.7		3		87					<0.2	0.8							
					Bottom	7.2	0.2	17	22.9	22.9	8.2	8.2	29.9	29.9	90.3	90.3	6.5	6.5	2.2		2		85					<0.2	0.9							
						7.2	0.2	21	22.9		8.2		29.9		90.3		6.5		2.1		3		85					<0.2	0.9							
C2	Fine	Moderate	14:33	11.2	Surface	1.0	0.0	257	22.7	22.7	8.1	8.1	28.6	28.6	86.6	86.8	6.4		2.7		3		47		74	825669	806951	<0.2	0.9	0.9						
						1.0	0.1	257	22.7		8.0		28.6		86.9		6.4	6.5	2.7	4	47	<0.2	0.9													
					Middle	5.6	0.1	267	22.7	22.7	8.0	8.0	28.6	28.6	87.8	88.0	6.5		3.9	3.6	3	3	83	83				<0.2	0.9							
						5.6	0.1	273	22.7		8.0		28.6		88.1		6.5		3.9		3		83					<0.2	0.9							
					Bottom	10.2	0.1	253	22.7	22.7	8.0	8.0	28.6	28.6	89.1	89.4	6.6	6.6	4.2		3		92					<0.2	0.9							
						10.2	0.1	246	22.7		8.0		28.6		89.6		6.6		4.1		3		92					<0.2	0.8							
C3	Fine	Moderate	16:30	11.0	Surface	1.0	0.4	253	22.5	22.6	8.1	8.1	27.7	27.7	84.5	84.6	6.3		2.5		3		52		75	822098	817796	<0.2	0.9	0.9						
						1.0	0.5	255	22.7		8.1		27.7		84.7		6.3	6.3	2.5	2	52	<0.2	0.9													
					Middle	5.5	0.5	271	22.7	22.7	8.1	8.1	27.7	27.7	85.5	85.7	6.3		3.6	3.4	2	2	85	75				<0.2	0.9							
						5.5	0.5	276	22.7		8.1		27.7		85.9		6.4		3.6		2		85					<0.2	0.9							
					Bottom	10.0	0.4	255	22.7	22.6	8.1	8.1	27.7	27.7	87.7	89.7	6.5	6.7	4.0		2		87					<0.2	0.8							
						10.0	0.5	254	22.5		8.1		27.7		91.7		6.8		4.1		2		87					<0.2	0.9							
IM1	Cloudy	Moderate	15:26	6.5	Surface	1.0	0.1	7	22.8	22.8	8.2	8.2	29.8	29.8	93.2	93.2	6.8		2.4		2		85		88	818339	806461	<0.2	0.9	0.9						
						1.0	0.1	3	22.8		8.2		29.8		93.2		6.8	6.8	2.5	3	86	<0.2	0.9													
					Middle	3.3	0.1	3	22.7	22.7	8.2	8.2	29.9	29.9	92.0	91.9	6.7		4.0	4.1	2	3	87	88				<0.2	0.9							
						3.3	0.1	6	22.7		8.2		29.9		91.8		6.7		4.1		3		88					<0.2	0.8							
					Bottom	5.5	0.1	3	22.8	22.8	8.2	8.2	29.9	29.9	91.2	91.2	6.6	6.6	5.6		4		91					<0.2	0.9							
						5.5	0.1	3	22.8		8.2		29.9		91.2		6.6		6.2		3		92					<0.2	0.9							
IM2	Cloudy	Moderate	15:23	6.8	Surface	1.0	0.0	297	22.8	22.8	8.2	8.2	29.6	29.6	92.7	92.7	6.7		1.9		3		86		87	818837	806201	<0.2	0.9	1.0						
						1.0	0.0	295	22.8		8.2		29.6		92.7		6.7	6.7	2.0	3	87	<0.2	1.0													
					Middle	3.4	0.0	285	22.7	22.7	8.2	8.2	29.8	29.8	92.1	92.1	6.7		7.3	6.9	2	3	88	87				<0.2	1.1							
						3.4	0.1	279	22.7		8.2		29.8		92.1		6.7		7.6		2		88					<0.2	1.0							
					Bottom	5.8	0.1	305	22.7	22.7	8.2	8.2	29.8	29.8	91.9	91.9	6.7	6.7	11.4		3		85					<0.2	1.0							
						5.8	0.2	299	22.7		8.2		29.8		91.9		6.7		11.2		2		85					<0.2	1.0							
IM3	Cloudy	Moderate	15:20	6.5	Surface	1.0	0.1	310	22.7	22.7	8.2	8.2	29.5	29.5	91.5	91.6	6.7		2.1		3		84		88	819408	806009	<0.2	1.0	0.9						
						1.0	0.1	317	22.7		8.2		29.5		91.6		6.7	6.7	2.4	2	86	<0.2	1.0													
					Middle	3.3	0.1	310	22.7	22.7	8.2	8.2	29.7	29.7	92.0	92.0	6.7		6.1	6.3	2	2	87	88				<0.2	0.9							
						3.3	0.1	311	22.7		8.2		29.7		92.0		6.7		6.9		2		88					<0.2	1.0							
					Bottom	5.5	0.1	338	22.8	22.8	8.2	8.2	29.7	29.7	91.6	91.6	6.7	6.7	10.4		2		91					<0.2	0.8							
						5.5	0.1	332	22.8		8.2		29.7		91.5		6.6		10.0		2		91					<0.2	0.9							
IM4	Cloudy	Moderate	15:14	7.8	Surface	1.0	0.1	328	22.7	22.7	8.2	8.2	29.4	29.4	90.9	90.9	6.6		3.3		3		86		88	819574	805023	<0.2	0.9	0.9						
						1.0	0.0	331	22.7		8.2		29.4		90.9		6.6	6.6	3.4	3.9	4	3	87	88				<0.2	0.9							
					Middle	3.9	0.1	335	22.7	22.7	8.2	8.2	29.4	29.4	90.8	90.8	6.6		3.8	3.0	2	3	87	85				<0.2	1.0							
						3.9	0.1	338	22.7		8.2		29.4		90.8		6.6		4.0		3		85					<0.2	0.9							
					Bottom	6.8	0.1	339	22.8	22.8	8.2	8.2	29.4	29.4	90.9	90.9	6.6	6.6	4.3		2		91					<0.2	0.9							
						6.8	0.2	335	22.8		8.2		29.4		90.9		6.6		4.3		3		90					<0.2	0.9							
IM5	Cloudy	Moderate	15:05	6.7	Surface	1.0	0.2	338	22.9	22.9	8.2	8.2	28.4	28.4	90.1	90.2	6.6		1.9		2		86		88	820576	804929	<0.2	1.0	1.0						
						1.0	0.2	340	22.9		8.2		28.4		90.2		6.6	6.6	1.9	2	86	<0.2	1.0													
					Middle	3.4	0.2	307	22.8	22.8	8.2	8.2	29.4	29.4	90.1	90.1	6.6		2.0	2.0	2	2	88	88				<0.2	0.9							
						3.4	0.2	301	22.8		8.2		29.4		90.1		6.6		2.1		2		88					<0.2	0.9							
					Bottom	5.7	0.1	332	22.9	22.9	8.2	8.2	29.0	29.0	90.0	90.0	6.5	6.6	2.1		2		89					<0.2	1.0							
						5.7	0.1	334	22.9		8.2		29.0		90.0		6.6		2.1		2		92					<0.2	0.9							
IM6	Cloudy	Moderate	14:57	7.4	Surface	1.0	0.1	299	22.9	22.9	8.2	8.2	28.7	28.8	90.6	90.6	6.6		1.9		2		86		87	821050	805823	<0.2	0.9	0.9						
						1.0	0.1	293	22.9		8.2		28.8		90.6		6.6	6.6	1.9	2	86	<0.2	0.9													
					Middle	3.7	0.1	312	22.9	22.9	8.2	8.2	29.4	29.4	90.5	90.5	6.6		2.1	3.5	2	2	87	84				<0.2	0.9							
						3.7	0.1	313	22.9		8.2		29.4		90.5		6.6		2.1		2		84					<0.2	0.8							
					Bottom	6.4	0.2	284	22.9	22.9	8.2	8.2	29.4	29.4	90.4	90.4	6.6	6.6	6.4		<2		90					<0.2	0.9							
						6.4	0.1	278	22.9		8.2		29.4		90.4		6.6		6.3		<2		89					<0.2	1.0							
IM7	Cloudy	Moderate	14:42	8.0	Surface	1.0	0.2	240	22.9	22.9	8.2	8.2	28.2	28.3	88.3	88.3	6.5		2.0		2		85		88	821340	806830	<0.2	1.0	0.9						
						1.0	0.2	243	22.9		8.2		28.3		88.3		6.5	6.5	2.1	2	86	<0.2	0.9													
					Middle	4.0	0.1	258	22.7	22.7	8.2	8.2	29.3	29.3	88.2	88.2	6.4		2.2	2.2	<2	2	87	88				<0.2	0.9							
						4.0	0.2	264	22.7		8.2		29.3		88.2		6.4		2.3		<2		88					<0.2	0.9							
					Bottom	7.0	0.2	264	22.8	22.8	8.2	8.2	29.3	29.3	87.9	87.9	6.4	6.4	2.3		<2		88					<0.2	0.9							
						7.0	0.1	260	22.8		8.2		29.2		87.9		6.4		2.3		<2		91					<0.2	0.9							
IM8	Fine	Moderate	14:52	7.2	Surface	1.0	0.1	233	22.9	22.9	8.1	8.1	27.6	27.7	85.0	85.2	6.3		2.0		2		45		71	821704	807836	<0.2	0.8	0.9						
						1.0	0.1	229	22.9		8.1		27.7		85.4		6.3	6.4	2.1	2	45	<0.2	0.9													
					Middle	3.6	0.2	231	22.9	22.9	8.1	8.1	27.8	27.9	86.9	87.1	6.4		3.1	3.1	<2	2	82	82				<0.2	0.9							
						3.6	0.2	229	22.9		8.1		27.9		87.2		6.4		3.1		<2		82					<0.2	1.0							
					Bottom	6.2	0.1	238	22.9	22.9	8.1	8.1	28.0	28.1	88.4	88.6	6.5	6.5	4.0		<2		84					<0.2	0.9							
						6.2	0.2	242	22.9		8.1		28.1		88.8		6.5		4.0		<2		85					<0.2	0.9							

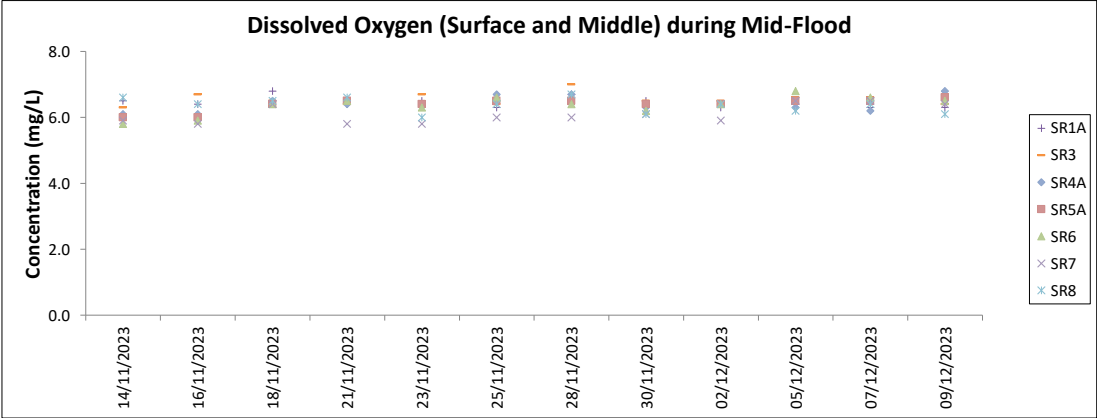
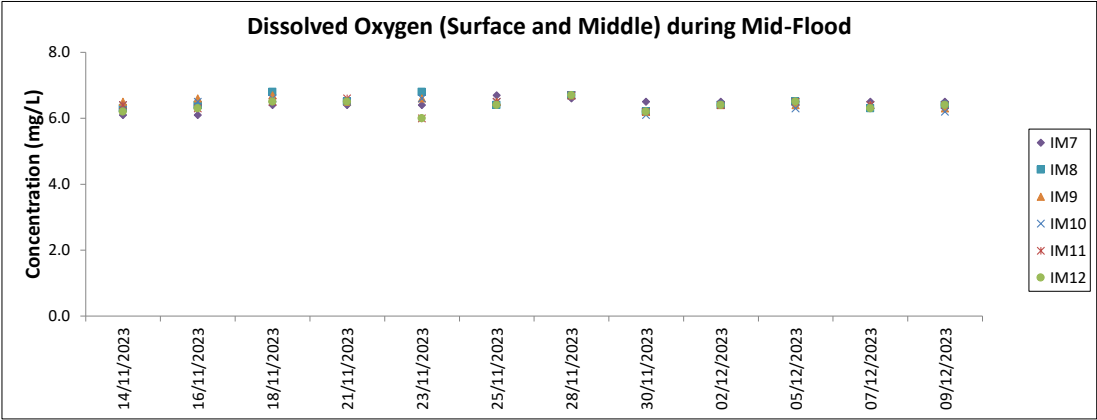
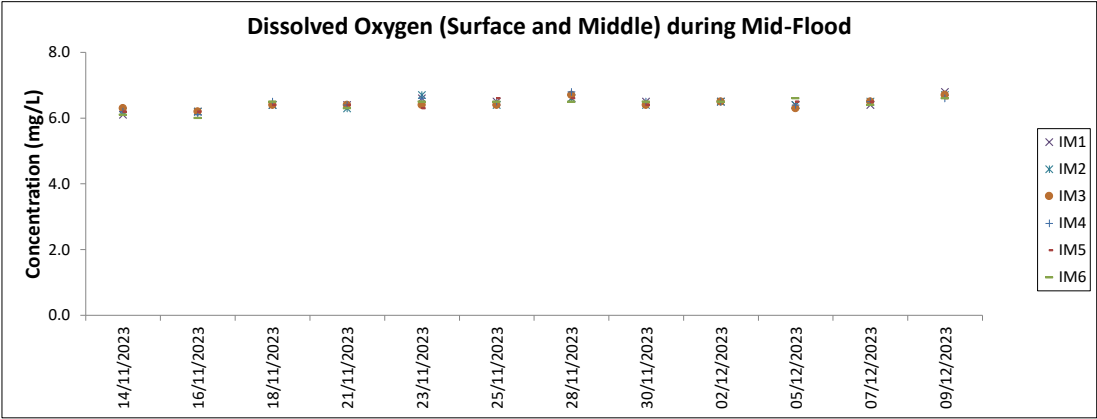
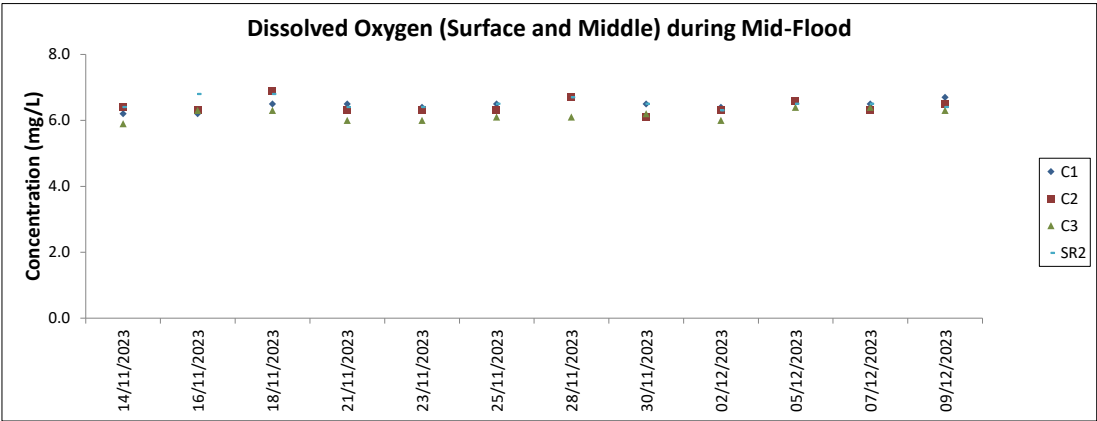
Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

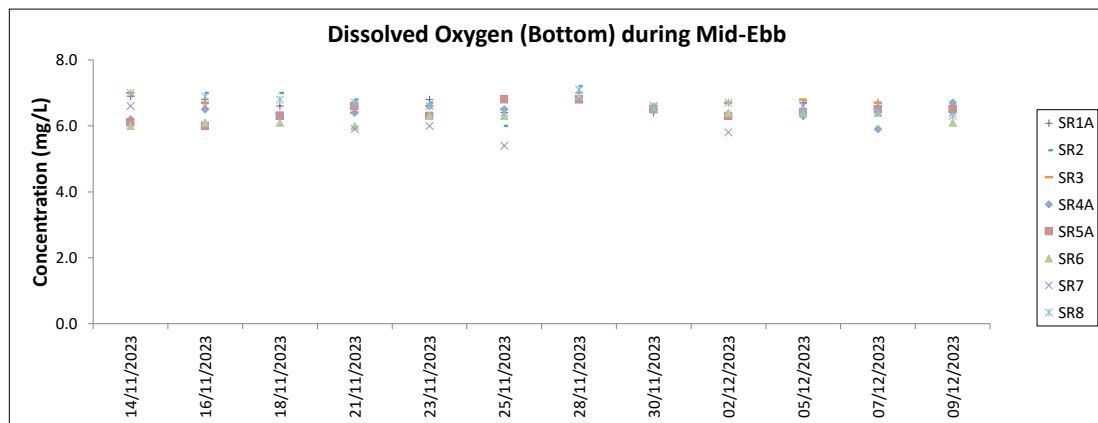
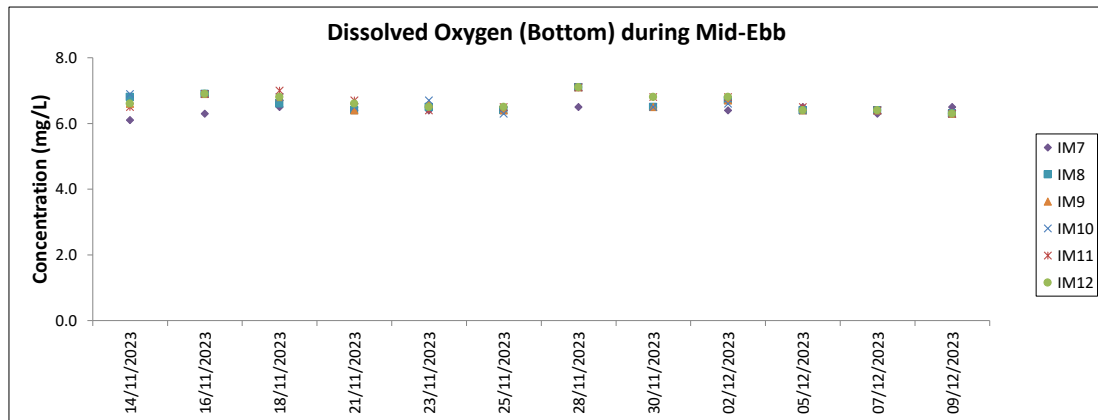
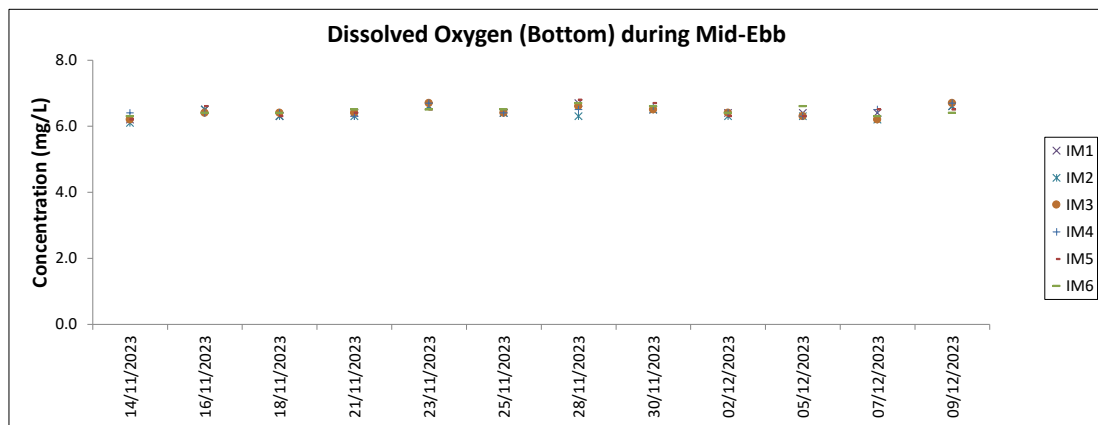
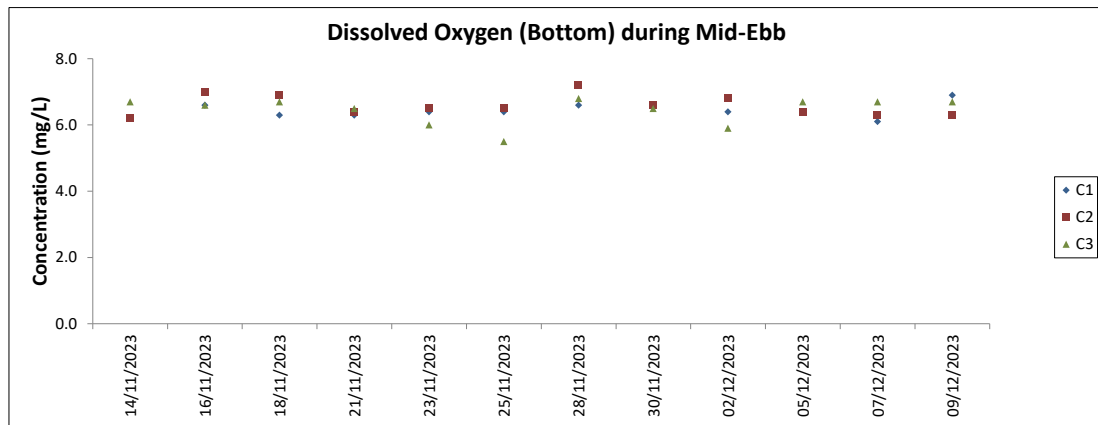
Water Quality Monitoring Results on 09 December 23 during Mid-Flood Tide

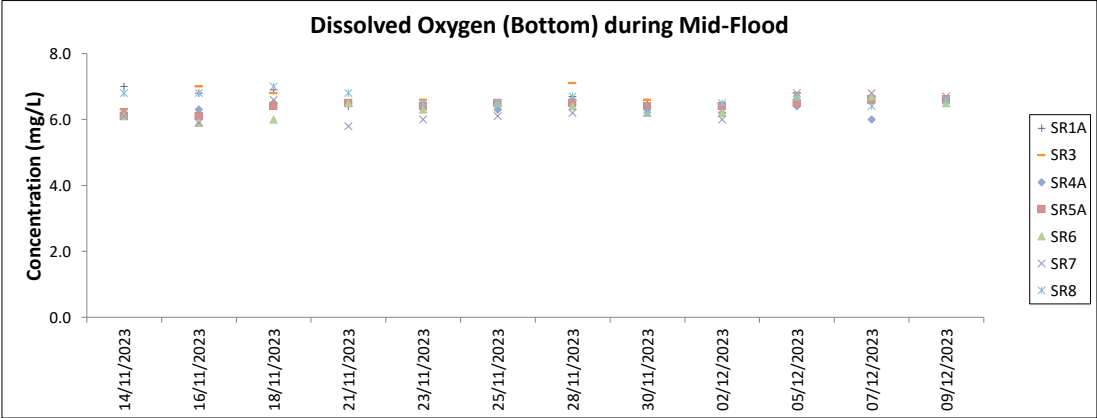
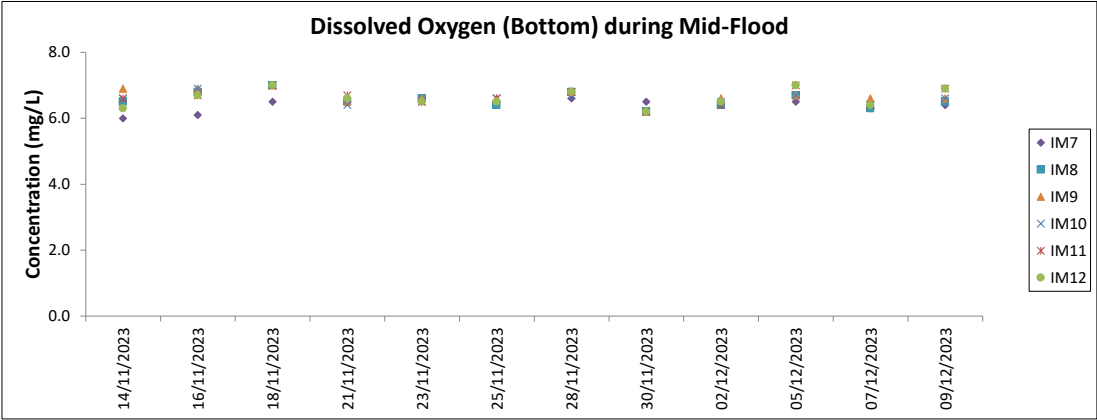
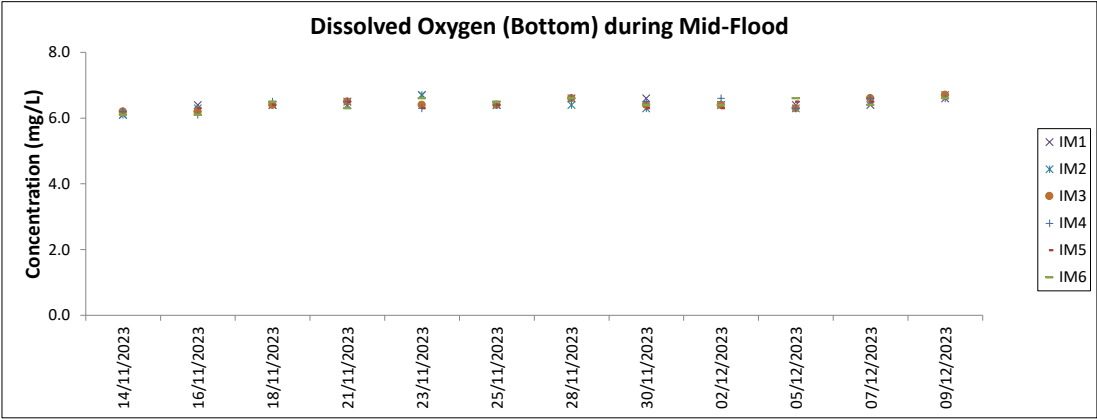
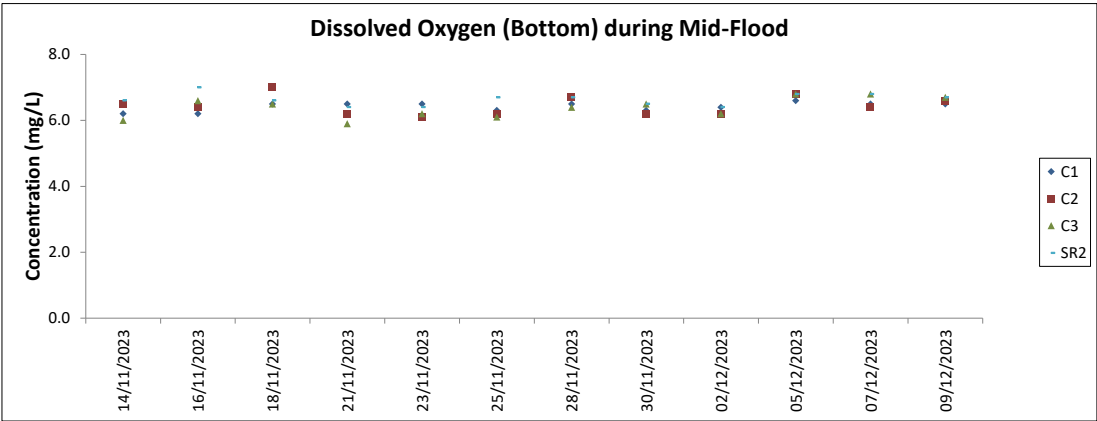
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (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
IM9	Fine	Moderate	14:58	7.0	Surface	1.0	0.1	264	22.6	22.6	8.1	8.1	28.6	28.6	82.3	82.4	6.1	2.1	3		56		76	822106	808810	<0.2	0.8	<0.2	0.9			
						1.0	0.1	260	22.6		8.1		28.6	28.6	82.4	82.4	6.1	2.2	4	56												
					Middle	3.5	0.2	248	22.6	22.6	8.1	8.1	28.8	28.8	86.5	86.7	6.4	3.8	2	83	76	822106	808810	<0.2	0.9							
						3.5	0.2	250	22.6		8.1		28.8	28.8	86.8	86.4	6.4	3.7	2	83					<0.2	0.9						
					Bottom	6.0	0.1	274	22.6	22.6	8.1	8.1	28.8	28.8	88.4	88.8	6.5	4.2	2	90	76	822106	808810	<0.2	1.0							
						6.0	0.2	269	22.6		8.1		28.8	28.8	89.2	89.2	6.6	4.1	2	90					<0.2	0.9						
IM10	Fine	Moderate	15:07	8.0	Surface	1.0	0.3	259	22.7	22.7	8.1	8.1	28.8	28.8	82.7	82.8	6.1	2.0	2		52		77	822244	809825	<0.2	0.9	<0.2	0.9			
						1.0	0.3	260	22.7		8.1		28.8	28.8	82.9	82.9	6.1	2.0	2	52												
					Middle	4.0	0.3	264	22.7	22.7	8.1	8.1	28.8	28.8	85.5	85.9	6.3	2.4	2	89	77	822244	809825	<0.2	0.8							
						4.0	0.2	270	22.7		8.1		28.8	28.8	86.2	86.2	6.4	2.4	2	89					<0.2	0.9						
					Bottom	7.0	0.2	276	22.7	22.7	8.1	8.1	28.8	28.8	88.3	88.7	6.5	3.1	<2	90	77	822244	809825	<0.2	1.0							
						7.0	0.1	270	22.7		8.1		28.8	28.8	89.1	89.1	6.6	3.1	<2	90					<0.2	0.9						
IM11	Fine	Moderate	15:22	8.2	Surface	1.0	0.3	271	22.7	22.7	8.1	8.1	28.9	28.9	86.2	86.3	6.4	2.1	2		63		75	821507	810528	<0.2	0.8	<0.2	0.9			
						1.0	0.3	268	22.7		8.1		28.9	28.9	86.4	86.4	6.4	2.1	2	63												
					Middle	4.1	0.3	265	22.6	22.6	8.1	8.1	28.9	28.9	87.0	87.1	6.4	3.7	2	78	75	821507	810528	<0.2	0.9							
						4.1	0.2	258	22.6		8.1		28.9	28.9	87.2	87.2	6.4	3.6	2	78					<0.2	0.9						
					Bottom	7.2	0.2	256	22.6	22.6	8.1	8.1	28.9	28.9	93.0	93.3	6.9	4.3	<2	85	75	821507	810528	<0.2	1.0							
						7.2	0.3	257	22.6		8.1		28.8	28.9	93.6	93.6	6.9	4.3	<2	85					<0.2	1.0						
IM12	Fine	Moderate	15:28	8.0	Surface	1.0	0.3	296	22.7	22.7	8.1	8.1	28.9	28.9	86.2	86.3	6.4	2.0	<2		48		71	821167	811508	<0.2	0.8	<0.2	0.9			
						1.0	0.3	300	22.7		8.1		28.9	28.9	86.4	86.4	6.4	2.0	<2	48												
					Middle	4.0	0.3	270	22.6	22.6	8.1	8.1	28.9	28.9	87.1	87.1	6.4	2.1	<2	79	71	821167	811508	<0.2	0.9							
						4.0	0.3	263	22.6		8.1		28.9	28.9	87.1	87.1	6.4	2.1	<2	79					<0.2	0.9						
					Bottom	7.0	0.3	276	22.6	22.6	8.1	8.1	28.8	28.8	93.1	93.3	6.9	3.1	<2	87	71	821167	811508	<0.2	0.8							
						7.0	0.3	280	22.6		8.1		28.8	28.8	93.4	93.4	6.9	3.1	<2	87					<0.2	0.9						
SR1A	Fine	Moderate	15:58	4.0	Surface	1.0	-	-	22.5	22.5	8.1	8.1	28.8	28.8	82.0	84.0	6.1	2.1	2		-		-	819980	812661	-	-	-	-			
						1.0	-	-	22.5		8.1		28.8	28.8	85.9	84.0	6.4	2.1	3	-	-			-	-							
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	819980	812661			-	-	
						2.0	-	-	-		-	-	-	-	-	-	-	-	-	-	-			-	-		-					
					Bottom	3.0	-	-	22.5	22.5	8.1	8.1	28.8	28.8	87.4	87.8	6.5	3.7	2	-	-	-	-	-	-	819980	812661			-	-	
						3.0	-	-	22.5		8.1		28.8	28.8	88.1	88.1	6.5	3.6	2	-	-			-	-		-					
SR2	Fine	Moderate	16:09	5.2	Surface	1.0	0.1	227	22.7	22.7	8.1	8.1	28.8	28.8	86.6	86.8	6.4	3.1	2		72		87	821458	814178	<0.2	0.9	<0.2	0.9			
						1.0	0.1	233	22.7		8.1		28.8	28.8	86.9	86.8	6.4	3.1	2	72												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	87	821458			814178	-	-
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			-	-		-					
					Bottom	4.2	0.1	251	22.7	22.7	8.1	8.1	28.8	28.8	89.7	90.2	6.6	4.1	2	102	87	821458	814178	<0.2	0.9							
						4.2	0.1	254	22.7		8.1		28.8	28.8	90.7	90.7	6.7	4.1	3	102					<0.2	0.8						
SR3	Fine	Moderate	14:36	9.4	Surface	1.0	0.1	231	22.8	22.8	8.1	8.1	28.6	28.6	86.0	86.1	6.3	2.1	2		-		-	822158	807553	-	-	-	-			
						1.0	0.1	225	22.8		8.1		28.6	28.6	86.1	86.1	6.3	2.1	3	-	-			-	-							
					Middle	4.7	0.1	222	22.8	22.8	8.1	8.1	28.6	28.6	87.2	87.5	6.4	3.1	3	-	-	-	-	-	-	822158	807553			-	-	
						4.7	0.1	215	22.8		8.1		28.6	28.6	87.8	87.8	6.5	3.1	2	-	-			-	-		-					
					Bottom	8.4	0.1	224	22.7	22.7	8.1	8.1	28.6	28.6	90.1	90.3	6.7	4.1	<2	-	-	-	-	-	-	822158	807553			-	-	
						8.4	0.1	220	22.7		8.1		28.6	28.6	90.4	90.4	6.7	4.1	<2	-	-			-	-		-					
SR4A	Cloudy	Moderate	16:32	8.4	Surface	1.0	0.1	171	23.2	23.2	8.2	8.2	29.9	29.9	94.6	94.6	6.8	6.1	<2		-		-	817170	807829	-	-	-	-			
						1.0	0.0	169	23.2		8.2		29.9	29.9	94.5	94.5	6.8	6.2	<2	-	-			-	-							
					Middle	4.2	0.0	186	23.0	23.0	8.3	8.3	30.0	30.0	92.6	92.6	6.7	1.5	<2	-	-	<2	-	-	-	817170	807829			-	-	
						4.2	0.1	185	23.0		8.3		30.0	30.0	92.5	92.5	6.7	1.6	<2	-	-	<2	-	-			-			-		
					Bottom	7.4	0.1	165	22.9	23.0	8.3	8.3	30.0	30.0	91.9	91.9	6.6	8.8	<2	-	-	<2	-	-	-	-	817170			807829	-	-
						7.4	0.1	170	23.0		8.3		30.0	30.0	91.9	91.9	6.6	8.6	<2	-	-	<2	-	-			-			-		
SR5A	Cloudy	Moderate	16:47	3.7	Surface	1.0	0.1	305	23.3	23.3	8.2	8.2	29.6	29.7	92.2	92.1	6.6	4.0	3		-		-	816575	810685	-	-	-	-			
						1.0	0.1	297	23.3		8.2		29.7	29.7	92.0	92.0	6.6	4.0	2	-	-			-	-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	816575	810685			-	-	
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			-	-		-					
					Bottom	2.7	0.1	318	23.2	23.3	8.2	8.2	29.7	29.7	91.1	91.2	6.6	10.1	<2	-	-	<2	-	-	-	-	816575			810685	-	-
						2.7	0.1	316	23.3		8.2		29.7	29.7	91.2	91.2	6.6	10.3	<2	-	-	<2	-	-			-			-		
SR6	Cloudy	Moderate	17:12	4.0	Surface	1.0	0.1	246	23.1	23.1	8.2	8.2	29.1	29.1	89.1	89.1	6.5	3.6	<2		-		-	817883	814662	-	-	-	-			
						1.0	0.1	239	23.1		8.2		29.1	29.1	89.1	89.1	6.5	3.6	<2	-	-	<2	-	-			-			-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	817883	814662			-	-	
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			-	-		-					
					Bottom	3.0	0.1	230	23.2	23.2	8.2	8.2	29.0	29.0	89.7	89.8	6.5	6.5	<2	-	-	<2	-	-	-	-	817883			814662	-	-
						3.0	0.1	230	23.2		8.2		29.0	29.0	89.8	89.8	6.5	6.5	<2	-	-	<2	-	-			-			-		
SR7	Fine	Moderate	17:00	14.2	Surface	1.0	0.9	250	22.7	22.7	8.1	8.1	27.7	27.7	85.5	85.7	6.3	1.5	2		-		-	823658	823738	-	-	-	-			
						1.0	0.9	246	22.7		8.1		27.7	27.7	85.8	85.8	6.4	1.5	2	-	-			-	-							
					Middle	7.1	1.0	236	22.7	22.7	8.1	8.1	27.7	27.7	86.4	86.6	6.4	1.9	3	-	-	2	-	-	-	823658	823738			-	-	
						7.1	1.0	237	22.7		8.1		27.7	27.7	86.7	86.7	6.4	1.9	3	-	-			-	-		-					
					Bottom	13.2	0.9	257	22.7	22.7	8.1	8.1	27.7	27.7	88.6	90.2	6.6	3.0	2	-	-	<2	-	-	-	-	823658			823738	-	-
						13.2	0.9	250	22.7		8.1		27.7	27.7	91.8	91.8	6.8	3.0	2	-	-	<2	-	-			-			-		
SR8	Fine	Moderate	15:42	4.8	Surface	1.0	-	-	22.7	22.7	8.1	8.1	28.8	28.8	82.9	82.9	6.1	4.6	2		-		-	820375	811628	-	-	-	-			
						1.0	-	-	22.7		8.1		28.8	28.8	82.9	82.9	6.1	4.6	2	-	-			-	-							
					Middle	-	-	-	-	-	-	-																				



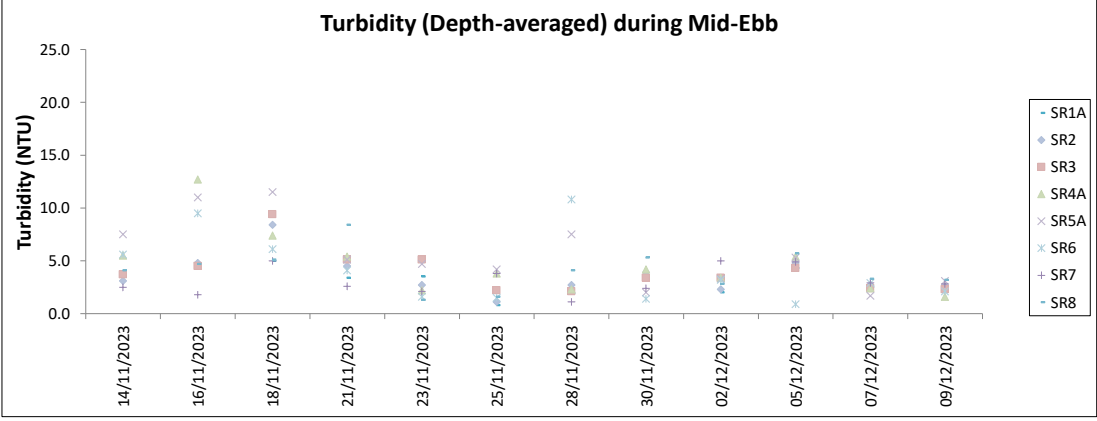
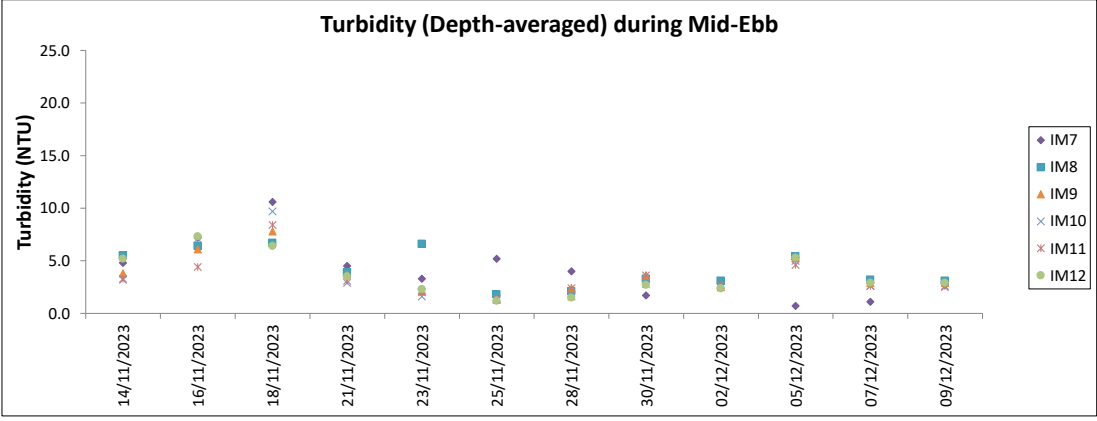
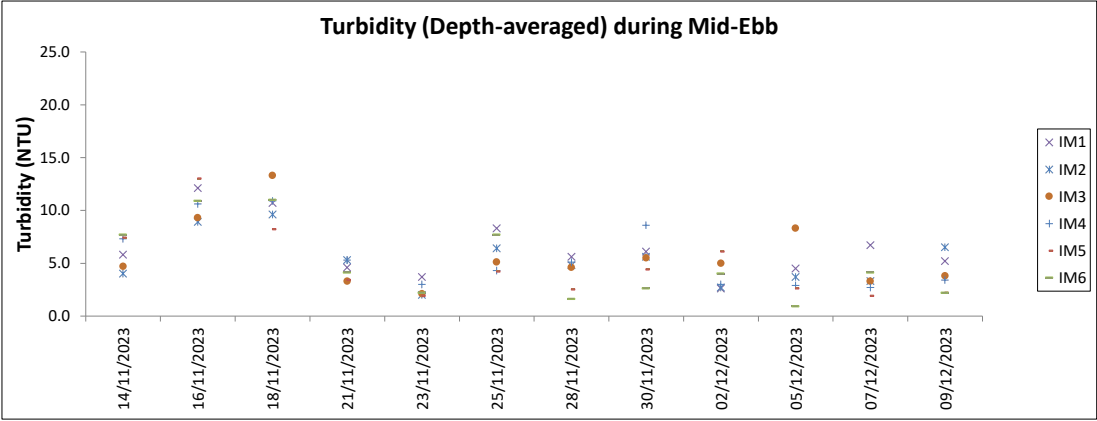
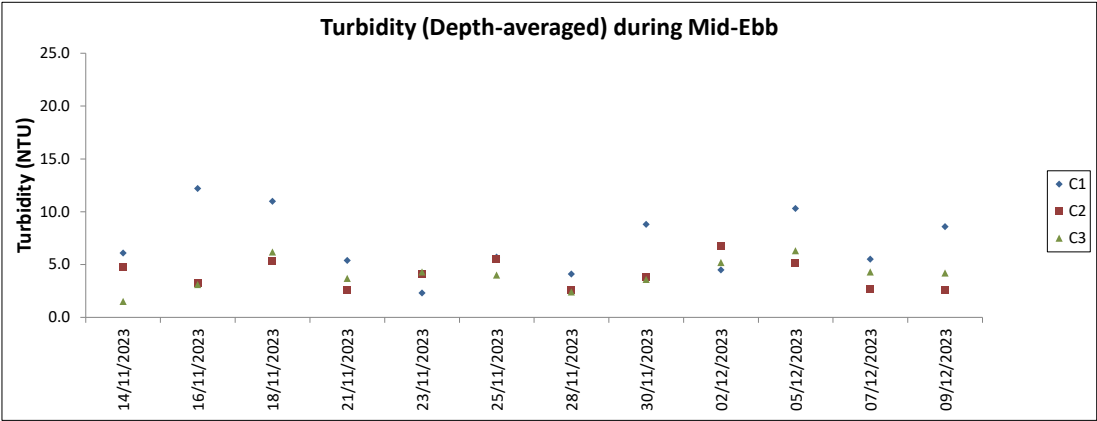


Note:
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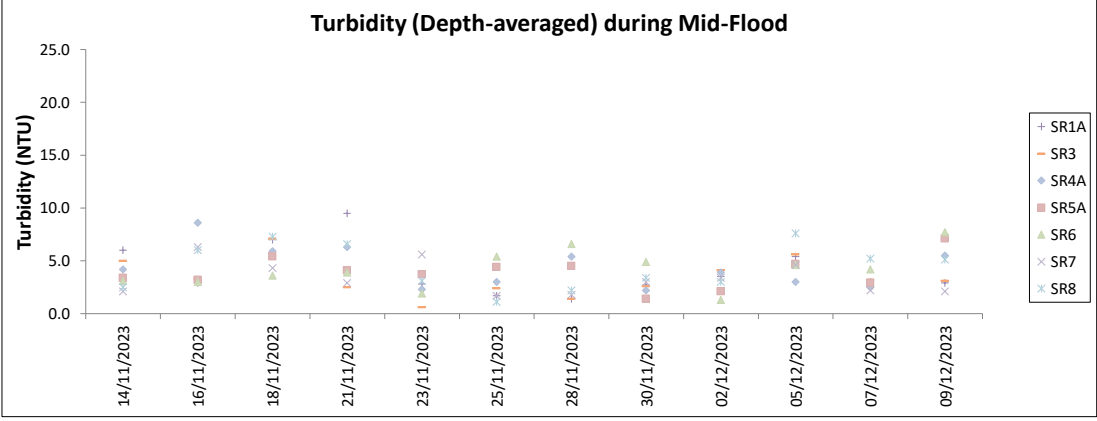
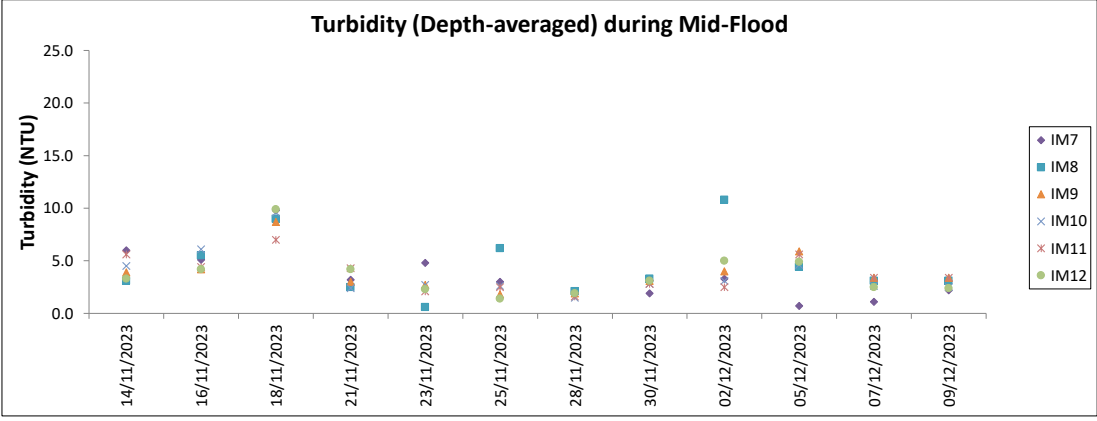
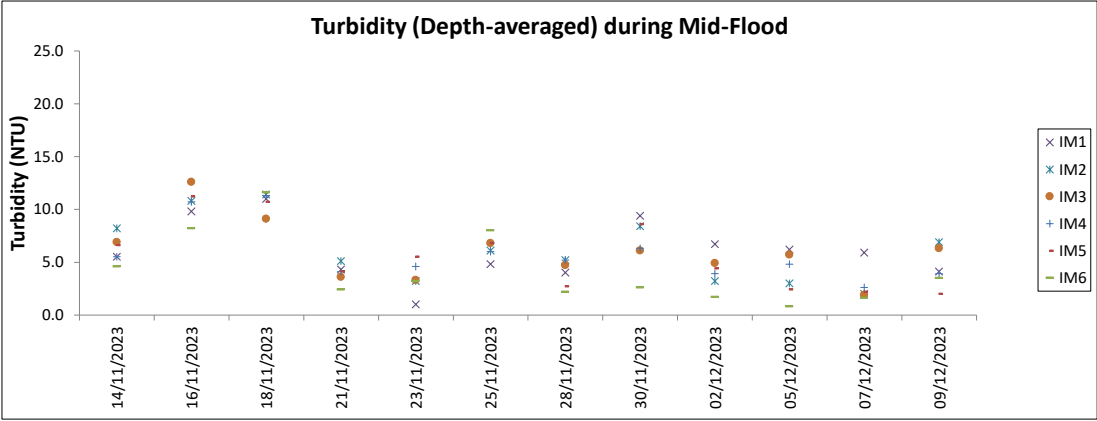
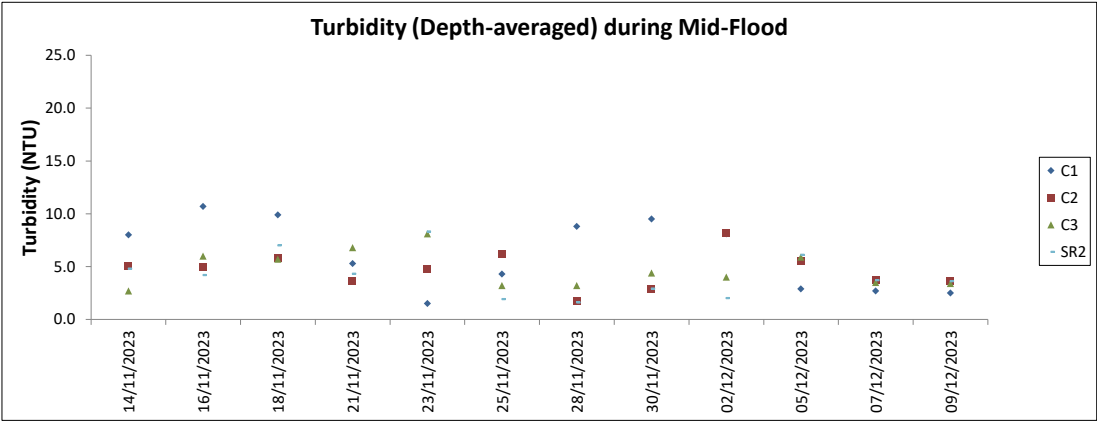




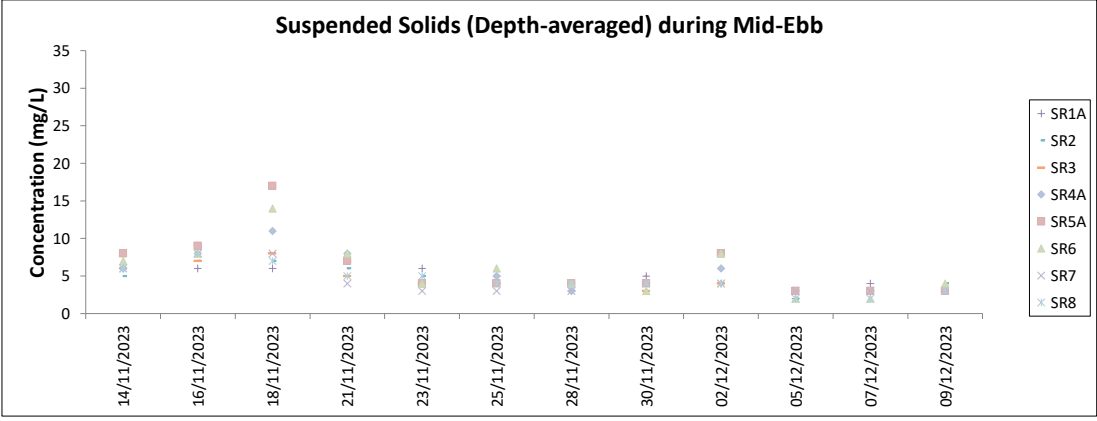
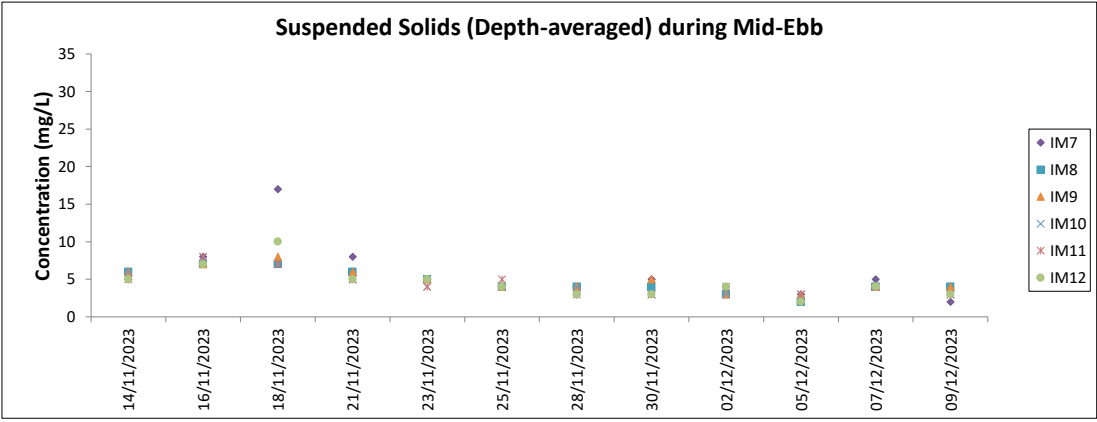
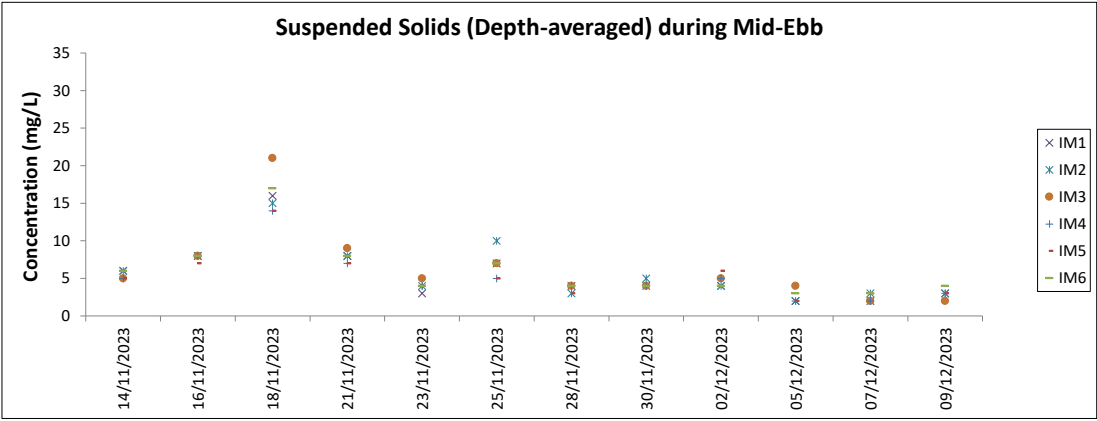
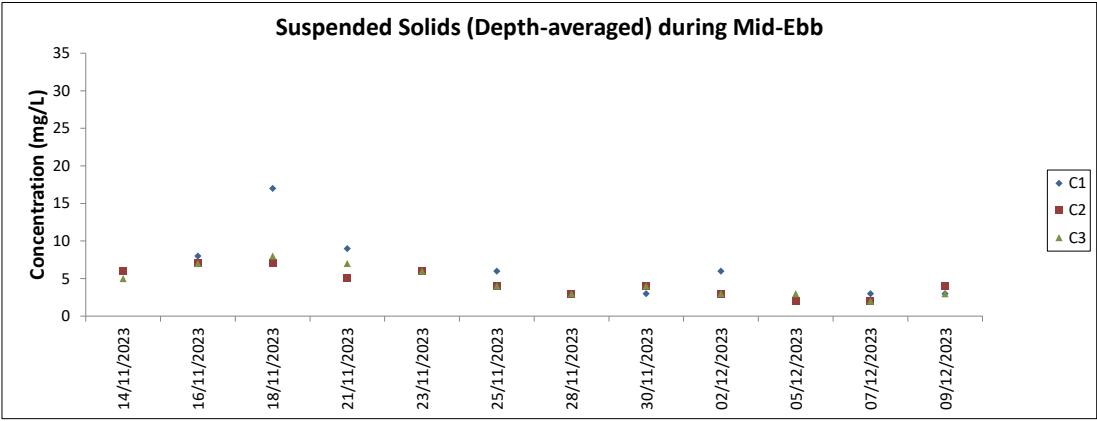
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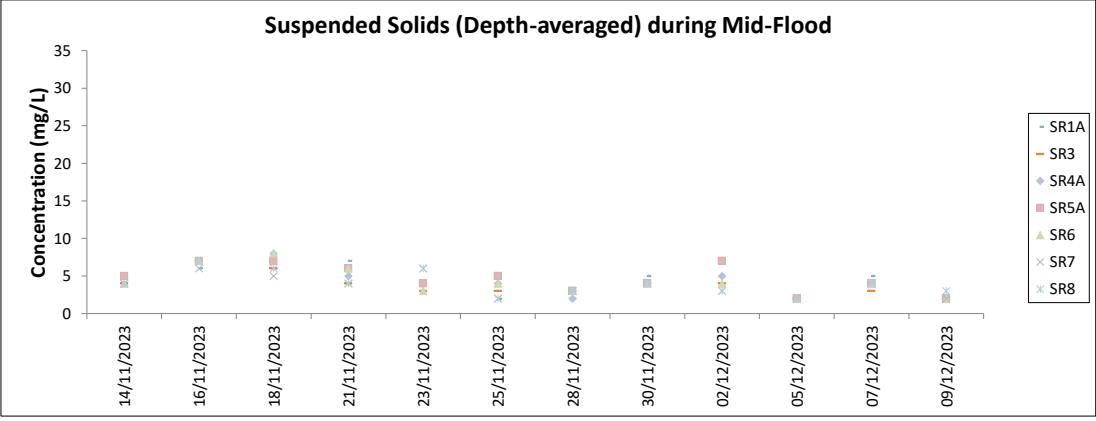
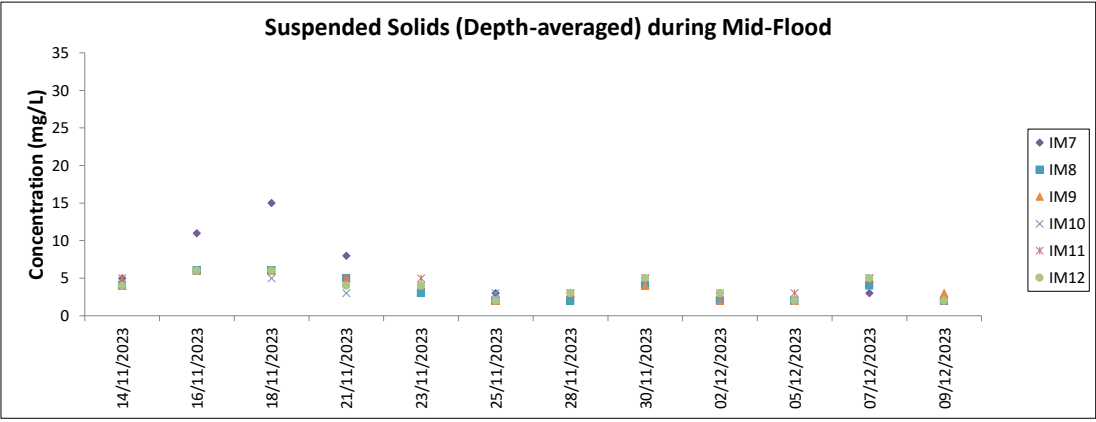
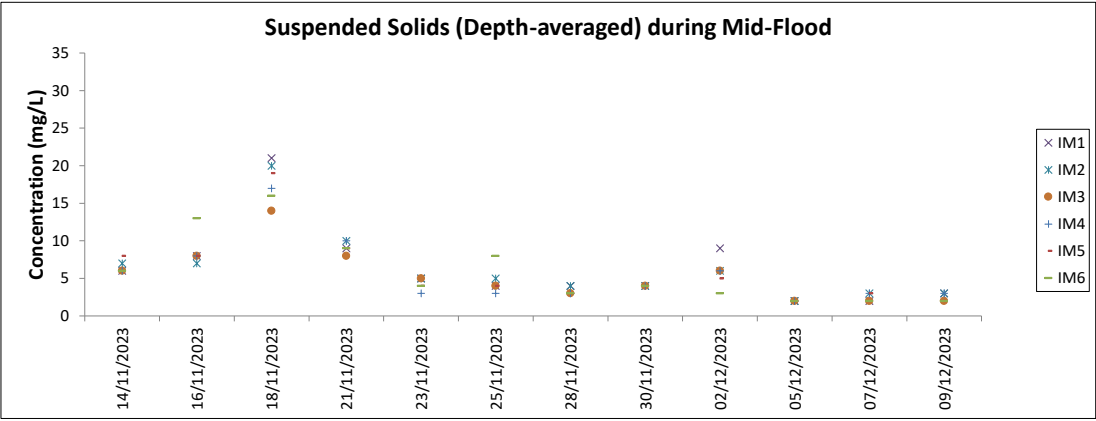
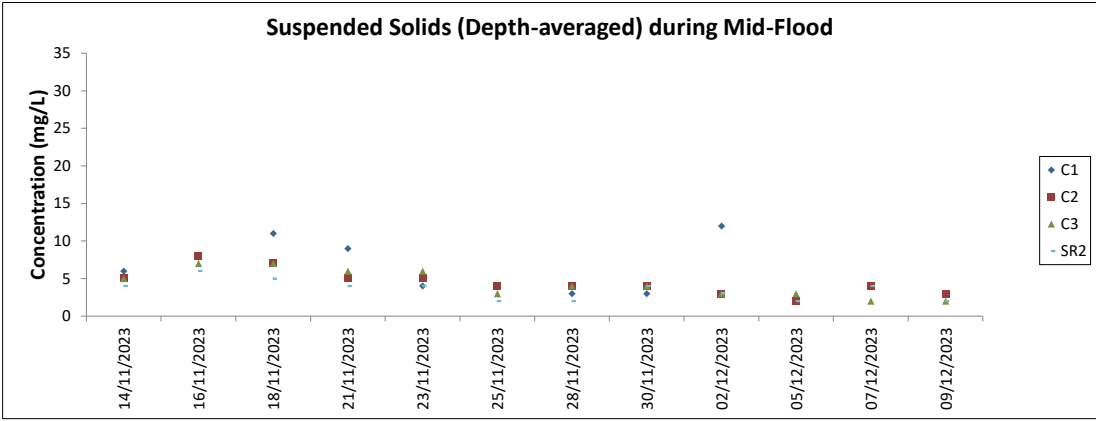
Note:
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Note:

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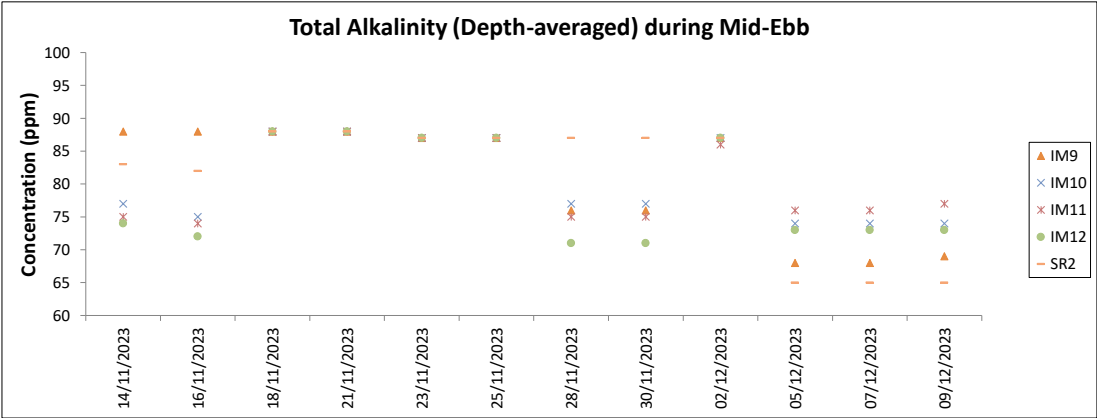
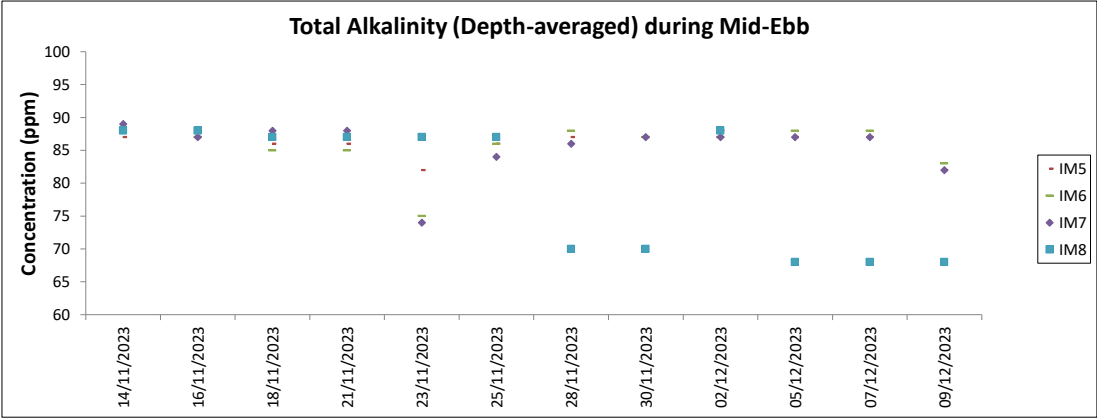
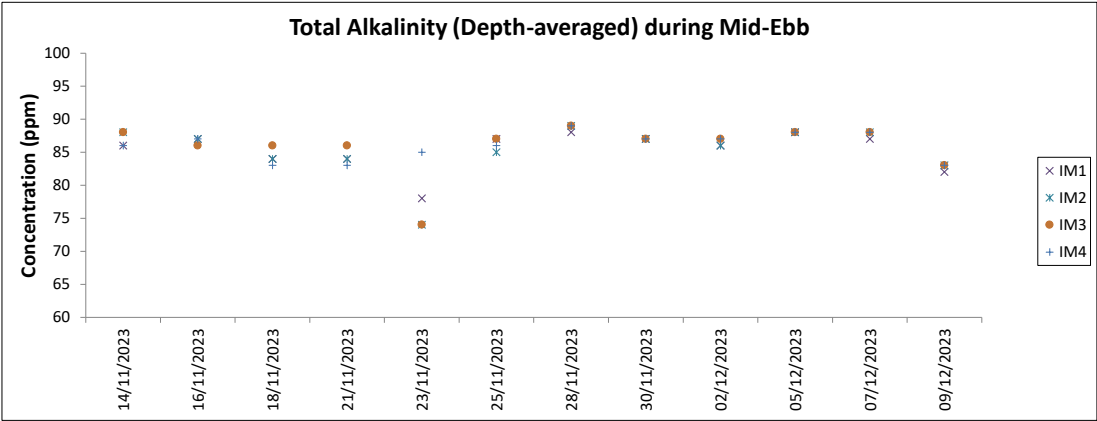
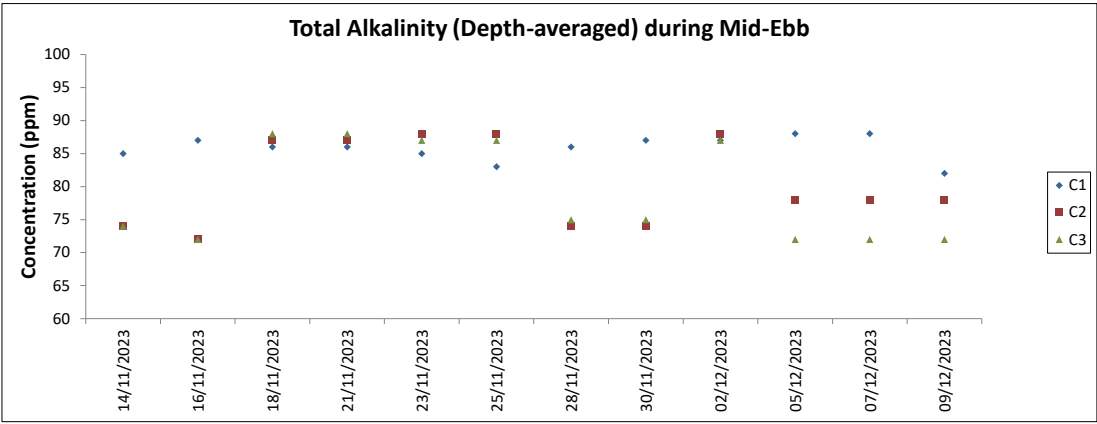
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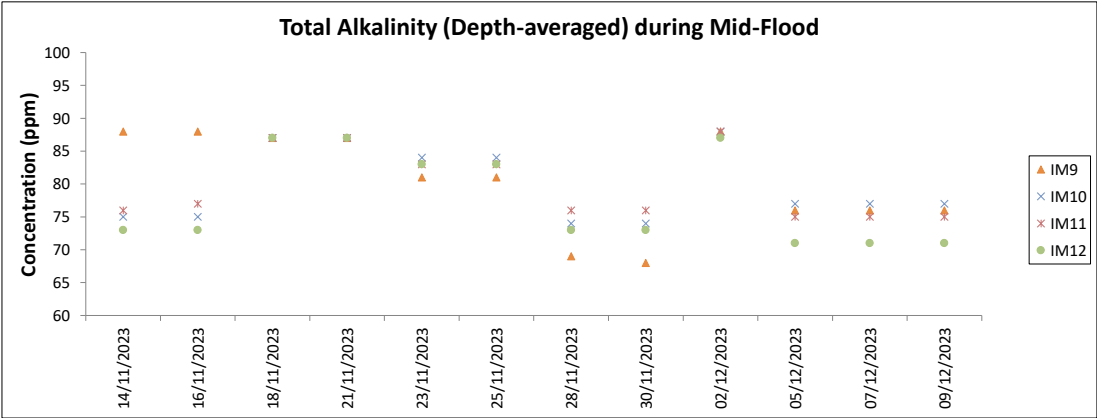
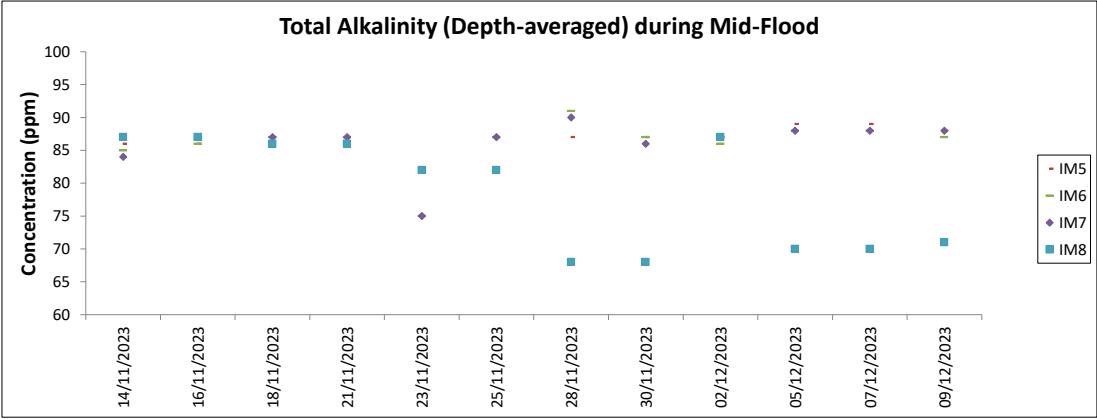
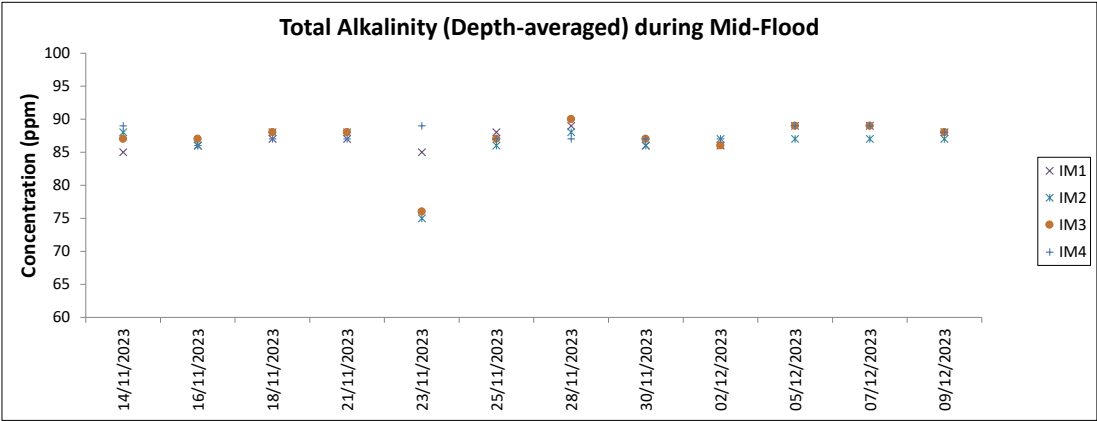
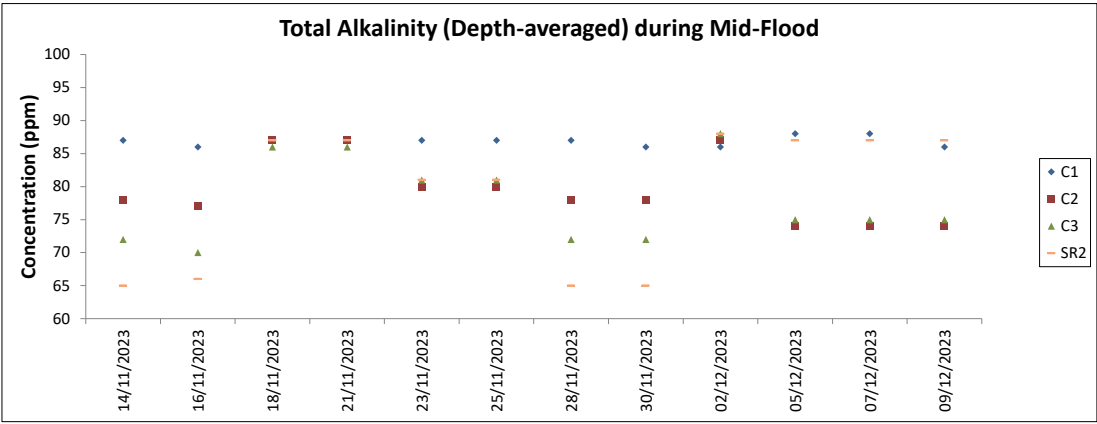
Note:

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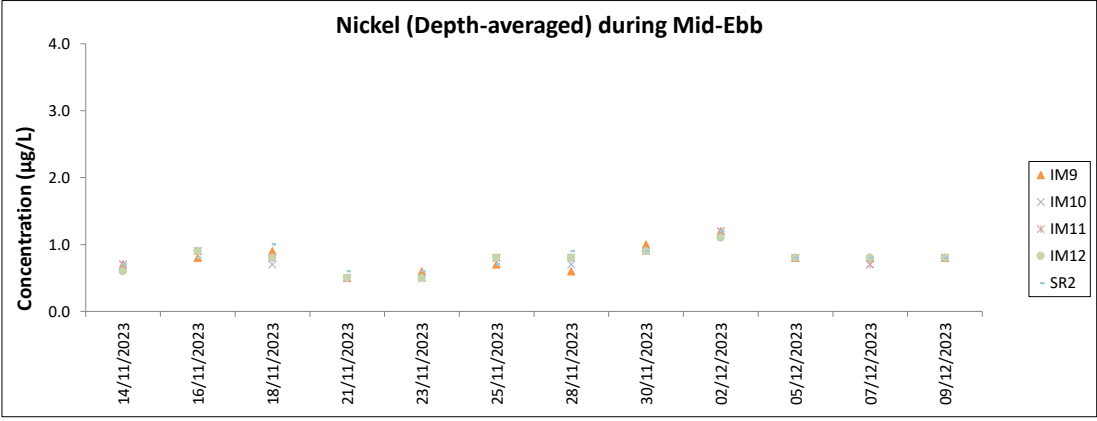
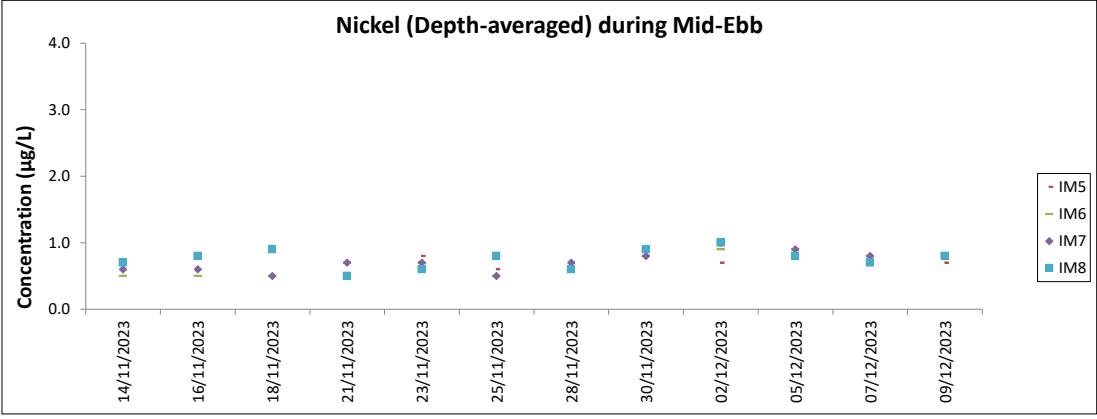
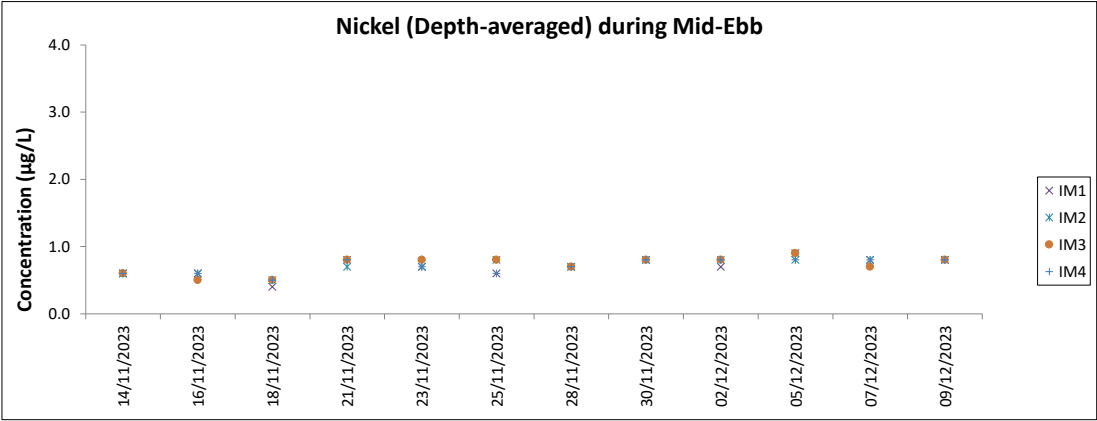
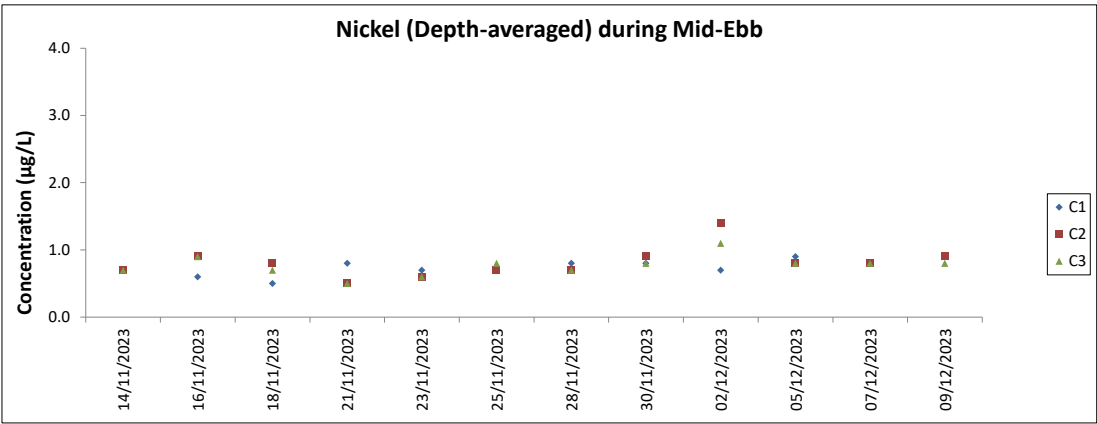
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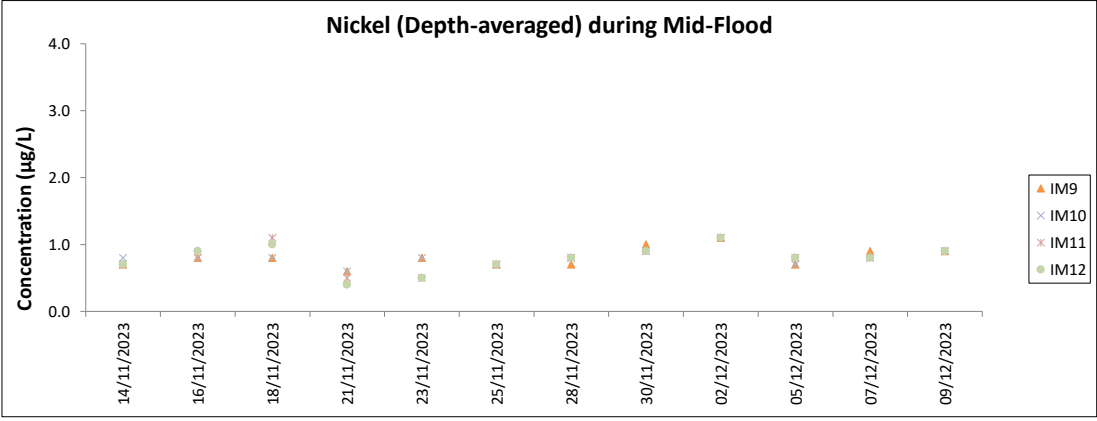
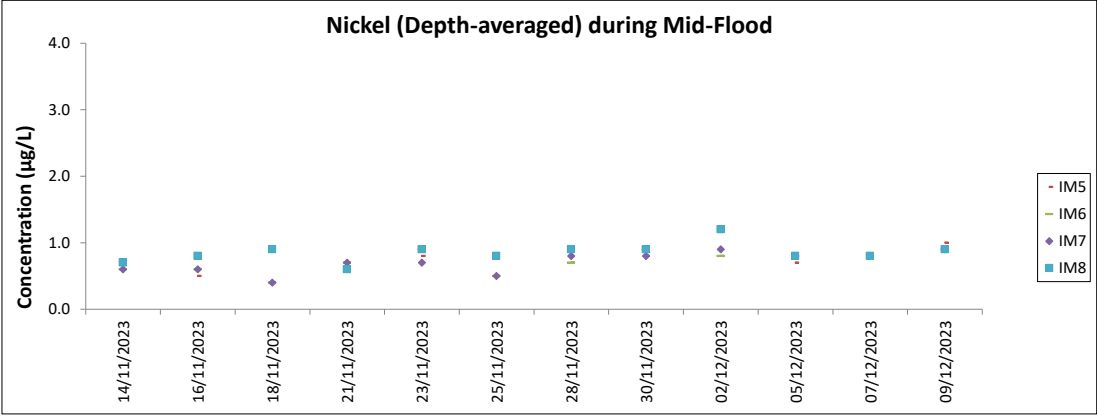
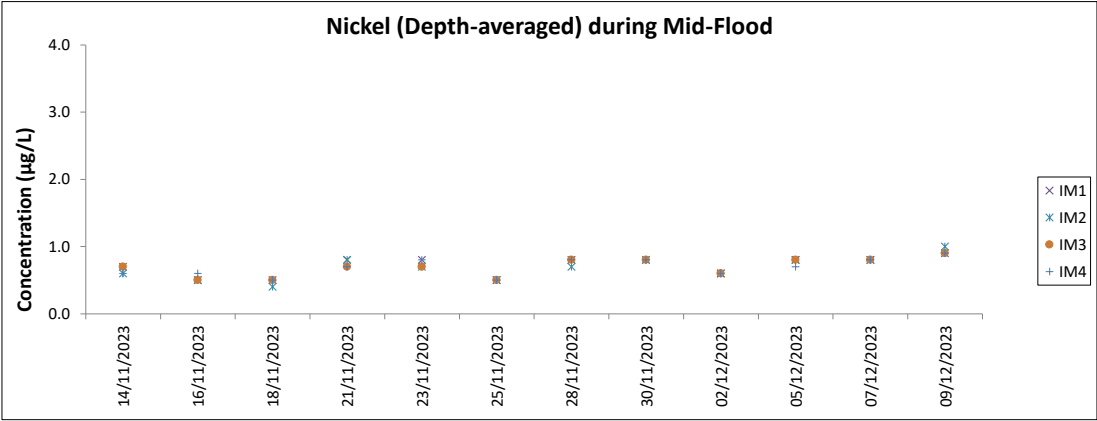
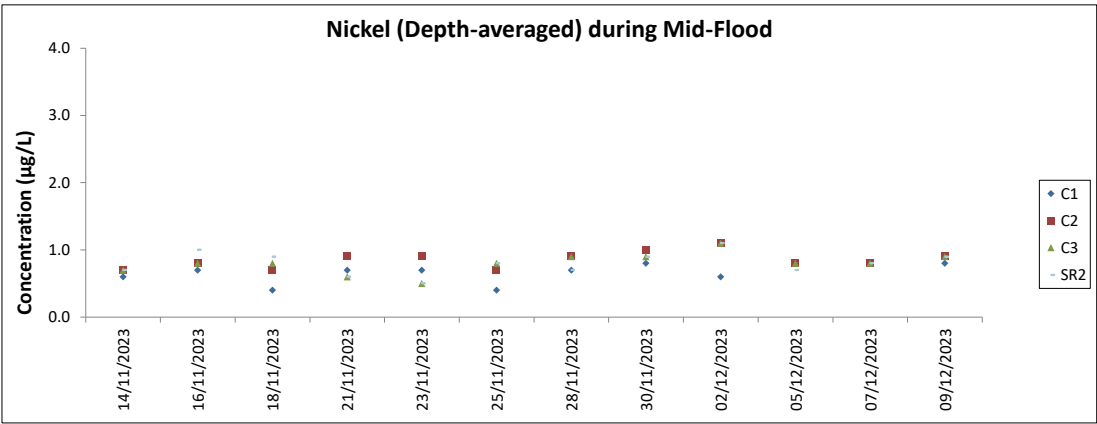
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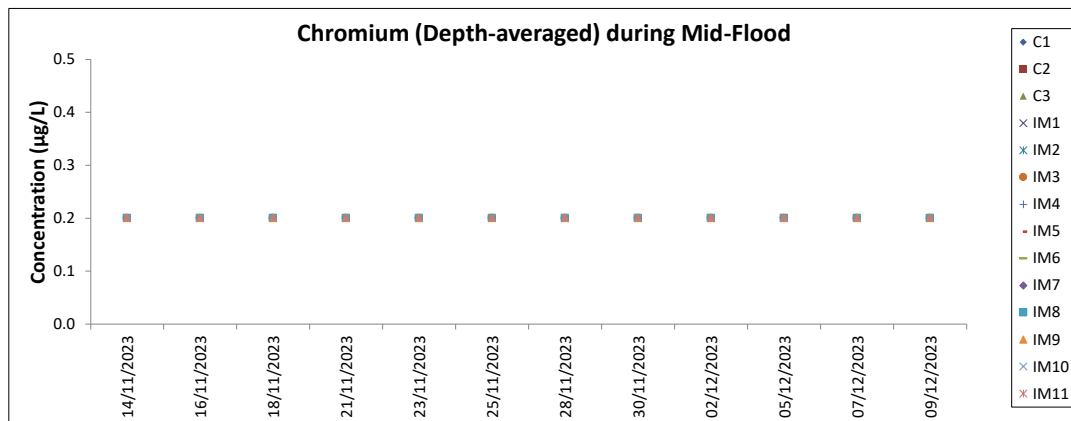
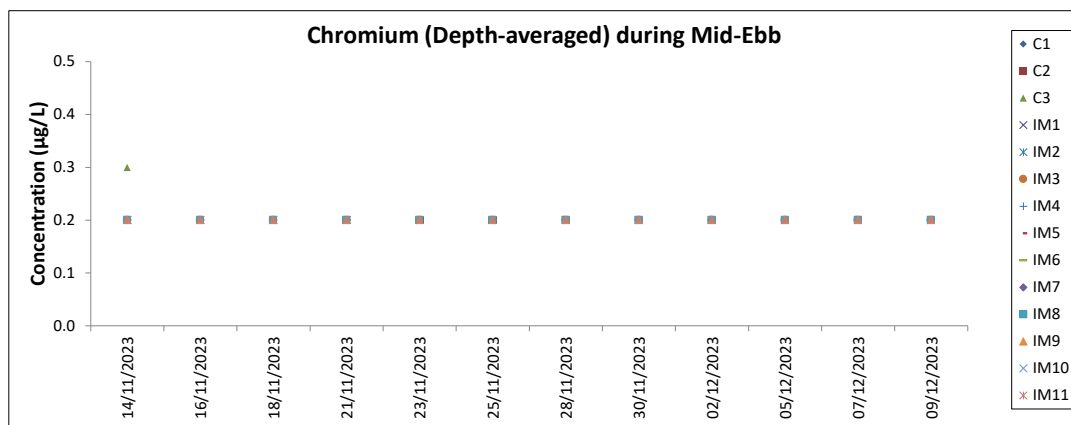
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 Weather conditions during monitoring are presented in the data tables above.
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Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
06-Oct-23	NEL	2	26.24	AUTUMN	32166	3RS ET	P
06-Oct-23	NEL	3	10.33	AUTUMN	32166	3RS ET	P
06-Oct-23	NEL	2	6.37	AUTUMN	32166	3RS ET	S
06-Oct-23	NEL	3	4.39	AUTUMN	32166	3RS ET	S
12-Oct-23	NWL	2	11.4	AUTUMN	32166	3RS ET	P
12-Oct-23	NWL	3	52.8	AUTUMN	32166	3RS ET	P
12-Oct-23	NWL	2	4.3	AUTUMN	32166	3RS ET	S
12-Oct-23	NWL	3	7.3	AUTUMN	32166	3RS ET	S
13-Oct-23	AW	2	1.7	AUTUMN	32166	3RS ET	P
13-Oct-23	AW	3	3.03	AUTUMN	32166	3RS ET	P
13-Oct-23	WL	2	11.126	AUTUMN	32166	3RS ET	P
13-Oct-23	WL	3	7.776	AUTUMN	32166	3RS ET	P
13-Oct-23	WL	2	4.944	AUTUMN	32166	3RS ET	S
13-Oct-23	WL	3	5.384	AUTUMN	32166	3RS ET	S
16-Oct-23	NWL	3	63.8	AUTUMN	32166	3RS ET	P
16-Oct-23	NWL	3	11.8	AUTUMN	32166	3RS ET	S
17-Oct-23	NEL	2	1.7	AUTUMN	32166	3RS ET	P
17-Oct-23	NEL	3	33.64	AUTUMN	32166	3RS ET	P
17-Oct-23	NEL	2	4.5	AUTUMN	32166	3RS ET	S
17-Oct-23	NEL	3	7.26	AUTUMN	32166	3RS ET	S
20-Oct-23	AW	3	4.52	AUTUMN	32166	3RS ET	P
20-Oct-23	WL	2	4.763	AUTUMN	32166	3RS ET	P
20-Oct-23	WL	3	15.33	AUTUMN	32166	3RS ET	P
20-Oct-23	WL	2	2.967	AUTUMN	32166	3RS ET	S
20-Oct-23	WL	3	7.67	AUTUMN	32166	3RS ET	S
26-Oct-23	SWL	3	53.33	AUTUMN	32166	3RS ET	P
26-Oct-23	SWL	3	14.97	AUTUMN	32166	3RS ET	S
27-Oct-23	SWL	2	8.81	AUTUMN	32166	3RS ET	P
27-Oct-23	SWL	3	45.261	AUTUMN	32166	3RS ET	P
27-Oct-23	SWL	2	3.59	AUTUMN	32166	3RS ET	S
27-Oct-23	SWL	3	12.389	AUTUMN	32166	3RS ET	S
06-Nov-23	SWL	2	35.185	AUTUMN	32166	3RS ET	P
06-Nov-23	SWL	3	16.77	AUTUMN	32166	3RS ET	P
06-Nov-23	SWL	2	12.371	AUTUMN	32166	3RS ET	S
06-Nov-23	SWL	3	3.57	AUTUMN	32166	3RS ET	S
07-Nov-23	NEL	2	12.86	AUTUMN	32166	3RS ET	P
07-Nov-23	NEL	3	18.4	AUTUMN	32166	3RS ET	P
07-Nov-23	NEL	1	5	AUTUMN	32166	3RS ET	P
07-Nov-23	NEL	2	7.64	AUTUMN	32166	3RS ET	S
07-Nov-23	NEL	3	1.1	AUTUMN	32166	3RS ET	S
07-Nov-23	NEL	1	1.7	AUTUMN	32166	3RS ET	S
09-Nov-23	NWL	2	0.9	AUTUMN	32166	3RS ET	P
09-Nov-23	NWL	3	59.3	AUTUMN	32166	3RS ET	P
09-Nov-23	NWL	3	10.2	AUTUMN	32166	3RS ET	S
13-Nov-23	AW	3	6.49	AUTUMN	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
13-Nov-23	WL	3	9.799	AUTUMN	32166	3RS ET	P
13-Nov-23	WL	3	8.121	AUTUMN	32166	3RS ET	S
14-Nov-23	NWL	2	22.6	AUTUMN	32166	3RS ET	P
14-Nov-23	NWL	3	41	AUTUMN	32166	3RS ET	P
14-Nov-23	NWL	3	6	AUTUMN	32166	3RS ET	S
14-Nov-23	NWL	2	5.8	AUTUMN	32166	3RS ET	S
15-Nov-23	AW	2	1.34	AUTUMN	32166	3RS ET	P
15-Nov-23	AW	3	2.96	AUTUMN	32166	3RS ET	P
15-Nov-23	WL	2	0.25	AUTUMN	32166	3RS ET	P
15-Nov-23	WL	3	18.362	AUTUMN	32166	3RS ET	P
15-Nov-23	WL	2	1.13	AUTUMN	32166	3RS ET	S
15-Nov-23	WL	3	8.41	AUTUMN	32166	3RS ET	S
16-Nov-23	NEL	2	6.91	AUTUMN	32166	3RS ET	P
16-Nov-23	NEL	3	26.11	AUTUMN	32166	3RS ET	P
16-Nov-23	NEL	2	2.96	AUTUMN	32166	3RS ET	S
16-Nov-23	NEL	3	7.02	AUTUMN	32166	3RS ET	S
20-Nov-23	SWL	2	36.96	AUTUMN	32166	3RS ET	P
20-Nov-23	SWL	3	15.97	AUTUMN	32166	3RS ET	P
20-Nov-23	SWL	2	13.26	AUTUMN	32166	3RS ET	S
20-Nov-23	SWL	3	3.3	AUTUMN	32166	3RS ET	S
04-Dec-23	NWL	2	26.3	WINTER	32166	3RS ET	P
04-Dec-23	NWL	3	37.6	WINTER	32166	3RS ET	P
04-Dec-23	NWL	2	6.3	WINTER	32166	3RS ET	S
04-Dec-23	NWL	3	4.9	WINTER	32166	3RS ET	S
11-Dec-23	SWL	1	4.81	WINTER	32166	3RS ET	P
11-Dec-23	SWL	2	48.72	WINTER	32166	3RS ET	P
11-Dec-23	SWL	2	15.11	WINTER	32166	3RS ET	S
13-Dec-23	NEL	3	36.57	WINTER	32166	3RS ET	P
13-Dec-23	NEL	3	10.23	WINTER	32166	3RS ET	S
14-Dec-23	NWL	2	54	WINTER	32166	3RS ET	P
14-Dec-23	NWL	3	9.8	WINTER	32166	3RS ET	P
14-Dec-23	NWL	2	9.6	WINTER	32166	3RS ET	S
14-Dec-23	NWL	3	1.4	WINTER	32166	3RS ET	S
18-Dec-23	NEL	2	29.453	WINTER	32166	3RS ET	P
18-Dec-23	NEL	3	7.597	WINTER	32166	3RS ET	P
18-Dec-23	NEL	2	5.64	WINTER	32166	3RS ET	S
18-Dec-23	NEL	3	4.2	WINTER	32166	3RS ET	S
19-Dec-23	AW	3	4.89	WINTER	32166	3RS ET	P
19-Dec-23	WL	3	8.79	WINTER	32166	3RS ET	P
19-Dec-23	WL	3	4.71	WINTER	32166	3RS ET	S
27-Dec-23	AW	2	4.74	WINTER	32166	3RS ET	P
27-Dec-23	WL	2	11.071	WINTER	32166	3RS ET	P
27-Dec-23	WL	3	3.212	WINTER	32166	3RS ET	P
27-Dec-23	WL	2	9.414	WINTER	32166	3RS ET	S
27-Dec-23	WL	3	1.09	WINTER	32166	3RS ET	S
28-Dec-23	SWL	2	33.05	WINTER	32166	3RS ET	P
28-Dec-23	SWL	3	20.81	WINTER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
28-Dec-23	SWL	2	11.57	WINTER	32166	3RS ET	S
28-Dec-23	SWL	3	3.49	WINTER	32166	3RS ET	S

CWD Small Vessel Line-transect Survey

Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
13-Oct-23	1	1028	CWD	2	WL	2	243	ON	KJ	3RS ET	22.260779	113.853468	AUTUMN	S
13-Oct-23	2	1043	CWD	2	WL	2	34	ON	KN	3RS ET	22.260956	113.840829	AUTUMN	P
13-Oct-23	3	1058	CWD	1	WL	3	91	ON	KJ	3RS ET	22.250437	113.841275	AUTUMN	P
13-Oct-23	4	1117	CWD	9	WL	2	126	ON	KN	3RS ET	22.241167	113.841706	AUTUMN	P
13-Oct-23	5	1149	CWD	3	WL	2	139	ON	KJ	3RS ET	22.241672	113.829845	AUTUMN	P
20-Oct-23	1	1149	CWD	2	WL	2	15	ON	JTA	3RS ET	22.196308	113.834539	AUTUMN	P
27-Oct-23	1	1202	FP	2	SWL	3	45	ON	DC	3RS ET	22.151171	113.908504	AUTUMN	P
27-Oct-23	2	1216	CWD	1	SWL	2	128	ON	DC	3RS ET	22.168029	113.906685	AUTUMN	S
06-Nov-23	1	1038	FP	6	SWL	2	144	ON	KJ	3RS ET	22.179714	113.936292	AUTUMN	P
06-Nov-23	2	1041	FP	4	SWL	2	55	ON	JT	3RS ET	22.174271	113.936089	AUTUMN	P
06-Nov-23	3	1050	FP	3	SWL	2	442	ON	JT	3RS ET	22.159022	113.936224	AUTUMN	P
06-Nov-23	4	1058	FP	1	SWL	2	52	ON	KJ	3RS ET	22.145772	113.931080	AUTUMN	S
06-Nov-23	5	1102	FP	5	SWL	2	113	ON	JT	3RS ET	22.147034	113.927694	AUTUMN	P
06-Nov-23	6	1114	FP	2	SWL	2	40	ON	IY	3RS ET	22.168425	113.927825	AUTUMN	P
06-Nov-23	7	1435	CWD	5	SWL	2	160	ON	IY	3RS ET	22.199740	113.860026	AUTUMN	S
06-Nov-23	8	1509	CWD	15	SWL	3	398	ON	KJ	3RS ET	22.185090	113.849075	AUTUMN	P
13-Nov-23	1	1121	CWD	8	WL	3	32	ON	JUT	3RS ET	22.223555	113.836856	AUTUMN	S
13-Nov-23	2	1204	CWD	5	WL	3	4	ON	JT	3RS ET	22.214224	113.831569	AUTUMN	P
15-Nov-23	1	0939	CWD	3	AW	2	463	ON	IY	3RS ET	22.293376	113.877038	AUTUMN	P
15-Nov-23	2	1022	CWD	1	WL	3	247	ON	IY	3RS ET	22.284568	113.861728	AUTUMN	P
15-Nov-23	3	1102	CWD	1	WL	3	208	ON	IY	3RS ET	22.260917	113.845227	AUTUMN	P
15-Nov-23	4	1131	CWD	3	WL	3	449	ON	DC	3RS ET	22.242099	113.836970	AUTUMN	P
15-Nov-23	5	1205	CWD	3	WL	3	190	ON	KJ	3RS ET	22.224754	113.837304	AUTUMN	S
15-Nov-23	6	1213	CWD	2	WL	3	470	ON	KJ	3RS ET	22.223496	113.823713	AUTUMN	P
15-Nov-23	7	1220	CWD	2	WL	3	650	ON	KJ	3RS ET	22.215539	113.819722	AUTUMN	S
20-Nov-23	1	1042	FP	2	SWL	3	180	ON	JT	3RS ET	22.173928	113.935982	AUTUMN	P
20-Nov-23	2	1104	FP	1	SWL	2	37	ON	JT	3RS ET	22.158240	113.927296	AUTUMN	P
20-Nov-23	3	1115	FP	2	SWL	2	233	ON	JUT	3RS ET	22.180467	113.928151	AUTUMN	P
20-Nov-23	4	1156	FP	2	SWL	2	113	ON	KN	3RS ET	22.146640	113.917842	AUTUMN	P
11-Dec-23	1	1243	CWD	1	SWL	2	285	ON	KN	3RS ET	22.202903	113.897445	WINTER	P
11-Dec-23	2	1339	CWD	2	SWL	2	180	ON	KN	3RS ET	22.195981	113.887741	WINTER	P

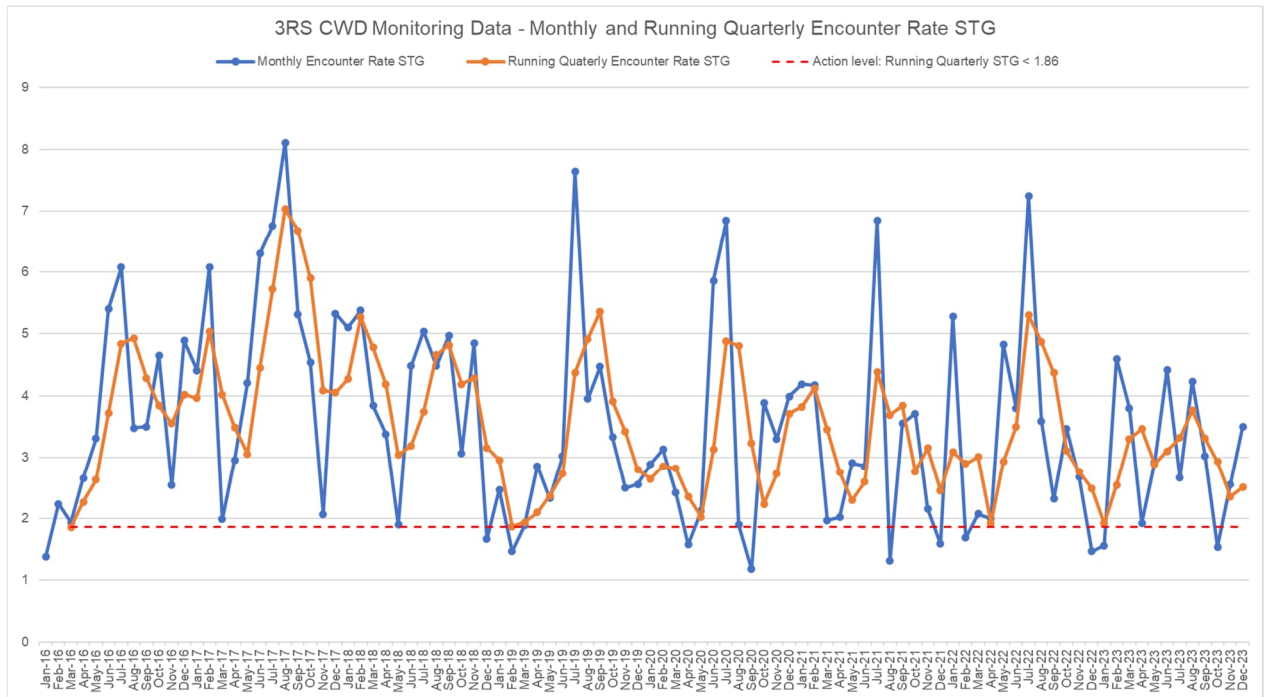
DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
11-Dec-23	3	1423	CWD	2	SWL	2	274	ON	KJ	3RS ET	22.179612	113.878398	WINTER	P
11-Dec-23	4	1445	CWD	2	SWL	2	594	ON	KJ	3RS ET	22.176185	113.868402	WINTER	P
27-Dec-23	1	1004	CWD	1	WL	2	489	ON	JTA	3RS ET	22.290284	113.861290	WINTER	P
27-Dec-23	2	1033	CWD	2	WL	2	16	ON	JT	3RS ET	22.269684	113.844927	WINTER	S
27-Dec-23	3	1041	CWD	1	WL	2	1	ON	KJ	3RS ET	22.269091	113.852531	WINTER	P
27-Dec-23	4	1057	CWD	5	WL	2	413	ON	JT	3RS ET	22.261197	113.852742	WINTER	P
27-Dec-23	5	1154	CWD	1	WL	2	72	ON	JTA	3RS ET	22.222960	113.833060	WINTER	P
27-Dec-23	6	1203	CWD	2	WL	2	26	ON	JT	3RS ET	22.223131	113.828200	WINTER	P
27-Dec-23	7	1216	CWD	6	WL	2	420	ON	JT	3RS ET	22.223018	113.824091	WINTER	P
27-Dec-23	8	1239	CWD	2	WL	3	99	ON	KJ	3RS ET	22.213960	113.823082	WINTER	P
27-Dec-23	9	1253	CWD	2	WL	2	631	ON	KJ	3RS ET	22.206000	113.838122	WINTER	P
27-Dec-23	10	1310	CWD	1	WL	2	12	ON	JT	3RS ET	22.195912	113.830588	WINTER	P
28-Dec-23	1	1313	FP	1	SWL	2	29	ON	JT	3RS ET	22.151581	113.889482	WINTER	S
28-Dec-23	2	1348	CWD	1	SWL	2	43	ON	IY	3RS ET	22.204239	113.878238	WINTER	P

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

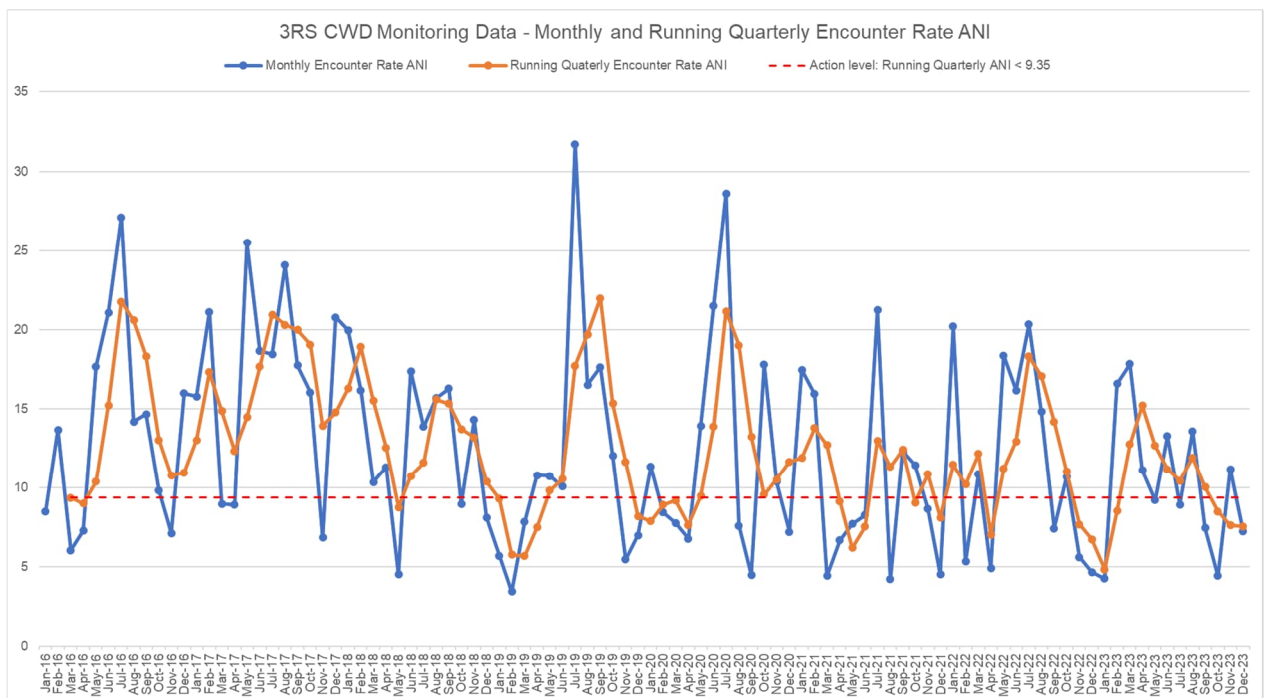
Sighting data of finless porpoise (FP) are presented for reference only. No relevant figure or text will be mentioned in the quarterly EM&A report. All FP sightings are excluded in calculation.

Graphical Presentation of Monthly and Running Quarterly Encounter Rates for the entire monitoring period

Encounter Rate STG:











Encounter Rate ANI:



CWD Small Vessel Line-transect Survey

Photo Identification

	
NLMM001	NLMM023
	
NLMM041	NLMM058
	
SLMM002	SLMM003
	
SLMM007	SLMM010



SLMM014



SLMM022



SLMM023



SLMM031



SLMM034



SLMM037



SLMM044



SLMM050



SLMM052



SLMM055



SLMM058



SLMM060



SLMM064



SLMM070



WLMM001



WLMM003



WLMM007



WLMM056



WLMM065



WLMM068



WLMM071



WLMM079



WLMM109



WLMM112



WLMM113



WLMM118



WLMM149



WLMM150



WLMM162 (Lower)



WLMM168



WLMM192



WLMM193


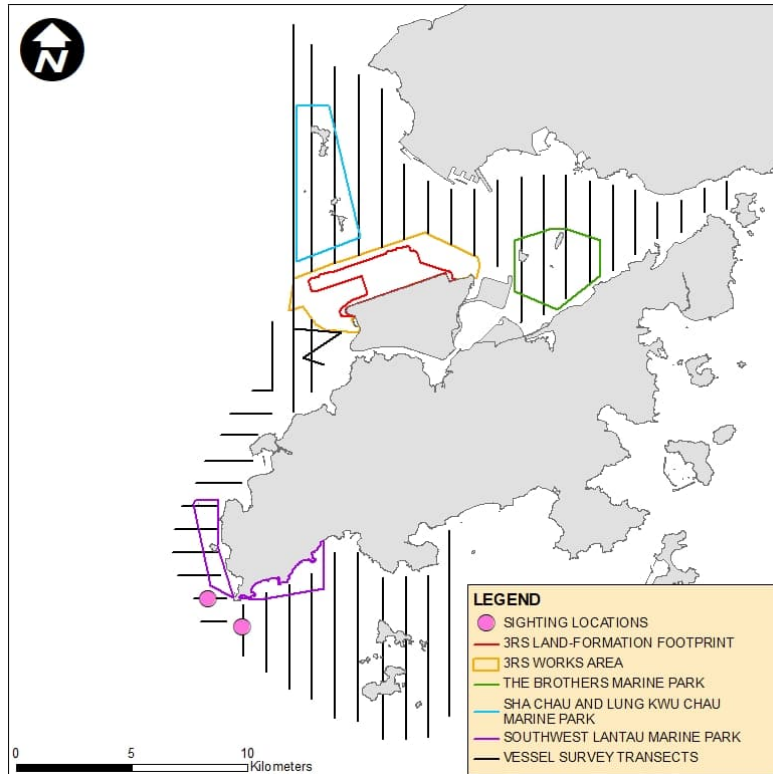
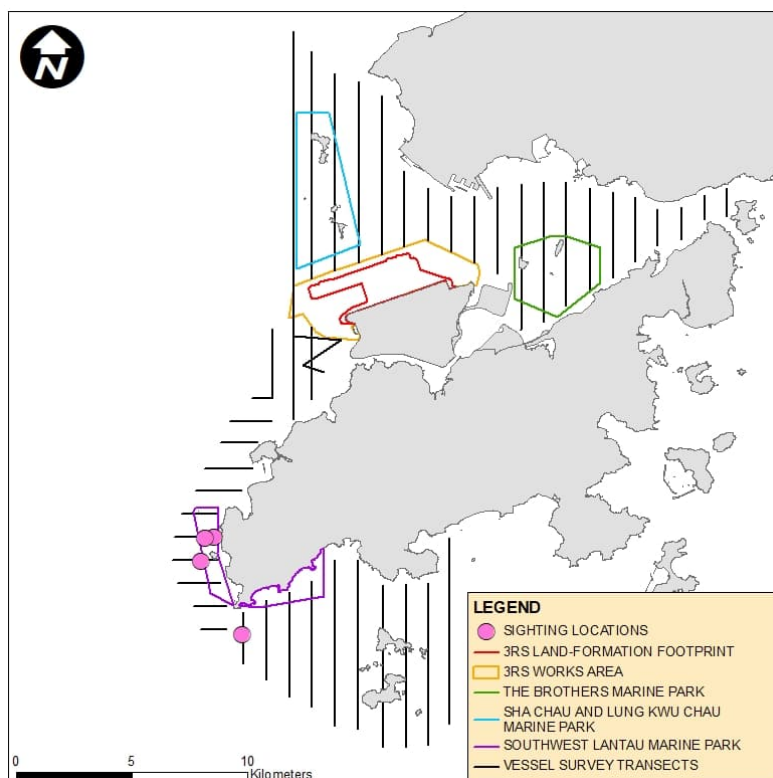
	
WLMM194	

Photo Identification – Re-sighting Locations

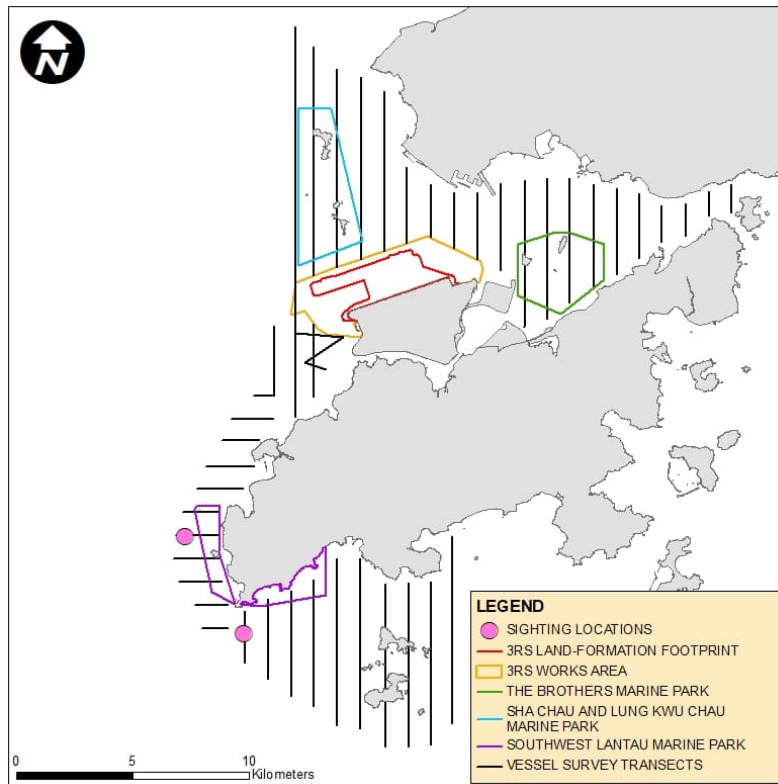
NLMM023



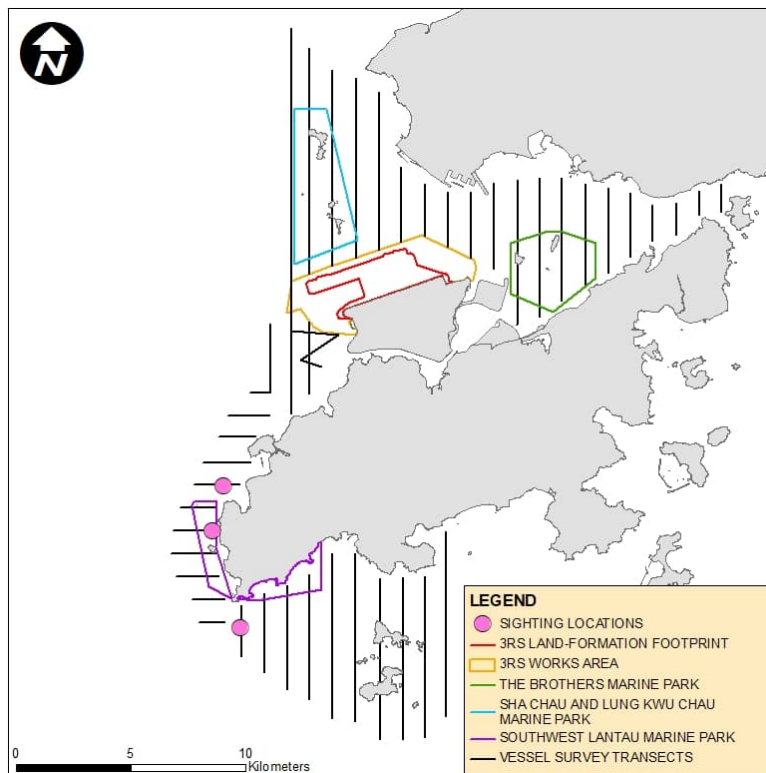
SLMM003



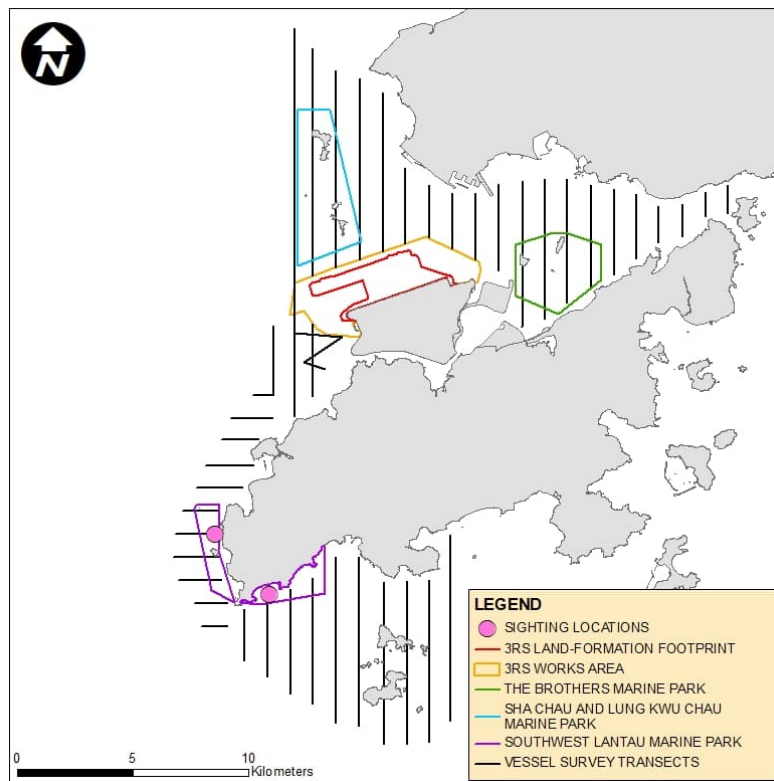
WLMM001



WLMM007



WLMM056



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
05/Oct/23	Lung Kwu Chau	08:54	14:54	6:00	3	1	0	0
11/Oct/23	Sha Chau	10:44	16:44	6:00	2	1	0	0
13/Nov/23	Lung Kwu Chau	8:55	14:55	6:00	3	2	0	0
16/Nov/23	Sha Chau	10:42	16:42	6:00	3	2-3	0	0
15/Dec/23	Lung Kwu Chau	8:49	14:49	6:00	2	2	2	1-2
27/Dec/23	Sha Chau	10:37	16:37	6:00	3	2-3	0	0

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

